DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES MANUFACTURES: 1919

MICHIGAN

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

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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.

Poriod 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 soperations, except for establishments which began or discontinued business during the

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

that's of brottet may be made in establishment 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

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

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.

influential the figures fall to aford 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

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 earner for the year in that industry to determine the average numbers 19 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 average content. entire country.

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 searnings of employees of both sexes, of all ages, and of widely varying degrees of kill. 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 earner fluctuates from month to month in every industry, and in some cases to avery great extent. The Census Burcaus'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 Lebox.—No attempt was made to ascertain the number of wage earners working agiven 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 itselffalls. 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.

Canital.—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 liveapital may be taken at the amounts carried on the books. If land or buildings are ented, that fact should be stated and no value given. If a part of the land or buildings are 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 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 luci, 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 internarievenes 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.

may differ from the value of the products soid.

"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 process carried on in the industry itself. Another part, and often by far the large on, 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 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 entirecest 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, advortising, and other supplys of the control of th

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

MICHIGAN.

GENERAL STATISTICS.

General character of the state.—Michigan has a gross area of 57,980 square miles, of which 57,480 represent land surface. The inhabitants of the state in 1900 numbered 2,420,982; in 1910, 2,810,173; and in 1920, 3,668,412. In total population Michigan ranked seventh among the states in 1920. The number of inhabitants per square mile in 1910 was 48.9, the corresponding figure for 1920 being 63.8.

In 1920 there were 28 cities in the state (see Table 6) having more than 10,000 inhabitants. The statistics for Hamtramek and Highland Park, however, can not be shown separately without the possibility of disclosing the operations of individual establishments. The combined population of these 28 cities in 1920 was 1,894,612, which formed 51.6 per cent of the total population of the state. In 1919 these cities reported 81.8 per cent of the value of the state's manufactured products.

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

Statistics for the state, by counties (Table 2).—
Figures are not available for comparison of county totals for 1919 with those of prior censuses. Of the 83 counties in the state, Wayne and Kent, which include the cities of Detroit and Grand Rapids, reported 60.5 per cent of the total value of products in the state in 1919 and 59.8 per cent of the average number of wage earners.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is often misleading as to their real importance from a manufacturing standpoint. Their ranking would change materially if based upon the average number of wage earners or value added by manufacture.

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

obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 36.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 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).—This table shows increases from 1914 to 1919 in practically all details for the cities for which comparative figures are available.

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

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months for selected industries, this table gives similar data for males and females for all industries combined for the state and for cities of 10,000 inhabitants or more, and also the number of females for industries in which a large number of females were employed. There were a number of industries in the state in 1919 in which the number of female wage earners predominated.

*Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in Michigan. In that year 11.6 per cent of the wage earners were included in the group "48 and under," as against 35.1 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 27.6 per cent of the total wage earners, as compared with 8.3 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 91.4 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 17.9 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 8.6 per cent of the total number of manufacturing establishments in the state, but reported 82.1 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for all items for 1909 and for the average number of wage earners and value added by manufacture for 1914.

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

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

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 39.1 per cent of the number of establishments in the state in 1919, they reported 94.3 per cent of the average number of wage earners and 95.2 per cent of the total value of products. During the five-year period 1914 to

1919 the average number of wage earners in corporations increased 202,687, or 83.8 per cent, and the value of products \$2,312,599,775, or 234.4 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in the 28 cities in 1919 represented 57.7 per cent of the total in the state. They reported in that year 79.8 per cent of the average number of wage earners and 81.8 per cent of the value of products.

Principal industries in Detroit, Flint, Grand Rapids, Lansing, and Saginaw, with per cent of total for state (Table 16).—This table includes the principal industries in each of the 5 cities in the state having 50,000 inhabitants or more in 1920, figures being given for those which can be shown without disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 471,745 horsepower, or 64.6 per cent. This increase, however, is chiefly due to the gain of 356,868 horsepower, or 185.6 per cent, in rented power. The owned power increased 114,877 horsepower, or 21.3 per cent, during the five-year period.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914 and gives separately for 1919 the amounts used by a number of industries which are large consumers of fuel.

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

					1	PE	R CENT OF	INCREASE	1
	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904- 1909	1899- 1904
Number of establishments	8, 305	8,724	9, 159	7,446	7,310	-4.8	-4.7	23.0	100
Persons engaged	549,069 6,762 71,065 471,242	320,611 7,725 41,796 271,090	271, 071 8, 965 30, 607 231, 499	200, 196 7, 732 17, 235 175, 229	,(2) ,(2) 13,350 155,800	71.3 -12.5 70.0 73.8	18.3 13.8 36.6 17.1	35. 4 15. 9 77. 6 32. 1	29, i 12, 5
Primary horsepower	1, 202, 128 \$2, 340, 954, 312	730,383 \$869,143,114	598, 288 \$583, 946, 965	440, 890 \$337, 894, 102	368, 497 \$246, 996, 529	64.6 168,3	27. 7 48. 8	35. 7 72. 8	19,6 36,8
Salaries and wages Salaries Wages	788, 743, 091 149, 034, 998 639, 708, 093	250, 524, 979 68, 272, 695 182, 252, 284		98, 749, 270 17, 470, 433 81, 278, 837	74, 867, 786 12, 335, 974 62, 531, 812	214.8 118.3 251.0	62, 8 95, 8 53, 2	55. 8 99. 6 46. 4	41.6
Paid for contract work	8, 232, 883 170, 170, 376 1, 919, 243, 243 3, 466, 188, 483 1, 546, 945, 240	592,801,064 1,086,162,432	368, 612, 022 685, 109, 169		(2) (2) 175, 966, 128 319, 691, 856 143, 725, 728		134. 7 57. 2 60. 8 58. 5 55. 9	-24.1 60.2 59.7 59.0	30.8 34.2

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¹ A minus sign (--) denotes decrease.

Figures not available.

Exclusive of internal revenue.

⁴ Value of products less cost of materials.

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

	Num- ber of	WAGE	EARNERS.	D-4	Clark - *	Walso -	Value added	Primary
COUNTY.	estab- lish- ments.	Average number.	Wages.	Rent and taxes.	Cost of materials.	Value of products.	by manufac- ture.	horse- power.
The state	8,305	471,242	\$639,708,093	\$170, 170, 376	\$1,919,243,243	\$3,460,188,483	\$1, 546, 945, 240	1, 202, 12
conåger ger (egan	15 105 39 18	1,421 1,567 1,378 1,364	13, 120 1, 590, 669 1, 659, 208 1, 533, 224 345, 062	624 175,747 659,490 340,033 66,039	120, 557 2, 304, 070 8, 028, 057 4, 887, 750 1, 459, 635	164, 849 5,710, 430 12, 244, 990 9, 361, 640 2,771, 329	44, 292 3, 406, 360 4, 216, 933 4, 473, 890 1, 311, 694	17 7,14 11,24 19,54 1,21
enac. raga ury	30 51 132 12	29 694 1,045 5,822 97	29, 895 715, 796 1,059, 365 6,217, 587 77, 326	2,011 50,177 147,260 1,737,938 17,953	203, 109 437, 836 2, 810, 522 19, 952, 846 453, 827	285, 764 2, 534, 071 5, 451, 217 30, 039, 750 637, 489	82, 655 2, 096, 235 2, 640, 695 16, 086, 910 183, 662	2,08 2,08 2,99 32,81 22
rrien. anch Ihounn. SS.	66 203 48 35	6,473 1,081 9,960 1,160 1,427	6,846,463 838,615 12,590,800 1,299,271 1,420,894	1,869,425 115,237 3,409,194 350,009 369,761	18,735,563 4,694,405 36,721,861 2,716,206 3,840,490	36, 481, 623 7, 317, 604 73, 217, 755 6, 358, 266 8, 119, 186	17, 696, 060 2, 623, 199 36, 495, 894 3, 642, 060 4, 278, 696	13,60 8,03 31,00 4,00 5,52
eboygan. .ippewa. are. .inton.	65 10 47	007 1,916 24 446 489	594, 589 2, 197, 143 19, 118 482, 875 624, 048	254, 187 598, 429 2, 882 20, 825 84, 063	3,356,968 7,489,351, 186,610, 1,604,159 812,546	5,095,039 12,720,989 260,948 3,022,596 2,041,895	1,738,071 5,231,638 74,338 1,328,437 1,229,349	5,18 8,20 10 2,00 1,80
awfordekinson	89 49 68 39 151	3,602 612 1,371 978 24,884	3,851,081 732,835 1,304,102 910,885 38,589,156	493, 369 41, 251 142, 556 64, 541 12, 345, 743	6,127,069 878,588 4,762,076 2,070,786 174,420,563	12,937,399 2,192,823 8,461,023 4,123,847 278,321,516	6,810,330 1,314,235 3,698,947 2,053,061 103,900,953	16, 51 2, 28 5, 76 5, 50 38, 9
enesce. ogobic rand Traverse ratiot. jillsdale.	13 49 63 61 63	24 642 991 1,700 791	23,600 771,324 871,185 2,261,171 771,627	4,469 38,807 108,225 632,994 87,098	292,007 1,076,792 2,321,874 21,162,890 6,915,230	350, 355 2, 134, 104 4, 234, 083 27, 165, 994 9, 377, 918	58, 348 1,057, 312 1,912, 209 6,003, 104 2,462, 688	1,7 3,5 6,9 2,7
ioughton uiron ngham nila.	123 45 180	2,038 480 12,441 3,144 228	2,144,489 535,277 14,065,615 3,089,449 324,675	216, 581 102, 541 4,014, 735 389, 777 19, 556	28, 597, 364 4, 501, 873 65, 874, 887 9, 503, 730 394, 751	38, 585, 922 6, 154, 760 105, 985, 903 16, 429, 508 1, 044, 389	9,988,558 1,652,887 40,111,016 6,925,778 649,638	6,1 3,8 21,3 7,6 1,3
ron. sabelia sekson Lalamazoo.	30 193	328 400 10,073 10,228 02	351, 173 397, 868 11, 714, 343 11, 361, 862 59, 615	13,175 69,788 740,950 2,314,850 2,876	580,624 3,111,274 31,221,013 37,700,972 77,737	1,265,147 4,577,862 52,065,986 07,086,766 202,961	084, 523 1,466, 588 20,844, 973 29,385,794 125, 224	7 1,3 20,6 50,0
(ent. ake. apeer æelanau anawee	700	25,640 10 277 61 3,009	28,395,218 8,401 275,205 45,758 3,049,751	4, 141, 176 479 14, 298 1, 291 503, 218	58,729,590 65,018 1,147,473 226,941 10,159,576	122,065,487 70,645 1,735,724 393,504 27,521,091	63,335,897 14,627 588,251 166,563 8,361,515	61,5 1,2 7 10,1
Jivingston Juce. Jackinac Jacomb Janistee.		274 745 256 692 2,076	305, 538 843, 584 228, 602 920, 544 1,717, 315	35,419 95,107 13,422 101,506 324,052	2,652,711 2,255,682 207,395 2,843,850 3,953,197	3,405,099 3,737,408 768,053 5,158,151 8,174,701	752, 388 1,481, 726 500, 658 2,314, 301 4,221, 504	1,1 2,5 7 2,8 9,1
darquette. dason decessa. denominee didiand	\$2 42 34 58	1,900 1,719 481 2,094 1,121	2,219,738 1,467,552 354,030 2,192,327 1,548,743	145,008 444,586 29,875 511,512 355,223	5,470,944 3,545,194 1,549,694 4,837,382 2,905,292	9,256,186 7,610,702 2,423,898 10,128,286 5,827,562		8,0 4,1 2,0 13,3 12,6
Missaukee. Monroe. Montealm Montmorency. Muskegon.	12	589 3,187 852 51 12,664	388, 676 3, 674, 451 620, 374 40, 127	152,886 709,188 84,549 901 3,699,818	467, 526 9, 129, 733 3, 183, 089 143, 926	1,367,225 17,661,031 4,636,383 204,217	1,453,294	1,4 18,6 1,1 31,6
Newaygo Oakiand Oceana Ogemaw Ontonagon.	46	508 8, 125 439	461,738 11,383,621 284,972 47,494	89,620 5,367,954 26,174	2,402,979 68,003,199 1,669,816 88,700	3, 568, 433 108, 195, 982 2, 362, 915 190, 002	693,099	2,8 15,6 1,
Oscala, Otsego Ottawa Presque Isle	22	294 353 5,588	301,737 276,695 5,399,169	37,093 41,586 976,221	1,954,010 475,334 22,192,115	2,543,674 1,258,382 37,002,265 3,492,235	589, 664 783, 048 14,810, 150 1,591,506	1, 1, 11, 2,
Saginaw St. Ctair. St. Joseph. Sanilao.	262 157 86 39	4,819 3,050 338	5,542,821 3,084,445 266,267	106, 229	12,267,522 6,104,948 2,911,490	3,768,671	. 857,181	
Schooleraft. Shlawassee. Tuscola. Van Buren. Washfonaw.	44 99	1,128	2,316,769 351,946 1,077,748	128,732 163,458	4,541,998	7,289,038	2,747,040	1
Washtenaw Wayne. Wexford All other counties 1	2,377	256, 144	390, 184, 190 1, 746, 132	115, 229, 416	8,829,273 1,058,452,036 7,5,999,267 134,948	10,313,88	6,622,460 917,147,634 8 4,314,621 119,274	. [18

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

		WAG		VALUE	OF	VALUE A	NU-		și li	WAG EARN)		VALUE PRODUC	OF ·	VALUE AN	DDED
	er of ments.	EARNE		PRODUC	1.1	FACTU	RE.	The state of the s	ber of timent					PACTU	RE,
INDUSTRY.	Number establishme	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution,	Amount (expressed in thousands).	Per cent distribution.	industry.	Number of establishments	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries	8,305	471,242	100.0	\$ 3,466,188	===	\$1,546,945	== [Wood distillation	16) 70	1,586 1,392	0.3	\$10,651 9,948 9,643	0, 3 0, 3	\$4,858 5,736	0.3
Automobiles	68 203	126, 937 49, 048	26. 9 10. 4	1,332,076 288,307	38.4 8.3	522,872 137,744		Cement Tobacco, chewing and smoking, and snuff	11	1,387 816	0.3	9, 643 9, 574	0.3	5,681 4,751	0,4
ucts. Engines, steam, gas, and water. Shipbuilding, steel, new vessels and small boats.	523 35	39,430 14,258	8.4 3.0	169,463 101,989	4.9 2.9	100,662 44,939		Clothing, men's	31 30	1,750 2,174	0.4 0.5	9, 189 8, 761	0.3	3,643 5,569	0.2
and small boats	7 171	15,996 18,496	3.4 3.9	83,124 69,497	2.4 2.0	48,078 41,187	3. 1 2. 7	Iron and steel, forgings, not made	15	1,506	0.3	8,559	0.3		1 : 1
Paper and wood pulp Brass, bronze, and copper prod-	39	9,561	2.0	66,300	1.9	25,046	• • 1	Springs, steel, car and carriage, not made in steel works or roll- ing mills	6	1,870	0.4	8,472	0.2	3,046	0.2
uets	80 24	10,306 1,712	2.2 0.4	62,708 59,585		23,859 9,810		Iron and steel, steel works and rolling mills.	7	1,455	0.3	8,345	0.2	5, 443	1
	380		1.1 3.2	50,318 46,044	1.5 1.3	29,139 30,350		Screws, machine	20 21	1,624 1,185	0.3	7,936 7,636	0.2	4, 318 3, 793	
Lumber and timber products. Leather, tanned, curried, and finished. Broad and other bakery products.	í i	3 484	0.7	45, 801 44, 923	1.3 1.3	13,349 16.808	0.9	specified Stoves, gas and oll Corsets Refrigerators	7 12 12	1,001 1,520 1,655	0.2 0.3 0.4	7,497 7,298 6,718	0.2 0.2 0.2	4,504 4,385 3,513	0.3 0.3 0.2
finished. Bread and other bakery products. Flour-mill and gristmill products. Lumber, planing-mill products, not including planing mills connected with sawmills	345	5,088 1,128	0.2	44, 144	1.3	5,959	0.4			1,120 924	0. 2 0. 2	6,046			0.1
connected with sawmills	192	1 1	1.1	37,869	1.1 1.1	13,860	0.9	Boots and shoes. Lamps and reflectors. Mineral and soda waters. Musical instruments, planos. Liquots, malt.	8 131 8 25	602 1,122 779	0.1 0.2 0.2	5, 564 5, 467 5, 397 5, 276	0.2 0.2 0.2 0.2 0.2	2, 602 2, 574 3, 249	פח (ג
Chemicals. Food proparations, not elsewhere specified. Butter. Smelting and refining, copper. Condensed milk.	36 37	5,712 2,483 984	1.2 0.5	37,851 35,702	1.0	22, 107 16, 889	1.1	Boxes, wooden packing, except]]		0.3] .
Smelting and refining, cop- per	231	709	0.2	33,385 32,725 27,738	0.9	3, 805 6, 980	0.5	eigar boxes	46 44 6 9	1,481 483 918	0.1	4,978 4,836 4,631	0.1 0.1 0.1	2,231 1,827 1,966	0.1
	32 16	1,064	0.2	27,738 26,379	. 1	4,631 9,697	0.8	Woolen goods	10	812 798	0.2 0.2	4, 230	0.1	1,691 2,558	1 .
Sugar, beet Electrical machinery, apparatus, and supplies Printing and publishing, news-	54		0.9	25,026	0.7	15,990	1.0	Automobile repairing Varnishes	259 6 33	968 193 1,036	0. 2 (1) 0. 2	4, 227 4, 092 3, 923	0.1 0.1 0.1	2,364 1,948 1,650	0,2 8 0.1 0 0.1
papers and periodicals. Druggists' preparations. Stoves and hot-air furnaces.	565 16 21	3, 176 3, 219 4, 240	0.7 0.7 0.9	24,930 23,904 20,489	0.7 0.7 0.6	17, 234 13, 908 14, 200	1.1 0.9 0.9	Clothing, women's. Cars and general shop construc- tion and repairs by electric- railroad companies.	15	1,401	0.3	3,828	0.1		}:
Moha ago algore and algorattes	240	5, 456		18,119 17,993		9,728	0.6	Copper, tin, and sheet-iron work. Paper goods, not elsewhere speci- fied.	115	694 451	0.1	3,791 3,748	0.1	2,203 2,069 1,452	()
Printing and publishing, book and joh. Cars and general shop construction and repairs by steam-rail-	436	2,846 3,717	0.6	17,993		9,723 11,204		Cheese Cleansing and polishing prepa- rations	55	146	(1)	3,663	0.1	445	(1)
		7,025	1.5	17, 223	0.5	10,995	0.7	Wall plaster and composition	20	138	(1)	3,599	0, 1	1,798	
Structuralironwork, not made in steel works or rolling mills	34]		6,109	0.4		10 10	585 799	1	3, 591 3, 410	l i	'	1
Wirework, not elsewhere speci- fied	38 24	2, 516 1, 019 2, 063	0.5 0.2	17,065 16,435	0. 5 0. 5	6, 262 6, 871	0.4 0.4	Carriages and sleds, children's. Brick and tile, terra-cotta, and fire-clay products Plumbers' supplies, not olse- where specified.	48 11	852 837	0.2	3,330 3,300	0.1	2,521 1,765	1:
Wirework, not elsewhere speci- fied	38 24 12 11 31	2,063 1,101 3,196	0.4 0.2 0.7	14, 054 13, 534 12, 656	0.4	7,715	0.2	Models and patterns, not including paper patterns.	52	861		3,280		2,840	1
Confectionery and ice cream	184	1.746	0.4	12,627	0.4	5,458	0.4	Wooden goods, not elsewhere specified. Steam fittings and steam and	18	084	0.2	3,225	1 -1	1,716	1
Knit goods Tools, not elsewhere specified Canning and preserving, fruits and vegetables		3, 261		12,039 11,899			0.5	hot-water heating apparatus All other industries 2	15 1,565	762 35, 634	0, 2 7, 6	3,063 218,966		1,490 125,291	
and vegetables. Agricultural implements. Boxes, paper and other, not elsewhere specified.	52 23			1		3, 201 6, 043									
where specified	22	2, 336	0.5	10,935	0.3	5, 649	0.4								

Less than one-tenth of 1 per cent.

Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are six having products in excess of some for which figures are shown in the table. These industries are as follows: "Billiard tables and accessories"; "cars, steam-rallroad, not including operations of railroad companies"; "cash registers and calculating machines"; "coke, not including gas-house coke"; "silk goods"; and "stationery goods, not elsewhere specified."

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

	Cen-			Fe-	FER CI	ENT OF	,	Cen-			-	PER CE	
CLASS.	sus year,	Total.	Male,	male.	Male.	Fe- male.	CLASS,	sus year.	Total.	Male.	Fe- male.	Malo.	Fe- male.
All classes	1919 1914 1909	549,069 320,611 271,071		42,382	86. 6 86. 8 85. 6	13, 4 13, 2 14, 4	Clerks and other subordinate sala- ried employees.	1919 1914 1909	50,663 32,058 22,576	31,258 22,928 16,183	19,405 9,130 6,393	61, 7 71, 5 71, 7	38.3 28.5 28.3
Proprietors and officials	1019 1914 1909	27,164 17,463 16,996	26,280 16,000 16,434	884 563 562	96. 7 96. 8 96. 7	3, 3 3, 2 3, 3	Wage carners (average number)	1010 1914 1900	471,242 271,090 231,499	417,708 238,401	32,680	88. 6 87. 9	11.4 12.1
Proprietors, and firm members.	1919 1914 1909	6,762 7,725 8,965	0,450 7,335 8,564	306 390 401	95, 5 95, 0 95, 5	4. 5 5. 0 4. 5	16 years of age and over	1919 1914 1909	469,750 289,519 228,982	190,298 418,616 237,496 197,777	53, 134 32, 023	88. 7 88. 1 88. 1 86. 4	13.9 11.3 11.9 13.6
Salaried officers of corporations.	1909	5,266 3,572 3,089	5,108 3,471 3,026	158 101 63	97. 0 97. 2 98. 0	3. 0 2. 8 2. 0	Under 16 years of age.	1919 1914 1909	1,492 1,571 2,517	1,092 905 1,521	400 666 996	73. 2 57. 6 60. 4	26.8 42.4 39.6
Superintendents and managers.	1919 1914 1909	15,136 6,166 4,942	14,716 6,094 4,844	420 72 98	97. 2 98. 8 98. 0	2. 8 1. 2 2. 0			-,011	2,022	3.00	5.H 1	

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

NDUSTRY. Consequence Section												
New North				PER CE	ENT OF T	OTAL.				PER CE	NT OF T	OTAL.
Allindustries. 1519 271, 242 88.4 11.3 0.3 11.8 0.3 0.3 11.8 0.3 0.3 11.8 0.3	industry.	sus	carners (average num-	16 year and	s of age over.	der 16	INDUSTRY,	sus	earners (average num-	16 year and	s of ago over.	der
Allindustries. 1919 471, 242 88.4 11.3 0.3 11.4 11.8 0.6 10.6 10.4 27.0 27.0			Del).	Male.		of			ber).	Male.		years of
Agrentural implements 1914 2,703 343 90.0 0.0 0.4 Automobile bodies and parts. 1914 24,743 90.0 97.7 21.1 0.1 Automobile bodies and parts. 1919 24,730 94.6 24.7 0.2 Automobile bodies and parts. 1919 24,837 95.8 4.1 0.1 Automobile bodies and parts. 1919 24,837 97.7 24.1 0.1 Bexes, paper and other, not elsewhere spect-lifed. 1914 4,982 97.0 2.0 0.1 Bexes, paper and other products. 1919 2,336 32.4 66.5 1.1 Bread and other bakery products. 1919 10,396 91.7 82.2 (1) Bread and other bakery products. 1919 4,031 94.5 3.6 19.6 0.7 Canning and preserving, fruits and vegetables. 1914 4,044 77.6 19.0 0.7 Canning and preserving fruits and vegetables. 1919 2,103 44.2 55.5 50.5 Bread separations. 1919 5,712 98.3 1.5 0.1 Druggists' preparations. 1919 4,100 60.0 30.0 0.1 Druggists' preparations. 1919 4,104 4,278 99.7 0.2 (1) Druggists' preparations. 1910 4,258 95.8 4.2 (1) Druggists' preparations, not elsewhere specified. 1910 4,258 95.8 3.2 (1) Druggists' preparations, not elsewhere specified. 1910 4,257 95.0 0.1 Druggists' preparations, not elsewhere specified. 1910 4,257 95.0 0.1 Druggists' preparations, not elsewhere specified. 1910 4,275 90.0 0.2 Druggists' preparations, not elsewhere specified. 1910 4,275 90.0 0.2 Druggists' preparations, not elsewhere specified. 1910 4,275 90.0 0.2 Druggists' prep	Allindustries	1914	271,090	87.6	11, 8	0,6	Hardware	1914	2,174 742	89. 8		
Automobile bodies and parts. 1010 40, 648 94.6 2.3 0.1 1914 24,780 97.7 2.1 0.1 1914 24,780 97.7 2.1 0.1 1914 24,780 197.7 2.1 0.1 1914 24,892 97.0 97.0 97.0 97.0 1914 1914 24,892 97.0 97.0 97.0 97.0 1914 1914 24,892 97.0 97.0 97.0 1914 1914 24,892 97.0 97.0 97.0 1914 1914 1914 1914 1914 1914 1914 191	Agricultural implements		2,708 2,143			(¹) 0.4						
Automobiles	Automobile bodies and parts					0.1			3,464 2,773			(1)
Bexes, paper and other, note less where specified.	Automobiles	1919 1914				0.1	Lumber and timber products					0. 1 0. 2
Bress, bronze, and copper products. 1919 10, 396 101.7 8.2 (1) 1014 4,731 94.5 3.6 1.8 Bread and other bakery products. 1919 5,088 1914 4,731 94.5 10.0 1.8 Bread and other bakery products. 1919 5,088 1914 1,014 77.0 10.0 10.0 10.0 10.0 10.0 3,717 10.0 10.0 10.0 3,717 10.0 10.0 10.0 10.0 10.0 10.0 3,717 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1	Boxes, paperand other, not elsewhere specified.		2,336	32.4	66.5	1,1	milig		5, 256 4, 944			0. 9 0. 7
Printing and publishing, book and job. 1010 3,717 68.9 29.8 1.3	Brass, bronze, and copper products		10,306	91.7	8, 2	(1)	Paper and wood pulp		0,561 0,051			(1) (1)
Canning and preserving, fruits and vegetables. 1919	Bread and other bakery products	1919	5,088	74.7	24, 3	1,0	Printing and publishing, book and job		3,717 3,860			1.3 1.5
Cars and general shop construction and repairs by steam-railroad companies. Chemicals	Canning and preserving, fruits and vege-		2,109	44,2	50.5	5.3	Printing and publishing, newspapers and periodicals.		3,176 3,270			2. 2 2. 1
Chemicals. 1019 5,712 98.3 1.5 0.1 Salt. 1019 2,063 1914 1,434 93.2 6.4 0.4 1.5	Cars and general shop construction and repairs by steam-railroad companies.	1919	7,025	98.7	1.0		Rubber tires, tubes, and rubber goods, not elsewhere specified.3	1919	5,044	91.8	8, 2	0.1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1019	5,712	98, 3	1, 5		Salt.					0,4
Electrical machinery, apparatus, and supplies. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Druggists' preparations	1919	3,219	43, 3	56.7						0.4	(1)
Engines, steam, gas, and water. 1910 14, 258 1914 4, 427 99.7 0.2 (1) Structural ironwork, not made in steel works or rolling mills. 1,371 99.8 3.2 (1) 99.4 0.6 1914 1,371 99.4 0.6 1914 1,371 1,371 99.4 0.6 1914 1,371 1,371 99.4 0.6 1914 1,371 1,371 1,371 99.8 3.2 (1) Tobacco, clgars and cigarettes 1919 5,456 16.6 83.1 0.3 1914 1,683 71.2 28.8 0.1 1914 1,683 71.2 28.8 0.1 1914 1,683 71.2 28.8 0.1 1914 1,683 71.2 28.8 0.1 1914 1,683 71.2 28.8 0.1 1914 1,683 71.2 28.8 0.1 1914 1,683 71.2 1,683 71.2 1,683 71.2 1,683 71.2 1,683 71.2 1,683 71.2 1,760 1914 1,7608 197.2 1,760 1	Electrical machinery, apparatus, and supplies.	1919	4,190	60, 9	39.0	0.1	Stoves and hot-air furnaces		4,240 3,832			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Engines, steam, gas, and water	1919	14, 258	95, 8	4.2	(1)	Structural ironwork, not made in steel works or rolling mills.		2,313 1,371			0.6 0.6
Foundry and machine-shop products 2	Food preparations, not elsewhere specified	1919	2,483	62, 6	37.4		Tobacco, elgars and eigarettes					
Furniture. 1919 18,496 85.9 18.2 0.0 Wirework, not elsewhere specified 1919 2,516 77.6 21.7 0.7	Foundry and machine-shop products 2	1919	42, 745	93. 9	6.0	0. 1	Tools, not elsewhere specified		3,261 372			
1914 14.700 95.8 3.7 0.5	Purniture	1919	18,496	85. 9	13, 2	0.9	Wirework, not elsewhere specified	1919 1914	2,516 1,314	77. 6 92. 6	21. 7 6. 7	0.7 0.7
Gas, Illuminating and heating. 1914 14,700 95.8 3.7 0.5 All other industries. 1919 85,406 78.6 20.8 0.6 1914 2,349 99.8 0.2 All other industries. 1919 87,4717 78.4 20.7 0.8	Gas, Illuminating and heating	1919	2,846	99, 8	0.2		All other industries	1919 1914	85, 406 72, 717			

¹ Less than one-tenth of 1 per cent.
2 Includes "iron and steel, tempering and welding" and "machine tools."

Not shown separately in 1914.

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

		AVE	RAGE NU	MBER OF	WAGE EA	RNERS IN	MANUF	ACTURIN	3 INDUST	RIES.					
	·				16 ye	ars of age	and ove	er.		Und	er 16 ye	ars	VALU	E OF PRODUC	rs.
CLLA.		Total.	•		Male.			Female.			of age.				
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Adrian	1, 870 1, 372 1, 612 6, 680 5, 057	1,256 1,494 842 4,599 3,771	1,059 1,432 573 4,175 4,737	1, 473 1, 288 1, 440 5, 503 3, 979	1,002 1,460 747 3,999 3,355	924 1, 403 535 3, 415 4, 263	388 84 172 1,170 1,062	249 33 93 599 386	118 27 38 752 441	9 7 16	5 1 2 1 30	17 2 8 33	\$14, 549, 031 9, 356, 190 9, 793, 696 56, 130, 953 28, 214, 525	\$5, 442, 338 4, 101, 935 2, 603, 379 23, 248, 420 11, 119, 286	\$6, 085, 126 3, 903, 823 1, 885, 894 20, 174, 016 10, 293, 747
Benton Harbor Detroit Escanaba Flint Grand Rapids	167, 016 842	1, 285 99, 603 777 8, 722 17, 427	81,011 720 7,088 17,590	2,030 145,179 637 22,190 19,146	1,098 82,012 615 8,349 14,622	64, 138 595 6, 775 15, 157	290 21, 379 204 2, 405 4, 163	187 16, 598 159 366 2, 748	15, 061 122 312 2, 320	8 458 1 8 239	993 8 7 57	1,812 3 1 113	11, 345, 034 1, 234, 519, 842 3, 017, 912 275, 779, 638 109, 135, 055	3, 021, 552 400, 347, 912 1, 506, 526 53, 375, 039 49, 792, 200	252, 939, 343 1, 074, 109 24, 118, 007 42, 230, 675
Holland	2,748 399	2, 165 516 79 4, 906 5, 525	2, 162 201 66 4, 788 6, 272	2, 250 375 99 8, 116 5, 922	1,877 511 75 4,019 4,253	1,951 197 59 3,754 4,390	464 14 7 1,485 1,654	270 5 3 867 1,233	186 4 6 1,023 1,844	34 10 1 19 53	18 1 20 39	25 1 11 38	17, 711, 095 1, 381, 290 1, 007, 432 49, 517, 712 46, 254, 917	8, 683, 835 793, 247 228, 643 16, 809, 846 20, 214, 314	5, 802, 04: 377, 410 122, 37- 13, 984, 12 17, 903, 56
Lansing	2.904	6, 231 589 4, 646	5, 285 509 4, 522	11,360 1,370 1,828 8,258	5, 903 572 3, 960	5, 043 500 3, 871	972 33 1,074 1,427	327 14 640	239 9 615	17 12 2 31	1 3 46	36	104, 722, 115 7, 210, 375 16, 052, 331 55, 969, 347	26, 984, 496 1, 394, 587 11, 147, 605	16, 567, 09 1, 277, 82 9, 647, 82
Owosso	1,781 7,682 2,231	1, 231 2, 409 1, 296 6, 342	1,739 1,580 5,368	1, 594 7, 071 1, 887 7, 791	1, 120 2, 336 1, 045 5, 479	1, 629 1, 435 4, 637	177 611 334 1,637	110 73 251 847	106 142 706	10 10 44	16	4 3 25	9, 948, 736 104, 990, 133 9, 545, 578 43, 146, 125	3, 468, 534 15, 102, 453 4, 090, 323 19, 008, 870	5, 893, 90 3, 588, 27 14, 192, 05
Sault Ste. Marie Traverse City Wyandotte All other cities ¹	6,214	938 956	825 1,220	1, 151 757 5, 958 63, 268	863 712	775 1, 102	96 200 252 1,358	74 242	50 117	1 3 4 3	1 2	1	10, 699, 767 4, 099, 960 33, 382, 791 569, 208, 377	3, 821, 464 2, 251, 484	3, 729, 11 2, 289, 18

¹ All other cities comprise Hamtramek and Highland Park.

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

		NUMBER.1		PER CEN	T OF MA	хімим.	MONTH.		NUMBER.1		PER CEN	T OF MA	KIMUM.
MONTH.	1919	1914	1909	1919	1914	1909	MUNTA,	1919	1914	1909	1919	1914	1909
JanuaryFebruaryMarchAprilMayJune	421,493 425,205 428,121 431,021 442,925 461,718	273, 067 277, 824 282, 176 281, 040 278, 103 269, 532	211,679 218,230 223,087 222,273 226,811 229,058	80. 6 81. 3 81. 9 82. 4 84. 7 88. 3	96. 8 98. 5 100. 0 99. 6 98. 6 95. 5	84. 6 87. 3 89. 2 88. 9 90. 7 91. 6	July August September October November December	480, 152 497, 915 507, 050 515, 805 522, 876 520, 623	268, 399 274, 164 273, 866 270, 454 254, 678 249, 777	232, 023 235, 804 240, 310 241, 912 246, 729 250, 078	91, 8 95, 2 97, 0 98, 6 100, 0 99, 6	95. 1 97. 2 97. 1 95. 8 90. 3 88. 5	92. 8 94. 3 96. 1 96. 7 98. 7 100. 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.]

[THE MOUNT OF	7	·										maric light		
	Aver- age		NUMI	ER EMPL	OYED ON	15TH DAY	OF THE	MONTH O	R NEARE	ST REPRE	SENTATIV.	E DAY.		Per
INDUSTRY AND CITY.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Septem- ber.	Octo- ber.	Novem- ber.	Decem- ber.	mini- mum is of maxi- mum.
All industries	471, 242 417, 708 53, 534	421, 493 371, 376 50, 117	425, 205 376, 532 48, 673	428, 121 379, 596 48, 525	431, 021 381, 814 49, 207	442, 925 392, 827 50, 098	461, 718 409, 526 52, 192	480, 152 424, 915 55, 237	497, 915 441, 386 56, 529	507, 050 449, 561 57, 480	515, 805 457, 033 58, 772	522, 876 464, 243 58, 633	520, 623 463, 687 56, 936	80, 6 80, 0 82, 6
Agricultural implements Automobile bodies and parts Automobiles Automobiles Automobiles	2,708 49,048 126,937	2,644 36,649 99,563	2,943 38,293 103,345	3, 111 40, 972 107, 479	3,113 42,760 114,432	2,913 43,619 121,185	2, 818 45, 763 128, 064	2, 068 49, 581 133, 493	2, 683 53, 044 138, 077	2, 110 56, 459 142, 977	2, 273 60, 218 144, 191	2, 468 61, 438 145, 197	2,752 59,780 145,241	67.8 59.7 68.6
Brass, bronze, and copper products	2,336 10,306	2,257 9,759	2,313 9,357	2, 274 9, 121	2, 253 9, 170	2, 246 9, 270	2, 246 8, 922	2, 335 9, 696	2,391 10,852	2, 336 11, 437	2, 414 12, 402	2, 515 12, 454	2, 452 11, 232	89.3 71.6
Bread and other bakery products Canning and preserving, fruits and	5,088	4,748	4,698	4,851	4, 954	4,975	5, 141	5, 177	5,311	5, 195	5, 278	5, 365	5, 363	87.6
regetables. Carsand general shop construction and repairs by steam-railroad companies. Chemicals.	2,109 7,025 5,712	7,038 7,494	7,044 6,697	400 6,975 5,768	6, 910 5, 042	781 6, 954 4, 980	3,533 6,938	5, 019 6, 960	4, 180 6, 978	4, 186 6, 928	3, 151 7, 064	1,581 7,243	658 7, 268	8.0 95.1
Druggists' preparations Electrical machinery, apparatus, and	3, 219	3, 183	3, 221	3, 208	3, 145	3, 170	5, 077 3, 171	5, 083 3, 247	5, 123 3, 210	5, 482 3, 232	5, 720 3, 212	5, 962 3, 317	6, 116 3, 303	66.5 94.8
Electrical machinery, apparatus, and supplies. Engines, steam, gas, and water. Food preparations, not elsewhere speci-	4, 190 14, 258	3, 847 16, 691	3,853 13,638	3, 845 13, 755	3,775 10,460	3, 854 10, 782	3, 928 13, 216	4, 050 14, 413	4,369 15,213	4, 493 15, 305	4, 697 15, 581	4,908 15,746	4,661 16,346	76.9 62.7
fed. Foundry and machine-shop products.	2,483 30,430	1,778 35,593	1, 917 36, 114	1,883 37,103	2, 119 36, 438	2, 583 36, 690	2, 728 37, 229	3, 083 39, 169	3,354 39,756	3, 108 41, 065	2, 621 43, 457	2,282 45,392	2, 840 45, 154	53, 0 78, 4
Furniture. Gas, illuminating and heating. Hardware. Knit goods. Leather, tanned, curried, and finished.	18, 496 2, 846 2, 174 3, 170 3, 464	15,908 2,557 1,758 3,201 3,302	16, 246 2, 387 1, 816 3, 175 3, 366	16, 795 2, 478 1, 807 3, 058 3, 303	17, 055 2, 509 1, 894 3, 115 3, 547	17, 406 2, 679 1, 992 3, 001 3, 406	17, 966 2, 754 2, 044 2, 971 3, 392	18, 843 3, 032 2, 223 3, 097 3, 527	10, 487 2, 984 2, 336 3, 188 3, 622	19, 777 3, 018 2, 427 3, 121 3, 511	20, 191 3, 274 2, 586 3, 352 3, 518	20, 913 3, 145 2, 627 3, 345 3, 525	21, 365 3, 275 2, 583 3, 416 3, 549	74. 5 72. 9 66. 7 87. 0 91, 2
Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with sawmills.	14,923	16, 355	16,575	15,656	13, 787	13, 797	13, 649	13, 957	14, 051	14,536	14, 783	15, 364	16, 566	82, 3
Paper and wood pulp- Printing and publishing, book and job.	5, 256 3, 196 9, 561 3, 717	4,251 3,314 9,223 8,535	4,301 3,214 9,185 3,621	4, 334 3, 066 9, 063 3, 613	4,690 3,044 9,110 3,600	5, 047 3, 055 9, 294 3, 576	5, 276 3, 030 9, 505 3, 619	5, 703 8, 057 9, 765 3, 621	5, 860 3, 165 9, 941 3, 734	5, 898 3, 268 9, 866 3, 844	5, 851 3, 324 9, 905 3, 916	5, 908 3, 436 9, 996 3, 908	5,953 3,384 9,879 4,017	71, 4 88, 2 90, 7 88, 0
Printing and publishing, newspapers and periodicals. Rubber tires, tubes, and rubber goods,	3, 176	3,032	3, 054	3, 075	3, 111	3, 143	3, 137	8, 192	3, 153	3, 236	3, 273	8,341	3,365	90.1
not elsewhere specified Salt. Shipbuilding, steel, new vessels and small boats.	5,044 2,063 15,996	4, 184 2, 017 17, 333	4,620 1,964 18,855	4,828 1,923 20,269	4, 587 1, 981 19, 133	4,810 1,925 18,904	4,786 2,016 19,726	4, 983 2, 060 15, 998	5, 164 2, 178 16, 370	5, 279 2, 125 13, 803	5, 505 2, 143 11, 592	5, 814 2, 169 10, 449	5, 968 2, 255 9, 460	70.1 85.3 46.7
Stoves and hot-air furnaces	4,240	3,815	4, 160	4, 159	4, 095	4, 133	4,070	3, 975	4, 306	4, 429	4,609	4, 679	4, 450	81.5
Structural ironwork, not made in steel works or rolling mills. Tobacco, digars and digarettes. Tools, not elsewhere specified. Wirework, not elsewhere specified. All other industries.	2, 313 5, 456 3, 261 2, 516 85, 525	2, 125 5, 238 2, 860 1, 089 83, 397	1,969 5,504 £,810 2,242 82,290	1,965 5,428 2,923 2,368 77,265	1, 980 5, 400 2, 994 2, 398 77, 819	1,932 5,465 2,997 2,500 79,843	2,098 4,656 3,076 2,758 82,415	2, 384 5, 281 3, 094 2, 712 85, 674	2,592 5,489 3,328 2,638 89,788	2,641 5,516 3,574 2,638 90,175	2,668 5,730 3,740 2,704 90,912	2,675 5,847 3,923 2,638 93,306	2,727 5,918 3,813 2,598 93,416	70. 8 78. 7 71. 6 72. 1 82, 7
Industries showing large proportion of females.														5,
Boxes, paper and other, not elsewhere specified. Bread and other bakery products. Canning and preserving, fruits and vegetables	1,571 1,255	1,557 1,228	1,582 1,120	1, 514 1, 226	1,511 1,257	1,487 1,238	1,484 1,256	1,549 1,298	1,565 1,302	1,548 1,215	1,633 1,255	1,734 1,329	1,688 1,336	85, 6 83, 8
vegetābles. Druggists' preparations Electrical machinery, apparatus, and supplies.	1,139 1,824	377 1,872	129 1,880	97 1,851	139 1,808	235 1,834	2,034 1,821	2,829 1,835	2,487 1,757	2,466 1,797	1,926 1,770	745 1,831	204 1,832	3. 4 93. 5
Food preparations not elecurbers	1,638	1,482	1,488	1, 502	1,481	1,512	1,520	1,559	1,719	1,776	1,848	2,027	1,783	70.6
specified. Hardware. Knit goods. Printing and publishing, book and job. Tobsco, cigars and cigarettes. Wirework, not elsewhere specified.	928 485 2,399 1,112 4,543 552	525 385 2,434 1,065 4,362 356	608 389 2,389 1,097 4,596 458	639 386 2,302 1,084 4,521 482	850 387 2,367 1,071 4,491 514	1, 108 421 2, 278 1, 041 4, 528 570	1, 171 430 2, 246 1, 070 3, 836 626	1,329 526 2,362 1,065 4,394 628	1,388 540 2,409 1,104 4,554 617	1, 242 551 2, 354 1, 154 4, 599 601	861 594 2,549 1,175 4,795 590	688 616 2,528 1,187 4,901 586	727 595 2,575 1,231 4,939 596	37, 8 62, 5 87, 2 84, 6 77, 7 56, 7
Total for cities	376, 032 332, 700	\$50,601 289,311 41,290	333, 217 293, 253 39, 904	335, 523 295, 713 39, 810	344,776 304,357 40,419	355, 475 314, 435 41, 040	367,611 325,799 41,812	384,337 340,677 43,660	397, 195 352, 332 44, 863	408,026 361,860 46,166	416,590 369,379 47,211	419, 976 372, 486 47, 490	419,057 372,798 46,259	78. 7 77. 6 83. 8
Adrian Males Females	1,870 1,482 388	1,748 1,373 375	1,827 1,454 373	1,811 1,460 351	1,763 1,387 376	1,715 1,362 353	1,76 0 , 1,397	1,789 1,397 392	1,902 1,500 402	1,918 1,520 398	2,082 1,675 407	2, 055 1, 629 426	2,064 1,630 434	82, 4 81, 3 80, 9
ALPENA Males Females	9.4.4	1, 224 1, 175	1, 218 1, 170	1, 236 1, 186	1,332 1,277	1, 247 1, 188	1,278 1,222	1,325 1,262	1,360 1,294	1,539 1,469	1,590 1,435	1, 576 1, 409	1,539 1,371 168	76, 6 79, 6
ANN ARBOR Males Females	1,612 1,440 172	1,555 1,379	48 1,615 1,466	1,686 1,509	1,508 1,338	1,638 1,481	56 1,588 1,445 143	63 1,711 1,513 198	1,529 1,341	70 1,604 1,419	1,638 1,466	167 1,652 1,470	1,626 1,453	28. 6 87. 8 88. 4 72. 2
BATTLE CREEK. Males. Females. 92264°—22——2	6,680 5,506 1,174	5,868	6, 267 5, 375 892	177 6,356 5,414 942	6,667 5,547 1,120	7, 009 5, 658 1, 351	7,145 5,725 1,420	7,374 5,793 1,581	7,554 5,956 1,598	6, 693 5, 259 1, 434	6,267 5,195 1,072	6,342 5,437 905	6,618 5,668 950	72. 2 77. 7 84. 7 51. 5

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

	Aver-		NUMBE	R EMPLO?	ZED ON 1	5TH DAY	OF THE	MONT	H OR 1	NEAREST	REPRESE	SATATIVE	DAY.		Per
INDUSTRY AND CITY.	age num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	Jul	y. A	ugust.	September.	Octo- ber.	November.	December,	mini- mum is of maxi- mum
BAY CITY	5,057 3,995 1,062	5,036 4,037 999	4,956 3,926 1,030	4,902 3,904 998	4, 983 3, 950 1, 033	4,762 3,829 933	4, 983 4, 009 974	4, 1,	130 112 018	4,305 3,159 1,146	4,362 5,159 1,203	5, 590 4, 340 1, 250	5,548 4,485 1,063	6,127 5,030 1,097	70. 62. 74.
BENTON HARBOR Males. Females.	2,328 2,038 290	2,433 2,166 267	2, 253 2, 030 223	2, 201 1, 980 221	2, 174 1, 967 207	2,092 1,879 213	2,354 1,867 487	2,	375 056 319	2,264 2,009 255	2,380 2,040 340	2, 439 2, 057 382 185, 542	2, 464 2, 173 291	2,507 2,232 275	83 83 42
DETROIT. Males Females	167,016 145,565 21,451	154, 228 132, 821 21, 407	153, 741 133, 256 20, 485	151,248 131,083 20,165	152, 357 132, 224 20, 133	155,860 135,415 20,445	158, 252 138, 266 19, 986	146, 21,	659 1 097	175, 163 153, 791 21, 372	181, 300 158, 650 22, 650	162, 250 23, 292	185, 910 162, 236 23, 674	182,835 160,129 22,706	8) 80 84
ESCANABA	842 638 204	873 653 220	882 655 227	873 643 230	869 652 217	857 640 217	811 620 191		799 620 179	774 608 166	811 623 188	839 638 201	850 646 204	866 658 208	97
FLINT Males Females	24,603 22,198 2,405	18,556 16,364 1,992	20, 161 18, 155 2, 006	21, 174 18, 995 2, 179	22, 430 20, 049 2, 381	24, 113 21, 656 2, 457	25, 214 22, 717 2, 497	2	,782 ,231 ,551	27, 335 24, 771 2, 564	27, 244 24, 648 2, 596	26,688 24,087 2,601	27, 325 24, 670 2, 655	29,414 27,033 2,381	
GRAND RAPIDS	23,548	20,724 17,015 3,709	21,044 17,324 3,720	21,326 17,627 3,699	21,687 17,830 3,857	21,749 17,857 3,892	. 1) 19 3 4	,923 ,510 ,413	24, 898 20, 193 4, 705	25, 183 20, 576 4, 607	25, 985 21, 166 4, 819	26, 463 21, 783 4, 680	26,918 22,259 4,659	11
HOLLAND Males Females		2, 432 1, 989 443	2,477 2,028 449	2,493 2,052 441	2,456 2,049 407			4 2	2,870 2,376 494	3,036 2,521 515	3,089 2,527 562	2,964 2,372 592	489	480	
IRONWOOD		406 393 13	409 399 10	419 409 10	281 267 14		38		420 405 15	412 398 14	439 425 14		408 17	17	
Ishpeming. Males. Females.			57	63 59 4	66 62 4	70		5 1 4	78 73 5	152 144 8	162 155 7	149 15	146 13	144 15	
JACKSON. Males. Females.	9,620 8,132 1,488	6,834	7, 135	7,494	7,590	7,41	2 7,7	11 53	9, 596 8, 107 1, 489	10,316 8,758 1,558	10,359 8,797 1,562	9,141 1,641	9,418	9,160	3
JACKSON. Males. Females. KALAMAZOO Males. Females.	7,629 5,955 1,67	5,566	1 5,659	5.618	5,63	5,49	$\begin{array}{c c} 9 & 5,63 \\ 1 & 1,5 \end{array}$	38 92	7,577 5,915 1,662	7,819 6,147 1,672	4	1,70	7 6,160 1 1,86	6,83 L 1,88	8
LANSING	12,349 11,379	9,38	10,951 10,107 844	10,605	10,74	5 11,05	$\begin{bmatrix} 2 & 11,5 \\ 3 & 1,0 \end{bmatrix}$	02 1 91	3,098 1,991 1,107	13, 194 12, 128 1, 066	11,762 914	12,68	8 12,756 4 95	5 11,79 7 97	3
MARQUETTE Males Females	1,41 1,38	2 1,40	3 1,40	1,388	1,38	4 1,43	1,2	39 27	1,409 1,382 27	1,418 1,391 27	1,341	$\begin{bmatrix} 1,39\\2 & 3 \end{bmatrix}$	0 1,40 7 3	1 1,42	8.1
Monroe Males Females	2,90	9 1,65	6 1;65	1 1,689	$\begin{bmatrix} 1,72 \\ 0 & 1,02 \end{bmatrix}$	$\begin{array}{c c} 0 & 1,76 \\ 6 & 1,0 \end{array}$	95 1,8 50 1,6	61	2,988 1,914 1,074	2,990 1,935 1,061	1,93	3 1,91 0 1,11	3 1,93 7 1,15	9 1,98	16 16
Musregon	9,71 8,27	1 8,10	6 7,61	7 7,87	9.1 - 7063	30 7,8	10 7.9		9,624 8,265 1,359	10,147 8,618 1,529	8,69	9 8,69 2 1,56	02 9,08 52 1,64	3 9,3 18 1,6	58 35
Owosso	1	1,6	20 1,48 78 1,35 42 13	0 1,43	2 1,48	88 1,5	05 1,	739 565 174	1,775 1,595 180	182	$\begin{bmatrix} 1,61 \\ 2 \end{bmatrix}$	3 1,68	51 1,85 05 2	28 1,9 16 2	12
PONTIAC Males Females	7,65 7,0'	71 5,1	82 5, 91 80 5,39 92 52	19 6,81 26 6,25 23 56	7 6,8 66 6,2 6	24 6,4	40 6, 02	278 680 598	8,028 7,414 614	7,713	l l	34 8,3 36 6	39 8,6 39 6	76 8,4 69 6	30 83
PORT HURON	2,2 1,8	96 1,3	85 1,46	60 1,54	14 1 1.6	50 1,	1 .	303 002 301	2,417 2,099 318	2,01	5 2,38	56 2,3 27 3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	35 1,1 00 .	69 121
SAGINAW Males Females	9,4 7,8 1,6	34 6,4	89 6,6 61 1,4	$ \begin{array}{c c} 23 & 6,6 \\ 00 & 1,4 \end{array} $	78 6,9	29 7,	15 1,	029 509 520	9,748 8,070 1,678	8,29	01 8, 40 04 1, 8	65 8,8 23 1,8	50 9,4 81 1,9	31 1,	893
SAULT STE. MARIE	1, 2 1, 1	52 1,0	17.1	31 1.0	86 1,0	187 1, 1, 1,	236 1, 139 1	270 171 99	1, 254 1, 159 0	1,18 5 1,18	53 1,1	85 1,1 93 1	101 1,3	216 1, 109	307 195 112
TRAVERSE CITY		760 760	<i>164</i> 6	81 7	02	706	883 710 173	900 719 181	945 710 235	0 79 2 23	93 32 2	39	848 207	882 212	076 866 210
WYANDOTTE	6, 5,	62 6	360 6 ,6	953 6, 5 886 6, 3 267	324 6,	369 6,	547 6 348 6 199	,605 ,386 219	4,72 4,47 25	9 5, 13 5 4, 8 4 2	98 (5,6	327 5, 282 5,	782 5, 283	775 6, 296	503 214 289
ALL OTHER CITIES ¹	64, 63,	50, 271 48, 358 1,	186 50,2 847 49,0 339 1,	211 52,3 058 51, 158 1,	353 57, 197 56, 156 1,	820 62 599 60 221 1	039 66 830 65 209 1	,685 ,326 ,309	69, 82 68, 57 1, 24	70, 5 74 69, 1 16 1, 4	71 72.3	337 72.	329 74, 750 72, 579 1,	OKO 71	293 713 580

¹ All other cities comprise Hamtramck and Highland Park.

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

	Corres		in estabi	LISHMENTS	WHERE TO	e prevaili	NG HOURS	OF LABOR	PER WEEL	c were-
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48, 1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60
All industries	1919 1914 1909	471, 242 271, 090 231, 499	8,654 (²) (²)	8, 234 (2) (2)	148, 486 31, 326 11, 174	166, 318 31, 353 6, 612	48, 624 57, 614 38, 449	51, 744 75, 878 51, 552	33, 281 64, 861 113, 762	5,90 10,05 9,95
gricultural implements	1919 1914	2, 708 2, 143	(2)	(2)	199	219 411	120 788	2,266 411	101 334	
utomobile bodies and parts.	1919 1914	49,048 24,736	198 (2)	1,909 (2)	18, 717 88	20, 920 2, 127	2, 805 2, 557	4, 176 16, 740	323 3, 224	
utomobiles	1919 1914	126, 937 42, 802	526 (2)	(2)	59, 573 12, 376	58, 559 7, 232	7, 043 971	1, 196 16, 908	40 5,315	
oxes, paper and other, not elsewhere specified	1919 1914	2,336 1,461	(2)	(2)	874 36	635 75	448 213	355 907	24 230	
rass, bronze, and copper products	1919 1914	10,306 4,731	497 (2)	524 (2)	26 14	5, 834 143	124 1,360	2, 924 1, 977	377 1,237	
read and other bakery products	1919 1914	5,088 4,014	423 (*)	324 (²)	1,138 425	668 561	1, 944 1, 394	89 598	447 966	Į
anning and preserving, fruits and vegetables	1919 1914	2,109 1,687	23 (²)	(2)	156 24	6	201 522	273 311	958 795	49
ars and general shop construction and repairs by steam-railroad	1919 1914	7,025 5,803		57	6, 194	206	42	452 67	74	
companies. hemicals	1919	5,712 4,509	(2)	(2)	382 1,737	1,589 719	3, 198	2, 609 2, 040	553 479	
ruggists' preparations	1914 1919	3, 219 2, 175	(²) 40	(2) 2,631	29 20	18 422	20 18 183	60	1,741 28 1	6(
lectrical machinery, apparatus, and supplies	1914	4, 190	16	47	453 73	1, 925 2, 461	370	66 515	128	2
ingines, steam, gas, and water	1914	1, 144 14, 258	(²) 390	(2)	73 3,208	118 4,013	471 917	277 5, 716 2, 267	205 14	
ood preparations, not elsewhere specified	1914 1919	1, 427 2, 483	5		87	97 135	1, 547 25	62	516 1,948	2
oundry and machine-shop products 3	1914 1919	1,683 42,745	(2) 1, 257	(2) 15	553 4,963	67 18,802	122 5, 316	9, 726	797 2,666	<u> </u>
urniture.	1914	17,608 18,496	1, 257 (²) 41	(²) 38	670 210	18, 802 1, 766 12, 339	4,637 3,282	8,727	1,808 170	
as, illuminating and heating	1914	14,706	(2)	(2)	645 1,203	2,080	5, 502	2, 416 2, 344 667	4,135 • 852	1
lardware.	1914	2,846 2,349	S.V			••••	109 557	967 24	270 18	1,0
	1914	2,174 742	(2)	(2)	381	1,194	168	358	86	
Init goods	1919 1914	3,170 2,714	(2)	(2)	921 26	1,431 201	771 2,315	172		
eather, tanned, curried, and finished	1919 1914	3,464 2,773			674	1,021 11	1,641 972	563	128 1,227	
umber and timber products.	1919 1914	14,923 21,488	(²) 28	(2)	168 84	133 547	337 427	808 325	13,443 20,105	
umber, planing-mill products, not including planing mills connected with sawmills.	1919 1914	5,250 4,944	260 (2)	(2)	23 171	1,396 314	814 1,470	1, 676 1, 256	1,087 1,704	,
Paper and wood pulp	1919 1914	9, <i>5</i> 61 6,051			5,310	1,904 278	2,011 1,016	226 623	9 1,482	2,6
Printing and publishing, book and job	1919 1914	8,717 8,860	(²)	(2) 36	3,277 2,748	297 555	42 500	1 32	20 25	
Printing and publishing, newspapers and periodicals	1919 1914	3, 176 3, 270	133 (²)	(2) 87	2, 295 2, 059	202 209	296 682	57 190	105 106	
Rubber tires, tubes, and rubber goods, not elsewhere specified 4	1919	5,044	17		4,845	48	2	132		
Salt.	1919 1914	2,063 1,434	(2)	(2) 2	541 12		411 40	587 565	428 536	:
hipbuilding, steel, new vessels and small boats	1919 1914	15, 996 935	(4)	(3)	15, 994 89		659	2	187	
Stoves and hot-air furnaces	. 1919 1914	4,240 3,832	(2)	(2)	67 5	1,611 724	1,569 2,209	692 275	100 619	
Structural ironwork, not made in steel works or rolling mills	. 1919 1914	2,313 1,371	(2)	(2)	265 156	1,016 47	102 304	764 848	166 16	
Tobacco, cigars and cigarettes	. 1919 1914	5,456 7,295	884 (²)	Į.	796 3,466	1, 185 1, 751	2,002 2,049	4 6	55 23	
Tools, not elsewhere specified		3, 261 372	(2)	1	188	2,566 1	193 39	207 288	3 43	
Wirework, net elsewhere specified	1919	2,516 1,314	78		416	563 12	245 129	1,080	43 469	1
All other industries.	1914 1919 1914	85,406 72,717	11		13,764 6,991		14,853 21,041	1	9, 047	4,

 ¹ Includes 48 and under for 1914 and 1909.
 ² Corresponding figures not available.

Includes "fron and steel, tempering and welding" and "machine tools."
 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.

			IN ESTAB	LISHMENTS	WHERE TI	ie prevail,	ING HOURS	OF LABOR	PER WEE	K WERE
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60,	Over60,
Total for cities.	1919 1914	376, 032 177, 605	7,405 (¹)	7, 935 (2)	122, 704 16, 389	153, 330 28, 851	37, 412 45, 136	35, 310 57, 509	10, 546 26, 619	1,390 3,101
Adrian	. 1919 1914	1, 870 1, 256	(2)	(2)	26 28	379 31	356 179	817 270	282 695	6
ALPENA	. 1919 1914	1, 372 1, 494	(2)	(3)	348 33	30	77 42	423 310	494 848	44 26i
Ann Arbor.	. 1919 1914	1,612 842	. 78	10	118 189	417 6	272 237	697 316	16 80	201 4 14
BATTLE CREEK	1919 1914	6,680 4,599	40 (²)	(2) 31	733 870	185 492	423 1,478	3,003 709	2,051 1,042	214
BAY CITY	. 1919 1914	5, 057 3, 771	69 (2)	(2)	1,944 237	882 184	497 1,249	760 497	883 1,462	2
BENTON HARBOR.	1919 1914	2, 328 1, 285	(2)	(2)	196 11	3 19	550 133	1,307 564	228 558	142
DETROIT	1919 1914	167, 016 99, 603	5, 460 (³)	7,019	53, 344 9, 702	71, 132 20, 735	12,788 20,248	15, 159 35, 419	1,547 12,804	567 695
ESCANABA	1919 1914	842 777	29 (²)	(2)	264 67	9 12	287 224	36 343	214 127	3
FLINT	. 1919 1914	24, 603 8, 722	76 (2)	(2)	181 157	22, 597 341	597 406	709 7,568	439 146	4
GRAND RAPIDS.	1919 1914	23, 548 17, 427	323 (²)	445	4,338 1,721	15, 448 2, 484	1,867 9,048	936 1,997	177 1,911	104 14 266
HOLLAND	1919 1914	2, 748 2, 165	(1) 4	(1)	223 232	826 27	967 939	619 409	15 490	86
IRONWOOD.	1919 1914	399 516	(2)	(2)	23	6 9	19 10		350 480	
Ishpeming	1919 1914	107 79	(2)	(2)	17 14	3	58	13	16 52	
Jackson	1919 1914	9,620 4,906	13	(2) 5	1, 144 413	5, 421 900	928 1,568	1,916 1,411	187 403	21
KALAMAZOO.	1919 1914	7,629 5,525	519 (2)	300	1,442 251	3,230 682	1,068 2,392	930 861	125 1,102	11 23
LANSING	1919 1914	12,349 6,231	(2) 8	(2)	350 484	3, 534 2, 175	7,600 634	670 2,474	85 889	95
MARQUETTE	. 1919 1914	1,415 589	(3)	(2)	489 291	60	35 92	26 14	800 185	1
Monroe	1919	2,904	1	}	1,922	175	565	120	115	-
Muskegon	1919 1914	9,716 4,646	345 (2)	(1) 3	716 581	228 301	3,777 2,587	4, 239 378	296 444	112 355
Owosso	1919 1914	1,781 1,231	(2)	(2)	72 70	25	506 71	952 345	71 625	153 120
Pontiac	. 1919 1914	7,682 2,409	(²)	(2)	2,540 58	4, 473 14	29 257	74 1,785	527 214	33 81
Port Huron	1919 1914	2,231 1,296	290 (²)	(³) 21	957 279	144 185	155 185	507 91	144 327	13 229
Saginaw	1919 1914	9, 472 6, 342	(²)	(2) 52	1,905 607	4, 251 236	1,913 2,982	879 586	343 1,767	19 164
SAULT STE. MARIE.	1919 1914	1,248 938	(²)	(2) 1	28 33	692 2	448 124	15 592	59 178	9
TRAVERSE CITY	. 1919 1914	960 956	(2)	(²)	101 54	89 6	167 41	279 561	324 290	4
WYANDOTTE. ALL OTHER CITIES *	1 -5	6,214	2		5,037	662	23	22	468	ļ
SERVICE CIALED TO SERVICE SERV	1919	64,629	13	6	44, 246	18, 432	1,440	202	290	

I Includes 48 and under for 1914 and 1909.

² Corresponding figures not available.

³ All other cities comprise Hamtramck and Highland Park.

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

	тот	AL.)	establi	SHME	NTS EM	PLOYI	NG-						
INDUSTRY AND CITY.	ents.	earners number).	No wage earn- ers.	1 to wa earn inclus	ge ers,	6 to we earn inclu	ige iers,	ear	to 50 age ners, asive:	eari	o 100 age ners, nsive.	eari	o 250 age ners, isive.	ear	to 500 age ners, nsive.	ear	to 1,000 vage rners, lusive.	V	r 1,000 vage eners,
	Establishments	Wage e (average 1	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
All industries	8,305	471, 242	1,085	3,809	8, 573	1, 494	16,748	747	25,050	456	33,945	414	66,285	167	57,771	78	53,182	55	209,688
Agricultural implements	23 203 68	2,708 49,048 126,937	9 1	6 48 4	19 104 10	39 7	59 470 88	6 21 13	234 694 459	3 20 8	202 2,088 614	20 11	208 3,210 1,857	2 17 5	$\substack{6,170 \\ 6,491}$	13 2	9,329 1,751	1 10 17	1,042 26,983 120,667
Automobiles and parts. Automobiles. Boxes, paper and other, not elsewhere spec- filed. Brass, bronze, and copper products.	22 80	2,336 10,306	$\begin{vmatrix} 1\\2\\100 \end{vmatrix}$	14	39	6 23	281	5 12	185 397	5 9	334 649	3 5	591 862	1 9 3	294 3,114 898	5	846 3,432	ï	i,532
Bread and other bakery products. Canning and preserving, fruits and vegetables. Cars and general shop construction and re- pairs by steam-railroad companies.	944 52 36 36	5,088 2,109 7,025 5,712	190	606 8 2 14	1,306 28 2 25	112 16 4 4	1,040 205 42 64	23 15 7 7	758 515 202 223	6 6 10 1	427 467 761 90	4 6 6	659 894 987	 1 1	411 340	5	3, 616 692	1 3	1,004 4,278
pairs by susain-influence (Chemicals). Druggists' preparations. Electrical machinery, apparatus, and supplies. Engines, steam, gas, and water. Food preparations, not elsowhere specified. Foundry and machine-shop products.	16 54	3,219 4,190 14,258 2,483 39,430	3 2 1 5	1 15 5 17	2 42 18 32	5 13 3 6	54 171 46 47	2 6 6 4	50 254 215 142	3 7 6 2	196 573 483 152	8 7 1	1,250 1,315 213	1 2 2	286 658 854	1 1	700 771	1 1 4 1	2,631 1,242 10,627 1,126
Foundry and machine-shop products. Furniture. Gas, Illuminating and heating. Hardware. Knit goods. Leather, tanned, curried, and finished.	523 171 59 30	18,496 2,846 2,174	23 4 1	143 21 15 7	385 62 59 15	102 27 26 5 7	1,194 357 278 48 93	107 32 7 5 6	3,565 1,051 220 129 224	52 36 5 7 7	3,715 2,767 352 562	55 33 5 4 3	8,790 5,340 748 672 432	10 2 2 2 2	9,370 3,601 748 826	10 8	6,549 5,318 1,035	1	5,862 1,189
	380	3,170 3,464 14,923	1 9	176	889	2 87	1,005	38	95 1,310	8 29	554 611 2,170	12 25	2,010 3,790	12	826 730 3,694	4	2,565		
Lamber and timber products, not including planing mills connected with sawmills. Machine tools. Paper and wood pulp. Printing and publishing, book and Job.	192 31	5,256 3,196 9,561 3,717	6	74 3 2 203	186 10 6 470	55 7 3 92	673 81 23 961	31 4 2 31	1,066 144 63 1,000	12 8 4 16	878 500 280 1,110	11 7 13 1	1,624 1,005 2,305 176	3 11	829 3,718	2 3	1,366 2,036	1	1,130
Printing and publishing, newspapers and periodicals. Rubber tires, tubes, and rubber goods, not elsewhere specified.	505 7 12	3,176 5,044 2,063	141	320 2 1	691 3 3	78 2	832 25	20 1	649 47	3	223 326	2 1 4	379 124 662	13	402 1,072			1	4,845
Shipbuilding, steel, new vessels and small boats. Stoves and hot-air furnaces.	7 21	15,996 4,240		1 3	2 11			5	176	1 3	84 250	<u>6</u> -	1,020			4	2,783	5	15,910
Structural ironwork, not made in steel works or rolling mills. Tebacco, cigars and cigarettes. Tools, not elsewhere specified Wirework, not elsewhere specified. All other industries.	34 849 89 38 3,657	2,313 5,456 3,261 2,516 85,525	1 116 4 466	5 158 24 12 1,901	16 315 76 34 4,207	14 42 23 6 674	143 429 317 66 7,552	7 14 28 9 270	226 471 992 360 8,934	1 9 7 4 148	77 669 478 325 10,888	4 9 1 4 142	741 1,310 120 782 22,208	1 5 3 41	368 1,754 949 14,250	1 1 2 12	742 508 1,278 7,865	3	9,620
Total for cities.		376,032	576	1,855	4,591	1,051	11,830	520	17, 245 263	293	21,541	265	43, 227	120 1	41,553	= ===	44,535	47	191,510
Adrian Alpena Ann Arbor Battle Crrek Bay City	110	1,870 1,372 1,612 6,680 5,057	13 8 24 18 14	22 11 28 53 36	24 61 126 100	8 16 21 24	02 212 238 276	8 6 4 10 12	179 135 332 415	4 3 9	260 196 666	. 3	857	$\frac{2}{1}$	720 349 1,118 281	i	595 1,347 521		2, 168 1, 202
BENTON HARBOR DETROIT ESCANABA FLINT GRAND RAPIDS	. 2,176 45 107	2,328 167,016 842 24,603 23,548	251 2 14 90		1,895 60 124 580	15 504 12 30 117	172 5,716 98 299 1,393	280 1 6 63	9,210 23 222 2,036	4	9,715 140 283 3,788	123 1 3 27	288 19,590 234 476 4,588	1 4	1,435	36	24,194	. 4	77,590 21,704
HOLLAND IRONWOOD ISHPRING JACKSON KALAMAZOO	. 28 21	2,748 399 107 9,620 7,629	8	- 16 70	35 186	37 4 37 47	428	14 i 17 14	489 45 588 521	8	207 608 840	9 7 16	1,528 1,166 3,035	. 1	1,168	4	2,648	2	2,828 1,130
LANSING. MARQUETTE. MONROE. MUSKEGON.	. 147 . 34 . 41 . 141	12,349 1,415 2,904 9,710	9 2 3	62	151 28	41 7 5	465 86 50	12 4 5	434 96 184	8 1 4	661 69 303	5 6 1	884 854 250	6 1 1	2,111 282 400	2	1.663	2	5,877
Oworso. Pontiao. Port Huron Saginaw	. 40 78 83 208	1,781 7,082 2,231 9,472	6 5 14	17 40 89	48 98 108	17 11	108	6	203 269	4	186 270	3 4	409 680	1 2	318	2			.
SAULT STE, MARIE. TRAVERSE CITY. WYANDOTTE ALL OTHER CITIES 1	. 26	1,248 960 6,214 64,629	3	27 12	70 23	15	149	7	215	6	526	3	471 199	1 2 3		5			4,96 62,19

¹ All other cities comprise Hamtramck and Highland Park.

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

		JMBER O BLISHME		AVERA WAC	GE NUMB HE EARNE	ER OF	VA	LUE OF PRODUC	rs.	VALUE ADI	DED BY MANUE.	ACTURE.
VALUE OF PRODUCT.	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1009
All classes	8, 305	8, 724	9, 159	471, 242	271, 090	231,499	\$3, 466, 188, 483	\$1, 086, 162, 432		\$1, 546, 945, 240		\$316, 497, 147
Less than \$5,000	1,539 2,278 2,361 1,341 327 459	2,976 2,566 1,914 933 175 160	3,372 2,665 1,999 } 1,035 88	916 5,545 20,716 61,765 43,258 339,042	3, 154 10, 556 30, 078 }117, 227 110, 075	3, 906 12, 382 35, 706 123, 279 56, 226	3, 960, 695 24, 871, 038 109, 296, 336 306, 923, 542 232, 661, 055 2, 788, 475, 817	7, 254, 892 26, 702, 525 87, 746, 430 206, 598, 783 123, 370, 371 634, 489, 431	7, 821, 328 27, 383, 330 90, 330, 115 301, 233, 306 258, 341, 090		4,561,300 14,339,662 40,538,674 } 157,753,189 276,168,543	4, 914, 568 14, 559, 126 41, 918, 104 146, 842, 096 108, 263, 253
en e			1				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	18.5 27.4 28.4 16.2 3.9 5.5	34. 1 29. 4 21. 9 10. 7 2. 0 1. 8	36. 8 29. 1 21. 8 11. 3 1. 0	1.2	1. 2 3. 9 11. 1 43. 2 40. 6	1. 7 5. 3 15. 4 53. 3 24. 3	0.1 0.7 3.2 8.9 0.7 80.4	0.7 2.5 8.1 19.0 11.4 58.4	1. 1 4. 0 13. 2 44. 0 37. 7	$\left\{\begin{array}{c} 0.2\\ 0.9\\ 3.3\\ 9.7\\ 7.3\\ 78.6 \end{array}\right.$	0. 9 2. 9 8. 2 32. 0 56. 0	1.6 4.6 13.2 46.4 34.2

-SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

	ES	NUM:	BER OF SHMEN	rs.	AVE	RAGE NU VAGE EAI	MBER O	F	VAL	UE OF PROD	octs.		VALUE AD	DED BY MAN	UPACTI	TRE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914	Per o	ent ution.	1919	1914	Per co	ent ition.	1919	1914	Per e	ent ution.	1919	1914	Per e distrib	
			1919	1914			1919	1914			1919	1914			1919	1914
AUTOMOBILE BODIES AND PARTS	203	140	100. 0	100.0	49,048	24, 736	100. 0	100.0	\$288, 306, 858	\$71, 540, 077	100.0	100.0	\$137,744,416	\$ 33, 146, 818	100.0	100.0
Less than \$5,000	15 35 49 43 11 50	17 19 29 41 14 20	7. 4 17. 2 24. 1 21. 2 5. 4 24. 6	12.1 13.6 20.7 29.3 10.0 14.3	15 82 611 2,820 1,443 44,077	21 85 676 2 7, 313 16, 641	(1) 0.2 1.2 5.7 2.9 89.9	0.1 0.3 2.7 29,6	40, 755 344, 792 2, 416, 890 10, 218, 891 7, 308, 239 267, 977, 291	49, 290 213, 984 1, 774, 733 9, 024, 150 10, 060, 025 50, 417, 886	(1) 0. 1 0. 8 3. 5 2. 5 93. 0	0. 1 0. 3 2. 5 12. 6 14. 1 70. 5	11, 867 229, 586 1, 549, 952 5, 763, 097 3, 325, 317 126, 864, 597	30, 145 131, 642 1, 033, 860 2 9, 291, 442 22, 659, 729	(1) 0.2 1.1 4.2 2.4 92.1	0,1 0 4 3,1 28,0
AUTOMOBILES	68	65	100.0	100.0	126, 937	42,802	100.0	100,0	1,332,076,498	326, 748, 945	100.0	100.0	522, 871, 509	145, 926, 809	100.0	100.0
Less than \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,00°. \$500,000 to \$1,000,000. \$1,000,000 and over.	4 5 16 5 38	8 17 2 1.0 30	5. 9 7. 4 23. 5 7. 4 55. 9	12. 3 26. 2 15. 4	7 41 649 373 125, 867	64 207 2 479 42,052	(1) (1) (0.5 (0.3 (90,2	0, 1 0, 5 1, 1	56, 569 275, 515 4, 232, 927 3, 416, 158 1,324,095,329	154, 115 892, 089 3 3, 693, 087 322, 009, 654	(1) (1) 0.3 0.3 99.4	0.3 1.1 98.5	24,560 145,102 1,775,511 1,055,084 519,870,352	43, 345 328, 509 2 897, 474 144, 657, 481	(1) 0.3 0.2 99.4	0, 2 0, 6 99, 1
Brass, browze, and cor-	Ì	64	100.0	100.0	10, 306	4, 731	100.0	100.0	62, 708, 335	16, 868, 725	100.0	100.0	23, 859, 357	5, 395, 258	100.0	
Less than \$5,000	4 6 25 23 8 14	13 12 19 2 17	5. 0 7. 5 31. 2 28. 8 10. 0 17. 5	20.3 18.8 29.7 26.6	15 240 1,341 1,219 7,487	17 55 415 2 2,510	(1) 0.1 2.3 13.0 11.8 72.7	0. 4 1. 2 8. 8 53. 0	12, 966 77, 330 1, 350, 390 4, 943, 450 5, 659, 642 50, 664, 557		(1) 0.1 2.2 7.9 9.0 80.8	0. 2 0. 7 5. 9 34. 6 58. 5	9, 368 39, 252 672, 376 2, 544, 230 2, 688, 575 17, 905, 556	2 2, 894, 331	(1) 0, 2 2, 8 10, 7 11, 3 75, 0	9.8 53.6
Bread and other bak- ERY PRODUCTS	944	922	100.0	100.0	5,088	4,014	100.0	100.0	44, 923, 454	16,000,068	100.0	100.0	16, 807, 665	6, 691, 971	100.0	
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	108 422 349 2 57	474 118 14 4 5	11. 4 44. 7 37. 0 6. 0	33, 7 51, 4 12, 8 1, 5 0, 5	20 500 1,466 21,522 1,580	209 1,164 1,207 31,434	0. 4 9. 8 28. 8 29. 9	5. 2 29. 0 30. 1 35. 7	316, 168 4, 993, 088 13, 728, 983 2 12, 516, 291 13, 368, 924	4, 632, 098 4, 768, 750 2, 503, 515 4 3, 146, 548	30.6 27.9	5, 9 28, 9 29, 8 15, 6 19, 7	131, 011 1, 784, 664 4, 715, 292 24, 691, 725 5, 484, 973	1, 974, 465 1, 880, 774 8 2, 402, 266	10. 6 28. 1 27. 9	29.5 L 28.1 35.0
BUTTER	1	270	100.0	100.0	984	769	100.0	100.0	33, 385, 420	13,479,297	100.0	100.0	3,804,528			
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	5 23 126 71 6	171 8 20	10. 0 54. 5 30. 7 2. 6 2. 2	4.8 24.4 63.3 7.4	5 14 279 419 113 159	425 a 247	1. 4 28. 4 42. 6 11. 5 16. 2	1, 0 11, 6 55, 3 32, 1	5 263, 333 7, 257, 408 13, 936, 770 4, 345, 919 7, 581, 988	39,870 920,321 3 7,566,258 3 4,952,848	0.8	0.3 6.8 56.1 36.7	1,516,773 510,426	710,900	30. 30. 13. 24.	1 62 9 39 4 6
CHEMICALS		36	100.0	100, 0	5,712	4,509	100.0	100, 0	37,850,83	13,891,41	100.0	100, 0	22, 106, 75		==	
Loss than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$1,000,000 and over.	13	3	8.3 16.7 25.0	8.3	72 2 318	14 41 3 325	1, 3 5, 6	0.5 0.3 0.9 7.2 91.1	406, 53 2 3, 477, 43	4 43, 25 4 181, 76 8 2 1, 972, 98	$\begin{bmatrix} 1,1\\3 \end{bmatrix}$	0.3 1.3 14.2	0, 29 223, 03 2 1, 833, 45	7 17,03 8 80,69 4 2871,31	2 8	0 1 3 1L
Electrical machinery apparatus, and supplies	, 8. 54	35	100.0	100, 0	4, 190	1,144	100, 0	100. 0	25, 025, 52	8 3,415,50	0 100.0	100.0	15, 990, 47	2 1,675,95		
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$300,000. \$500,000 to \$1,000,000.	1	9 9	16. 7 27. 8 22. 2 13. 0	25. 7 22, 9 31, 4	26 209 598 86	161 8 935	0.6 5.0 14.2 20.6	14, 1 81, 7	124,90 830,20	7 95,09	0 0.5	85. 2	56, 95 416, 26 2 1, 289, 14 3, 139, 65	7 44,55 8 203,02 9 81,418,92	2 0. 7 2. 1 8. 19.	6 14 6 3

^{*}Includes the group "\$500,000 to \$1,000,000."

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

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

	E		IBER O			RAGE N			VAI	UE OF PROD	ucts.		VALUE AI	DED BY MA	NUFACT	URE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914	Per distril	cent	1919	1914		cent oution,	1919	1914		cent oution.	1919	1914		cent oution.
			1919	1914			1919	1914		1012	1919	1914	1019	1014	1919	1914
Engines, Steam, Gas, and Water	35	48	100.0	100, 0	14,258	4, 427	100.0	100.0	\$101,989,440	\$12, 369, 172	100.0	100.0	\$44, 938, 747	\$8,407,510	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	1 4 5 12 6 8	5 10 11 3 19 3	11. 4 14. 3 34. 3 17. 1 22. 9	10. 4 20. 8 22. 9 39. 6	1 9 87 702 974 12,426	3 05 326 31,494 2,539	0.1 0.6 5.3 6.8 87.2	0. 1 1. 5 7. 4 33. 7	1 27, 068 217, 285 3, 063, 968 4, 059, 521 94, 021, 598	8,538 113,416 642,875 3 4,319,995 7,284,348	(2) 0, 2 3, 6 4, 0 92, 2	0. 1 0. 9 5. 2 34. 9	1 19,008 125,322 1,515,252 2,516,726 40,762,439	4,780 66,551 316,962 32,157,357 3,861,890	(2) 0, 3 8, 4 5, 6 90, 7	0. 1 1. 0 4. 9 33. 7
FLOUR-MILL AND GRIST- MILL PRODUCTS	345	427	100, 0	100, 0	1,128	1,370	100, 0	100.0	41, 144, 434	27, 381, 474	100.0	100.0	5, 959, 339	4, 082, 303	100. 0	100, 0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$600,000 \$500,000 to \$1,000,000 \$1,000,000 and over	14 75 185 59 6 6	45 147 188 39 3 5	4.1 21.7 53.6 17.1 1.7	10. 5 34. 4 44. 0 9. 1 0. 7 1. 2	2 40 278 322 155 331	27 173 457 3 397	0. 2 3. 6 24. 6 28. 5 13. 7 29. 3	2, 0 12, 6 33, 4 29, 0	47, 243 900, 117 8, 508, 510 12, 191, 285 4, 047, 740 18, 449, 539	134, 169 1, 714, 408 7, 787, 576 7, 541, 907 1, 730, 062 8, 473, 352	0.1 2.0 19.3 27.6 9.2 41.8	0.5 6.3 28.4 27.5 6.3 30.9	8, 829 173, 478 1, 340, 759 1, 060, 762 529, 492 2, 240, 019	30, 535 344, 991 1, 294, 361 21, 433, 149 979, 267	0.1 2,9 22.6 27.9 8.9 37.6	0. 7 8. 4 31. 7 35. 1 24. 0
FOUNDRY AND MACHINE- SHOP PRODUCTS 4	580	502	100, 0	100.0	42,745	17,608	100.0	=====		\$39, 428, 783	100.0	100, 0	\$109,796,788	\$23,630,250	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000 \$100,000 to \$601,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	f	119 139 153 73 14 4	9. 5 22. 1 25. 7 27. 4 0. 9 8. 4	23. 7 27. 7 30. 5 14. 5 2. 8 0. 8	29 425 2,229 9,719 6,320 24,023	151 747 3,281 311,792 1,637	0.1 1.0 5.2 22.7 14.8 56.2	0.9 4.2 18.6 67.0	145, 151 1, 450, 860 7, 932, 791 36, 751, 189 27, 333, 202 109, 122, 123	350, 179 1, 418, 515 6, 993, 489 15, 784, 096 10, 021, 704 4, 860, 800	0.1 0.8 4.3 20.1 15.0 59.7	0. 9 3. 6 17. 7 40. 0 25. 4 12. 3	105, 189 994, 652 5, 142, 485 23, 026, 021 17, 193, 471 63, 334, 970	258, 378 930, 460 4, 461, 659 *14, 793, 677 3, 186, 076	0.1 0.9 4.7 21.0 15.7 57.7	1.1 3.9 18.9 62.6
FURNITURE Less than \$5,000		192 25 31	5.8	100.0	18,496	14,708	0.1	100.0	69,497,237 22,740	80, 184, 542 61, 786	(2)	0.2	41,187,025 14,963	39,320	(2)	0, 2
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$600,000 \$500,000 to \$1,000,000 \$1,000,000 and over	15 35 72 20 19	55 68 613	8. 8 20. 5 42. 1 11. 7 11. 1	10.1 28.6 35.4 6.8	67 604 5,219 3,839 8,755	158 1,809 12,697	0. 4 3. 3 28. 2 20. 8 47. 3	1.1 12.3 86.3		311, 825 3,063, 818 15,965, 483 10,781, 630	0. 2 2. 8 28. 0 20. 9 48. 1	1.0 10,2 52,9 35,7	96,957 1,057,503 11,371,767 8,993,953 19,651,882	39,320 194,383 1,735,214 515,696,188	(2) 0.2 2.6 27.6 21.8 47.7	0,2 1,1 9.8 88.9
Lumber and timber prod- ucts	380	477	100.0	100.0	14,923	21,488	100.0	100.0	46,043,855	33, 873, 307	100.0	100.0	30,350,299	19,764,708	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	102 97 88 65 19	174 119 98 73 8 13	20, 8 25, 5 23, 2 17, 1 5, 0 2, 4	36. 5 24. 9 20. 5 15. 3 2. 7	110 467 1,392 4,937 4,619 3,398	333 880 3,402 •16,878	0.7 3.1 9.3 33.1 81.0 22.8	1. 5 4. 1 15. 8 78. 5	223,849 1,057,950 3,874,759 14,799,729 13,958,108 12,129,460	370,639 1,295,673 4,587,400 16,898,555 10,771,100	0.5 2.3 8.4 32.1 30.3 26.3	1.1 3.8 13.4 40.9 31.8	165,075 727,410 2,381,654 9,463,705 9,601,437 8,011,018	266,740 814,213 2,963,598 15,720,157	0.5 2.4 7.8 81.2 31.0 26.4	1.3 4.1 15.0 79.5
Lumber, Planing - Mill Products, not includ- ing Planing muls con- nected with saymills.	192	217	100, 0	100.0	5,256	4,944	100.0	100.0	37,869,230	19,767,965	100.0	100.0	13,859,822	7,559,766	100.0	100,0
Less than \$5,000 . \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 to \$500,000 . \$500,000 to \$500,000 . \$41,000,000 and over .	21 36 59 57 11 8	49 41 75 43 6 9	10. 9 18. 7 30. 7 29. 7 5. 7 4. 2	22.6 18.9 34.6 19.8 4.1	21 95 540 1,961 1,094 1,539	65 203 1,295 53,381	0. 4 1. 8 10. 4 37. 3 20. 8 29. 3	1. 3 4. 1 26. 2 68. 4	63,227 383,236 2,969,420 13,272,037 8,042,334 13,138,976	149,258 486,004 3,558,126 8,360,360 67,214,217	0. 2 1. 0 7. 8 35. 0 21. 2 34. 7	0. 8 2. 5 18. 0 42. 3 36. 5	38,040 185,835 1,362,472 4,901,519 3,113,418 4,258,538	72,200 270,298 1,540,139 5,677,129	0.3 1.3 9.8 35.4 22.5 30.7	1, 0 3, 6 20, 4 75, 1
PATENT MEDICINES AND COMPOUNDS	70	102	100.0	100.0	1,302	1,029	100.0	100.0	0,948,329	3,871,014	100.0	100.0	5,735,523	2,395,160	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over	21	54 27 16 5 5	38, 6 20, 0 30, 0 5, 7 5, 7	52. 9 26. 5 15. 7 4. 0	9 13 148 38 1,184	27 75 96 • 831	0.6 0.9 10.6 2.7 85.1	2. 6 7. 3 9. 3 80. 8	63,831 152,531 904,172 854,843 7,972,952	100, 811 308, 397 875, 678 5 2, 580, 128	0.6 1.5 9.1 8.6 80.1	2.8 8.0 22.6 66.7	37, 520 98, 036 576, 214 332, 454 4,691, 299	73,969 222,212 612,278 51,486,701	0.7 1.7 10.0 5.8 81.8	3.1 9.3 25.6 62.1
PRINTING AND PUBLISHING, BOOK AND JOB	436	404	100.0	100.0	3,717	3,860	100.0	100.0	17,675,925	9,380,560	100.0	100, 0	11,204,129	6,296,771	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 and over		174 144 63 23	27.3 35.8 27.8 9.2	43. 1 35. 6 15. 6 5. 7	51 401 1,288 1,977	177 640 1,270 1,773	1. 4 10. 8 34. 7 53. 2	4. 6 16. 6 32. 9 45. 9	302,163 1,676,145 5,524,410 10,173,207	418,638 1,426,943 2,837,439 4,697,540	1. 7 9. 5 31. 3 57. 6	4. 5 15. 2 30. 2 50. 1	200, 255 1,091, 259 3,663,087 6,249,528	304,710 975,630 1,926,072 3,090,359	1.8 9.7 82.7 55.8	4.8 15.5 30.6 49.1
PRINTING AND PUBLISHING, NEWSPAPERS AND PE- RIGDICALS	565	660	100, 0	100.0	3,176	3,270	100.0	100.0	24,930,421	12,290,227	100.0	100.0	17,234,276	8,946,668	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$000,000 and over.	236 216 80	372 210 58 16 4	41, 8 38, 2 14, 2 4, 8 1, 1	56. 4 31. 8 8. 8 2. 4 0. 0	207 541 714 821 893	470 849 697 61,245	6, 5 17, 0 22, 5 25, 9 28, 1	14.6 26.0 21.3 38.1	657,309 2,072,024 3,171,906 6,042,325 12,986,857	965,112 1,849,666 2,458,886 2,542,263 4,474,300	2.6 8.3 12.7 24.2 52.1	7.9 15.0 20.0 20.7 36.4	500,674 1,565,983 2,422,047 4,594,172 8,151,400	781,277 1,513,307 1,987,718 54,664,366	2. 9 9. 1 14. 1 26. 7 47. 3	8.7 16.9 22.2 52.1
TOBACCO, CIGARS AND CIGARETTES	349	609	100.0	100.0	5,456	7,295	100.0	100.0	18, 118, 556	12,121,862	100.0	100.0	9,728,277	6,658,818	100. 0	100.0
Less than \$5,000 \$0,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$20,000 to \$1,000,000 \$1,000,000 and over	181 93 45 21 5 4	404 152 37 10 3 3	51, 9 20, 6 12, 9 6, 0 1, 4 1, 1	66. 3 25. 0 6. 1 1. 6 0. 5 0. 5	73 298 663 1,643 1,133 1,046	319 835 780 2 2,684 2,727	1, 3 5, 5 12, 2 30, 1 20, 8 30, 2	4.4 11.4 10.7 36.1	412,561 916,540 1,753,402 5,741,384 3,934,114 5,360,555	791,826 1,398,653 1,329,779 2,444,049 2,016,939 4,140,618	2.3 5.1 9.7 31.7 21.7 29.6	6. 5 11. 5 11. 0 20. 2 16. 6 34. 2	221, 448 522, 934 936, 291 3, 269, 855 2, 071, 608 2, 706, 141	482, 252 850, 840 745, 390 8 2, 372, 777 2, 207, 559	2, 3 5, 4 9, 6 33, 6 21, 3 27, 8	7. 2 12. 8 11. 2 85. 6

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

² Less than one-tenth of 1 per cent.

³ Includes the group "\$500,000 to \$1,000,000."

⁴ Includes "iron and steel, tempering and welding" and "machine tools."
5 Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."
6 Includes the group "\$1,000.000 and over."

Table 13.—Size of establishments, by value of products, for cities of 10,000 inhabitants or more: 1919.

	of onts.	WA EARI	GE NERS.	VALUE (VALUE ADDI MANUFACT			r of nents.	WAC EARN		'VALUE (PS.	MANUFACTU	D BY
CITY AND VALUE OF PRODUCT.	Number of ostablishments.	Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.	CITY AND VALUE OF PRODUCT.	Number of establishments	Aver- age num- ber,	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total
ADRIAN	62	1,870	100. 0	\$14,549,031	100.0	34,396,103	100.0	Ishpeming	21	107	100.0	\$1,007,432	100.0		100.
ess than \$5,000 5,000 to \$20,000 20,000 to \$100,000 00,000 to \$500,000 1,000,000 and over	118 18 10 4	6 25 158 549 485 647	0. 3 1. 3 8. 4 29. 4 25. 9 34. 6	32,793 96,759 818,690 1,770,132 2,417,927 9,412,730	0. 2 0. 7 5. 6 12. 2 16. 6 64. 7	20,892 63,417 427,696 914,662 1,069,864 1,899,572	0. 5 1. 4 9. 7 20. 8 24. 3 43. 2	Less than \$5,000\$5,000 to \$20,000\$20,000 to \$100,000\$100,000 to \$500,000		9, 620	3. 7 15. 9 28. 0 52. 3	16,746 62,428 192,434 735,824 49,517,712	1.7 6.2 19.1 73.0	6, 772 32, 523 93, 549 391, 890 19, 520, 000	1, 6 17, 74
ALPENA	1	1,372	100.0	9,356,190	100, 0	4,468,715	100.0	Less than \$5,000 \$5,000 to \$20,000	19 37	15 101	0, 2 1, 0	57, 579 421, 232 2, 058, 498 7, 214, 940	0, 1 0, 9	36, 317 242, 875	() ()
essthan \$5,000,000 to \$20,000 0,000 to \$100,000 0,000 to \$500,000 ,000,000 and over	14 6	5 7 182 330 848	0. 4 0. 5 13. 3 24. 1 61. 8	27,776 53,779 603,182 1,016,937 7,654,516	0.3 0.6 6.4 10.9 81.8	15,471 21,352 290,612 594,635 3,546,645	0. 3 0. 5 6. 5 13. 3 79. 4	\$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over KALAMAZOO	48 35 6 11 185	1,334 869 6,890 7,629	4.3 13.9 9.0 71.6	7, 214, 940 4, 994, 618 34, 770, 845 46, 254, 917	4, 2 14, 6 10, 1 70, 2	242, 875 1, 072, 129 3, 807, 648 1, 781, 085 12, 588, 946 22, 018, 574	1 6
ANN ARBOR	-			9,793,696	100.0	4,417,049	1.0	Less than \$5,000 \$5,000 to \$20,000	28 46	14 145	0.2 1.9	75, 575 534, 307	0. 2 1. 2 5. 2	48, 936 315, 182	
ess than \$5,000 5,000 to \$20,000 20,000 to \$100,000 100,000 and over BATTLE CREEK	18 21 13	191 1,371	2. 5 11. 8 85. 0	219,797 899,399 8,608,218 56,139,953	2.2 9.2 87.9	127,330 541,407 3,701,897 28,151,062	2. 9 12. 3 83. 8 100. 0	\$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	13	1,720 1,877 3,424 12,349	5. 9 22. 5 24. 6 44. 9	2,396,200 7,585,457 9,133,862 26,529,426 104,722,115	16. 4 19. 7 57. 4	1, 158, 303 4, 054, 231 4, 948, 480 11, 493, 442 39, 740, 775	10
ess than \$5,000 5,000 to \$20,000 20,000 to \$100,000 100,000 to \$500,000 500,000 to \$1,000,000. 1,000,000 and over	16 37 38	5 72 309 372 430	(1) 1.1 4.6 5.6 6.4	36,975 452,376 1,628,624 2,471,275 2,479,117 49,071,586	(1) 0.8 2.9 4.4 4.4 87.4	846,715 1,313,606 1,344,695	(1) 0. 9 3. 0 4. 7 4. 8 86. 6	Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	20 36 41 32	13 100 357 1,324 635 9,920	0. 1 0. 8 2. 9 10. 7 5. 1 80. 3	59, 751 426, 570 1, 683, 454 8, 468, 717 3, 340, 004 90, 743, 619	(1) 0.4 1.6 8.1 3.2 86.7	41, 220 255, 247 831, 228 3, 307, 403 1, 532, 487 33, 773, 190	Ī
BAY CITY	1	11		28,214,525	100.0	12,952,929	100, 0	MARQUETTE		1,415	100.0	7, 210, 375	100.0	2, 545, 079	1
ess than \$5,000 5,000 to \$20,000 20,000 to \$100,000 100,000 to \$500,000. 500,000 to \$1,000,000. 1,000,000 and over	25 26 29 5	247 1,587 548	4.9 31.4 10.8	3,495,313	5.2 24.7	522,797 3,363,971	0. 2 1. 0 4. 0 26. 0 8. 9 59. 9	Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	11 7 4	26 122 532 733	0. 1 1. 8 8. 6 37. 6 51. 8	10, 494 97, 367 494, 310 1, 606, 065 5, 002, 139	0, 1 1, 4 6, 9 22, 3 69, 4	5,775 54,497 254,881 760,870 1,469,056	
BENTON HARBOR.						-	100.0	Monroe Less than \$5,000	. 5	2,904	0.1	9, 521	(¹) 0, 8	7, 691, 204 	╬
ess than \$5,000 5,000 to \$20,000 20,000 to \$100,000 100,000 to \$500,000 500,000 to \$1,000,000	13 15 22 9	30 269 499 37	1.4 9 11.6 2 21.1 1 15.9	185,040 1,117,631 2,231,414 1,783,541	0.8 1.6 9.9 19.7 15.7 52.8	97, 466 621, 434 1, 350, 382 832, 200	20.1	\$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	110	54 396 509 1,913	1. 0 1. 9 13. 6 17. 5 65. 9	126, 878 382, 368 2, 109, 624 2, 205, 272 11, 218, 668 55, 969, 347	2, 4 13, 1 13, 7 69, 9	70, 041 159, 839 872, 659 964, 693 5, 617, 829 30, 293, 618	
DETROIT	2,17	= ===				_	-	Li.		10	0.1	11		41,588 180,356	=
less than \$5,000 5,000 to \$20,000 20,000 to \$100,000 100,000 to \$500,000 500,000 to \$1,000,000 1,000,000 and over.	533 696 447	2 1,09 5 6,57 7 19,50	7 0.7 1 3.9 0 11.7	33,038,658 101,906,55	2 8. c 1 5. t	19,806,155 55,412,137 34,782,264	0.6	\$100,000 to \$500,000 \$500,000 to \$1,000,000. \$1,000,000 and over	2	315 1,224 857 7,235	3. 2 12. 6 8. 8 74. 5	78, 839 334, 290 1, 563, 760 4, 553, 779 6, 541, 053 42, 897, 626 9, 948, 736	1	757, 567 2, 638, 514 2, 379, 301 24, 296, 292	2
ESCANABA		5 84 5			_	= ====		Less than \$5,000		5		10, 899 153, 170		6,836	3
Less than \$5,000 5,000 to \$20,000 20,000 to \$100,000 100,000 and over	11	9 4 7 13 4 66	1 78.	2 223, 99 694, 30 5 2,084, 27	4.7	99,765 321,66	2 5.3 4 17.2 3 76.9	\$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over		94 372 5 1,280	5, 3 20, 9 71, 9	519, 315 1, 820, 929 7, 444, 423	18.3 74.8	260, 487 1, 032, 141 3, 372, 645	7
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000. \$500,000 and over	1 2 4 1	2 3 3 29 5 47	4 (1) 4 0. 11 1.	26,24 2 274,79 2 2,078,87 9 3,629,71		15,85 1 147,40 8 995,18 3 1,367,01	1 (1) 5 0.1 6 1.0 2 1.3	Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000	2	5 5 65 3 174	0.8 2.3 4.1	11, 522 285, 895 1, 118, 439 3, 164, 551	(1) 0.3 1.1 3.0	1,007,356	1
GRAND RAPIDS	61	.		0 109,135,05	5 100.	57,973,29	4 100.0	= { }		3 2,231	100.0			= = ==================================	-
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	16 16 11	9 41 3 1,79	01 7. 24 26. 07 14.	7 1,851,27 6 7,873,10 4 28,352,56 0 17,100,46	5 0. 4 1. 5 7. 9 26. 9 15. 3 49.	$0 \mid 14,859,52 \\ 7 \mid 9,777,45$	6 1. 4 7. 6 25. 4 16.	7 \$5,000 to \$20,000 5 \$20,000 to \$100,000 6 \$100,000 to \$500,000 9 \$500,000 and over	2	0 50 6 246 3 718 5 1,20	2. 2 3 11. 0 3 32. 2 5 54, 1	238, 500 1, 196, 92 3, 198, 34 4, 860, 530	2, 5 1 12, 5 1 33, 5 2 50, 9	124, 959 655, 089 1, 500, 410 2, 304, 389	4 9 6 9
HOLLAND		2, 7			= 	_		0 Tess than \$5 000	==	4 2	2 0, 2	41		51, 335	2
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,00 \$1,000,000 and over.	0	8 1	74 28.	7 959, 46 6 3, 089, 68 2 3, 058, 78	1 1.	4 387, 86 4 1, 370, 68 3 1, 638, 61	1 1, 6 5, 5 18, 5 21,	2 \$100,000 to \$500,000. 3 \$500,000 to \$1,000,000 9 \$1,000,000 and over.		2 16 58 2 2,12 3 1,81 9 4,75	2 6. 1 7 22. 5 6 19. 2 9 50. 2	2,542,71 11,837,04 8,649,75 10,446,49		1,264,39 5,222,91 4,773,03 10,187,24	18
IRONWOOD		_ _	99 100.	=				0 Less than \$5,000	-	=	4 0. 8	7,39		4,74 7 45,90	15 36
Less than \$5,000 \$5,000 to \$20,000 \$20,000 and over		7 [1 [0] 3	3 0. 83 8. 63 91.	8 21, 21 3 106, 00 0 1, 253, 9	HG 7.	5 11, 21 7 65, 30 8 750, 62	10 11 7. 28 90.	9 \$20,000 to \$100,000		8 5	6 4.	407, 04 4 10, 209, 99	7 3. 0 95.	8 224,98	w.

Less than one-tenth of I per cent

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

	r of tents.	WA	GE VERS.	VALUE PRODUC		VALUE ADD MANUFACI			ır of 1ents.	WA EAR)	GE VERS.	VALUE PRODUC		VALUE ADD MANUFACT	
CITY AND VALUE OF PRODUCT.	Number establishme	Average num- ber.	Per cent of total	Amount.	Per cent of total.	Amount.	Per cent of total.	CITY AND VALUE OF PRODUCT.	Number establishme	Average num- ber.	Per cent of total.	.Amount.	Per cent of total.	Amount.	Per cent of total.
TRAVERSE CITY	56	960	100.0	\$4,099,960	:100, 0	\$1,817,979	100.0	WYANDOTTE-Contd.				4.0			
Less than \$5,000	5 24	5 83 154	0. 5 8, 6 16. 0	14, 832 252, 036 595, 975	0. 4 6. 1 14. 5	7, 542 145, 534 279, 459	0. 4 8. 0 15. 4	\$500,000 to \$1,000,000 \$1,000,000 and over	3 4	660 5,427	10. 6 87. 3	\$2,378,441 30,252,126	7.1 90.6	\$1,327,808 18,233,943	6. 7 91. 4
\$20,000 to \$100,000	13 14	718	74.8	3, 237, 117	79. 0	1, 385, 444	76, 2	ALL OTHER CITIES 1.	50	64,629	100, 0	569, 208, 377	100.0	260, 138, 249	100.0
WYANDOTTE	26	6,214	100.0	33, 382, 791	100, 0	19, 942, 807	100.0	Less than \$5,000 \$5,000 to \$20,000	10	9	(2)	9,643 93,815	(2) (2) (0, 1	5,574 41,236	(2) (2) (0, 1
Less than \$20,000\$20,000 to \$100,000	12 4 3	16 14 97	0.3 0.2 1.6	121, 150 140, 373 490, 701	0.4 0.4 1.5	55, 867 61, 552 263, 637	0.3 0.3 1.3	\$20,000 to \$100,000 \$100,000 and over	20 16	93 64, 527	0.1	93, 815 838, 916 568, 266, 003	0,1 99.9	343,724 259,747,715	0, 1 99, 9

¹ All other cities comprise Hamtramck and Highland Park.

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

	4,		MBER		AVE	RAGE :	NUMBER	or w	AGE EA	RNER	.		, y	ALUE OF PRO	DUCTS.			
INDUSTRY AND CITY.	Cen- sus	3	TABLIE MENTS NED B	1			tablishm vned by-		Per c	ent of	total.			lishments own	ned by-	Per ce	nt of t	otal.
	year.		Cor- pora- tions.	All oth- ers.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ors.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.
All industries	1919 1914 1909	4, 282	3, 249 2, 900 2, 638	1, 484 1, 542 1, 954	471, 242 271, 090 231, 490	14, 730 16, 674 20, 564	444, 516 241, 829 193, 139	11, 996 12, 587 17, 796	3.1 6.2 8.9	94.3 89.2 83.4	2.5 4.6 7.7	\$3,466,188,483 1,086,162,432 685,109,169	\$92, 181, 144 50, 886, 390 57, 652, 930	\$3,299,255,502 986,655,727 571,102,107	\$74, 751, 837 48, 620, 315 56, 354, 132	2. 7 4. 7 8. 4	95. 2 90. 8 83. 4	2, 1 4, 8
Agricultural implements	1919 1914	6	16 18	1 4	2, 708 2, 143	1 95 96	2, 613 2, 027	20	3. 5 4. 5	96. 5 94. 6	0.0	11,090 669 7,731,217	1 274, 717 273, 131	10, 815, 952 7, 390, 617	67, 469	2. 5 3. 5	97. 5 95. 6	0. 8
Automobile bodies and parts.	1919 1914	46 28	137 106	20 6	49, 048 24, 736	653 130	48, 284 24, 497	111 109	1.3 0.5	98. 4 99. 0	0.2 0.4	288, 306, 858 71, 540, 077	3, 802, 539 395, 118	284, 010, 487 70, 816, 683	493, 832 328, 276	1.3 0.6	98. 5 99. 0	0. 2 0. 8
Boxes, paper and other, not elsewhere specified.	1919 1914	1 4	17 13	4 6	2,336 1,461	40	2,165 1,088	² 171 333	2, 7	92.7 74.5	7.3 22.8	10,934,722 3,747,876	48, 545	10, 483, 458 2, 782, 318	² 451,264 917,013	1.3	$95.9 \\ 74, 2$	4, 1 24, 5
Brass, bronze, and copper products.	1919 1914	16 14	55 40	9 10	10, 306 4, 731	94 187	10, 129 4, 492	83 52	0.9 4.0	98.3 94.9	0.8 1.1	62, 708, 335 16, 868, 725	596, 193 607, 450	61, 421, 195 15, 928, 399	690, 947 332, 870	1.0 3.6	97. 9 94. 4	1. 1 2. (
Bread and other bakery products.	1919 1914	713 755	58 29	173 138	5, 088 4, 014	1,714 2,041	2,724 1,492	650 481	33.7 50.8	53.5 37.2	12.8 12.0	44, 923, 454 16, 000, 068	16 391, 071 8, 017, 664	22,002,561 5,936,037	6, 529, 822 2, 046, 367	36.5 50.1	49.0 37.1	14. 8 12. 8
Butter	1919 1914	67 80	71 96	93 94	984 769	171 147	548 408	265 214	17. 4 19. 1	55.7 53.1	26, 9 27, 8	33, 385, 420 13, 479, 297	6, 308, 839 2, 453, 497	18,096,976 7,414,866	8, 97 9, 605 8, 610, 934	18, 9 18, 2	54. 2 55. 0	26. 9 26. 8
Canning and preserving, fruits and vegetables.	1919 1914	13 14	30 26	9 9	2, 109 1, 687	242 216	1,649 1,361	218 110	11.5 12.8	78. 2 80. 7	10, 3 6, 5	11, 172, 169 4, 421, 946	1, 314, 935 464, 821	8, 537, 037 3, 767, 687	1,320,197 189,438	11.8 10.5	76. 4 85. 2	11. 8 4. 3
Chemicals	1919 1914	9 11	25 21	2 4	5, 712 4, 509	$\begin{array}{c} 4 \\ 12 \end{array}$	5, 708 4, 493	4	0.1 0.3	99, 9 99, 6	(a)	37, 850, 834 13, 891, 415	1 25, 170 26, 300	37, 825, 664 13, 858, 241	6,874	0.1 0.2	99. 9 99. 8	(3)
Confectionery and ice cream.	1919 1914	90 73	30 22	64 29	1,746 1,187	344 341	905 661	497 185	19.7 28.7	51.8 55.7	28.5 15.6	12,626,501 4,842,801	2, 493, 155 1, 272, 964	7,264,649 2,773,017	2,868,697 796,820	19, 7 26, 3	57. 5 57. 3	22. 16.
Druggists' preparations	1919 1914	. 7 4	9 10	···i	3,219 2,175	38 1 47	3, 181 2, 128		1.2 2.2	98.8 97.8		23,903,856 11,738,662	321,744 1 102,203	23,582,112 11,636,459		1.3 0.9	98. 7 99. 1	
Electrical machinery, apparatus, and supplies.	1919 1914	9.	40 26	5 2	4, 190. 1, 144	84 1 50	4, 092 1, 094	14	2.0 4.4	97. 7 95. 6	0.3	25, 025, 528 3, 415, 500	275, 840 1 99, 993	24, 660, 021 3, 315, 507	89, 667	1. 1 2. 9	98. 5 97. 1	0.
Engines, steam, gas, and water.	1919 1914	2 10	32 35	1 3	14, 258 4, 427	1.7 35	14, 251 4, 261	131	(3) 0.8	99. 9 96. 3	3.0	101,989,440 12,369,172	1 30,860 74,470	101, 958, 580 12, 074, 084	220,618	(8) 0.6	99. 9 97. 6	·i.
Flour-mill and gristmill products.	1919 1914	146 203	85 83	114 141	1, 128 1, 370	203 332	746 731	179 307	18.0 24.2	66.1 58.4	15. 9 22. 4	44, 144, 434 27, 381, 474	6, 572, 213 5, 609, 028	30, 150, 339 16, 384, 336	7, 421, 882 5, 388, 110	14.9 20.5	68. 3 59. 8	16. 19.
Food preparations, not elsewhere specified.	1919 1914	8 14	25 32	4 10	2, 488 1, 688	8 39	2, 457 1, 023	18 621	0.3 2.3	99. 0 60. 8	0. 7 36. 9	35, 701, 760 16, 005, 282	166, 897 137, 801	35, 323, 175 7, 824, 862	211,688 8,042,619	0. 5 0. 9	98. 9 48. 9	0. 50.
Foundry and machine- shop products.4	1919 1914	145 148	369 271	66 83	42,745 17,608	1,393 1,039	40, 268 15, 947	1,086 622	3. 2 5. 9	94. 2 90. 6	2, 5 3, 5	182, 735, 316 39, 428, 783	4,877,479 2,161,547	172, 726, 812 35, 960, 167	5, 131, 025 1, 307, 069	2. 7 5. 5	94. 5 91. 2	2,
Furniture	1919 1914	26 34	128 138	17 20	18, 496 14, 706	374 460	17, 907 13, 950	215 296	2.0 3.1	96. 8 94. 9	1. 2 2. 0	69, 497, 237 30, 184, 542	1,401,032 879,875	67, 168, 769 28, 816, 498	927, 436 488, 169	2.0 2.9	96.6 95.5	1.
Knit goods	1919 1914	6 3	24 26	1 3	3,170 2,711	1 66 68	3,104 2,598	45	2.1 2.5	97. 9 95. 8	1.7	12,039,377 5,228,035	1 183,968 67,766	11,855,409 4,960,091	200,178	1.5 1.3	98.5 94.9	3,
Lumber and timber prod- ucts.	1919 1914	192 238	96 129	92 110	14, 923 21, 488	2,008 2,051	10, 072 16, 985		13. 5 9. 5	67. 5 79. 0	19, 1 11, 4	46, 043, 855 33, 873, 367	7, 939, 838 3, 074, 477	30, 685, 694 26, 710, 809	7, 418, 323 4, 088, 081	17. 2 9. 1	66.6 78.9	16. 12,
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919 1914	40 67	110 103	42 47	5, 256 4, 944	312 940	4, 315 3, 412	629	5. 9 19. 0	82, 1 69. 0	12, 0 12, 0	37, 869, 230 19, 767, 965	2, 123, 293 2, 890, 954	32, 059, 340 14, 757, 228		5.6 14.6	84.7 74.7	9,
caper and wood pulp	1919 1914	3 2	36 34	1	9,561 6,051	18 1 20	9, 543 6, 031		0.2	99, 8 99, 7		66, 299, 513 22, 049, 990	74,092 1 45,336	66, 225, 421 22, 004, 654		0, 1 0, 2	99. 9 99. 8	
Printing and publishing; book and job.	1919 1914	234 229	118 106	81	3,717	657	2,732 2,820	328 325	- 1 A 1 C	73. 5	8, 8 8, 4	17, 675, 925 9, 380, 560	2,799,018 1,722,291	12, 778, 867 6, 881, 312	2,098,040	15.8 18.4	72.3	11.

¹ Includes the group "All others." ² Includes the group "Individuals."

² Less than one-tenth of 1 per cent.

<sup>Less than one-tenth of 1 per cent.
Includes "Iron and steel, tempering and welding" and "machine tools."</sup>

^{92264°—22——3}

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

ÿ			BER ABLIS		AVE	RAGE 1	UMBER	OF WA	GE EA	RNERS			VA	LUE OF PRO	OUCTS.			-
INDUSTRY AND CITY.	Cen-	. M	ED B				ablishm med by-		Per ce	ent of t	otal.		Of establi	ishments owr	ned by—	Per ce	nt of t	otal.
	year.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Indi- vid- uals.	Corpora- tions.	All oth- ers.		Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	V10-		All oth- ers.
Printing and publishing, newspapers and period-	1919 1914	303 387	149 165	113 108	3,176 3,270	558 860	2, 251 2, 090	367 320	17. 6 26. 3	70. 9 63. 9	11.6 9.8	\$24,930,421 12,290,227	\$2,009,647 1,777,613	\$21,313,661 9,605,334	\$1,607,113 907,280	8, 1 14. 5	85. 5 78. 2	6.
icals. Blaughtering and meat packing.	1919 1914	11 9	10 7	3 1	1,712 1,112	47 1 23	1,653 1,089	12	2.7 2.1	96. 6 97. 9	0.7	59, 584, 740 20, 665, 737	1,729,966 1 572,504	57, 427, 123 20, 093, 233	427, 651	2.9 2.8	96.4 97.2	0.
structural ironwork, not made in steel works or	1919 1914	8	20 19	5	2,313 1,371	78 91	2,189 1,252	46 28	3. 4 6. 6	94.6 91.3	2.0 2.0	17, 124, 120 4, 918, 366	476, 946 296, 708	16, 403, 714 4, 544, 832	243, 460 76, 826	2.8 6.0	95, 8 92, 4	1
rolling mills. Pobacco, eigars and eig- arettes.	1919 1914	282 515	35 26	32 68	5, 456 7, 295	1,114 1,504	3, 933 4, 555	409 1, 236	20. 4 20. 6	72. 1 62. 5	7.5 16.9	18, 118, 556 12, 121, 862	4, 217, 478 3, 154, 556	12, 663, 365 6, 753, 776	1, 237, 713 2, 213, 530	23.3 26.0	69, 9 55, 7	18
l'ools, not elsewhere spec- ified.	1919 1914	21 8	54 11	14 5	3,261 372	287 40	2,790 297	184 35	8.8 10.8	85.6 79.8	5.6 9.4	11, 898, 853 859, 144	1,128,036 76,189	10,072,676 719,430	698, 141 63, 525	9.5 8.9	84.7 83.7	1
Wirework, not elsewhere specified.	1919 1914	3 6	29 23	6 4	2,516 1,314	44 61	2,442 1,233	30 20	1.7 4.6	97.1 93.8	1.2 1.5	17,065,225 5,891,274	260, 165 130, 477	16,650,288 5,680,919	154, 772 79, 878	1.5 2.2	97.6 96.4	1
Total for cities	1919 1914	1,850 2,069	2,205 1,815	737 727	376,032 177,605	8,709 9,763	361,101 160,364	6,222 7,478	2.3 5.5	96. 0 90. 3	1.7 4.2	2,836,698,957 688,558,088	54,033,779 28,565,266	2,744,216,497 629,113,585	38, 448, 681 30, 879, 237	1, 9 4, 1	96.7 91.4	
Adrian	1919 1914	26 34	22 21	14 13	1,870 1,256	92 102	1,616 1,001	162 153	4. 9 8. 1	86. 4 79. 7	8. 7 12. 2	14, 549, 031 5, 442, 338	508,970 349,498	13,005,832 4,734,595	1,034,229 358,245	3. 5 6. 4	89. 4 87. 0	
ALPENA	1919 1914	16 28	16 17	6 9	1,372 1,494	145 73	1,20 0 1,390	27 31	10.6 4.9	87. 5 93. 0	2. 0 2. 1	9,356,190 4,101,935	336,062 126,258	8,806,110 3,867,843	214,018 107,834	3.6 3.1	94, 1 94, 3	
Ann Arbor	1919 1914	35 38	26 19	17 18	1,612 842	135 134	1,433 593	44 115	8.4 15.9	88. 9 70. 4	2, 7 13, 7	9,793,696 2,603,379	783,953 352,540	8,725,961 1,761,742	283,782 489,097	8.0 13.5	89.1 67.7	1
BATTLE CREEK	1919 1914	55 64	48 52	15 19	6,680 4,599	151 180	6,493 3,523	36 896	2, 3 3, 9	97, 2 76, 6	0.5 19.5	56, 139, 953 23, 248, 420	277,860 630,058	54,533,778 13,734,003	328,315 8,884,359	2.3 2.7	97.1 59.1	3
BAY CITY	1919 1914	45 76	50 48	13 20	5,057 3,771	205 462	4,725 3,036	127 273	4.1 12.3	93. 4 80. 5	2.5 7.2	28, 214, 525 11, 119, 286	1,987,472 1,270,219	25,282,167 8,919,281	944,886 929,786	7.0 11.4	89. 6 80. 2	
BENTON HARBOR	1919 1914	24 25	32 22	9 15	2,328 1,285	45 132	2,210 1,029	73 124	1.9 10.3	94. 9 80. 1	3.1 9.6	11,345,034 3,021,552	309, 469 515, 895	10,531,096 2,317,335	504,469 188,322	2.7 17.1	92.8 76.7	
Detroit	1919 1914		1,08	319 294	167,016 99,603	4, 025 4, 397	159,884 91,757	3,107 3,449	2.4 4.4	95. 7 92. 1	1. 9 3. 5	1,234,519,842 400,347,012	27,422,084 13,557,847	1,188,067,496 376,187,763	19,030,262 10,602,302	2.2 3.4	96.2 94.0	
ESCANABA	1919 1914		11 13	5 9	842 777	77 53	737 680	28 44	9.1 6.8	87. 5 87. 5	3.3 5.7	3,017,912 1,506,526	460,709 111,140	2,396,533 1,303,913	160,670 91,473	15.3 7.4	79, 4 86, 5	
FLINT	1919 1914			19 20	24, 603 8, 722	237 160	24, 185 8, 416	181 146	1.0 1.8	98. 3 96. 5	0.7	275,779,638 53,375,039		272,855,259 52,389,080	1,197,914 612,589	0.6 0.7	98. 9 98. 2	
GRAND RAPIDS	1919 1914			86 96	23, 548 17, 427	1,077 1,431	21,517 15,207	954 789	4.6 8.2		4.1 4.5	109, 135, 055 49, 792, 200		99, 195, 660 43, 765, 942	4,660,512 2,154,634	4.8 7.8	90. 9 87. 9	
Holland	. 1919 1914			10 11	2,748 2,165	51 55	2,651 2,057	46 53	1.9 2.5			17,711,095 8,683,835		17, 124, 013 8, 281, 748	424, 179 271, 844	0. 9 1. 5		
IRONWOOD	1919 1914	10			399 516	39	329		9. 8 7. 6		7.8 6.6		352,590 153,662	816,387 545,045	212,313 94,540	25. 5 19. 4		
Ishpeming	1919	1.		1	107 79				45. 8 39. 2				1 358,090 67,757	649,342		35. 5 29. 6		
Jackson	. 1919 1914		73	24	9,620 4,906	400 257	9,030	190 3 151	4.2 5.2	93.9	1		11	46,658,431	1,177,659 409,263	3. 4 4. 6	94.2 93.0	3
Kalamazoo		60	3 94	25	7,629 5,525	41	7,076	3 125	5.6		1,6	46, 254, 91	* II		1	4. 2 5. 2	94. 92.	5
Lansing		54	4 70 7 78	1 1 2 2	12,349	- 11	12.02		1.8	A 12 1	1	104,722,11	11		1	1,7	97. 93.	1
MARQUETTE		. 1	2 19) з	1.415	i 40	1,37	0 1				* 1	11 '	6,943,44	54,253	И	96. 84.	3
MONROE	1 -	11/			1	4			11				В		1	1.0	97.	-c]
MUSKEGON	191	9 5 4 4	2 64 7 4	3 23 4 12	9,716 4,646			5 126 1 3	7.	96.9 1 92.	9 1.8 1 0.8		7 1,218,060 5 1,007,375	54,129,10 10,050,45	622,184 0 89,780	. II - s .	1 .	2
Owosso	191	$\begin{bmatrix} 9 & 2 \\ 4 & 2 \end{bmatrix}$	0 10 4 10	B 4	1,781 1,231	1 31 1 11	8 1,43 3 1,09	8 2 4 2	17. 9.	9 80. 2 88.	7 1.4 9 1.4		6 1,023,238 4 298,615	8,746,21 3,078,01	8 179,280 6 91,90	10.3	87. 3 88.	7
PONTIAC	191 191		2 2 4 2	6 30 0 12	7,685 2,409	2 6 9 4	9 7,45 9 2,28	3 16 6 7	0. 1 2.	9 97. 0 94.	0 2. 9 3.	1 104,990,13 1 15,102,45	3 538,419 3 324,29	102,991,50 14,471,01	3 1,460,21 5 307,14	0. 5 2.	5 98. L 95.	1 8
PORT HURON	191 191	9 4 4 4	3 2 3 3	8 12 1 1	2,23 1,29	1 11 6 14	5 2,06 8 1,08	5 4 5	5. 11.		6 2. 4 4.	9,545,57 2 4,090,32	8 729,823 3 485,67	8,482,23 1 3,436,68	0 333,52 8 167,96	7. 11.	88. 9 84.	9
SAGINAW	191 191		0 8	8 40	9,475	2 34 2 72	5 8.68	3 44	3. 11.		7 4. 4 8.		5 2,072,514 0 1,427,29	1	1.10	8 4. 8 7.	8 89. 5 75.	8 2
SAULT STE. MARIE	191 191	9 1	1 1	2 3	1,24	8 3 8 5	4 1,17 3 81	5 3 8 6	9 2. 7 5.	7 94. 7 87.	2 3.	1 10,699,76	7 170,930	0 10,197,51	3 331.32	1. 5 3.	6 95. 7 92.	3
TRAVERSE CITY		9 2	4 1		96	0 12	i las i	18 9	1 12.	6 77.	9 9.	4,099,96			- 1 cm - mm	1 1	2 76. 7 69.	7
WYANDOTTE	-1 -	1	2 1		6,21	4 1	4 6,19)1	9 0.	1 2 3			li .		1.0	6 0.	5 99.	.3
ALL OTHER CITIES 1	191	9 2	1 2	1 8	64,62	9 7	4 64,52	8 2	7 0.	1 99.	8 (3)	569, 208, 3	7 810, 57	9 568, 117, 12	280,67	6 0.	1 99	. 8

¹ Includes the group "All others."

² All other cities comprise Hamtramck and Highland Park.

³ Less than one-tenth of 1 per cent.

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

			THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON	CIT	ES HAVING A	POPUL	ATION OF 10,000	or ov	ER.		THE STATE OF	
	Census year.	Aggregate.	Total.		10,000 to 25	,000.1	25,000 to 100	,000.	100,000 and	over.	A POPULATION 10,000 OR C	ON OF
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per centor aggre- gate.
Number of places	1919 1914 1909		28 26 24		14 16 15		12 8 7		2 2 2		************	
Population 2	1920	3,668,412	1,894,612	51. 6	179,991	4.9	583,309	15.9	1,131,312	30. 8	1,773,800	48, 4
	1915	2,976,030	1,194,360	40. 1	211,887	7.1	321,596	10.8	660,877	22. 2	1,781,670	59, 9
	1910	2,810,173	1,043,746	37. 1	203,817	7.3	261,592	9.3	578,337	20. 6	1,766,427	62, 9
Number of establishments	1919	8,305	4,792	57. 7	624	7.5	1,381	16.6	2,787	33.6	3,513	42.3
	1914	8,724	4,710	54. 0	825	9.5	1,255	14.4	2,630	30.1	4,014	46.0
	1909	9,159	4,500	49. 1	817	8.9	1,123	12.3	2,560	27.9	4,659	50.9
Average number of wage earners	1919	471, 242	376,032	79. 8	25, 800	5. 5	159,668	33.9	190, 564	40. 4	95,210	20, 2
	1914	271, 090	181,446	66. 9	19, 674	7. 3	44,742	16.5	117, 030	43. 2	89,644	33, 1
	1909	231, 499	156,747	67. 7	20, 433	8. 8	37,713	16.3	98, 601	42. 6	74,752	32, 3
Value of products	1919	\$3,466,188,483	\$2,836,698,957	81. 8	\$149, 555, 640	4.3	\$1,343,488,420	38.8	\$1,343,654,897	38.8	\$629,489,526	18.2
	1914	1,086,162,432	697,694,182	64. 2	65, 646, 394	6.0	181,907,676	16.7	450,140,112	41.4	388,468,250	35.8
	1909	685,109,169	465,201,235	67. 9	52, 798, 619	7.7	117,232,598	17.1	295,170,018	43.1	219,907,934	32.1
Value added by manufacture	1919	1,546,945,240	1,288,383,086	83, 3	71,374,377	4.6	580, 429, 036	37.5	636, 579, 673	41. 2	258, 562, 154	16.7
	1914	493,361,368	313,194,451	63, 5	26,621,691	5.4	82, 676, 454	16.8	203, 896, 306	41. 3	180, 166, 917	36.5
	1909	316,497,147	225,647,464	71, 3	23,980,450	7.6	56, 450, 253	17.8	145, 216, 761	45. 9	90, 849, 683	28.7

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

	Vγ	LUE OF	PRODUCTS.			V٨	LUE OF	PRODUCTS.	
CITY AND INDUSTRY.	Amount,	Per cent of total	Increase 1 ov	er 1914.	CITY AND INDUSTRY.	Amount,	Per cent of total	Increase; ove	er 1914,
	1919.	for the state.	Amount.	Per cent.		1910,	for the state.	Amount.	Per cent.
DETROIT.	*0.40 MMO EDO	00.0	e002 16K 600	1777 77	GRAND RAPIDS—Continued.				
DETROIT. stomobile bodies and parts sundry and machine-shop products and parts suppliering and meat packing.	201, 455, 182 67, 161, 566	26, 2 69, 9 36, 8	\$223, 165, 629 162, 986, 208 49, 976, 198 37, 570, 977	177. 7 423. 7 290. 8	Printing and publishing, newspapers and periodicals. Lumber, planing-mill products, not in- cluding planing mills connected with	\$2,343,763	9.4	\$900,630	62.
ughtering and meat packingass, bronze, and copper products		96.7 78.5	I 34.610.017 I	187. 1 236. 6		2,015,250	5.3	337,607	20,
ass, bronze, and copper products gines, steam, gas, and water and other bakery products inting and publishing, newspapers and	36,611,142 22,631,347	35. 9 50. 4	29, 455, 124 15, 142, 526	411. 6 202. 2	Phonographs and graphophones. Tobacco, cigars and eigarettes. Leather, tanned, curried, and finished. Printing and publishing, book and job	1,996,429 1,982,897	47.2 10.9	(3) 689,837	53. 26.
periodicals	14,017,463	56.2	8, 238, 099	142.5	Printing and publishing, book and job Rutter		4.1 10.0 4.9	390,968 620,430 900,300	53. 120
upplies bacco, cigars and cigar ettes nting and publishing, book and job	12,970,284 11,606,301 11,430,857 11,355,383	51.8 64.1 64.7	10,729,879 3,102,462 6,060,845	478.9 36.5 112.9	Butter	1 254 478	0.1	1,108,049	756.
	11, 355, 383	30.0	7,480,855	193, 1	Cars and general shop construction and ropairs by steam-railroad companies. Gas,illuminating and heating. House-furnishing goods, not elsewhere				
vorks or rolling mills	11,271,015 10,144,800	65.8 49.5	9,141,473 (3) (8)	429.3	Specifica	Y (")	(3)	(3)	(3)
unusia: uctural ironwork, not made in steel rorks or rolling mills. ves and hot-eir furnaces obs, not elsewhere specified. mber, planing-mill products, not in- luding planing mills connected with awardite	9, 216, 733	77.5			Paper and wood pulp. Plumbers' supplies, not elsewhere speci- fied. Roofing materials.				
ather, tanned, curried, and finished	8, 624, 215	24.1 18.8	3,547,943 6,809,198	63.7 375.2	Lansing.				
s, steam-railroad, not including opera-	11	81.3	4, 224, 304	109.2	Automobile bodies and parts	9, 229, 855	3.2 2.7	7, 238, 722 2, 258, 336	383. 97.
shregisters and calculating machines uggists' preparations. ur-milland gristmill products			a stá	_	Foundry and machine-shop products for iron and steel forgings, not made in steel works or rolling mills.	4, 174, 718 3, 227, 820	48. 8 3, 2	(³) 1,795,476	125
hher tires tubes and while and		(3)	(a)	(3)	works of rouning into the Engines, steam, gas, and water. Lumber, planing-mill products, not including planing mills connected with sawmills.				
oves, gas and oil					sawmills. Flour-mill and gristmill products	2, 226, 531 846, 933 840, 135	5,9 1,9 1,9	1,438,135 305,888 500,624	182 56 200
FLINT.	 	1.			Automobiles	(3)		9	(3)
numbrile bodies and parts	8,537,634 2,148,759	2.9 1.3	(3) 501,644	30.5	saymills. Flour-mill and gristmill products. Bread and other bakery products. Automobiles. Condensed milk Sorews, machine. Sugar, beet.	(3)	(8)	(3)	(5)
tomobiles	1,621,915	3.6	1,321,790	440.4	SAGINAW.		8.0	11,560,559	564
our-mill and gristmill products]				Lumber, planing-mill products, not in- cluding planing mills connected with	13,609,661	11		
as triummating and heating aints rinting and publishing, newspapers and periodicals prings, steel, automobile	(a)	(3)	(3)	(3)	Foundry and machine-shop products a Lumber, planing-mill products, not in- cluding planing mills connected with sawnulls. Bread and other bakery products. Automobile bodies and parts.	2,474,337 1,479,984 695,137	6.5 3.3 0.2	-28,496 878,213	145
periodicals prings, steel, automobile							0.2		
GRAND RAPIDS.	34, 962, 294	50.3	20, 137, 084 5, 553, 421	135, 8	Cars and general shop construction and repairs by steam-railroad companies.				
lour-mill and gristmill products	5, 656, 674 5, 453, 586	2, 0 12, 4	5, 553, 421 2, 311, 856	5, 378. 5 73. 6 80. 9	Engines, steam, gas, and water Flour-mill and gristmill products Furniture		(a)	(8)	(8)
GRAND RAPIDS. urinture utomobile bodies and parts. oundry and machine-shop products. oundry and machine-shop products fraed and other bakery products. unit goods. nut goods.	4,505,759 3,605,027 2,802,248 2,478,656	2, 5 8, 0 32, 0	2,311,856 2,015,087 1,922,829 2,322,543 1,414,871	114.3 484.2	Graphite, ground and refined. Leather, tanned, curried, and finished. Tools, not elsewhere specified.	11		a.	1
Knit goods Confectionery and ico cream	2, 478, 656 2, 344, 979	20.6 18.6	1, 414, 871 1, 701, 027	133, 0 264, 2	Tools, not elsewhere specified				

Includes Manistee and Menominee in 1914 and 1909; population less than 10,000 in 1920.

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.

¹ A minus sign (—) denotes decrease.
2 Includes "fron and steel, tompering and welding" and "machine tools."
2 Figures can not be shown without disclosing individual operations.

⁴ Includes "machine tools" and "textile machinery and parts." 6 Includes "iron and steel, welding."

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

	NUMBER O	F ENGINES O	R MOTORS.	_		HORSEPOWE	R.		
POWER.					Amount.		Per ce	ent distribu	ition.
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	58,208	25, 686	15, 527	1, 202, 128	730, 383	598, 288	100. 0	100.0	100
Owned Steam 1 Engines. Turbines. Internal-combustion engines. Water Water wheels and turbines. Water motors.	3,200 211 776	5, 790 4, 177 (²) (²) (²) 1, 062 551 486 65	6, 967 5, 066 (2) (2) 1, 167 734 700 34	652, 952 592, 911 440, 130 152, 781 19, 695 40, 346 40, 329	538, 075 486, 771 (2) (2) 19, 593 31, 711 30, 424 1, 287	521, 543 465, 536 (2) (2) (2) 13, 988 42, 019 41, 442 577	54. 3 49. 3 36. 6 12. 7 1. 6 3. 4 3. 4	73. 7 66. 6 2. 7 4. 3 4. 2 0. 2	87. 77. 2 7 6
Rented ElectricOther	53,626 53,626	19, 896 19, 896	8, 560 8, 560	549, 176 540, 757 8, 419	192, 308 188, 702 3, 606	76, 745 74, 270 2, 475	45. 7 45. 0 0. 7	26.3 25.8 0.5	
Electric	76,678 53,626 23,052	28, 992 19, 896 9, 096	12,917 8,560 4,357	818, 271 540, 757 277, 514	311, 966 188, 702 123, 264	133, 064 74, 270 58, 794	100. 0 66. 1 33. 9	100, 0 60, 5 39, 5	5

 $^{^1}$ Figures for horsepower include for 1909 the amount reported under the head of " Other" owned power. 3 Not reported separately.

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

	co	AL,	G.3		G 11 .	
INDUSTRY AND CITY.	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
All industries. 1019. Per cent of increase 2. 1914.	50, 516 95, 815 —47. 3	8, 241, 877 5, 974, 604 37. 9	812, 041 460, 122 76. 5	1,741,039 781,212 142.1	150, 419 (1) (1)	2, 105, 985 2, 455, 572 —14, 2
Agricultural implements. Automobile bodies and parts. Automobiles. Brass, bronze, and copper products. Bread and other bakery products.	82 781 1,062 2,629 13,422	23, 040 238, 666 648, 913 75, 527 36, 107	4, 882 10, 862 69, 096 33, 560 25, 342	4, 465 78, 256 555, 839 127, 470 449	7, 969 70, 550 1, 596 1, 801	1, 722 160, 320 913, 381 195, 154 59, 011
Brick and tile, terra-cotta, and fire-clay products	2, 281 42 190 473	82, 933 27, 851 100, 880 967, 341 9, 123	30 265 369 161, 828 370	114, 122 232 6, 700 14, 228 6	183 280 29 205 141	1, 532 552 49, 730
Copper, tin, and sheet-iron work. Electrical machinery, apparatus, and supplies. Electroplating. Engines, steam, gas, and water. Flour-mill and gristmill products.		1,509 10,210 722 74,910 46,841	57 140 13 10,625 104	7 16 240 52, 752 2, 386	139 761 11 15,475 1,875	1, 222 38, 846 2, 109 40, 788
Foundry and machine-shop products. Furniture. Gas, illuminating and heating. Hardware. Iron and steel, steel works and rolling mills.	2,788 947 45 371	311, 949 126, 244 834, 391 6, 167 30, 481	135, 797 1, 422 3, 832 753 6, 038	99, 533 25 411, 562 555 32, 208	8, 263 599 23 1, 095	231, 574 11, 327 598 4, 406 1, 022
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills. Iron and steel, forgings, not made in steel works or rolling mills. Iron and steel, tempering and welding. Lime. Liquors, malt	1 97	2, 386 38, 448 2, 004 4, 161 96, 944	211 437 78 7,092 3,013	10, 475 46, 152 1, 755 7, 135 2, 950	2,895 2,54	50 6,000 11,175 475
Machine tools. Marble and stone work. Mineral and soda waters. Pottery. Printing and publishing, book and job.	124 154	9, 491 559 5, 877 16, 008 6, 651	66 148 77	4, 244 51 42 6, 785 10	6,050 1,044 146	102,948 460 1,228 49,189 8,624
Printing and publishing, newspapers and periodicals. Screws, machine	769 360	6, 928 4, 300 78, 564 2, 007 5, 824	245 25 2,685 25 28	1, 137 2, 900 30, 456 49, 295 164	1, 101 100 1, 186 5, 701 65	26, 705 5, 100 18, 930 1, 250
Stoves and hot-air furnaces. Structural ironwork, not made in steel works or rolling mills. Tools, not elsewhere specified. Wirework, not elsewhere specified All other industries. 1 Included in figures for fuel oils.	1 00	32,754 12,491 5,768 10,149 4,246,758	314, 917	8 30, 336 1, 086 945 49, 062	2, 881 2, 186	9, 298 2, 808 11, 657 4, 061 132, 703

Included in figures for fuel oils.

³ Less than one-tenth of 1 per cent.

² A minus sign (-) denotes decrease.

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

	co	AL.	Coke			
INDUSTRY AND CITY.	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).		Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	(1,000 cubic feet).
Total for cities.	28, 594	4, 708, 982	469,818	1,544,277	129, 404	1, 892, 978
ADRIAN ALPENA ANN ABBOR. BATTLE CREEK. BAY CITY.	7 2 285 5,015 1,200	25, 554 177, 649 36, 023 179, 255 52, 390	882 404 254 7,037 8,851	24 3 4,233 8,095 1,066	1,860 241 288 324 2,356	874 30 119, 184 3, 908 3, 251
BENTON HARBOR. DETROIT ESCANABA FINT. GRAND RAPIDS	263 15,747 9 136 2,523	39, 204 1, 626, 226 8, 704 190, 275 280, 937	1,709 178,236 1,186 8,454 15,319	20, 875 795, 769 4, 365 128, 725 37, 793	2,527 64,946 12 9,565 1,104	932 896, 139 253, 533 25, 803
HOLLAND. IRONWOOD. ISHPERING JACKSON KALAMAZOO.	9 34 52 166 437	40, 612 1, 828 5, 346 83, 582 240, 434	1, 179 522 1, 703 5, 703	30 2, 154 3 55, 795 12, 031	28 10 3,343 2,337	50, 215 331 294 34, 412 3, 689
LANSING MARQUETTE MONROE MUSKEGON	206 12 15 558	115, 911 21, 407 184, 550 116, 705	6, 988 689 659 10, 157	68,360 108 205 17,202	14, 413 4 107 5, 321	114,606 1,404 876 12,253
Owosio PONTLC PORT HURON SAGINAW	84 98 329 378	56, 249 63, 745 61, 714 103, 769	2,006 15,596 5,176 5,511	54 49,637 12,079 10,422	239 6,687 286 585	7,098 26,116 780 31,664
SAULT STE, MARIE. TRAVERSE CITY WYANDOTTE. ALL OTHER CITIES 1	15 515 155 344	113, 959 6, 425 563, 442 313, 078	63,493 62 61,347 66,695	877 314,372	9 23 6 12,783	9,528 1,087 1,641 293,330

¹ All other cities comprise Hamtramck and Highland Park.

SPECIAL STATISTICS.

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

Automobiles, including bodies and parts (Table 19).— This table shows the number and value of the different classes of automobiles manufactured, as reported at the censuses of 1919, 1914, and 1909.

Although the figures in the table show large increases in the number of the different classes of automobiles manufactured in 1919 as compared with preceding censuses, they are somewhat misleading owing to a change in the character of operations of one large establishment. In 1914 and 1909 this plant reported a large number of completed automobiles, while in 1919 the greater part of its production was reported as "bodies and parts," the completed machines being reported by assembling plants owned by the same company and located at various places throughout the United States.

Of the total number of automobiles produced in Michigan in 1919, 364,184, or over one-half, were rated as having 20 but less than 30 horsepower. In 1914 the corresponding figures were 313,395 out of a total of 443,072. The remainder was distributed in groups according to horsepower ratings as follows: Three hundred and fifty-seven were of less than 10 horsepower in 1919, as compared with 1,937 in 1914; 163,948 were of 10 but less than 20 horsepower, against 39,250; and 160,681 were of 30 to 50 horsepower, as compared with 79,254. In 1919 no automobiles were reported as having a horsepower rating of 50 and over, while in 1914 there were 9,236 classified in this group.

TABLE 19.—AUTOMOBILES, INCLUDING BODIES AND PARTS: 1919, 1914, AND 1909.

							
	1919		1	1914		1909	
	Num- ber.	Value.	Num- ber.	Value.	Num- ber.	Value.	
Total value		Dollars. 1,620,383,356		Dollars. 398, 289, 022		Dollars. 96,651,451	
Automobiles, total Pleasure vehicles Touring cars Closed cars Roadsters, runabouts,	689, 170 626, 853 509, 830 54, 573	642, 925, 814 483, 103, 499 89, 900, 677	437, 083 367, 092 6, 610	303, 774, 254 295, 553, 172 251, 609, 056 10, 636, 264	63,883 43,855 1,539	68, 756, 909 51, 365, 984 3, 803, 616	
and all other. Business vehicles. Delivery wagons. Trucks. All other	62,450 62,317 12,912 47,442 1,963	84,078,544 11,294,203 70,169,104	5, 989 1, 295 4, 684	8, 221, 082 970, 569 7, 220, 321	917 401 372	1,602,840 319,071 994,311	
Chassis	41, 247 5, 451			(1)	(1)	(;)	
cluding bodies and parts and repairs		840, 017, 175		94, 514, 768		26, 291, 702	

1 Not reported separately.

Shipbuilding, including boat building (Tables 20 and 21).—This industry includes the building and

repairing of steel and wooden vessels, as well as small craft, and the manufacture of masts, spars, oars, and the rigging of vessels. Comparisons of the 1919 figures for this industry, unlike those for any other for which tables are presented, are made with those of the special census for shipbuilding, taken in 1916.

Table 20.—Shipbuilding, Including Boat Building—Number and Tonnage: 1919 and 1916.

		1919	1916	
ø	Num- ber,	Gross tonnage.	Num- ber.	Gross ton- nage,
Vessels, 5 gross tons and over, launched during the year.	131	208, 602	29	38, 3
Stean Stean Motor	126 121	206, 912 206, 162	19 12	37, 9 35, 6
Unrigged	5 5 5	750 1,690 1,690	7 10 1 9	2,2 4, 3, 10
Unrigged	50		172	

The gross tonnage of iron and steel vessels launched, which was 37,906 in 1916, increased to 206,912 in 1919. Forty-three steel vessels, with a total of 97,249 gross tons, were launched at Detroit; 29 vessels, with 71,567 gross tons, at River Rouge; 6 vessels, with 14,096 gross tons, at Saginaw; and 48 vessels, with 24,000 gross tons, at Dearborn. Of the 126 vessels launched, 73, with 182,162 gross tonnage, were for ocean freight service; 5, aggregating 750 gross tons, were coal barges for the United States Navy; and 48, with 24,000 gross tonnage, were Eagle patrol boats.

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

TABLE 21.—Shipbuilding, Including Boat Building—Value: 1919 and 1916.

	1919	1916
Total value of work	\$85,154,702	\$5,637,103
Work done during the year on new vessels, 5 gross tons and over. Steel. Wood. Boats of less than 5 tons. Power boats of all kinds. Sailboats, rowboats, etc.	82, 508, 048 81, 454, 048 1, 054, 000 171, 852 103, 259 68, 593	3, 371, 759 3, 255, 904 115, 855 156, 043 130, 184 25, 859
Repair work. Steel. Wood All other products	1,567,132 828,595 738,537 907,670	1, 455, 258 890, 602 564, 656 654, 043

Paper and wood pulp (Table 22).—This table shows the quantity and cost of the principal materials used, the quantity and value of the various products, and detailed information regarding equipment, for 1919, 1914, and 1909.

Michigan ranked fifth among the states in the manufacture of paper and wood pulp in 1919. Of the 39 paper and pulp mills in the state in 1919, 4 were

engaged exclusively in the manufacture of wood pulp, 27 made paper only, and 8 produced both pulp and

TABLE 22.—PAPER AND WOOD PULP: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	\$40, 353, 447	\$14, 544, 945	\$ 9, 024, 595
Pulp wood: Cords	207, 234	182, 314 \$1, 270, 466	132, 846
Cost Wood pulp purchased:	\$2,586,808 106,918	78, 488	\$858, 230 60, 750
Ground-	\$9,617,530	\$3, 160, 096	\$2, 405, 975
Tons	9, 918 \$ 341, 842	17,511 \$357,006	15, 320 \$384, 489
Tons	13, 030 \$1, 1 85, 726	12, 833 \$581, 101	16, 360 \$691, 514
Sulphite fiber— Tons	67, 781 \$6, 906, 262	42,765 \$2,022,035	29,070 \$1,329,972
TonsSulphate fiber— TonsCost. Susphate fiber— TonsCost Sereenings, mechanical and chem-	12,894 \$1,073,344	4,098 \$170,028	(2) (2)
feal— Tons Cost Rags, including cotton and flax waste and sweepings:	3, 205 \$110, 356	1, 281 \$29, 926	(2) (2)
Cost	9,675 \$1,202,231	16,006 \$425,935	11,939 \$ 383,886
Paper stock, including high-grade shav- ings and old and waste paper: 3 Tous.	300, 908 \$9, 084, 955	200, 370 \$3, 419, 791	114,497 \$2,193,302
Cost China clay, domestic and foreign: Tons. Cost	34, 375 \$633, 265	(2) (2)	(2) (2)
Cost. Bleaching powder; Tons. Cost. Fuel and rent of power, cost.	5, 631 \$245, 299 \$3, 925, 143	(2) (3)	(2) (2)
All other materials, cost 4	\$13,058,216	\$1, 467, 613 \$4, 801, 044	\$958, 147 \$2, 225, 055
PRODUCTS.			
Total value	\$66, 299, 513	\$22,049,990	\$13,922,124
Book, cover, plate, and coated paper: Tons	156, 598 \$25, 690, 000	118,091 \$10,075,238	85,048 \$6,499,865
Fine paper: Tons Value	26, 332 \$6, 617, 961	17, 463 \$1, 880, 801	5,032 \$705,772
wrapping paper:	53,643	59,873	50, 323
Value	\$6,893,109 215,553	\$3,427,732 109,360	\$2, 799, 583 56, 342
Value	\$15,000,415.	\$3,633,395	\$1, 866, 436 36, 411
Value. Wood pulp made for sale or for consumption in mills other than where produced:	29, 383 \$6, 394, 483	36, 935 \$1, 692, 933	\$1,709,006
Tons Value Wood pulp produced (including that used in mills where manufactured).	31, 378 \$2, 249, 301	16, 464 \$549, 031	8, 199 \$300, 948
total tons. Ground, tons. Sulphite fiber, tons. Other chemical fiber, tons.	106, 497 16, 980 71, 959 17, 558	81, 451 17, 280 53, 358 10, 813	65, 331 12, 273 53, 058
All other products, value	\$3, 454, 244	\$790, 860.	\$40,514
EQUIPMENT.			
Paper machines: Total number	83	81	68
Capacity, yearly, tons Fourdrinier— Number	578, 380 55	430,077	301, 345
Capacity per 24 hours, tons	923	809	573
Number Capacity per 24 hours, tons Pulp equipment:	962 962	26 619	25 321
Griders, number. Digasters, number. Capacity, yearly, tons of pulp, total. Mechanical, tons. Chemical, tons.	19 36 139, 878 35, 974	19 29 93, 186 24, 510 68, 676	17 27 74, 032 18, 303

Book paper was the principal product of the industry at each census, forming 38.8 per cent of the total value of products in 1919. Boards was the next product in importance, representing 22.6 per cent of the total value. To avoid disclosing the data of individual establishments, it was necessary to include the value of tissue paper, tag stock, and various other grades in the item "All other products."

Butter, cheese, and condensed milk (Table 23).-This table shows the quantity and value of the several products of the industry for 1919, 1914, and 1909.

Michigan was the fourth state in 1919 in the production of butter, cheese, and condensed-milk factory products. The states that exceeded it in the total value of these products were Wisconsin, New York, and Minnesota, in the order given. Michigan was the seventh state in the production of butter, fourth in the production of cheese, and fifth in the production of condensed milk.

Of the total value of products, butter formed 44.8 per cent; cheese, 5.3 per cent; and condensed milk, 37.7 per cent. The total value of products increased \$43,237,001, or 200.6 per cent, during the five-year period 1914 to 1919. Values increased to such a degree, influenced largely by industrial conditions brought about by the World War, that they can not properly be used to measure the growth of manufactures between the industrial censuses of 1914 and 1919.

TABLE 23.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

			. в
	1919	1914	1909
Total value 1	\$ 64, 786, 598	\$21, 549, 597	\$14, 287, 499
Butter:			
Pounds	55, 842, 680	43, 220, 077 \$12, 416, 504	35, 511, 760
Value	\$29,041,657	\$12, 416, 504	\$10,043,137
Packed solid—			
Pounds	29, 358, 134	32, 925, 588	30, 328, 760
_ Value	\$16,650,919	\$9, 365, 152	\$ 8, 586, 270
Prints or rolls—	00 404 840	10 004 400	E 100 000
Pounds	26, 484, 546 \$12, 390, 738	10, 294, 489 \$3, 051, 352	5, 183, 000 \$1, 456, 867
Value Cream sold:	\$12,000,100	60,001,002	61,400,001
Pounds	6 173 016	7 804 889	2,572,764
Value	6, 173, 016 \$1, 475, 030	7, 604, 889 \$901, 054	\$249, 276
Cheese:	4 , 2, 2, 0, 000		
Pounds	12, 857, 230	13, 267, 145	13, 382, 160
Value	\$3,454,423	13, 207, 145 \$1, 773, 576	\$1,911,875
Full-cream—			
Pounds	9, 201, 576	11, 045, 713	13, 028, 317 \$1, 860, 879
Value	\$2,928,357	\$1,588,656	\$1,860,879
Other kinds—	0.000.001	0 001 400	050 010
Pounds	3,655,654	2, 221, 432	353, 843
Value	\$526,066	\$184,020	\$ 50, 996
Condensed and evaporated milk:	101 700 958	76, 514, 655	20 304 044
PoundsValue	181, 700, 256 \$24, 422, 946	\$5, 200, 640	32,404,944 \$1,924,621
Sweetened—	φ <i>2</i> -π, π <i>22</i> , σπο	40, 200, 010	W1, 021, 021
Pounds	63 915 861	37, 057, 100	27,695,886
Value	63, 915, 861 \$10, 442, 798	37, 057, 100 \$2, 930, 006	27,695,866 \$1,693,030
Unsweetened-	4	1-,,	,, ,
Pounds	117, 784, 395	39, 457, 555	4,709,078
Value	\$13, 980, 148	\$2, 270, 684	\$231,591
			· ·
All other butter, cheese, and condensed-			1
milk factory products, value	\$5, 551, 485	\$650,716	\$105,378
All other products, value	\$841,057	\$607, 107	\$53, 212
	'	((

¹ In addition, in 1919, butter valued at \$59,175 was manufactured in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.

A consideration of quantity production will give a unit of measure for comparative purposes. During

Reported as "Other chemical fiber" in 1914 and 1909.

Not reported separately.

Reported as "Old and waste paper" in 1914 and 1909.

Includes sizing, chemicals, sulphur, dyestuffs, and mill supplies.

the five-year period 1914 to 1919 butter increased in quantity 12,622,603 pounds, or 29.2 per cent; cheese decreased 409,915 pounds, or 3.1 per cent; and condensed milk increased 105,185,601 pounds, or 137.5 per cent. The remarkable growth of the condensed-milk industry was due largely to the increased production of unsweetened condensed milk, the output of which in 1919 formed 64.8 per cent of the total condensed and evaporated milk reported.

Slaughtering and meat packing (Table 24).—This table presents detailed statistics for materials and products for the census years 1919, 1914, and 1909.

TABLE 24.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	\$49,774,348	\$1 8, 813, 865	\$11, 253, 120
Animalsslaughtered, cost	\$45,783,152	\$17,054,123	\$9,498,922
Number	106,975 \$8,652,036	62,035 \$3,715,884	50,157 \$2,072,350
Calves— Number Cost.	74,242 \$1,876,206	24, 505 \$368, 055	27, 284 \$288, 412
Sheep and lambs— Number	193,345 \$2,010,375	125, 537	88,285 \$404,087
Cost	1 1	\$644,913 761,380	
	\$881,030 \$33,244,585	761, 380 \$12, 325, 271	\$6,734,073
All other materials, cost	\$3,991,196	\$1,759,742	\$1,754,198
Total value	\$59,584,740	\$20,665,737	\$12,842,201
Fresh meat, value	. \$31,010,401	\$9,883,613	\$4,656,040
PoundsValue	44,582,286 \$7,669,863	28, 050, 744 \$3, 517, 274	24,099,494 \$1,931,128
Veal— Pounds Value	7,215,770 \$1,808,948	2, 800, 785 \$408, 809	2,603,074 \$309,568
Mutton and lamb— PoundsValue	6,757,427 \$1,767,650	4, 782, 158 \$608, 761	3,509,894 \$363,474
Pork— Pounds Value	74,392,478 \$19,111,083	30, 382, 616 \$5, 232, 513	16,479,567 \$2,014,770
Edible offal, and other fresh meat- Pounds. Value	5, 272, 424 \$652, 857	1, 278, 456 \$116, 256	631,000 \$37,100
Pork, pickled and other cured: Pounds	53,360,220 \$13,762,791	43,017,100 \$5,697,111	36, 145, 040
Value Sausage: Pounds	10,758,438 \$2,582,906	8,409,965 \$1,103,762	\$4,707,180 8,174,244 \$804,620
Value Tailow:	\$2,582,906 3,041,759	Assertation of the second	
PoundsValueLard:	\$449, 496	1,496,222 \$106,308	751,470 \$38,531
PoundsValue.	26, 271, 409 \$7, 078, 212	27, 342, 302 \$2, 744, 866	13,351,255 \$1,859,703
Grease and soap stock: Pounds Value. Fortilizers and fertilizer materials:	5,326,001 \$809,048	2,766,045 \$165,617	(1)
Fertilizers and fertilizer materials: Tons Value Hides and pelts:	8,527 \$505,787	(2)	(3)
Cattle— Number Pounds Value	106, 975 5,398, 013 \$1,839,138	62,035 3,457,996 \$531,873	57, 635
Calf— Number Pounds. Value.	37, 137 452, 770 \$265, 807		\$365,080
Sheep- Number	192, 998 3619, 420	125, 534 \$128, 392	88, 285 \$94, 862
All other products, value	\$661,734		1

¹ Not reported separately.
2 Included in "All other products" to avoid disclosing individual operations.

"All other materials" includes the cost of poultry, dressed meat purchased for curing, cottonseed oil, refrigeration, curing materials, seasoning, fuel, rent of power, containers, mill supplies, and freight; and "All other products" includes the value of beef, pickled and other cured, compound lard, casings, and hog and cattle hair.

The industry made a substantial growth in the last census period, as indicated by the increase of 282,135, or 29 per cent, in the total number of animals slaughtered. This was not as rapid as that from 1909 to 1914, when the increase in the number slaughtered was 362,975, or 59.4 per cent. The increase in the cost of animals slaughtered, however, from 1914 to 1919, was \$28,729,029, or 167.3 per cent.

The industry is centered in Detroit, with a production of \$57,648,125, or 96.7 per cent of the entire product of the state.

Leather, tanned, curried, and finished (Table 25).— This table gives for 1919, 1914, and 1909 the quantity and cost of materials used and the quantity and value of the principal products.

The number of cattle hides treated decreased by 439,211, or 25.7 per cent, in 1919 as compared with 1914; and by 161,144, or 11.3 per cent, as compared with 1909. Despite this decrease the total cost of the hides was considerably greater than at previous censuses. All other raw stock, which consisted principally of horsehides, and calf, kip, and sheep skins, showed an increase of 798 per cent for the census period 1914 to 1919. Fuel, rent of power, and all other materials also showed substantial increases for the same period.

Table 25.—Leather, Tanned, Curried, and Finished: 1919, 1914, and 1909.

		· .	
	1919	1914	1909
MATERIALS.	19		
Total cost	\$32,451,798	\$20,982,247	\$12, 120, 971
Cattle hides: Number Cost	1,269,741 \$17,295,185	1,708,952 \$15,807,830	1,430,88 \$8,022,64
All other raw stock, cost	\$6,532,693 \$766,723 \$7,857,197	\$727,628 \$290,913 \$4,155,876	\$1,055,18 \$194,42 \$2,848,71
PRODUCTS. Total value	\$45,800,786	\$25, 503, 573	\$15,331,10
Leather: Sole— Sides. Value. Upper (other than patent), value	1,149,381 \$11,646,441 \$14,873,789	1,871,940 \$12,641,509 \$4,323,597	1,603,51 \$7,326,27 1 \$3,087,86
Upholstery (automobile, furniture, and carriage), value Harness— Sides.	\$4,405,467 239,588	\$1,395,076 403,346	\$5,72 214,87
Value	\$3,285,618 \$4,365,514	\$2,580,218 \$3,493,485	\$1,210,18 \$3,311,40
All other products, value	\$905,385 \$6,318,572	\$451,361 \$618,327	\$225,61 \$164,02

¹ Does not include upper leather made from skins

The total value of products increased in 1919 by \$20,297,213, or 79.6 per cent, as compared with 1914. Upper leather (other than patent), with an increase of \$10,550,192, or 244 per cent, made the greatest gain. Upholstery and harness leather showed greater values in 1919 than 1914, but sole leather showed a lesser value. Both sole and harness leather fell off in production, the former especially, showing a decrease of 722,559 sides, or 38.6 per cent. "All other leather" covers case, bag, and strap, glove, horse, finished splits, bookbinders' leather, etc.

"All other products," consisting of wool, hair, etc., has doubled since 1914, and the amount received for tanning, currying, and finishing for others was more than ten times as great in 1919 as it was in 1914.

Flour-mill and gristmill products (Table 26).—This table presents the quantity and value of the principal kinds of products of flour mills and gristmills for the census years 1919, 1914, and 1909.

Although there was a general decrease in quantities in 1919 for all important products of this industry, as compared with 1914, it was still one of the leading industries in the state. This decrease was probably due to the decrease in acreage and the scarcity of labor for agricultural purposes.

Wheat flour, the product of greatest value in the industry, formed 64.3 per cent of the total value of products in 1919 and 58.6 per cent in 1914.

Table 26.—Flour-Mill and Gristmill Products (Merchant Mills): 1919, 1914, and 1909.

	1919	1914	1909
Products, total value	\$44, 144, 434	\$27,381,474	\$34,860,803
Wheat flour: Barrels. Value.	2,537,386 \$28,366,273	3,058,744 \$16,058,643	3,447,800 \$18,838,591
Rye flour: Barrels. Value Corn meal and corn flour:	137,750 \$1,248,024	74,662 \$377,707	61,963 \$266,698
Barrels. Value. Buckwheat flour:	04,175 \$812,361	131,646 \$461,630	177,189 \$606,706
Pounds. Value. Bran and middlings: Tons Value.	7, 981, 873 \$596, 503	15,773,491 \$447,545	20,161,026 \$547,024
Value. Feed and offal: Tons.	103,752 \$4,548,649 135,199	149, 893 \$3, 208, 041 216, 760	520,810 \$13,970,486
All other cereal products, value	\$8,342,228 \$212,861	\$6,350,166 \$291,053	\$319,937
All other products, value	\$17,535	\$98,699	\$311, 361

Beet sugar (Table 27).—This table shows the quantity of domestic sugar beets used in the production of beet sugar during 1919, 1914, and 1909, and the quantity and value of the different products made from sugar beets.

In 1914 Michigan ranked third in value of products among the states producing beet sugar, being exceeded by California and Colorado while in 1919 its rank was second, being exceeded only by Colorado.

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TABLE 27.—BEET SUGAR: 1919, 1914, AND 1909.

	1919	1914	1909
Beets used, tons	992, 938	862, 053	816,609
Products, total value	\$26, 378, 870	\$ 11, 023, 058	\$10, 476, 876
Sugar: Granulated— Tons. Value. Raw— Tons. Value. Molasses: Gallons. Value.	122, 539 \$23, 887, 805 169 \$12, 505 3, 435, 572	111, 570 \$9, 944, 717 305 \$22, 239 4, 133, 121	103,834 \$9,756,587 551 \$41,404 5,016,748
Pulp, value.	\$504, 445 \$1, 860, 475	\$277, 266 \$778, 836	\$337, 200 \$339, 025
All other products, value	\$ 113,640		\$2,660

Chemicals (Table 28).—This table presents the statistics of products for the chemical industries in 1919. The production includes all products reported by 40 establishments engaged primarily in the manufacture of chemicals, including those of coal-tar origin, and subsidiary chemicals to the value of \$3,194,793 manufactured by establishments included under other industry classifications.

In 1914 there were 36 establishments with products valued at \$13,891,415 and in 1909, 36 establishments with products of \$12,890,000 in value, these figures being comparable with the 40 establishments and the products of the classified industries, valued at \$38,667,887 in 1919. The increase in value of products for the period 1914 to 1919 was at the rate of 201 per cent, and for 1909 to 1914, 8 per cent.

A considerable portion of the production was made with the aid of electricity. The value of the chemicals made by electrochemical or electrometallurgical methods was \$10,284,831, equal to 27.2 per cent of all chemicals for the state, and 14.2 per cent of all electrochemical and electrometallurgical chemicals in the United States.

TABLE 28.—CHEMICALS: 1919.

	1919
Products, total value	\$41,872,200
The classified industries: Chemicals. Coal-tar products. Subsidiary chemical products from other industries.	37, 850, 834 817, 053 3, 204, 313
Acids Sodas, sodium, and compounds. Potash. Bleaching compounds Compressed and liquefied gases Other chomicals	942, 011 22, 131, 154 588, 834 1, 267, 678 1, 527, 722 13, 437, 068
All other products, value	1,977,73

Printing and publishing (Table 29).—This table shows the number and aggregate circulation per issue for all publications reported in Michigan for the census years 1919, 1914, and 1909.

Although the total number of publications decreased during the five-year period 1914 to 1919 there was

an increase of 564,842, or 15.6 per cent, in their aggregate circulation. The increase in the circulation of dailies was 131,668, or 14.8 per cent. Of these dailies, 17 were published in the morning, reporting a circulation of 274,911, and 56, with a circulation of 745,738, were published in the afternoon. These increases in circulation were 12.3 and 15.8 per cent, respectively, over the figures reported for 1914.

During the five years the circulation of weekly newspapers and periodicals increased 310,846, or 9.2

per cent.

The foreign-language publications numbered 39 with an aggregate circulation of 201,509, as compared with 53 in 1914 with a circulation of 169,612. The great increase in circulation was principally in publications printed in Polish. In 1914 there were reported for this language 3 dailies, 1 Sunday, 1 weekly, 1 semiweekly, and I monthly publication, the total circulation being 43,793. In 1919 there were 3 dailies, 1 Sunday, and 4 weeklies with a total circulation of 92,409. Other foreign-language publications were 1 daily and 1 Sunday in German; 1 daily and 1 Sunday in Yiddish; 1 weekly in Croatian; 4 weeklies, 1 triweekly, and 2 monthlies in Dutch; 2 weeklies, 2 triweeklies, 3 monthlies, 1 semimonthly, and 1 quarterly in Finnish; 1 weekly and 1 monthly in Hungarian; 2 weeklies and 1 triweekly in Italian; 1 weekly each in Flemish, Slovenian, Swedish, and English and German; and 1 monthly in Magyar.

Table 29.—Printing and Publishing: 1919, 1914, and 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.		AGGREGAT	TE CIRCULATI	ON PER	
TEMOD OF 155525	1919	1914	1909	1919	1914	1909
Total	630	736	747	4, 192, 771	3, 627, 929	2, 766, 282
Daily Bunday,	73 14	80 14	87 15	1, 020, 649 507, 916	888, 981 342, 163	681, 919 256, 58
Semiweekly Triweekly	6 5	21 7	28 6	6, 854 18, 150	33, 080 12, 803	66, 56 16, 08
Weekly Semimonthly	443 4 72	517 7 84	526 4 73	1, 104, 022 14, 200 1, 464, 830	793, 176 106, 437 1, 428, 889	750, 29 13, 99 927, 60
MonthlyQuarterly ¹	13	6	8	56,150	22, 400	53, 25

¹ Includes in 1919, 2 bimonthlies; in 1914, 1 bimonthly and 1 semiannual; and in 1909, 2 bimonthly and 2 "All other" publications.

Lumber and timber products (Table 30).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. Michigan has been prominent in the lumber industry in the United States for the past 80 years, and was the leading state in the production of lumber in 1869, 1879. and 1889. In 1899 it occupied second place. The

state's rank in production has decreased rapidly, and in 1909 it ranked tenth; in 1914, thirteenth; and in 1919, fourteenth.

Until 1904 the cut consisted principally of white pine. This wood has been largely cut out, and in 1919 60 per cent of the total cut of the state was from hard woods, the principal species being maple. In the production of lumber from this wood the state ranked first. In 1919 the cut from all woods decreased 27.9 per cent compared with that for 1914, and 53.7 per cent

compared with that for 1909.

The lumber cut from the principal species in 1919 was reported as follows: Maple 321,409,000 feet, or 36.7 per cent of the total cut from all species in the state; hemlock 267,824,000 feet, or 30.6 per cent: birch 63,533,000 feet, or 7.3 per cent; white pine 57,501,000 feet, or 6.6 per cent; beech 49,125,000 feet. or 5.6 per cent; basswood 33,532,000 feet, or 3.8 per cent; and elm 30,745,000 feet, or 3.5 per cent. Among other woods sawed into lumber in considerable quantities were oak, larch, and spruce.

TABLE 30.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

		QUANTITY.1	
PRODUCT.	1919	1914	1909
Lumber. M feet b. m. Lath. thousands. Shingles thousands.	875, 891 51, 469 144, 173	1, 214, 435 (2) (2)	1, 889, 724 218, 308 891, 649

 $^{^{1}}$ The output of custom mills is included in 1919 and 1909, but not in 1914, 2 Not reported.

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

TABLE 31.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OF	AMOUNT.	Percent ofin-
	1919	1914	crease,1 1914-1919
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Paid for contract work. Rent and taxes. Cost of materials. Amount received for work done.	4,913 7,151 85,421,984 4,725,134 935,955 3,789,179 26,372 210,054	234 5,637 270 465 4,902 6,457 \$3,172,343 2,619,204 458,146 6,101,118 6,201,118 928,502 5,115,286	10,7 70.9 80.4 104.3 75.3 3,807.0 38.2 136.1

¹ A minus sign (-) denotes decrease.

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

TABLE 32.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments Persons engaged. Proprietors and firm members Salaried employees. Wage earners (average number) Primary horsepower Capital. Salaries and wages. Salaries Wages. Paid for contract work. Rent and taxes Cost of materials. Amount received for work done.	\$1, 240, 651 956, 798 164, 490 792, 308 10, 328 83, 311 445, 540

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

the work performed, and that for custom gristmills the selling value of the grain milled.

TABLE 33.—Custom Sawmills: 1919 and 1909.

•	NUMBER O	R AMOUNT.	Per
	1919	1909	of in- crease,1 1909- 1919.
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Rent and taxes. Cost of materials. Amount received for work done.	199 128 71 2,576 \$148,240 44,986 44,986	197 550 271 3 3 4,890 4,832,255 103,029 370 102,650 2,044 4,051 4,051 236,200	-47. 7 -65. 7 -52. 8 -76. 8 -47. 4 -54. 0 -50. 3 -56. 2 -19. 3 113. 9 -60. 1

1 A minus sign (-) denotes decrease.

TABLE 34.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OF	AMOUNT.	Per
	1919	1909	of in- crease,1 1909- 1919.
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Ront and taxes. Cost of materials 2. Value of products 2.	313 183 24 106 6,898 \$1,588,117 151,911 28,159 123,752 23,391	208 357 256 8 93 7,172 \$722,877 39,798 3,260 36,538 6,947 1,792,317 2,140,461	-11. 1 -12. 3 -28. 5 -3. 8 119. 7 281. 7 763. 8 238. 7 236. 7 152. 4 147. 7

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

GENERAL TABLES.

Table 35 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for selected industries in the state and in the cities of Detroit, Grand Rapids, and Saginaw; and for Flint and Lansing and each of the cities in the state having from 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined.

Table 36 presents, for 1919, for the state as a whole and for each city having a population of more than 50,000, 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, for which figures can be given without disclosing the operations of individual establishments.

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

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	(aver-	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	estab-	Wage earners (aver- age	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
MADORINE MAD OIL	year.	lish- ments	age num- ber).	power.		sed in th	ousands		year.	lish- ments	num- ber).	power.	Express	sed in the	ousands
		Т	HE ST	ATE-Al	L IND	USTRI	ES COMB	INED AND SELECTEI	INI	OUSTE	IES.				
All industries	1919 1914 1909	8,305 8,724 9,159	471, 242 271, 090 231, 499	1,202,128 730,383 598,288	639,708 182,252 118,968	1,919,243 592,801 368,612	3,466,188 1,086,162 685,109	Coffins, burial cases, and undertakers' goods.	1919 1914 1909	24 23 18	416 540 439	1,087 1,077 711	379 315 208	1,340 648 493	2,522 1,355 1,085
Agricultural implements	1919 1914 1909	23 30 32	2,708 2,143 2,359	6,197 5,941 5,195	3,003 1,456 1,261	5,048 2,640 2,890	11,091 7,731 9,273	Confectionery and ice cream.2	1919 1914	184 124	1,746 1,187	3,738 2,774	1,462 555	7, 168 2, 858	12,627 4,843
Artificial stone products	1919 1914 1909	191 217 191	480 483 514	834 1,258 634	612 306 255	980 400 349	2,434 1,060 908	Cooperage and wooden goods, not elsowhere specified.	1919 1914 1909	53 82 101	1,067 1,967 2,642	4,553 7,316 8,500	765 912 1,016	1,970 2,063 2,004	3,880 3,839 3,989
Automobiles, including bodies and parts.	1919 1914 1909	271 205 113	175,985 67,538 25,444		272,989	959,767 219,215 53,882	1,620,383 398,289 96,651	Copper, tin, and sheet- iron products.3	1919 1914 1909	142 162 152	2,797 2,397 2,386	2,781 2,789 1,875	3,270 1,437 1,122	8,230 2,807 2,545	16,058 5,650 4,929
Awnings, tents, and sails.	1919 1914	22 24 17	190 154 129	117 45 44	213 104 67	920 261 199	1,645 502 349	Corsets	1919 1914 1909	12 16 14	1,529 2,149 2,461	724 959 734	1,031 873 835	2,913 1,899 1,877	7, 298 4, 982 4, 368
Baskets, and rattan and willow ware.	1909 1919 1914	9	296 238	263 574	216 113	198 285	539 537	Cutlery and tools, not elsewhere specified.	1919 1914 1909	94 28 37	3,352 453 668	3,662 1,194 1,379	4,810 320 307	3,597 387 384	12,078 965 1,124
Boots and shoes	1909 1919 1914	18 15 24	373 1,120 2,035	900 660 1,596	921 932	4,184 3,181	480 6,046 5,357 5,256	Electrical machinery, apparatus, and supplies.	1919 1914 1909	54 35 40	4,190 1,144 1,218	5,659 1,584 1,355	4,685 656 494	9,035 1,740 1,030	25,020 3,416 2,327
Boxes, paper and other, not elsewhere specified.	1909 1919 1914		2,455 2,336 1,461	5,226 5,935	936 2,161 748	3,341 5,286 2,131	10,935 3,748 2,653	Flour-mill and gristmill products.	1919 1914 1909	345 427 520	1,128 1,370 1,530	29, 928 35, 321 38, 991	1,257 860 806	38, 185 23, 299 29, 359	44,144 27,381 34,861
Brass, bronze, and copper products.	1909 1919 1914	19 80 64	1,326 10,306 4,731	1,564 27,912 14,251	14,579 3,030 2,450	38,849 11,473 8,993	62,708 16,869	Food preparations, not elsewhere specified.	1919 1914 1909	37 56 49	2,483 1,683 1,303	12, 157 9, 760 8, 983	3,108 1,110 724	18,813 7,039 4,750	35,702 16,000 11,492
Bread and other bakery products.	1909 1919 1914	944 922	4,771 5,088 4,014	6,339 3,479	5,895 2,459	28,116 9,308	13,890 44,923 16,000	Foundry and machine- shop products.	1919 1914 1909	975 705 654	64,623 26,497 21,649	134, 422 52, 085 34, 152	88,511 18,992 12,344	150, 126 27, 120 18, 711	324,354 64,576 45,396
Brick, tile, pottery, and other clay products. ¹	1909	816	2,637 1,666 2,194	3,479 1,953 7,741 11,505	1,444 2,179 1,245	6,671 1,579 1,058	11,082 5,983 3,174	Fur goods	1919 1914 1909	31 35 31	426 380 619	117 503 232	412 183 267	1,282 818 984	2,44 1,68 2,28
Butter, cheese, and con-	1909	131 318	1,771 2,194 1,367	8,772 9,136	2,483	55,906	2,293 64,787	Furniture and refrigera- tors.	1919 1914 1909	183 202 202	20, 151 16, 267 16, 610	32,415 28,204 27,485	21,236 9,488 8,300	31,516 14,361 11,718	76,210 33,85 28,64
densed milk. Canning and preserving	1914 1909 1919	435 52	1,073 2,109	6,659 4,776 4,185	863 554 1,135	18,463 12,377 7,971	21,550 14,287 11,172	Gas and electric fixtures and lamps and reflec-	1919 1914	21 13	1,042 597	1,847 993	1,519 445	2,910 936	6,98 2,09 1,54
fruits and vegetables. Carriages and wagons and	1914 1909 1919	72	1, 687 1, 311 367	3,712 2,216 1,134	583 391 389	2,640 1,442 714	4,422 2,368 1,523	das, illuminating and heating.	1909 1919 1914	59 59	2,846 2,349	386 13,593 4,935	3,965 1,584 1,096	8,270 3,356	17,99 10,44
materials. Carriages and sleds, chil-	1914 1909	212	4, 034	6,362	982 2,240 737	1,928 5,262 1,397	3,775 10,159	Ice, manufactured	1909 1919 1914	18	1,771 742 443	8, 137 4, 433	1,096 1,186 389	2,129 717 128	6,74 2,82 76
dren's.	1914 1909	8 9	402 555	598 484	224 214	257	3,410 970 682 3,828	Iron and steel, blast fur-	1909	5 11	87 1,101	1,959 6,367	1,719	40 10,298	13,53 5,45
Cars and general shop con struction and repairs by electric - railroad com panies.	- 1914 - 1909	18	885 574	413 1,704	629 318	632 949	1,326 1,301	Iron and steel, steel works	1914 1909 1919	11 7	991 1,016 1,455	17, 403 9, 142	632 2,471	4,224 2,902 871	5,82
Cars and general shop con struction and repairs by steam-railroad com- panies.	- 1919 7 1914 - 1909	1 26	5, 803 5, 401	5,742	9,862 3,905 3,500	1	6,838	II Iron and steet, lorgings.	1914 1909 1919	8	718 1,183 1,596			1,598	2,67
Cement	1919 1914 1909	4 11	1,340	35,470 24,158 21,773	1,739 975 826	2,408	9,643 4,529 2,915	not made in steel works or rolling mills.	1914 1909	11 4	552 307		182	240	1,49
Chemicals	1919 1914 1909	4 36	4,509	74,943 45,944 26,594	8,950 3,405 2,012	6,373	37,851 13,891 12,890	Knit goods	. 1919 1914 1909	34	3,170 2,714 2,545	3,373	769		5, 23 4, 00
Clothing, men's, including shirts.	- 1919 1914 1909	4 39	2,502	1,102 1,075 1,151	1,094	6,632 2,996 3,389	10.916	Leather goods 5	. 1919 1914 1909	103	625 675 834	462	379	2,309 1,413 1,458	2,4
Clothing, women's	191 191 190	4 32	1,672	552	750 718	2,273 1,194	3,923 2,661	ii .	1919 1914 1909	l 23	3, 464 2, 773 2, 291	12, 243 6, 787 6, 719	4,163 1,739 1,133	32, 452 20, 982 12, 121	45, 8 25, 5 15, 3
Coffee, roasting and grinding.	l- 191 191 190	4 16	99	461 205	50	2,133 1,316	2,514 1,618	Liquors, malt	. 1919 1914 1909	70	779	6,658	1,052 1,703	4,328	5,2 15,0 9,8

¹ Includes "sand-lime brick" in 1919 and 1914.
2 Includes "chewing gum" in 1914.
3 Includes "stamped ware, not elsewhere specified" and "tinware, not elsewhere specified."
4 Includes "automobile repairing": "engines, steam, gas, and water": "gas machines and gas and water meters"; "hardware"; "iron and steel, tempering and welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power": "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks"; "structural fromwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years; and "hardware, saddlery" in 1919 and 1914.
5 Includes "saddlery and harness" and "trunks and valises."

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

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	age	Primary horse-	Wages,	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	age .	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
INDUSTRAT	year.	lish- ments	num- ber).	power.	Expres	sed in tl of dollar	ousands s.	racio de Cada ya Agintari	year.	lish- ments	num- ber).	power.	Expres	ssed in th of dollar	ousands s
	7 12	THE	STATI	E-ALL	INDUST	PRIES	COMBINE	ED AND SELECTED IN	DUST	rries	-Conti	ued.			
Lumber and timber prod- ucts. ¹	1919 1914 1909	633 748 1,180	21, 979 28, 527 35, 627	114,319 112,584 133,789	22,021 15,195 16,298	43,313 29,356 20,042	90, 607 58, 523 61, 514	Slaughtering and meat packing,	1919 1914 1909	53 36 45	1, 871 1, 181 902	5, 522 3, 275 3, 404	2,503 815 481	52,088 19,283 11,666	62, 518 21, 267 13, 435
Marble and stone work	1919 1914 1909	103 111 118	365 461 551	2,098 1,644 1,570	547 390 393	1,021 637 592	2,580 1,561 1,504	Springs, steel, car and car- riage, not made in steel works or rolling mills.	1919 1914 1909	6 6 5	1,870 638 588	1,786 1,000 908	2, 242 472 309	5,426 1,183 558	8,472 2,175 1,308
Mattresses and spring beds, not elsewhere specified.	1919 1914 1909	16 23 14	171 278 308	487 517 508	196 162 140	785 519 407	1,369 877 689	Stoves and furnaces, in- cluding gas and oil stoves.	1919 1914 1909	28 27 33	5, 241 4, 074 4, 482	9,382 5,916 5,910	6,959 2,988 2,832	9,281 3,715 2,816	27,986 10,757 9,123
Mineral and soda waters.	1919 1914 1909	131 120 97	602 391 252	1,921 814 506	772 246 138	2,865 819 368	5,467 1,696 910	Sugar, beet	1919 1914 1909	16 10 11	1,836 1,326 1,460	20,550 10,306 8,854	2,765 932 910	16,682 6,244 6,228	26,379 11,023 10,477
Musical instruments, pianos.	1919 1914 1909	8 12 14	1,122 925 1,611	1,767 1,481 2,363	1,170 587 983	2,823 1,128 1,882	5,397 2,416 3,944	Tobacco manufactures	1919 1914 1909	363 626 729	6,272 9,075 7,870	1,184 1,343 937	4,915 3,779 3,076	13,213 8,963 7,208	27,693 20,667 16,179
Oil, essential	1919 1914 1909	29 53 23	62 38 54	715 619 365	57 17 17	669 226 415	951 492 486	Toys and games	1919 1914 1909	12 7 8	361 251 279	632 198 994	362 149 135	303 246 174	1,010 529 432
Paper and wood pulp	1919 1914 1909	39 37 32	9,561 6,051 4,327	95,729 62,528 48,700	11,177 3,559 2,142	40,353 14,545 9,025	06,300 22,050 13,922	Wall plaster and compo- sition flooring.	1919 1914 1909	10 13 16	585 631 746	4,924 4,295 3,029	726 421 270	1,491 743 412	3,591 2,074 1,421
Paper goods, not else- where specified.2	1919 1914 1909	14 14 18	556 750 1,181	093 2,009 2,580	577 402 483	2,513 2,252 1,953	4,203 3,588 3,551	Window shades and fix- tures.	1919 1914 1909	5 8 7	766 702 686	1,057 1,149 1,236	633 205 261	865 983 807	2,864 1,755 1,296
Patent medicines and compounds and drug- gists' preparations. ³	1919 1914 1909	107 142 159	4,751 3,369 3,240	2,642 2,694 2,270	4,151 1,994 1,509	14,690 7,003 • 4,941	34, 945 16, 434 13, 475	Wirework, not else- where specified.	1919 1914 1909	38 33 37	2,516 1,314 909	3,822 2,269 1,900	2,721 788 428	10,803 3,918 3,446	17,065 5,891 5,285
Printing and publishing 4.	1919 1914 1909	1,045 1,113 1,045	7,880 8,166 7,219	11,587 13,033 7,651	9,590 5,602 4,000	15,536 7,498 4,935	46, 829 24, 953 17, 348	Wood distillation	1919 1914 1909	16 10 12	1,586 645 806	5,985 2,644 5,012	1,988 415 504	5,798 1,708 1,155	10,651 2,678 2,399
Salt	1919 1914 1909	12 15 27	2,003 1,434 1,363	10,321 8,316 6,628	2,539 991 745	6,339 2,067 1,643	14,054 4,421 3,653	Wood, turned and carved.	1919 1914 1909	34 45 58	622 576 1,137	1,997 2,901 4,695	"615 318 548	837 339 634	1,998 950 1,708
Scales and balances	1919 1914 1909	3 8 4	420 276 228	380 298 310	516 200 137	513 208 229	2,340 612 524	Woolen goods	1919 1914 1909	9 9 15	812 477 554	1,502 1,311 1,900	719 230 235	2,881 798 863	4,572 1,215 1,571
Shipbuilding, including boat building.	1919 1914 1909	33 62 91	16,541 1,261 2,344	31, 153 7, 565 6, 485	28, 921 1, 040 1, 380	36,121 1,259 2,490	85,155 2,823 5,034	All other industries	1919 1914 1909	857 795 874	35,311 21,207 21,672	91,119 62,363 87,710	45,325 13,681 10,912	134, 243 60, 747 56, 914	288, 080 104, 104 92, 648
Show cases	1919 1914 1909	6 6 11	261 410 823	685 845 1,403	305 272 459	482 463 706	1,158 1,035 1,806	The state of the s	1000	(,,1	21,012	U(3110	10,612	03,814	02,015
CITI	l	l						USTRIES COMBINED A	ND S	ELEC	TED II	NDUSTR	IES.		* 1,14
DETROIT. All industries.	1919 1914	2,176 2,030	167, 016 99, 603	308, 250 176, 808	245, 434 69, 447 43, 007	055, 913 222 249	1,234,520 400,348	DETROIT—Contd. Bread and other bakery	1919	284	2.338	3, 258	3, 121	13, 542	22.631
Artificial stone products	1909 1919 1914	2,036 13 16	81,011 98 77	114,190 119 .98	43, 007 157 49	130, 218 207 50	252, 939 526 151	products,	1914 1909 1919	275 265 7	2,338 1,850 1,108	3,258 1,827 1,112 619	1,200 638 251	4,303 2,897 235	22, 631 7, 489 4, 826 795
Automobiles, including bodies and parts.	1909 1919 1914	136 122	104 65,090 33,439	90,141 39,458 14,666	48	51 328, 733 101, 382	550, 228 164, 076	Brick, tile, pottery, and other clay products.	1914 1909 1919	9 13 10	160 220 199	864 625 1,395	110 129 321	95 90 6,758	269 329 7,777
Awnings, tents, and sails.	1909 1919 1914	10	15, 675 141 114	14,666 87 22	9,621 174 80	31, 363 761 172	104,076 59,536 1,380 336	Chemicals	1914 1909 1919	5 3 10	56 12 1,708	180 91 20,339	40 4 2,756	896 57 3,501	i, 107 72 11, 355
Boots and shoes	1909 1919 1914	8 7 4	100 164	20 129	54 180	133 552	238) 932		1914 1909	7 5	1, 489 1, 198 1, 251	13, 899 9, 564 840	1,106 769	1,633 1,938	3,875 5,012
Boxes, paper and other, not elsewhere specified.	1909	4 6 8 8 11	1,327 289	531 362 156	430 491 221	1,014 1,702 436	2, 255 2, 744 987	Clothing, men's, including shirts. Clothing, women's	1919 1914 1909 1919	21 20 22 13	1, 251 1, 682 2, 786	812 951 96	1,037 765 963 354	4, 531 2, 273 2, 352 827	7,301 3,897 4,761 1,559
Brass, bronze, and copper products.	1914 1909 1919	7 50	352 366 8,664	193 142 24,866	144 115 12,429	189 148 29, 292	491 382 49, 240	Coffee, roasting and grind-	1914 1909 1919	19 27 10	1,070 921 61	229 154 390	484 357 57	505 661 1,698	1,406 1,494 2,004
	1914 1909	38 37	3,880 4,032	13,074 10,651	12,429 2,485 2,049	10, 296 8 273	14,630	ing.	1914 1909	5 6	40 41	143 186	29 24	701 452	905

Includes "boxes, wooden packing, except eigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and "lackdes "envelopes."

Includes "perturnery and cosmetics."

Includes "perturnery and cosmetics."

Includes "porturnery and cosmetics."

Includes "hookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

Includes "sausage, not made in slaughtering and ment-packing establishments,"

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

						1		1	1	1					
INDUSTRY AND CITY.	Cen-	Num- ber of estab-		Primary horse-	Wages.	Cost of mate- rials.	Value of products.	INDUSTRY AND CITY.	Cen- sus year.	estab-		Primary horse-	Wages.	Cost of materials.	Value of products.
	year.	lish- ments	mann-	power.	Expre	ssed in tl of dollar	nousands s.	and the second of the second o	year.	ments	73177m	power.	Expres	ssed in th of dollars	ousands
CITIES O	F 50,0	00 INI	ABITA	NTS OR	MORI	E—ALL	INDUST	RIES COMBINED AND S	SELE(TED	INDUS	TRIES.			
DETROIT—Contd. Coffins, burial cases, and undertakers' goods.	1919 1914 1909	8 7 5	105 102 95	189 170 148	123 .67 56	336 128 117	775 275 208	FLINT All industries.6	1919 1914 1909	107 94 104	24,603 8,722 7,088	33,610 10,576 8,240	38,093 7,235 4,429	172,824 34,333 13,971	275,780 53,375 24,118
Copper, tin, and sheet- iron products.1	1919 1914 1909	60 68 72	1,419 1,957 1,932	1,473 2,106 1,453	1,639 1,163 851	4,346 2,108 1,932	9,017 4,369 3,534	GRAND RAPIDS All industries.	1919 1914 1909	611 594 524	23,548 17,427 17,590	44,048 30,393	26,170 10,296	51, 162 23, 995 19, 736	109,135 49,792 42,231
Electrical machinery, apparatus, and supplies.	1919 1914 1909	29 20 23	1,894 591 541	3, 084 1, 097 575	2,094 334 226	4,584 1,223 493	12,970 2,240 1,148	Automobiles, including bodies and parts.	1919 1914 1909	22 8 3	1,232 87 86	27,676 2,131 94 110	9,217 1,750 61	3,251 114	6,911 250 389
Foundry and machine- shop products ²	1919 1914 1909	286 221 215	25, 563 11, 250 8, 694	47, 566 20, 210 10, 336	38,459 8,553 4,828	50, 512 12, 351 7, 614	123,665 29,465 18,243	Brass and bronze prod- ucts.	1919 1914 1909	4 7 5	310 432 405	478 560	58 329 257	147 325 281	911
Fur goods	1919 1914 1909	17 18 19	310 207 371	46 190 24	329 155 181	1,064 626 707	2,032 1,102 1,738	Bread and other bakery products.	1919 1914 1909	74 67 66	588 441 361	401 424 244 185	209 442 227 185	243 2,228 943	707 680 3,605 1,682
Iron and steel forgings, not made in steel works or rolling mills. Jewelry.	1919 1914 1919	6 7 19	638 399 109	2, 979 1, 268 72	979 329 152	1, 219 583 418	2,416 1,012 938	Butter	1919 1914 1909	5 6 4	57 27 16	234 126 134	70 19 12	872 1,434 621	1,476 1,647 747 249
Knit goods	1914 1909	18 9	133 92	57 28 316	101 68 194	154 43 620	386 204 1,103	Clothing, men's, includ- ing shirts.	1919 1914 1909	6 8 6	70 199 239	26 45 70	66 66	216 188 192	40 <u>4</u> 397
in the second of	1914	9	236 280 334	245 214	102 91	365 326	615 559	Coffins, burial cases, and undertakers' goods.	1919 1914	6 4	78 58	238 200	84 67 37	220 282 137	513 537 305
Leather goods 3	1919 1914 1909	17 32 22	169 239 403	127 228 530	158 145 211	699 534 819	1,137 913 1,396	Confectionery and ice	1919 1914 1909	23 12 6	287 203	426 326	183 95 71	1,285 406	2,345 644
Leather, tanned, curried, and finished.	1914	3 3	349 301	1,072 765	603 203	6, 212 1, 282	8,624 1,715	Flour-mill and gristmill products.	1919 1914	9	193 124 107	115 1,937 1,537	143	4,952 2,659	5,454 3,142
Liquors, malt	1919 1914 1909	19 18	504 1,165 646	3,905 6,088 3,886	755 1,020 495	1,424 2,523 1,185	3,763 9,410 4,942	Foundry and machine-	1909 1919	8 66	2,704 1,532	1,510 4,940	78 72 3,131	2,652 8,045 4,011	3,781 10,013
Lumber, planing - mill products, not including planing mills connected with sawmills.	1919 1914 1909	32 34 46	1,232 1,410 1,607	5,895 5,503 3,496	1,754 989 809	5,717 3,357 3,414	9,114 5,567 5,346	shop products.7 Knit goods	1914 1909 1919	61 49 4	1,532 526	2,831 2,107 290	989 825 440	1,086 1,134 1,270	3,023 2,740 2,479 1,064
Marble and stone work	1919 1914 1909	22 19 19	205 202 194	1,309 650 560	316 178 131	434 203 172	1,186 522 413	Leather, tanned, curried,	1914 1909 1919	4 4	422 216 208	251 109 963	148 74 220	565 393 945	647
Mineral and soda waters	1919 1914 1909	28 19 13	282 166 81	803 148 85	406 117 45	1,059 240 113	2, 384 539 260	and finished.	1914 1909	3	177 98	620 437	115 56	1,031 545	1,885 1,394 705
Models and patterns, not including paper patterns	1919	29 15 17	693 201 188	438 149 95	1,484 186 125	312 43 24	2,703 306 238	Liquors, malt	1919 1914 1909	3 3 3	77 174 136	936 1,328 725	96 123 94	143 315 168	490 1,261 912
Photo-engraving	1	12 9 7	144 104 153	117 61 116	271 105 116	101 35 60	851 282 351	Lumber and timber prod- ucts.8	1919 1914 1909	11 16 20	438 539 594	2,530 2,469 2,504	466 345 343	1,133 1,240 907	2,269 1,925 1,097
Pickles, preserves, and sauces.		12 13 9	111 460 408	100 417 549	112 198 157	486 1,379 855	893 1,974 1,568	Printing and publishing 4.	1919 1914 1909	81 84 68	906 942 832	1,302 1,145 781	1,145 673 489	1,404 888 587	4,651 2,886 2,057
Printing and publishing .	1919 1914 1909	281 265 224	3,806 3,472 2,519	5,736 7,098 2,602	5,202 2,629 1,570	10,138 4,044 2,044	27,940 13,168 7,291	Tobacco, cigars	1919 1914	25 32 36	678 667	27 4	507 261 188	793 712	1,983 1,293 725
Slaughtering and meat packing.5	1919 1914 1909	20 13 29	1,707 1,102 811	4,678 3,047 3,092	2,291 761 433	49,502 18,489 11,221	59,341 20,321 12,850	Wood, turned and carved.	1909 1919 1914	10 10	458 116 47	288 204	188 138 31	302 99 17	342 77 184
Tobacco, cigars and cigarettes.	1919 1914 1909	73 143 187	3,421 5,352 4,354	123 156 99	2,821 2,165 1,586	5,557 3,811 2,730	11,606 8,504 6,490	All other industries	1909	258	128 15,083	246	65 16,977	57 27,419	
Wirework, not elsewhere specified.	1919 1914 1909	17 10 12	790 206 207	1,104 177 175	994 108 81	1,357 166 127	2,930 424 357		1914 1909	260 235	11,373 12,178	26,878 18,403 18,237	6,771 6,392	12,795 10,423	63,209 28,995 24,782
All other industries	1919 1914 1909	612 533 457	42,790 25,130 29,491	84,683 55,648 47,578	59, 149 16, 544 15, 694	118,683 44,856 46,105	292, 417 96, 292 92, 287	LANSINGAll industries.6	1919 1914 1909	147 180 169	12,349 6,231 5,285	23,602 12,614 8,720	13,957 4,373 2,707	64,981 13,887 8,802	104,722 26,984 16,567
2 Includes Contomobile	ure, Ile	ic eisem	mere spe	cined," in	all year	s and "t	inware, no	t elsewhere specified," in 191	4 and	1909					

¹ Includes "stamped ware, not elsewhere specified," in all years and "timware, not elsewhere specified," in 1914 and 1909.

2 Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "iron and steel, tempering and welding," "machine tools"; "plumbers' supplies, and "gas machines and gas and water meters"; and "numps, steam and chet-power" in 1914 and 1909.

3 Includes "trunks and valises," in all years, and "saddlery and harness" in 1914 and 1909.

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

5 Includes "sausage, not made in slaughtering and meat-packing establishments."

6 Comparative statistics by industries for 1914 and 1909 not available.

7 Includes "automobile repairing"; "hardware"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years; "gas machines and gas and water meters," Includes "umber, planing-mill products, not including planing mills connected with sawmills," and "window and door screens and weather strips" in all years; and "boxes, wooden packing, except cigar boxes" in 1919.

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

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earners (aver- age	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earners (aver- age	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
INDORTET TOTAL	year.	lish- ments	num- ber).	power.	Expres	sed in th of dollar	nousands s.		year.	lish- ments	num- ber).	power.	Expres	sed in th of dollars	ousands
CITIES O	F 50,0	1NI 000	IABIT/	ANTS OF	R MORI	E—ALL	INDUSTI	RIES COMBINED AND S	ELE	CTED	INDUS	TRIES_	Continue	ed.	
SAGINAWAll industries.	1919 1914 1909	208 241 202	9,472 6,342 5,368	31,402 15,959 11,867	9,963 3,671 2,750	21,316 10,656 7,634	43,146 19,009 14,192	SAGINAW—Contd. Liquors, malt	1919 1914 1909	3 5 5	70 84 74	246 808 170	47 71 58	80 125 1 1 0	100 490 303
Bread and other bakery products.	1919 1914 1909	18 18 9	240 149 83	291 135 76	170 90 42	914 378 223	1,480 602 328	Lumber and timber prod- ucts.2	1919 1914 1909	14 11 12	496 652 696	4,692 4,162 2,682	400 367 335	1,676 1,868 1,629	2,886 2,503 2,404
Confectionery and ice cream.	1919 1914	7 7	29 51	107 39	27 21	185 116	310 170	Patent medicines and compounds.	1919 1914	4	12 6	21 28	14 5	58 37	113 61
Copper, tin, and sheet- iron work.	1919 1914 1909	10 14 3	24 42 44	18 15 41	24 29 40	59 51 76	118 120 154	Printing and publishing 3.	1919 1914 1909	19 22 22	148 150 164	327 316 411	159 120 100	299 207 127	872 542 428
Foundry and machine- shop products.	1919 1914 1909	28 18 23	3,356 792 698	15,664 2,082 1,674	3,771 565 432	7,019 932 788	15,901 2,265 1,838	All other industries	1919 1914 1909	105 142 128	5,097 4,407 3,609	10,036 8,374 6,813	5,351 2,403 1,743	11,026 6,942 4,681	21,300 12,247 8,647
			CITI	S OF 10	,000 TO	50,000 17	ЧНАВІТА	NTS—ALL INDUSTRIE	S CON	BINE	D.		4.		
ADRIAN	1919 1914 1909		1,870 1,256 1,059	3,317 2,840 3,211	1,714 698 540	10,153 3,783 4,150	14, 549 5, 442 6, 085	Jackson	1919 1914 1909	156 147 168	9,620 4,906 4,788	18,744 9,740 6,355	10,899 3,263 2,487	29, 989 9, 529 8, 156	49,518 16,810 13,984
ALPENA	1919 1914 1909		1,372 1,494 1,432	23,318 11,537 10,670	1,528 895 711	4,887 2,398 2,301	9, 356 4, 102 3, 964	Kalamazoo	1919 1914 1909	185 213 193	7,629 5,525 6,272	26,147 19,548 14,449	8,162 3,284 3,149	24,236 10,947 9,505	46, 258 20, 214 17, 904
ANN ARBOR	1919 1914 1909	75	1,612 842 573	3,629 2,376 1,458	2,102 516 287	5,377 1,302 1,010	9,794 2,603 1,866	MARQUETTE	1919 1914 1909	34 34 35	1,415 589 509	0,138 2,156 1,575	1,593 378 313	4,665 678 565	7,210 1,395 1,278
BATTLE CREEK	1919 1914 1909	135	6,680 4,599 4,175	22,432 17,049 14,923	8,668 3,191 2,354	27,989 8,158 7,068	56, 140 23, 248 20, 174	Muskegon	1919 1914 1909	141 103 101	9,716 4,646 4,522	24,026 12,499 10,436	10,853 2,641 2,107	25,676 5,317 4,938	55, 969 11, 148 9, 648
BAY CITY	1919 1914 1909	142	5,057 3,771 4,737	14,540 15,911 17,872	5,393 2,129 2,118	15,262 6,403 5,647	28, 215 11, 119 10, 294	Owosso	1919 1914	40 45	1,781 1,231	4,220 4,266	2,221 724	5,209 1,851	9, 949 3, 469
BENTON HARBOR	1919 1914		2,328 1,285	3, 374 2, 245	2,563 723	4,632 1,210	11, 345 3, 022	PONTIAC	1919 1914 1909	78 46 42	7,682 2,409 1,739	12,841 3,111 2,854	10,881 2,010 1,087	66,786 10,449 3,241	104,990 15,102 5,894
ESCANABA	1919 1914 1909	45	842 777 720	2,201 2,591 1,416	876 469 405	1,153 636 364	3,018 1,507 1,074	PORT HURON	1919 1914 1909	83 89 82	2,231 1,296 1,580	5,884 4,400 3,130	2,482 735 791	4,931 2,227 1,950	9,546 4,090 3,588
HOLLAND	1919 1914 1909	61	2,748 2,165 2,162	4,937 3,696 3,446	2,709 1,162 1,069	10, 225 5, 843 3, 478	17, 711 8, 684 5, 802	SAULT STE, MARIE	1919 1914 1909	26 44 46	1,248 938 825	5,598 2,326 2,949	1,533 621 432	6,760 2,352 2,441	10,700 3,82 3,72
Ironwood	1919 1914 1909	24	399 516 201	725 641 521	587 305 88	554 414 201	1, 381 793 377	TRAVERSE CITY	1919 1914 1909	56 60 61	960 956 1,220	3,131 4,553 4,231	847 499 444	2,282 1,087 1,183	4, 100 2, 251 2, 289
ISHPEMING	. 1919 1914 1909	19	107 79 66	370 230 73	124 46 37	483 136 52	1,007 229 132								

¹ includes "automobile repairing"; engines, steam, gas, and water"; "Iron and steel, welding"; "machine tools"; and "structural ironwork, not made in steel works or rolling mills.

1 includes "lumber, planing-mill products, not including planing mills connected with sawmills," in all years; and "window and door screens and weather strips" in 1919.

1 includes "bookbinding and blank-book making" in 1919 and 1909 and "engraving, steel and copper plate, including plate printing," in 1919.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

	an agency of the second se	PERSC	NS EN	SAGED 1	N THE I	NDUSTRY.		WAG NEARE	E EARNE ST REPRI	RS DEC	. 15, 01 FIVE D.	R AY.	
mts.		Sala- ried	Clerk	s, etc.		Wage earne			16 and	l over.	Unde	r 16.	
industry and city. loginging is administrative to administrative	pro- prie- tors and firm mem- bers.	offi- cers, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.	Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	Capital.

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

	TH	E ST.	A'TE-A	LL IN	DOSTI	KIES C	OMP	1,1510 21.	ND SPECI.			·-··			1	
1	All industries	8, 305	549, 069	6,762	20, 402	31, 258	19, 405	471, 242	No 522, 876	Ja 421, 493	(3)	(8)	(8)	(3)	(3)	Dollars. 2,340,954,312
2 3 4 5 6 7 8 9	Agricultural implements	6 9 191 203 68 259	3, 259 328 23 790 54, 905 142, 976 1, 454 289 25	8 .7 8 218 91 4 322 20 5	138 16 2 51 1,696 3,084 48 25 3	273 .6 2 25 2,672 8,120 50 33	132 2 1 16 1,398 4,831 66 21 2	2,708 297 10 480 49,048 126,937 968 190 15	Ap 3,113 Se 363 Jy 1 11 Se 676 No 61,438 De 145,241 Au 1,064 Jy 248 Ja 25	Se 2,110 Ja 201 Ja 8 Ja 226 Ja 36,649 Ja 99,563 Ja 774 Fe 135 Je 9	2,727 405 13 608 60,175 145,578 1,047 180 12	2,665 395 12 607 57,016 140,810 1,032 90 2	61 10 1 1 3,107 4,590 11 81 10	52 178 4		14, 405, 102 700, 683 31, 041 1, 693, 206 186, 318, 075 806, 195, 893 2, 904, 986 626, 959 127, 632
11 12 13	Bags, other than paper, not includ- ing bags made in textile mills. Baskets, and rattan and willow ware. Belting, leather. Bookbinding and blank-book mak-	9 3 24	326 141 687	9 3 19	10 9 43	8 7 81	3 9 62	296 113 482	My 341 Au 135 De 556	Ja 103 Je 98 Je 445	327 133 557	232 116 268	95 17 279	8	2	335, 133 1, 088, 702 1, 422, 432
14 15 16 17	ing. Boot and shoe findings Boots and shoes Boxes, cigar Boxes, paper and other, not else-	22	15 1,314 326 2,521	6 6 4 10	1 60 13 - 90	78 3 41	50 5 44	1,120 301 2,336	Oc 4 13 De 1,192 De 328	Ap 3 Ja 1,061 Ja 262	1, 193 327 2, 448	10 663 78 752	503 246 1,668	18 3 8	20	41,009 2,871,813 239,910 6,511,322
18 19 20	where specified. Shipping containers All other Boxes, wooden packing, except cigar	9 13 46	1,876 645 1,650	10 44	60 30 78	30 11 20	31 13 27	1,755 581 1,481	No 1,811 No 704 Au 1,670	Ja 1,700 Je 500 Mh 1,285	11	610 142 1,540	1, 177 491 180	1 7 21	5 15	5,761,743 749,579 3,727,416
21 22 23 24 25 26	Brass, bronze, and copper products. Brass and bronze products. Copper and other products. Bread and other bakery products. Biscuit and crackers. Bakery products, other than bis-	80 74 6 944 6 938	11,630 9,844 1,786 7,714 1,084 6,630	36 36 1,112 5 1,107	392 371 21 222 21 201	582 545 37 827 154 673	314 289 25 465 43 422	10,306 8,603 1,703 5,088 861 4,227	Oc 10, 459 No 2, 010 No 962 De 4, 436	Mh 7,353 Jy 1,268 Fe 764 Fe 3,934	926	10,402 8,737 1,665 4,088 395 3,693	900 838 62 1,364 531 833		20	40, 284, 256 30, 709, 734 9, 574, 522 17, 064, 978 2, 492, 504 14, 572, 414
27 28 29	cuit and crackers. Brick and tile, terra-cotta, and fire- clay products. Building brick. Sewer pipe, draintile, and terra-	48 22 26	972 652 320	43 17 26	48 31 17	14 9 5	15 12 3	852 583 269	Je. 749 Au 338	Ja 320 Ja 178		963 674 289	1 i	9		4,359,383 3,093,637 1,265,746
30 31 32 33	cotta products. Brooms, from broom corn. Brushes Butter. Counting and preserving, fruits and	21 10 231 52	120 212 1,509 2,366	25 14 135 32	3 4 144 149	5 11 114 34	3 7 132 42	84 176 984 2,109	De 98 Ja 4 193 Jy 1,161	Fe 826	171	62 91 815 1,392		1]	239, 439 618, 575 9, 147, 141 6, 010, 871
34 35 36 37 38 39	Canned vegetables. Canned and dried fruits. Carpets, rag. Carriage and wagon materials. Carriages and sleds, children's. Carriages and wagons, including re-	107	1, 187 1, 179 36 149 981 303	9 23 13 4 3 47	84 65 6 49 12	. 1 74	19 23 1 4 56	799	Jy 2,440 Jy 2,579 Je 27 De 160 De 972	Ja 1 14 Jy 100	2,083 24 160	16 159 795	5 1 177	2	1	3,037,862 2,973,009 24,437 474,879 2,636,992 914,069
40 41 42	pairs. Carriages and wagons. Repair work only. Cars and general shop construction and repairs by electric-railroad	. 12	250 53 1,513	32 15		. 1	10	. 37	Se 4 88	No 4 31	32	32		2		820, 752 93, 317 3, 139, 419
43	companies. Cars and general shop construction and repairs by steam-railroad com-	36	7,579		297	170	87	7,025					}			14, 479, 362
41 45 46 47 48 49	panies. Cement. Cheese. Chomicals Cleansing and polishing preparations Cleansing preparations. Metal and other polishing preparations	55 36 20 12 8	6,721 463 435	1 31 14 15 10 5	314 23 16	12 492 197	189 189 90 88	146 5,712 138 126	Ja 7,494 Se 4 141	My 4,98	5 161 5,999 162 144	5,938 136 128	53 53 16	8		1,604,052 1,565,317 38,735
50 51 52 53 54 55 56	Metal and other polishing preparations. Clothing, men's. Regular factory products. Men's and youths' All other Contract work Clothing, women's. Regular factory products.	31 23 6 17 8	1,987 719 1,268 54 1,188	10 11 20	51 17 84	112 58 54 32 32	104 28 76	1,707 613 1,094 1,036	De 738 De 1,276 Mh 48	3 My 97 3 Ja 3	2 1,286	292 153 139 8	2 1,729 5 585 1,147 3 34 2 1,128 7 1,049	2 2	3	6, 105, 205 2, 686, 318 3, 438, 887 19, 825 1, 810, 718 1, 789, 158
57 58 59 60 61 62	Shirt waists and dresses, ex- cept house dresses. Wrappers and house dresses All other. Contract work. Coal-tar products. Coffee, roasting and grinding.	3. 4 17 3	78 409 60 131 173	18 18 1 21	39 17 4 9		1:	573 1 59 3 350 1 54 2 113 4 99	Se 62 Jy 6' No 42 Au 9 Je 13 Jy 11	7 Ja 4 5 5 Ja 27 5 Fe 4 8 Oc 8 0 De 4 9	8 653 3 72 3 421 4 84 5 134 3 102	5 56 2 37 4 133 2 36	5 59° 4 68 7 38 5 79 8 6	3 4 9 1 3		832, 002 103, 790 853, 866 21, 560 1, 296, 864 969, 175 1, 819, 185
63 64 65 66 67	Coffins, burial cases, and undertakers goods. Condensed milk. Confectionery and ice cream. Confectionery. Ice cream.	32 184 92 92	1,270 2,308 1,599 709	239 114 125	81 9 113 1 69 5 44	50 3 11' 9 99 4 29	6 6 9 9 4 5 5	1,064 3 1,746 0 1,28 3 46	Je 1,14 No 1,68 Jy 63	3 Ja 97 7 Je 1,01 4 Ja 34	1,035 2,091 3 1,615 475	91- 1 900 2 48 9 41	4 11 3 1,18 5 1,12 8 5	9 2 3 3 5		11, 224, 584

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.

		EXPE	nses.				* . *				PO.	WER,			
Salaries and w	ages.		Rent ar	nd taxes.	For mat	erials.				Prin	ary hor	sepowe	3r.		Elec
clals. Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	trice horse powe generated i establishment reporing.

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

				1,11.12	1 111111				· · · · · · · · · · · · · · · · · · ·					 -				;
Dolla	rs. Dolle ,081 69,580	178. 0,917 63	Dollars. 9,708,093	Dollars. 8,232,883	Dollars. , 291, 962	Dollars. 164, 878, 414	Dollars. ,852,906,090	Dollars. 6,337,153	Dollars. 3,466,188,483		1,202,128	440,130	152, 781	;-	10,346	549,176		1
404, 47,	968 504, 828 10	629 3 044	3,003,362 276,850	427	2,061 3,067 4,760	442,721 10,428 129	4,837,772 915,064 11,670	210,196 38,849 755	11,090,669 1,377,584 63,149	6,042 701 423,671 50,724	6,197 383 16	2,993 30		50		3,154 353 16	332	2 3 4
88, 6,640,	349 37 391 5,150	160 420 127 7	12,895 611,561 5,221,256	519, 854 388, 957 100	20, 110 285, 253	20,729 9,084,787	950, 856 147, 613, 334 301, 202, 501	20,569 2.949.108	2,434,213 288,306,858 1,332,076,498	1,453,788 137,744,416 522,871,509	834 103,425 180,702	22,620	1,470 57,707	$\begin{array}{c c} 216 \\ 8,421 \\ 146 \\ \end{array}$	18	78,597 100,229 1,178	4, 634 79, 625	5 6 7 8
21,405, 98, 88,	485 114 388 66	,589 ,684	07,768,186 1,288,441 213,004 10,080	15, 982	114,734 27,063 1,386	48,883 80,591 496	1,780,480 913,430 280,506	82,461 6,470 836	4,226,691 1,645,060 307,434	2,363,750 725,151 26,092	1,362 117 59	2	·····	182		117		10 10
14,	050 15 585 22	, 230 , 667 , 321	215,663 127,198		2,359 799	16,475 56,775 140,367	194, 314 1,015, 535 531,725	4,129 17,009 11,823	538, 969 1,595, 982 2,091, 826	340, 526 562, 538 1, 548, 278	263 585 174	225 330		4		34 255 174		11 12 13
138,	500	,144	8,801	693	20,805 168 19,435	268	22,232 4,153,194 250,412	1,750 30,787	40, 455 6,046, 310	16,473 1,862,329	22 660	132	•••••			22 528 119	70	14 15 16
155, 36, 319,	807 8	,588 ,487 ,110	920,703 213,624 2,161,400	729 3,025	4,477 23,987	70, 978 7, 234 653, 118	4,976,235	6,823 309,810	10,934,722	342, 853 5, 648, 677	5,226	3,900	•••••	100 35	•••••	1,291	8	17 18
229, 89, 197,	598 101 862 21 020 54	,610 ,500 1,356	1,782,649 378,751 1,331,974	3,025 7,512	5,015 18,972 21,702	617,807 35,311 65,855	4,435,906 540,329 2,695,958	296,881 12,929 50,134	9,632,246 1,302,476 4,977,560	4,899,459 749,218 2,231,468	5,005 221 6,772	3,900 4,871	85	35 12		186 1,804	8 360	19 20
1,814	957 1,405 567 1,319	5,332 1 5,603 1	4,578,780 2,323,394	16,608 15,974	72,722 68,162	1,075,233 880,063	37,357,127 28,210,516 9,146,611	1,401,851 1,117,013 374,838	62,708,335 48,393,780 14,314,555	23,859,357 19,066,251 4,793,106	27, 912 14, 909 13, 003	7,880 2,680 5,200	1,000 1,000	230 230	• • • • • • •	18,802 11,999 6,803	671 671	21 22 23
712 50	522 1,930 610 412	0,301 2,877	2,255,386 5,895,407 506,877	22,868	4,560 389,282 15,030	195, 170 392, 870 42, 164 350, 706	27, 262, 941 2, 031, 292 25, 231, 649	852,848 42,192 810,656	44,923,454 3,841,637 41,081,817	16,807,665 1,768,153 15,039,512	6,339 393 5,946	395 305 90		163 163	4,4 # + # # 4 # # + # # 4 # # + # #	5,781 88 5,693	184 150 34	24 25 26
1	,029 1,517	6,256	5,388,530 1,180,743	22,868 9,010	374,252 3,619	87,031	189,406	628, 508	3,339,381	2,521,467	6,047	5,884		90		73 33	7	27
		7,965 8,291	879, 594 301, 149	9,010	3,599 20	52,304 34,727	122,172 67,234	446,107 182,311	2,530,064 809,317	1,961,695 559,772	3,887 2,160	3,838 2,046		16 74		40 83		28 29 30
14 287	,400 2 ,013 27	0,267 5,347 6,978 5,678	74, 864 156, 507 1, 173, 610 1, 135, 224	269 19,667 2,576	2,580 3,140 31,978 8,575	2,027 6,031 143,126 97,460	296,248 331,084 29,346,329 7,849,401	2,075 8,174 234,563 121,541	487,873 668,828 33,385,420 11,172,169	188, 950 328, 670 3, 804, 528 3, 201, 227	89 171 4,943 4,185	1,883 3,451	192	167 38		2,701 696	60 183	31 32 33
134	.865 5	4,102 1,576	498, 014 637, 210	2,576	629 7.946	51,434 46,026	3, 192, 569 4, 656, 832	62,002 58,639	4,889,666 6,282,503 59,219	1,634,195 1,507,032 47,906	2,406 1,779 53	2,032 1,419		33		369 327 53	145 38	34 35 36
22 10	3,113 1,035 7	1,390 4,516 7,406 1,992	19,315 136,863 736,711 252,379	126	2,675 48 300 5,406	247 10,936 153,824 21,945	9,581 268,344 1,365,263 419,839	1,782 9,709 31,410 15,991	505,937 3,410,047 1,016,954	2,013,374	609	350 250 125		10 25	25 2	184 359 413	41	37 38 39
1		1,042	206, 942 45, 437	1,515	3,090 1,416	20,366 1,579	383,374 36,465	14,136 1,855	902,545 114,409	505,035 76,089	63	125 385		. 10 15	2	367 46 464		40 41 42
		36,362	2,088,383		9,266	25,451	1,580,149		3,828,271					0 3	3	7,536	955	43
		09,385	9,862,344			66,485	5,751,550	100	9,643,454			15, 108	15,600			2,460	19,398	44
1, 12	1,946 3 1,081 9	55,121 32,643 57,786	1,738,993 171,563 8,949,57	7 1.940	3,227 20,950	2,399,240	3, 161, 993 9, 292, 541	56,288 6,451,534	3,663,131 37,850,834 3,598,75	444,850 4 22,106,759 1 1.797.645	74,943 7 312	22, 710 150	37,237	22	100	154	20,541	4.7
1.18		55, 207 52, 274 2, 933	181, 667 171, 630 10, 03	{ } 	5,195 1,758 3,440	126,675	1,745,78	10,870	3,445,939 152,81	1,689,280	2 10			8		28)	. 49
3	8,376 5	22,938 22,938 75,339	1,379,56 1,338,10 493,95	2 23,340	1 36,058	131,862	5,507,50	2 36,738 3 11,589	2,870,96	7 8,510,26 8 1,189,38	$\begin{bmatrix} 7 & 1,022 \\ 0 & 491 \end{bmatrix}$	2 750 37	5			275 110 15	2 370 6 5	5 51 5 52 5 53
1	31,579 3 20,862 1	47,599 10,001	844, 15 41, 46 750, 42	1 2760	27,580 2,479 32,259	59,329 589 60,939	3,837,500 55 2,255,64	j 1,00 4	3,923,30	$\begin{bmatrix} 5 & 132,68 \\ 0 & 1,650,29 \end{bmatrix}$	7 262	2i	5			1 24 23	7 4	54 55 56
1	14,282 1 21,306 1	09, 281 65, 714	717,04 431,21	0 722 5 412	29,400	60,866 46,751	922,07	6 6,183	1,861,69	5 933,43	6 118	3				11	2	57
	70,046 6,580	16,386 27,181 720	30,95 254,86 33,38	9 300 2 806	13,576 3 2,85	12,30	1,210,70	4 9,404 0 676	1,770,33 57,92	7 550,16 55,54	9 109	1 3 131				20		. 59 60 61
1	43,560 36,558	11,994 42,636 164,921	163,80 73,96 379,32	8	46,74 21,05 8,61	0 7, 139	2 406,47 9 2,117,70 1 1,819,57	6 20,510	2,522,21	3 1,182,11	11	7 13	1 : -		42	F1	27	62 63
2 02 03	23,849 1 22,706	167, 739 373, 296 288, 447	1,462,12	8 1,28	5 200,78	7 549,910	0 7,015,98	0 10,004	27,738,04 12,626,50 7,324,50	4,630,87 1 5,458,10 13 3,438,26	9 3,52 5 3,73 1 1,34	5 2,98 8 50 2 49	10 17] 1	9	3,20	09 25 34 25	7 65
.] 1	101,143	84, 849	595, 57	0 1,13		6 59,05	9 3,205,27	4 76,880) 5,301,98	98 2,019,84 Same n			3 j r one or	7	•	5-1	- 11.5.7	: 1)

² No figures given for reasons stated under "Explanations of terms."

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

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERSO	ns en	AGED I	N THE I	NDUSTRY.		WAG NEARE	E EARNE ST REPRI	RS DEC	. 15, 01	R AY.	
	ts.			Sala-	Clerk	s, etc.		Wage earne	rs.		16 and	over.	Unde	r 16.	
INDUSTRY AND CITY.	Number of establishmen	Total.	Pro- prie- tors and firm mem- bers.	ried offi- cers, super- in- tend-	Male.	Fe- male.	Average num- ber.	Number, 18 Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	Capital.

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

					-						· · · · · · · · · · · · · · · · · · ·			· · · · · ·	
1 2 3 4 5	Cooperage	35 115 12 5 13	122 963 1,848 112 162	26 117 4 2 9	8 83 75 11 13	3 34 92 6 6	2 35 148 2 9	83 694 1,529 91 125	Oc 120 Oc 801 De 1,744 No 100 Se 145	Mh 61 Fe 577 Je 1,402 Fe 84 De 97	112 785 1,744 99 122	112 780 196 91 109	5 1,540 6 13	2 6 2	Dollars. 298, 480 2, 060, 440 4, 223, 201 187, 970 533, 487
6 7 8	Dental goods. Druggists' preparations. Electrical machinery, apparatus, and	8 16 54	112 3,991 5,165	4 7 19	9 112 230	8 326 377	6 327 349	3,219 4,190	Jy 95 No 3,317 No 4,908	Ja 71 Ap 3,145 Ap 3,775	90 3,309 4,657	56 1,459 2,876	34 1,850 1,776	2 3	190,589 26,343,212 15,967,288
9 10 11 12	Electroplating Enameling Engines, steam, gas, and water Engines, steam, gas, and copper plate,	21 6 35 10	228 71 16,050 93	20 8 4 16	22 5 492 2	4 1 777 4	5 1 519 4	177 56 14,258 67	No 214 No 82 Ja 16,691 De 85	Fe 127 Ja 23 Ap 10,460 Ja 8 61	201 66 16,328 78	194 62 15,736 56	587 21	1 1 5	218,936 77,438 62,506,869 76,018
13 14 15 16 17 18 19 20	Envelopes: Fancy articles, not elsewhere specified Files Flags and banners. Flavoring extracts. Flax and hemp, dressed Flour-mill and gristmill products Food preparations, not elsewhere specified.	4 8 5 4 11 4 345 37	131 156 59 45 76 44 1,947 3,312	5 2 2 6 400 20	11 12 5 5 19 3 166 113	8 14 2 1 22 1 22 145 480	7 8 2 4 1 108 216	105 117 50 35 25 40 1,128 2,483	De 121 No 136 De 56 No 50 De 28 De 53 Ja 1,266	Jy 96 Mh 86 Ja 3 45 Oc 24 Ja 20 Jy 27 Je 1,022	121 137 56 39 28 53 1,224 2,524	36 39 53 8 12 53 1,125 1,780	84 95 3 31 15 99 744	1	369, 032 230, 459 125, 611 52, 952 179, 247 147, 515 18, 996, 143 18, 823, 565
21 22 23 24 25	Breadstuff preparations, cereals and breakfast foods. Macaroni, vermicelli, and noodles Peanut butter. All other Foundry and machine-shop products.	5 6 3 23 523 523	2,997 97 29 189 45,532	3 2 15 282	78 8 2 25 2,126	462 3 2 13 2,123	194 2 3 17 1,571	2,263 81 20 119 39,430	Au 3,124 De 99 Fe 3 24 Oc 284	Ja 1,605 Je 51 Ja 16 Ja 71	2,102 99 19 304 45,584	78 9 253 42,925	662 21 10 51 2,590	65 4	743,584 131,456 1,293,807 133,114,339
23 24 25 26 27 28 29	All other Foundry and machine-shop products. Boiler shops. Foundries. Machine shops. Machine shop and foundry combined.	101 363 35	943 15,653 25,393 3,543	20 49 199 14	51 540 1,380 155	50 442 1,460 171	34 236 1,210 91	788 14,386 21,144 3,112	De 890 No 17,307 No 23,479 No 3,764	Mh 678 Ja 11,453 Ap 20,148 Ap 2,607	882 17,559 23,445 3,698	881 16,592 21,790 3,662	945 1,616 28	21 1 36 3	3,475,800 43,557,610 77,486,057 8,594,872
30 31 32 33	Fur goods. Furnishing goods, men's, neckwear. Furniture. Wood, including rattan and willow. Metal furniture and store and	31 3 171 140 31	582 42 20,765 17,943 2,822	30 3 68 54	24 2 791 680	51 5 795 504 291	51 615 410	426 28 18,496 16,295	De 502 Au 32 De 18,823	Ap 394 De 25 Ja 14,017	480 27 21,347 18,810 2,537	175 5 18,325 15,964	305 22 2,828 2,657 171	141 53 136 53	2, 224, 096 77, 964 53, 725, 259 45, 892, 299 7, 832, 960
35 36 37 38	office fixtures. Furs, dressed. Gas and electric fixtures. Gas, illuminating and heating Glass, cutting, staining, and orna-	4 13 59 14	37 184 4,044 139	1 6 2 10	26 208 16	291 1 222 362 1	205 12 626 8	2,201 28 118 2,846 104	De 2,542 Fe 32 De 142 De 3,275 No 130	Ja 1,891 Au 20 Ja 92 Fe 2,387 Ja 80	2,03, 27 145 3,286 129	2,361 12 126 3,282 126	15 18 4 3	1	46,725 433,142 60,125,709 2,186,742
39 40	menting. Gloves and mittens, cloth, not including gloves made in textile mills. Grease and tallow, not including lubrical ting grosses.	9 14	155 179	9 9	9 14	3 4°	2 8	132 144	Au 149 Au 150	Ap 113 Ap 135	148 148	11 147	137 1		229, 826 1, 364, 848
41 42 43 44 45 46	Hand stamps. Hardware. Locks and builders' hardware. Vehicle hardware. All other House-furnishing goods, not elsewhere specified.	11 30 9 7 14 10	2, 473 499 1, 087 887 478	13 12 2 10 7	6 92 22 45 25 19	3 104 17 52 35 32	7 91 17 41 33 19	20 2,174 441 949 784 401	Au ⁸ 21 De 550 Oc 1,107 De 990 De 473	De 15 Ja ³ 334 Ja 764 Mh 628 Ja 222	21 2,562 550 1,063 949 497	18 1,952 373 928 651 289	591 177 135 279 200	18 1 18 1 18 4 4	46,673 5,621,907 1,047,641 2,528,278 2,045,990 1,673,948
47 48 49	Ice, manufactured. Iron and steel, blast furnaces. Iron and steel, steel works and rolling mills.	18 11 7	868 1,203 1,675	14	66 39 68	12 45 118	34 18 34	742 1,101 1,455	Jy 1,084 Ja 1,173 No 1,675	Ja 460 No 1,033 My 1,110	769 1,139 1,454	748 1,137 1,450	21 2 4		5,105,412 15,820,266 10,081,631
50 51	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills. Iron and steel forgings, not made in steel works or rolling mills. Iron and steel, tempering and weld-	6 15	476 1,806	1	16 74	23 97	13 39	423 1,596	Se 468 Oc 1,919	No 387 Ja 1,046	395 1,778	359 1,696	35 82	1	1,620,928 6,970,591
52	Iron and steel, tempering and welding.	26	177	25	24	6	3	119	No 113	Ap 102	122	122		.	304, 087
53 54 55 56 57 58 59	ing. Jewelry Knit goods Labels and tags Lamps and reflectors. Leather goods, not elsewhere specified Leather, tanned, curried, and finished Lime Liquors, malt Lithographing. Looking-glass and pleture frames Lumber and timber products. Lumber planing-mill products, not	22 31 7 8 14 28 6	195 3, 437 115 1, 034 225 3, 748 241	24 8 1 1 11 11	17 89 17 67 24 158	8 98 6 22 8 81	25 72 10 20 9 44	121 3,170 81 924 173 3,464	De 144 De 3,416 No 89 Se 1,168 Ap 192 Au 3,622	Ja 104 Je 2,971 Mh 75 Ja 731 Ja 145 Ja 3,302	3,542 89 811 187 3,528	121 835 48 590 117 3,356	22 2, 638 38 221 70 172	3	
60 61 62 63 64	including planing mills connected	25 10 8 380 192	1, 011 550 62 16, 139 6, 484	2 7 4 4 410 153	104 43 7 363 380	6 97 49 317 372	24 16 5 126 273	3, 464 222 779 438 46 14, 923 5, 256	Au 263 Jy 1,087 De 504 Fe 50 Fe 16,575 De 5,953	Mh 162 Ja 517 Ja 361 Oc 42 Je 13,649 Ja 4,251	227 692 504 43 18,170 5,833	227 688 384 35 17, 927 5, 454	4 120 8 221 332	22	7, 224, 012 1, 912, 267 71, 409 49, 093, 440
65	with sawmills.	31	3, 685	5	137	212	135	3, 196	No 3,436	Je 3,030	3, 385	3, 177	202	6	14, 438, 803

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).

OMBIN	ED AN	D SPEC	IFIED	INDUS	TRIES:	1919—Co	ntinued.									
			EXPENS	ES.				entia i		POWER.						
Sala	ries and w	ages.		Rentai	id taxes.	For mat	erials.				Prin	nry ho	sepowe	or.		Elec-
Officials.	Clerks, etc.	Wage earners.	For contract work.		Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam on- gines (not tur- bines).	Own Steam tur- bines.	Inter-	Wa- ter pow- er.1	Rent- ed. ²	tric horse- power gener- ated in estab- lish- ments report- ing.
			THE ST	ATE-AI	LL INDUS	TRIES CO	MBINED	AND SPE	CIFIED IN	DUSTRI	ES-Cor	tinued				
Dollars, 11,913 183,376 268,011 21,879 30,598	Dollar 8. 5,095 90,272 458,374 7,307 15,689	Dollars. 97, 297 958, 254 1,030, 652 76, 415 118, 130	Dollars. 3,475 8,800	Dollars. 1,728 47,495 15,891 1,852 2,892	Dollars. 4,597 63,755 141,137 1,712 3,578	Dollars. 458, 584 1, 701, 678 2, 890, 566 41, 825 2 74, 369	Dollars. 2,363 20,029 22,154 5,797 11,224	Dollars. 654, 342 3, 790, 651 7, 297, 824 179, 373 635, 464	Dollars. 193, 395 2, 068, 944 4, 385, 104 131, 751 349, 871	139 471 724 151 120	55 416 65		24 26 34		60 445 274 86 101	150

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.													
Dollars Dollars Dollars 11,913 5,995 97,297 183,376 90,272 956,254 288,011 21,879 7,307 76,415 90,598 118,130	Dollars. 1,728 8,860 47,495 15,891 1,852 49 2,892	4,597 63,755 141,137 1,712	458, 584 701, 678 890, 566 41, 825 274, 369	Dollars. 2, 363 20, 029 22, 154 5, 797 11, 224	Dollars. 654, 342 3,790, 651 7,207, 824 179, 373 635, 464	Dollars. 193, 395 2, 068, 944 4, 385, 104 131, 751 349, 871	139 471 724 151 120	55		24 26 34 	60 445 274 86 101	150	1 2 3 4 5
34,736 18,181 98,348 549,113 1,180,893 2,830,077 1,062,059 949,048 4,685,479	3,229 6,646 14,441 7,565 106,420	13,312 2,207,430 1,597,016 8,	94,629 880,817 812,160	2,315 115,376 222,896	319,089 23,903,856 25,025,528	222, 145 13, 907, 663 15, 990, 472	1,471 5,659	540 265	500	37	5 4 431 5,357	50 85	6 7 8
42,617 15,850 1,870,965 3,000 2,039,218 6,088 242,724 84,636 21,362,743 81,748	16,649 4,930 43,014 7,570	2,192 1,088 5,103,583 187 56,	77,797 53,129 214,185 38,572	24,087 24,806 836,508 1,207	535,620 211,639 01,989,440 201,395	433,736 133,704 44,938,747 161,616	619 53 30,488 27	3,350	50	79	578 53 27,009 27	8,026	0 10 11 12
22,221 15,849 96,594 23,150 14,959 71,012 11,813 1,900 74,557 10,692 8,120 23,285 30,777 33,289 21,096 3,151 1,402 31,963 299,982 266,556 1,256,772 722,166 772,309 3,107,993	2,720 5,135 6,892 475 4,575 2,490 10,144 43,809 87,609	4, 407 2, 455 1, 861 2, 422 970 251, 841 1, 830, 598	213,775 185,073 46,207 52,647 199,254 135,213 ,776,280 ,095,732	3,673 2,914 9,312 1,385 1,465 1,304 408,815 717,334	455, 305 399, 221 177, 128 103, 137 350, 330 184, 208 44, 144, 434 35, 701, 760	237, 857 210, 334 121, 609 49, 105 149, 611 47, 691 5, 059, 839 16, 888, 694	116 27 370 20 87 48 29,928 12,157	9,560 2,930	500	40 15 044 9,767	8,715	2,210 4,900	13 14 15 16 17 18 19 20
638,635 734,522 2,917,006 14,860 6,069 80,524 4,990 3,853 14,549	49,089 780 1,130	1,786,669 16, 13,230 3,472	390, 247 334, 275	651, 830 18, 347 2, 875	33, 158, 108 574, 382 380, 983	16,015,461 165,788 43,833	10, 761 398 125	2,650 150	500		7,611 248 125	100	22 23
7,960 8,853 14,549 95,914 7,343,563 4,688,664 52,415,677 213,788 163,929 1,167,693 1,883,927 81,261 19,597,140 4,698,965 3,352,990 27,647,338 577,463 371,374 4,003,506	3,034 6,610 1,209,839 396,745 35,556 10,049 1,040,783 50,418 108,200 267,732 25,300 68,546	27,227 6,810,539 419,281 2,1,771,011 21,4,126,636 36	880,303 642,116	44, 282	1, 588, 287 169, 462, 545 6, 277, 320 56, 322, 684 95, 296, 966 12, 505, 575	663, 612 100, 662, 401 3, 152, 261 32, 722, 708 57, 456, 426 7, 331, 006	873 84,776 2,100 36,891 39,577 6,208	1,265 2,630	1,507 32 1,475	12 625 43 42 540 1,455	792 34,130 31,464 4,442	11,167 586 1,176 7,654	24 25 26 27 28 29
75,390 175,983 411,618 7,000 9,277 22,290 3,021,947 2,943,921 19,659,909 2,573,744 1,903,757 17,148,788	1,838 38,895 2,815 805,890 89,615 296,064 84,370	2.056.189 27	,272,608 110,104 ,527,005 ,816,109	9,034 255 783,207 676,420	2,448,527 201,085 69,497,237 58,569,672	1,161,885 90,726 41,187,025 35,077,143	117 6 28,947 25,133	19,809 17,629	1,694 1,679	30 44 18 29	5 5,512	4,564 3,644	30 31 32 33
448, 203 1, 040, 164 2, 511, 121	9,826 5,245	237, 867 4	,710,896	106,787	10,927,565	6,109,882	3,814	2,180	15	12 15	1,457	920	34 35
15,090 1,892 33,286 70,445 40,165 179,046 503,947 1,139,831 3,965,259 39,945 11,085 157,883	6,510 1,520 572 9,790	10,004 1,247,040 4,851	75,038 812,426 2,514,834 324,200	2,552 5,886 5,755,498 5,751	152,654 1,417,303 17,993,314 619,497	75,064 599,491 9,722,982 289,546	113 75 13,593 137	10,484 35	1,032	, 272	805 102	3,149	36 37 38
22,883 4,241 68,604	6,073	4, 312	397, 569	1,934	532,652	133,149	107	21	••••••		86 446		39 40
37,935 12,960 244,047	244 115	20, 488	819, 416	80,947	1,410,631	510, 268 96, 498	583 25	137			25		41
9,300 10,203 21,646 334,606 255,304 2,497,723 76,073 50,507 505,511 167,630 99,768 1,224,411 90,457 108,029 767,801 126,964 183,432 347,894	11, 106 55, 987 11, 106 53, 451 11, 106 22, 180 28, 652 2, 619 7, 069	17, 800 124, 453 61, 939	52, 898 3, 101, 526 687, 039 1, 512, 501 901, 986 780, 797	1,647 90,456 15,899 47,145 27,412 21,137	151, 038 8, 760, 825 1, 748, 739 4, 206, 711 2, 805, 375 1, 954, 741	5, 568, 843 1,045, 801 2,647,065 1,875,977 1,152,807	2,671 319 1,419 933 1,608	755 76 150 530 1,010		40 7		113 200	42 43 44 45 46
153,121 80,101 1,186,323 123,442 89,927 1,719,380 311,943 268,358 2,471,088	12,000		452,670 4,904,869 2,893,307	264,766 5,393,552 508,496	2, 821, 688 13, 533, 739 8, 344, 643	2,104,252 3,235,318 5,442,840	8,137 6,367 9,142	1,328 4,805 2,710	1, 125		6,809 437 6,432	2, 403 405	47 48 49
91,592 69,922 544,432	32, 554 3, 862	51, 369	865, 167	78, 595	1,941,884	1	970			•••••	970	900	50
282, 425 178, 109 2, 386, 888	10,300		4, 474, 800	386,911	8,559,190 616,279	1	6,757 371	2,420	150	78	4,187	70	52
77,915 15,246 184,256 54,207 58,859 159,954	242 17,588 4,010 18,221	3.000	123,218 422,250	42,993 1,495	961,685	537,940	76				76		53 54
324,152 324,895 2,114,308 33,043 14,380 79,868 210,981 60,760 70,868 89,995 22,428 133,679 626,698 302,105 4,162,546 23,150 10,286 183,272 348,821 179,853 1,052,491	226,850 108,524 1,668 6,225 6,576 11,380	658,361 7,190 52,142 14,694	6,655,330 131,892 2,035,882 824,188 1,685,075		12,039,377 328,712 5,563,932 1,258,893 45,800,786	5,248,991 193,155 3,471,566 429,226 13,348,988	3,073 78 1,772 132 12,243	1,460 8,278 1,000	520	15 42 1,110	1,598 78 1,772 90 2,338	6,549	. 55
348,821 179,353 1,052,491 187,7640 4,436 48,167	000	703,979 5 57,172 961	1,777,029 766,042 50,025	35,056 3,665 56,484 5,479 766,723 142,424 249,956 18,817 1,333 211,676 365,706	025,750 5,276,052 1,929,149 189,123 46,043,855 37,869,230	3 249 007	1, 195 6, 658 687 17 79, 449	3,279 517 70,028	4,245 1,752	25 859 2,0 237	3,379 144 10 2,30 10,113	266 26 7 6,499	60 61 62 63
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The Color Brother	719,063 2	5,471,880 3,643,702	1000			11	14,968	1,/52				65
663,481 547,780 4,408,088	25,476 32,501	619,855 3 Same n			12,658,492 one or more	other month	ii 5,905	ll 400		3.01	5,18	,	00

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

		PERSONS ENGAGED IN THE INDUSTRY.								WAG NEARES				
	ts.			Sala-	Clerks, etc.		Wage earners.			16 and over.		Under 16		
INDUSTRY AND CITY.	Number of establishments.	Total.	Pro- prie- tors and firm mem- bers.	ried offi- cers, super- in- tend-	Male.	Fe- male.	Aver- age num- ber.	Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male Fe	Capital.

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

	THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—COMMINION.														
1 2 3	Marble and stone work	103 83 20	595 341 254	115 99 16	47 19 28	48 32 16	20 15 5	365 176 189	Se 187 No 281	Ja 152 Ja 105	414 190 224	412 188 224	2 2		Dollars, 1, 904, 119 916, 033 988, 086
4	except slate. Mattresses and spring beds, not else-	16	222	15	16	12	8	17 1	Se 207	Ja 125	188	151	(41.37		540, 661
5	where specified. Millinery and lace goods, not else- where specified.	12	427	6	25	27	50	319	Au 380	Je 284	325	132	181	8 4	1, 441, 479
6	Mineral and soda waters Mineral and carbonated waters	131 126	929 814	160 159	70 58	35 32	62 54	602 511	ју 7 <u>17</u>	Ja 351 Ja 37	529 455 74	519 448 71	7 4 3	3	4,666,587 3,148,638 1,517,949
8	Fruit beverages	5 52	115 1,009	41	12 71	3 16	8 20	91 861	Se 177 De 1,043	Ja 37 Ja 727	1,069	1,064	4	1	1,523,4/1
10	paper patterns. Musical instruments and materials,	11	474	7.	31	9	49	378	Jo. 407	Se 362	360	266	93	1	582, 827
$\frac{11}{12}$	not specified. Musical instruments, pianos Needles, pins, and hooks and eyes	8 3	1,257 162		34 11	77	24 7	1, 122 142	De 1,288 De 158	My 1,038 Ap 130	1,288 148	1, 103 90	132 58	44 9	440, 871
13 14	Oil, essential Oil, vegetable and composite	29 3	115 117	31	12 10	7 17	3 3	62 87 195	Au 116 De 143 Au 207	Ja 3 47 Ja 31 De 176	117 96 178	114 96 120	3 58		974, 755 1, 306, 195 513, 282
15 16	Optical goods	11 24 39	272 1,800 10,225	7 6 3	18 119 279	13 423 241	233 141	1, 019 9, 561	Au 207 Oc 1, 167	Fe 887	1, 124 9, 825	1,004 8,558	118 1, 265	i	12, 174, 996 53, 680, 651
17 18 19	Paper exclusively	27	7,533	3	176	182	109	7,063	De 7,343 No 346	Ap 6,723 Mh 157	7,339 313	6,217	1,120		. 2, 227, 672
20 21 22 23	Paper and pulp	8 10	2,383 568	7	96 30	50 57	29 23	2,208 451	No 2,310 Au 503	Ap 2,063 No 433	2,173 446	2,031 293 645	143 143 838	10	2, 533, 806
22 23	not specified. Musical instruments, pianos Needles, pins, and hooks and eyes. Oil, essontial. Oil, vesgetable and composite. Optical goods. Paints. Paper and wood pulp. Paper exclusively. Pulp exclusively. Paper and pulp. Paper goods, not elsewhere specified. Patent medicines and compounds. Patent and proprietary medicines.	70 49	2,146 1,983	41 27	223 187	248 227	242 218	1, 392 1, 324	No 1,432	Jy 1,192	1,485 1,396	580	814		5, 883, 231
24	cines. Patent and proprietary compounds, not elsewhere specified.	. 21	163	14	36	21	24	68	Au 8 74	Je 61	89	65	24		744,668
25 26	Paving materials	9 21	293 222	10 11	14 25	17 14	2 32	250 140	Au 341 Oc 169	Mh 111 Ja 101	325 103	325 60	97	4	2, 305, 555 2 565, 248
26 27 28	Phonographs and graphophones	10	929 263	9	25 46 39	42 26	42 20 36	798 169	De 1,036 No 183	Mh 637 Ja 139	1,019 182	907 175	106		2, 599, 218 322, 010
28 29 30	Paving materials Perfumery and cosmetics. Phonographs and graphophones Photo-engraving. Pickles, preserves, and sauces Preserves. Pickles and sauces	44	053 82	27 1	51 7	56 2	2	483 70	Jy 174	Ja 18 Ap 301	551 51 500	411 42 369	137 9 128		
31 32	Plumbers' supplies, not elsewhere specified.	îĩ	571 1,032	26 9	44 55	54 80	34 51	413 837	Se 614 De 1,085	Ap 301 Ja 662	989	910 487	79 329		1.800.703
33 34 35	Pottery	. 6	835 780 55	3	71 67 4	16 15 1	37 36 1	708 662 46	Ja 812 No 55		766 53	434 53	329	3	1,775,192 85,511
36	Printing and publishing, book and job.	436	5, 216	413	399	318	369	3,717			3,986	2,726	100	11111	5 11, 366, 835 5 10, 273, 161
37 38 39		. 405 - 5 16	4,750 65 219	387 5 10	366 4 15	197 5 115	273 10 77	3, 527 41 6	De 4,017 Oc 49 (4) 2	Ja 3,535 Je 31 (4) 2	3, 812 43 2	2, 583 30 2			218, 939 498, 930
40 41		10 565	182 6,643	11 483	14 1,021	1, 142	9 821	3, 176	De 163	Ap 135	129 3,392	2, 723			7., 14, 562, 346
42 43	Printing and publishing	44 438	3, 069 3, 248	14 432	199 753	890 178	452 250	1,514 1,635	De 1,637 De 1,703	Ja 1,410 Fe 3 1,597	1,633 1,732	1,528 1,175			1 8,918,086 5,191,085
44 45	Publishing without printing	83	326 12	37	69	74 1	119 1	27 7	Au 8 29		27 7	20		90. (0.)	453, 175 33, 001
46	Pumps, not including power pumps Refrigerators	6 12	294 1,918	2 4	14 88	15 99	16 72	247 1,655 5,044	(4) 7 Se 336 De 1,938 De 5,968	(4) 7 Fe 175 Jy 1,511 Ja 4,184	263 1,929	129 1,745	177	5	2 479,937 2 6,190,766 57,418,022
48	Rubber tires, tubes, and rubber goods, not elsewhere specified.	7	7, 053	4	173 11	1,481	351 7	1	De 5,968	1	5, 881 300	5, 439 217	1: "	1 1	942,557
49 50 51	Saddlery and harness	. 12	2, 513 123	50	95 14	257	98	253 2,063	De 2,255	Mh 1,923	2,274	2, 110	15		428,081
52	Sausage, not made in slaughtering and meat-packing establishments.	29	228	32	10	18	9	106 159			. 163	143	3 19	1	483,363 283,025
5	Sausage casings	. 18	131 97	19 13 8	6	12 6 9		88 71	De 78	Ap 67	75	79 64	[]	l	200, 338 405, 667
5: 5: 5:	Saws. Scales and balances.	. 9 3 20	109 575 1, 854	11 8	14 29 103	43 55	83	420	Oc 53	I Ja 292	506		7 1	9	2, 253, 891 6 655, 739
5	7 Screws, machine. 3 Shipbuilding, steel, new vessels and small boats.	1 7	17,061	1.	428	526	110		Mh 20, 26	De 9,460		19, 07	3 5	9 'i	21,826,060
5	Shipbuilding, wooden, including boat building.	1	613	17	25	15		1.3			906		1 1 1 1	$\begin{bmatrix} 2 & \cdots & \\ 0 & \end{bmatrix}$	2, 270, 552 1, 093, 075
60	New vessels and small boats Repair work only	. 6	307 306	13 4 3	20 5	8	2	287	Oc 8 57	5 Ja 88	607	60	7	$\begin{bmatrix} 2 \\ 6 \end{bmatrix} \cdots 5 \end{bmatrix} =$	1,177,477 19 440,185
6	Shirts	. 10	524	11 9	15	20] 9	477	No 49	5 Je . 451	3 477	3	4 41	91	

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

			EXPE	1SES.								P01	WER.			
Sala	ries and we	iges.		Rent an	d taxes.	For mat	erials.				Prim	ary hor	sepow	er.		Elec-
mcials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.		Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Owner Steam turbines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	tric horse- power gener- ated in estab- lish- ments report- ing.
			THE ST	ATE—AL	L INDUST	TRIES CO	MBINED	AND SPEC	IFIED IN	DUSTRI	ES-Con	tinued	•	, -		
Dollars. 109,395 39,340 70,055	Dollars. 91,706 66,779 24,927	Dollars. 547, 409 256, 095 291, 404 195, 676	Dollars. 30,756 17,433 13,323	Dollars. 17,453 6,989 10,464	Dollars. 23,596 12,379 11,217 12,721	Dollars. 985,338 612,332 373,006 773,410	Dollars. 36, 152 18, 792 17, 360	Dollars. 2,579,563 1,488,541 1,091,022 1,369,403	Dollars. 1,558,073 857,417 700,656 584,430	2,098 692 1,406	135 135		46 46		1,917 646 1,271 487	3 3
45, 431 140,015 184,356 143,189 41,167 257,901	141,606 114,873 103,325 11,548	222,820 772,395 666,352	14,770 1,360 1,360	14,046 35,772 33,672	195, 251 222, 783 207, 253 15, 530	1,038,329 2,784,938 1,702,754 1,082,184	8,829 80,178 72,256 7,922	2,221,578 5,466,851 3,864,644 1,602,207	1, 174, 420 2, 601, 735 2, 089, 634 512, 101	245 1,921 1,622 299	200 497 207 290		6 3 3	2 2	45 1,410 1,410 6	231 246 246
64,173	43,722 59,399	1,724,836 389,258	204	2,100 48,803 4,126 7,357 650	16, 284 26, 221 181, 570 47, 621	416, 167 245, 348 2, 774, 186 112, 089	23,526 13,121 49,311 8,744	3, 279, 952 866, 101 5, 397, 445 667, 935 951, 250	2,840,259 607,632 2,573,948 547,102 282,360 248,478	636 268 1,767 204	1,037		6		630 268 730 169	482
247, 497 74, 797 55, 451 31, 612 40, 000 449, 812 ,237, 077 778, 803 25, 150 433, 124 119, 757	1,034,354 652,642 529,641 14,131 108,870 128,741	1,170,048 135,863 56,849 81,422 183,212 1,275,903 11,177,009 8,260,540 353,874 2,562,595 480,642 1,204,359	1,607	79 2,678 4,010 31,621 32,722 31,122 1,600 6,320 49,883	11,857 10,218 1,029 478,599 3,034,802 2,166,050 52,337 815,515 114,385 333,938	059, 599 2, 550, 973 355, 337 9, 460, 905 30, 428, 304 30, 057, 967 725, 303 5, 045, 034 2, 256, 605 4, 143, 426	9,291 20,325 6,188 103,437 3,925,143 2,734,183 109,567 1,081,393 39,104 69,380	951, 250 2, 819, 776 1, 008, 542 16, 435, 1.55 66, 299, 513 52, 433, 859 1, 470, 960 12, 394, 694 3, 747, 514 9, 948, 329 8, 688, 235	6,870,813 25,946,066 19,041,709 636,090 6,268,207 1,451,905 5,735,523	715 321 164 3,850 95,729 58,890 13,360 23,479 577 1,026	690 200 90 1,875 57,347 46,696 470 10,181 290 610	10,050 6,443 80 3,527	164	23,019 3,000 10,900 8,219	121 74 1,811 5,313 1,851 1,910 1,552 287 413	1,214 33,594 21,171 500 11,923 608 842
660,907 540,886 120,521	635,524 47,996	1,117,761 86,598	11,612 7,412 4,200	32, 181 17, 702	315,747 18,191	3,450,289 693,137	61,084 8,296	1,260,094	5, 176, 862 558, 661	212	535 75		. 3		279 134	849
33, 151 79, 524 110, 525 102, 714 141, 295 29, 402 111, 893 148, 409	135,764	346, 064 116, 688 608, 203 308, 257 404, 588 64, 853 389, 735 873, 708	135 712,169 23,883 3,739	2,175 20,511 2,669 24,175 6,991 3,705 3,286 7,234	35,156 32,201 114,676 7,179 127,283 23,464 103,819 48,859	283, 821 474, 034 1, 632, 731 113, 777 2, 971, 623 765, 306 2, 206, 317 1, 488, 933	71,656 7,268 40,112 7,345 37,825 6,248 31,577 46,019	883,991 1,002,499 4,230,492 964,944 4,836,452 1,129,361 3,707,091 3,299,739	528, 514 611, 197 2, 557, 649 843, 822 1, 827, 004 357, 807 1, 469, 197 1, 764, 787	7,414 145 611 143 661 94 567 1,938	2,720 30 300 214 45 169 760	30	55		4,682 115 311 143 362 49 313 1,178	130
216, 363 207, 363 9, 000 1, 146, 866	66,330 1,583 990,327	851,180 799,249 51,931 4,681,124	562,319		53,977 52,279 1,698 253,518	394, 878 359, 396 35, 482 6, 318, 942	152,854	2,113,252 1,985,766 127,486 17,675,925	1,571,291 1,486,929 84,362 11,204,129 9,825,543	879 735 144 4,261 4,121	520 420 100 540	46	ľ		359 315 44 3,653 3,513	856 856 433 433
1,069,549 7,930 31,740	13,377	4,426,327 38,429 2,548	381,571 1,669 179,079	4,140	242, 884 2, 653 5, 297	6,122,828 86,503 73,508	529	16,093,502 226,978 880,230	137,306 806,193	90					90 50	
726,59	2,394,038 1,740,190	3,935,040 2,235,540	583,320	1	2,684 985,318 868,506	36,103 7,506,072 5,609,663	4	475, 215 24,930, 421 17,019, 172	435,087 17,234,276 11,325,061	3,725	15				6,012	i
180,95 7,76 45,83 263,49 803,66	3 455,305 198,543 1,649 27,530 3 221,111	27,669 8,789 295,370 1,575,910	98,982 470,860 344	31, 107 3, 282 8, 576 9, 000	76,598 40,214 1,475 3,358 194,900	5,609,663 1,677,240 219,169 8,060 348,100 3,140,571 20,747,228	1,135 454 11,210 65,203	11 50,884	4,516,217 1,392,998 42,370 456,401 3,512,514 29,138,502	11	2, 705 2, 025		150)	2,236 51 6 298 613 2,227	1,35 6,43
35, 69 413, 81 30, 86 25, 87	11,914 490,017 2,348 38,828	267, 090 2, 539, 08 146, 85	3	17,026 1,350 5,110	80, 398 511, 348 18, 076 7, 140	1,088,020 4,207,499 184,736 2,283,468	10, 953 2, 131, 420 32, 995 29, 966	2, 101, 341 14, 053, 799 530, 669 2, 930, 736	1,002,362 7,714,880 312,938 617,302	188 10,321 816 776	148	3		5	188 3,038 60 028	
13,79 12,08 39,97 80,77 875,99 1,006,43	19,424	87, 13 515, 97 2, 114, 46	5	2,049 3,867 21,930	595, 708	1, 319, 511 963, 957 174, 73 500, 290 3, 502, 023 34, 391, 460	7 17, 822 7 5, 439 3 12, 628 3 120, 752	1,750,880 1,179,856 466,106 2,340,245 7,935,902 83,124,336	419, 22; 198, 07; 285, 930 1, 827, 32; 4, 313, 12; 48, 077, 696	252 195	125 80 500	j 		5	376 252 65 300 3,837 25,684	
73,07 57,62	1. /	737, 38	1	F 510	14, 498	1,046,93	26,678	2, 030, 366	1	11	.)}	. 1)	3 5	668	-))

³ Same number reported for one or more other months.

⁴ Same number reported throughout the year.

				,										טעא	STRIES
				PERSO	NS ENG	AGED II	THE IN	DUSTRY.		WAGI NEARES	E EARNE T REPRE	RS DEC	. 15, OF	AY.	
	ts.			Sala-	Clerks	, etc.		Wage earne	rs.		16 and	over.	Unde	r 16.	
INDUSTRY AND CITY.	ishmen		Pro- prie-	ried offi- cers,				Number, 18	ith day of—						Capital,
	ō	Total.	firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average num- ber.	Maximum month.	Minimum month.	Total.	Male.	Fe- male.			
THE STA	ال ن	ALL I	l l	ries	COMB	INED	AND S	PECIFIED	INDUSTRI	ES—Con	tinued.		1 . !	!!	
Show cases	6 25 17	310 355 152	2 32 24	14 25 10	24 15 3	9 23 3	261 260 112	No 277	Ja 239 Fe 88	265 306 111	252 234 110	13 72 1			Dollars, 902, 853 793, 575 174, 980
novelties.	8 24 4	203 2, 083 759	18 	15 73 9	193 37	87 4	1,712 709	De 2,073 Mh 973	My 1,465 Je 537	2,073 598	1,773 598 23	297	2	1	618, 593 16, 431, 187 5, 940, 624 186, 783
springs and athletic goods	12 6	423 1,972	7	24 39	9 37	10 26	373 1,870	De 447 Se 2,100	Ja 290 My 1,549	445 1,952	324 1,835			- 1	913,735 3,707,451 4,200,572
Statuary and art goods	4 15	22 865	7 2	31	45	1 25	14 762	De 16	Fe 3 12	16 1,253	16 1, 224	29			11,829 3,101,554 2,840,865
boilers. All other Steam packing. Stencils and brands. Stereotyping and electrotyping Stores and hot-air furnaces.	11 6 4 8 21	99 326 33 228 5,040	2 1 2 3 5	18 16 6 22 188	9 19 13 397	9 15 2 13	61 275 23 177	De 79 No 325 De 36 De 199	Fe 38 Ap 195 My 17 Ja 136	79 303 37 200 4,601	79 164 24 193 4, 502	139 12 6 91	1 1 8		200, 689 1, 300, 305 49, 163 332, 864 18, 843, 360 11, 406, 813
Hot-air furnaces and fireless cookers. Stoves, gas and oil.	13	1,850 1,252	5	101 38	165 177 487	36 168	1,497 1,001 2,313	No 1,658	Ja 1,392	1,673 1,169 2,731	1, 665 1, 101 2, 657	68	3		7, 436, 547 4, 584, 041 12, 116, 532
steel works or rolling mills. Sugar, beet Surgical appliances Tinware, not elsewhere specified	16 9 6	2,221 108 1,022	10	8 41	210 1 34	69 5 29 21	1,836 84 918	De 4,383 Mh 91	Mh 590 Ja 76	4, 807 82 967 784	575	392	3		27, 673, 805 81, 620 3, 200, 475 5, 041, 982
snuff.	0	998 6,234 3,827 2,344	5 6 360	16 268 205	140 92 165 93		5, 456 3, 261 1, 996	De 5,918	Je 4,656	784 6, 103 3, 803 2, 334	1,000 3,246 2,231	5, 088 554 109	5 1 3 2 1	1	5,020,452 21,530 0,221,080 8,464,898 5,118,076 3,346,822
All other. Toys and games. Trunks and valises. Upholstering materials, not elsewhere specified.		403 237 236	11 4	12	7 4 6	7 11 4	199 204	Au 466 Jy 201 No 223	My 196 Mh 184	353 199 228	248 126 183	10 70 40	1 3 	. 1	910, 857 519, 666 1, 127, 682 3, 408, 004
Vinegar and cider. Vinegar Cider Wall plaster and composition flooring.	10 32 10	169 84 85 744	50 15 35	13 7 6 33	1 1 91	5 2 3 34	100 60 40 585	Oc 11: Oc 11: No 700	3 Ja 3 39 1 Je 17	142 74 68 653	122 54 68 630	20 20 20	0		1,079,167 847,923 231,244 2,847,954 1,723,212
Weather strips. Window and door screens Weather strips.	11	347 32 864	8 2	12 4 24	9 7 34	10 8 40	308 11 766	Ja 366 De 8 13 De 94	2 Au 8 10	365 12 941	301 12 624	310	0 4		
Woven-wirefeneing. All other. Wood distillation. Wood, turned and carved Wooden goods, not elsewhere specified	27 16 34 18	2,154 1,764 715 1,118 880	27 17 27 13 2	34 101 72 41 42 38	74 66 69 8 57	23 68 37 17 22 17	1, 902 1, 586 622 984 812	Mh 69 Jy 2,170 Fe 1,773 Je 723 De 1,143 De 893) Ja 1,434 3 Je 1,444 3 Ja 550 2 Sa 872 2 Ja 682	2, 040 1, 591 759 1, 185 802	1, 419 1, 591 692 819 508	60 6 33 37	1 13 4 3 8 24 7 5	7	1, 537, 795 185, 417 2, 369, 200 8, 993, 804 3, 455, 055 5, 538, 749 15, 381, 952 1, 525, 818 2, 490, 201 3, 624, 687 90, 404, 041
*All other industries embrace— mmunition1	Cash	register	rs and	calcul	ting m	ia- 8	Dyestu	ffs and extra	ets—natural	2	Gloves	and mi	ttens.]	leather	
rtificial flowers 1 abbitt metal and solder 6 ags, paper, not including bags made in paper mills 1 aking powders and yeast 2 leiting, woven, other than rubber 1 illiard tables and accessories 2 lluing 2 lluing 2 luttons 2 auning and preserving, flsh 2 aunding and designing 1	Char Chev Chir Cloc Clot Cox Cox	coal, not lumber lustries. ving gun a decora ne in po ks. h, spong iage and	includer and a ting, n tteries ing and luding twine flavori	ot inclusion of in	istillati	in on 2 at 1	Engrave Engrave Engrave Explose Felt go Fertili: Firear Fire ex Firewood Galvar Gas mete	ring and dies ring, wood. ives ods vers ns ttinguishers, rks. ry supplies dzing achlnes and rs	chemical	2 1 1 1 2 1 ater 3	ing, n Graphi Grindsi Hair w Hardw Hat an Hats a straw Hats, f Hats, s Horses	ot from te, grou cones ork are, sac d cap n and ca r, and ur-felt traw hoes, n	idlory nateria ps, of wool	d refin	han felt,
	Show cases. Signs and advertising novelties. Signs and advertising novelties. Signs and advertising novelties. Sleachtering and meat packing. Smelting and refining, copper. Smoiting and refining, copper. Smoiting and athletic goods Sporting and athletic goods Sporting and athletic goods Springs, steel, ear and cerriage, not made insteel works or rolling mills. Stamped ware, not elsowhere specified. Steam fittings and steam and hotwater heating apparatus. Radiators and cast-iron heating boilers. All other. Steam packing. Steneits and brands. Stereotyping and electrotyping. Stoves and hot-air furnaces. Stoves and hot-air furnaces. Stoves and hot-air furnaces. Stoves, gas and oil. Structural ironwork, not made in steel works or rolling mills. Sugar, beet Sugical appliances. Thiware, not elsewhere specified. Tobacco, chewing and smoking, and snuff. Chewing and smoking. Snuff. Tobacco, cigars and cigarettes. Tools, not elsewhere specified. Machinists' tools. All other. Toys and games. Trunks and valies. Upholstering materials, not elsewhere specified. World plaster and composition flooring. Window and door screens and weather strips. Window and door screens and weather strips. Window and door screens and weather strips. Window and door screens. Weather strips. Window and door screens. Weather strips. Window and door screens. Weather strips. Window and door screens and weather strips. Window and door screens. Weather strips. Other. Wood distillation. Wood, turned and carved Wood en goods. All other industries embrace *All other industries embrace *All other industries embrace	Show cases Signs and advertising novelties. Signs, other than electric. Electric signs and advertising novelties. Signs, other than electric. Electric signs and advertising novelties. Slaughtering and meat packing. Shaughtering and meat packing. Shaughtering and meat packing. Shaughtering and dearning, not from the ore. Sporting and athletic goods. Steam littings and steam and hotwater heating apparatus. Radiators and cast-iron heating bollers. All other. All other. Steam packing. Stoves and anot-air furnaces. Stoves and not-air furnaces. Stoves gas and oil. Structural ironwork, not made in steel works or rolling mills. Sugar, beet Stoves and made in steel works or rolling mills. Sugar, beet Stoven and smoking, and snuff. Chewing and smoking. Snu	Show cases	Show cases	The State—All industries Sala—Index India Indi	Show cases	NDUSTRY AND CITY.	Show cases	The State Total.	Show cases	NINDESTRY AND CITY.	Total Pro- Pro-	DeBUSTRY AND CHY.	PRINCE Proposed Proposed	Some cases 1

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

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

OWBIN	ED AN	D SPEC	TELED	TNDO	STRIES:	1919—Co	ntinued.	1		ĺ						
-			EXPE	NSES.		-					نادي ريست پردستانديون	PO	WER.			
Sala	ries and w	ages.		Rent a	nd taxes.	For mat	terials.				Prin	ary ho	rsepow	er.		Elec-
			To a		Pri			Value of products.	Value added by manufac-			Own	ed.			trie horse- power
Officials.	Clerks, etc.	Wago earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.		ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er,i	Rent- ed.2	gener- ated in estab- lish- ments report- ing.
			THE ST	ATE—Al	LL INDUS	TRIES CO	MBINED	AND SPE	CIFIED IN	DUSTRI	ES-Coi	itinued				
Dollars. 53,038 72,302 32,129 40,173	Dollars. 81,745 54,626 7,272 47,354	Dollars. 305, 416 274, 901 148, 707 126, 194	Dollars. 7,269 685 6,584	7,640 5,541 2,090	Dollars. 32, 451 11, 505 2, 475 9,090	Dollars. 462, 059 363, 616 106, 707 256, 909	Dollars, 20, 083 22, 178 15, 764 6, 414	Dollars. 1, 158, 181 1, 080, 477 389 084 691, 393	Dollars. 676, 039 694, 683 266, 613 428, 070	685 87 67 20	225			,	460 87 67 20	
313,008 45,180 32,827	348, 823 65, 304 8, 889	2,277,400 847,194 45,430	15	4,803 2,700	176,749 78,574 2,325	49, 581, 119 25, 274, 678 392, 978	193, 229 469, 884 11, 831	59, 584, 740 32, 724, 695 549, 430	9, 810, 392 6, 980, 134 144, 621	4,746 3,708 73	2,735 3,400	500			1, 511 308 73	1 274 2,210
53, 568 272, 125	12,965 88,065	331, 084 2, 242, 320	206	590	31,453 65,644	316, 810 5, 133, 090	14, 607 292, 800	961,558 8,471,558	630, 141 3, 045, 668	804 1,786	570				234 1, 786	14
239, 890	107 893 780	1,213,565	4, 850	20,017 2,850 8,775	486, 781 44, 256	3, 768, 448 8, 348	74, 761 459	7, 636, 163 54, 757	3, 792, 954 45, 950 1, 489, 917	1,248	1 105				1,248	695
94, 359 54, 991	121, 581 47, 806	1, 237, 962 1, 152, 985			28, 938	1, 431, 679 1, 251, 587	141, 154 138, 068	3, 062, 750 2, 566, 839	1, 177, 184	1,606 1,513	1,165				441 348	695
39, 368 50, 014 11, 315 84, 702 809, 602 458, 458 351, 234	73, 775 45, 092 1, 475 22, 066 909, 988 544, 002 365, 986	84, 977 283, 930 28, 619 247, 783 5, 859, 399 4, 027, 744 1, 831, 655	494	8,775 7,771 4,475 15,626	15, 318 15, 886 2, 228 10, 297 789, 829 359, 173 430, 656	180, 092 657, 135 46, 333 117, 878 6, 008, 024 3, 036, 900 2, 071, 964	3, 086 7, 088 1, 371 14, 470 270, 313 185, 077 94, 236	495, 911 1, 115, 495 116, 602 750, 600 20, 488, 715 11, 580, 108 8, 908, 607	312, 733 451, 272 68, 898 618, 252 14, 200, 478 8, 358, 071 6, 842, 407	93 202 31 444 8, 480 4, 560 3, 920	4, 265 2, 660 1, 605	1,030 30 1,000	84 80 4	75 75	93 292 31 444 3,026 1,790 1,236	3, 313 1, 837 1, 476
219, 842 555, 833	404, 209 79, 265	1, 100, 021 3, 402, 625	993 59, 444	4,080 26,691	93, 002 569, 499	2, 943, 025 10, 764, 447	50, 271 250, 284	7, 497, 180 17, 124, 120	4, 503, 884 6, 109, 389	902 4,744	100 740		28	•••••	3,976	935
365, 163 11, 548 123, 069 153, 722	299, 421 6, 006 83, 592 174, 336	2, 764, 916 45, 137 1, 099, 987 616, 779	70, 863 1, 500 61 004	5, 584 34, 280 20, 383	1,331,032 3,452 181,737 3,370,336	15, 520, 700 104, 773 2, 618, 062 4, 787, 107	1, 161, 150 667 46, 810 36, 154	26, 378, 870 491, 293 4, 630, 693 9, 574, 182	9 697,020 385,853 1,965,821 4,750,921	20,550 5 1,062 980	17,387 392 575	2,335	89 80 16		739 *5 590 389	4, 726 261 472
153, 722 447, 911 841, 760 587, 621 254, 139 48, 288 44, 327 63, 751	174,336 288,310 442,129 296,818 145,311 16,204 18,173 13,816	616, 779 4, 297, 878 4, 733, 587 3, 281, 061 1, 452, 526 361, 958 202, 167 239, 497	61,004 20,243 10,300 9,373 927 461 200	20, 251 132 124, 863 115, 607 91, 938 23, 669 6, 140 10, 361 3, 300	3, 365, 915 4, 421 2, 185, 133 440, 944 306, 276 134, 668 103, 638 21, 808 42, 869	4, 779, 364 7, 743 8, 355, 514 3, 403, 054 2, 090, 214 1, 312, 840 384, 750 377, 003 707, 443	35, 860 288 34, 765 146, 266 90, 366 55, 900 8, 388 3, 227 29, 786	9,549,109 24,983 18,118,550 11,898,853 8,011,288 3,867,505 1,009,784 820,912 1,233,596	4, 733, 969 16, 952 9, 728, 277 8, 349, 533 5, 850, 708 2, 498, 825 616, 640 440, 682 546, 307	947 38 204 3,511 2,033 1,478 632 143 1,372	575 412 12 400 475 120 875		16 105		372 17 204 2,994 2,021 973 157 23 497	472 1 180 180 170 15
149, 327 38, 277 19, 977 18, 300 128, 762 69, 080	259, 122 5, 756 3, 377 2, 379 200, 665 42, 543	268, 709 108, 099 69, 283 38, 816 725, 909 273, 782	8,311 8,311 750	735 435 300 6, 333	139, 505 15, 998 12, 167 3, 831 68, 252 147, 294	2, 114, 125 844, 549 458, 869 385, 680 1, 266, 915 848, 214	20, 614 21, 952 9, 302 12, 650 223, 588 15, 852	4, 091, 941 1, 238, 732 663, 689 575, 043 3, 591, 223 1, 716, 617	1, 948, 202 372, 234 195, 518 176, 713 2, 100, 720 852, 551	553 1,200 298 902 4,924 1,028	719 142 577 505 475	18 18 400	[125]	75	553 265 152 113 4,294 78	8 500
47, 122 21, 958 74, 587 426, 692 100, 927 325, 765 210, 463 99, 612 115, 690 180, 889 999, 310	28,864 13,679 207,503 286,530 131,071 154,859 153,926 27,038 94,912 69,327 2,897,387	257, 008 16, 724 632, 798 2, 721, 006 693, 546 2, 027, 460 1, 983, 414 614, 978 667, 934 718, 675 24, 080, 326	5,115 5,115 267,213 880 8,695 2,661 302,717	1,880 4,453 4,000 24,603 1,980 22,623 600 14,160 1,718 259,387	144, 343 2, 951 151, 189 562, 264 131, 094 431, 170 587, 044 31, 533 138, 326 184, 070 9, 624, 723	751, 647 96, 567 811, 894 10, 681, 847 7, 159, 891 3, 521, 956 5, 056, 143 811, 107 1, 485, 092 2, 807, 067 41, 450, 118	15,610 242 23,368 121,623 36,407 85,216 737,305 25,735 24,108 73,991 6,110,743	1, 484, 709 231, 818 2, 863, 860 17, 065, 225 8, 950, 248 8, 114, 977 10, 651, 181 1, 997, 958 3, 225, 494 4, 571, 704 127, 974, 152	717, 542 135,009 1,998,598 6,261,755 1,753,950 4,507,805 4,857,733 1,161,110 1,716,294 1,690,646 80,413,291	1,004 24 1,057 3,822 1,902 1,020 5,985 1,907 4,414 1,502 46,313	475 690 1,020 575 445 3,829 1,270 3,527 700 22,528	150			54 24 367 2, 802 1, 327 1, 475 2, 006 607 881 766 19, 680	500 10 563 563 570 1,529 25 15 24,224
Ink writing																

⁸ Same number reported for one or more other months.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERSO	ns En	SAGED 1	N THE I	DUSTRY.		WAG NEARE	E EARNE ST REPRI	RS DEC	. 15, o	R PAY.	
	nts.			Sala-	Clerk	s, etc.	,	Vage earners			16 and	over.	Und	er 16.	
INDUSTRY AND CITY.	Number of establishmen	Total.	Pro- prie- tors and firm mem- bers.	ried offi- cers, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average num- ber.	Number, 15 Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	Capital.

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

				 							1:	1	· · · · ·		- Ii	
1	DETROIT—All industries	2, 176	198, 144	1,489	7,709	13,377	8,553	167, 016	No185,910	Mh151,248	183, 996	160,796	22, 724	414	62 7	Dollars. 88,329,200
2 3 4 5	Artificial limbs Artificial stone products Automobile bodies and parts Automobiles Automobiles repairing.	l 26 l	20 129 36,395 37,694 308	5 17 54 2 24	2 10 911 1,070 18	2 1 1,425 2,805 15	957 1,775 19	10 98 33, 048 32, 042 232	Jy ⁸ 11 Oc 135 Oc 38,780 Oc 37,599 Oc 300	Ja 8 7 Ja 38 Ja 26,049 Ja 26,290 Fe 171	12 126 37, 760 35, 338 299	11 126 36, 164 33, 863 298	1,565 1,304 1	171	1	28, 566 338, 212 20, 928, 578 72, 900, 788 251, 140
6 7 8 9 10	Automobile repairing. Awnings, tents, and sails. Bookbinding and blank-book making Boots and shoes. Boxes, eigar. Boxes, paper and other, not else- where specified.	10 9 . 4 4 8	214 217 183 228 331	7 5 3 1 5	21 17 7 8 20	29 8 6 2 8	16 11 3 3 9	141 176 164 214 289	Jy 189 De 205 Oc 169 Se 241 Jy 3 303	Fe 94 Ja 157 Ja 155 Ja 180 Se 261	133 205 164 223 266	74 55 104 58 95	59 150 60 162 166		5	431,176 294,902 362,607 148,865 529,804
12	Boxes, wooden packing, except cigar	11	518	7	27	6	10	468	No 543	My 405	530	515	 	15		1,500,652
13 14 15 16 17	boxes. Brass, bronze, and copper products. Bread and other bakery products. Brick, building. Butter.		9,686 3,573 125 309 4	14 316 1 4	300 114 9 31	474 589 1 38	234 216 3 40	8,664 2,338 112 199	Se 10,422 No 2,487 Se 154 Je 247	Ap 7,701 Fo 2,111 Ja 8 88 Fe 155	9,228 2,598 131 186	8,512 2,066 131 139	714 528 46	2 3	1	30,600,102 8,544,442 488,227 5,149,536 1,263
18 19 20 21 22 23	Butter, carpets, rag. Carpets, rag. Carriages and sleds, children's. Chemicals. Cleansing and polishing preparations. Clothing, men's. Clothing, women's. Shirt waists and dresses, except	10 11 18 13 6	2,263 36 1,431 465 382	3 7 17 8 1	148 10 32 35 30	295 8 92 15 12	112 · 1 · 80 12 11	1,708 15 1,210 395 328	(4) 2 Ja 2,214 De 22 De 1,405	Je 1,497 Ja 3 11 Mh 1,112 Je 293	1,679 24 1,405 438 363	1,638 13 220 43 38	40 11 1, 180 395 325	2	3	11,060 14,961,887 30,304 5,134,563 652,822 602,801
24 25 26	house dresses. All other Coffee, roasting and grinding Coffins, burial cases, and undertak-	7	82 113 138	6 8 7	5 10 9	3 14 13	1 20 4	67 61 105	Jy 8 71 Jy 68 Fe 119	Oc 8 61 My 55 Je 94	75 63 103	5 30 75	70 33 27	i		50,021 818,364 465,994
27 28 29	ers' goods. Confectionery and ice cream Copper, tin, and sheet-iron work Electrical machinery, apparatus, and supplies.	38 45 29	1,015 487 2,448	44 46 7	43 38 146	48 22 191	39 17 210	841 364 1,894	No 2,096 Oc 423 De 2,244	My 1,519 Fe 307 Ap 1,654	1,030 399 2,244	423 399 1,344	607 895	 2	3	2,023,346 1,025,773 7,359,273
30 31 32	Electroplating Engines, steam, gas, and water Engraving, steel and copper plate, including plate printing.	. 6	7,543 60	12 2 8	19 224 2	534 3	300 3	133 6,483 44	No 158 Ja 8,520 De 58 My 58	Ja 91 Fe 5,651 Ja 3 39	147 6,934 54 49	6,695 44	9	···i		177, 595 31, 231, 060 47, 369 428, 010
33 34	Food preparations, not elsewhere specified. Foundry and machine-shop products	171	15,674	5 64	11 846	737	627	13,400	My 58	MIII 0 99	. 14,934	13,974		6	3	39,839,344
35 36 37	Foundries Foundries Machine shops All other Fur goods	20 140 11 17	3,615 10,890 1,169 429	8 55 6 17	148 663 35 18	89 610 38 45	37 560 30 39	3,338 9,002 1,060 310	No 3,922 No 10,189 De 1,259 De 355	Ap 833	3,879 9,796 1,259 346	3,769 8,959 1,246	110 828 13 229	6	3	6, 306, 335 31, 496, 732 1, 976, 277 1, 910, 609
38 39 40 41	Furnishing goods, men's, neckwear Furniture Wood furniture, other than rat- tan and willow.	3 16 12	1, 285 1, 222	***3 7 3	62 54	5 32 29	51 48	1,133 1,088	Au 32 My 1,142	De 25 Ja 1,044	1,185 1,117	955 887	22 228 228			77, 904 3, 442, 200 3, 290, 357
42 43	All other	9	63 89	8	10	3	3 4	45 68	De 68 No 8 87	Ja 12 Ja 48	68 87	68 84		 		151,843 2,025,852
44 45 46	Hand stamps Hardware House-furnishing goods, not else-	. 15 5	1,443 70	10 2 5	62 9	71	53 53	1.255	Ja. ³ 20 No 2,627 Ja. 71	De 1,753	1,416	1,207	209			39, 237 2, 910, 619 128, 459
47	Iron and steel, forgings, not made in steel works or rolling mills. Iron and steel, tempering and weld-	6	720		. 30		14		Au 864					·····	•••••	3,443,231
48	Iron and steel, tempering and weld- ing.	13	146	8	24				No 127			11				269,690 478,701
49 50 51 52	ing. Jewelry Knit goods. Leather goods, not elsewhere specifie. Leather, tanned, curried, and finishe	4 3	403	22 2 8	20 25	6 4 22	2	236	De 127 De 264 Ap 143 Se 369	Ja 95	306 129	75 80	231 49			1,009,883 581,175 3,758,497
53 54	Lumber, planing-mill products, not including planing mills connected with sawmills.	32	648	18	59	60	20	504	Jv 701	Fe 348	449	445	4			4,606,553 5,104,142
55 56 57 5 8	Machine tools Marble and stone work Monuments and tombstones Other marble and stone work, ex-	. 8	279 50	12	27	20	1 6	205 30	No 2, 170 My 35 No 258	Fe 25	232	232	}			9, 997, 264 1, 030, 041 159, 213 870, 828
59	cept slate. Mattresses and spring beds, not elsewhere specified.	1	109	G	7	5	(85	Se 114	Ja 59	100	78	3 22			291, 265
60	Millinery and lace goods, not else- where specified.	7	70	5	4	2	18	44	Se 48	Je 30	42		38	·		57,555

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.

			EXPE	nses.								PO	WER.	4		
Sala	Salaries and wages. Rent and taxes. For materials.					terials.				Prin	nary ho	sepow	er.		Elec-	
	. '	For						Value of products.	Value added by manufac-			Own	ed.			tric horse- power
Officials.	Clerks, etc.	Wage earners.	contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	-	ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	gener- ated in estab- lish- ments report- ing.

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

	•		OIIII9D O							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
3	Dollars. 1,073,381	Dollars. 31,542,425	Dollars, 245,433,882	Dollars. 1, 298, 522	Dollars. 3, 292, 484	Dollars. 54, 797, 732	Dollars. 639, 955, 795	Dollars, 15,957,668	Dollars . 1,234,519,842	Dollars. 578,606,379	308, 250	82,379	22, 453	3,406	200,012	79,688	1.
4 5	4,940 23,876 430,610 158,737 38,394 79,418 44,787 19,034 27,076 71,149	4, 160 4, 585 3, 506, 466 5, 841, 759 31, 668 56, 826 21, 148 43, 424 5, 806 22, 475	12, 762 156, 614 55, 650, 205 48, 441, 007 360, 356 173, 921 134, 781 179, 908 161, 426 221, 177	61, 972 290 1, 045	4,650 8,968 185,253 492,033 46,827 19,983 15,315 7,563 4,057 19,132	3,832 6,117,625 17,975,236 1,251 73,436 5,540 18,888 6,325 23,831	10, 501 200, 974 95, 672, 059 229, 020, 653 257, 561 756, 292 122, 742 546, 276 152, 893 426, 734	734 6,039 2,038,643 1,993,113 9,204 4,601 1,821 5,886 4,749 9,281	57, 509 526, 061 201, 455, 182 348, 772, 598 827, 985 1, 379, 577 484, 158 932, 107 409, 544 987, 132	46, 274 319, 048 103, 744, 480 117, 749, 833 561, 220 618, 681 359, 595 379, 945 251, 902 551, 117	16 119 52,920 37,221 145 87 81 129 146 156	5,140 8,746 80	620 40	7 414 40 90	16 112 46,746 28,395 145 87 81 49 56 156	1,991 16,465 70	2 3 4 5 6 7 8 9 10 11
	87,834	21,350	512, 234		19,790	30,983	921,073	21,591	1,812,856	870, 192	1,750	925			825		12
1	,502,318 454,927 68,750 95,425	1,182,674 1,455,127 4,852 106,001	12, 429, 056 3, 120, 705 199, 806 321, 121	16, 404 8, 563 9, 010	59, 030 199, 824 1, 800 14, 753 1, 205 300	888,507 222,118 25,909 63,873	28, 106, 593 13, 121, 250 33, 510 6, 715, 643 1, 955 1, 243	1, 185, 737 420, 685 92, 452 42, 443 240 121	49, 239, 768 22, 631, 347 614, 736 7, 777, 022 9, 835 8, 161	19,947,438 9,089,412 488,774 1,018,936 7,640 6,797	24,866 3,258 480 1,395	7, 230 145 450	1,000	8	16,636 3,105 30 1,325 2	311	13 14 15 16 17 18
	541, 928 12, 663 245, 453 92, 083 80, 858	544,587 2,513 450,709 44,389 41,309	2,755,983 13,687 1,006,451 354,355 297,583	751 22,360 722 412	20, 638 4, 775 29, 704 15, 559 9, 954	418,867 420 109,184 33,157 32,642	2, 361, 237 47, 555 4, 390, 316 821, 230 603, 711	1, 109, 354 603 25, 139 5, 946 4, 421	11, 355, 383 172, 111 7, 124, 219 1, 559, 372 1, 210, 545	7,794,792 123,953 2,708,764 732,196 602,413	20,339 14 833 96 77	10,444 750	8,122		1,778 14 83 96 77	9,375 370	19 20 21 22 23
	6, 725 39, 660 55, 353	2,360 33,860 45,680	52, 932 56, 663 123, 351	310 720	4,405 15,800 5,420	467 4,760 50,641	216,019 1,685,136 330,837	1,525 12,834 5,297	348, 827 2, 004, 404 774, 567	129, 783 306, 434 438, 433	19 390 189	54			19 390 135		24 25 26
	117, 219 87, 843 719, 330	146,361 53,755 486,450	731,226 548,165 2,094,059	8, 660 800	123, 466 26, 620 99, 331	253,301 23,379 703,008	2,866,320 856,991 4,461,297	65,392 8,276 122,967	5, 393, 154 2, 043, 402 12, 970, 284	2,461,442 1,178,135 8,386,020	2,021 313 3,084	277		25	1,744 813 3,059	1	27 28 29
1,	37,677 007,985 3,000	7,058 1,276,643 3,748	188, 571 10, 429, 954 60, 425	500 300	14, 223 33, 763 5, 610	1,738 1,156,046 8	60, 908 14, 141, 983 26, 303	17,309 336,769 955	426, 434 36, 611, 142 149, 559	348, 217 22, 132, 390 122, 301	16, 109 14	28 1,400	50		14,659 14	7, 681	31
	15,080	9,974	48, 245		5, 240	7,901	216,660	10,611	374, 536	147, 265	187	150	•••••		37	100	3
2	932, 965 643, 161 139, 877 149, 927 63, 390 7, 000 202, 115 194, 141	1,898,766 167,221 1,600,855 130,690 159,553 9,277 203,072 197,673	19, 800, 679 5, 359, 399 12, 650, 495 1, 790, 785 328, 994 22, 290 1, 225, 460 1, 177, 637	65,606 12,000 28,306 25,300 1,000 3,645 3,645	272, 992 42, 426 191, 783 38, 833 32, 230 2, 816 12, 044 10, 104	1,923,268 554,774 1,093,589 274,905 46,310 527 144,456 143,072	21,088,054 4,223,388 15,432,144 1,432,522 1,059,576 110,104 1,483,347 1,380,234	1, 235, 422 584, 781 606, 597 64, 044 3, 955 255 56, 087 53, 797	58, 384, 369 13, 324, 581 40, 708, 401 4, 851, 297 2, 031, 793 201, 085 3, 955, 855 3, 766, 491	36, 060, 893 8, 536, 412 24, 669, 750 2, 854, 751 968, 262 90, 726 2, 416, 421 2, 332, 460	22, 956 6, 822 14, 543 1, 591 46 6 1, 454 1, 328	4, 184 1, 344 2, 150 690 1, 215 1, 165	30 30	426 10 416	18,346 5,468 11,977 901 46 6 209 133	1,735 461 1,159 115 802 802	36 36 36 36 36 46 41
	7,974 25,295	5,399 6,905	47,823 108,617	572	1,940 8,020	1,384 3,694	103, 113 159, 279	2, 290 3, 150	189,364 354,080	83, 961 191, 651	126 - 67	50			76 67		4:
	8,000 220,412 25,390	8,485 145,018 20,596	19,426 1,582,377 41,951	11,106	5,417 50,449 6,465	351 128, 637 2, 702	43,429 2,053,416 189,226	1,571 57,871 2,797	133,170 5,326,455 343,017	88, 170 3, 215, 168 150, 994	23 1,599 611	180 450		40	1,379 161		4
	120,087	61, 272	978, 849		9,400	53,769	1, 118, 560	100,522	2, 416, 250	1, 197, 168	2,979	1,775	150		1,054	900	4
1	77,915	15, 246	163,661	242	12,664	10,928	93, 157	39,885	532,091	199,049	322		• • • • • • •	70	252	70	4
	52,707 71,029 78,406 111,428 247,847 286,306	55, 959 15, 740 16, 562 155, 717 123, 005 126, 320	151, 942 193, 767 99, 469 603, 374 754, 735 1, 754, 346	4,010 357	17, 561 27, 840 10, 720 24, 000 27, 449	2,775 55,316 8,729 483,277 511,885 143,800	416, 620 608, 629 600, 916 6, 164, 997 1, 281, 422 5, 618, 003	1, 402 11, 040 3, 304 47, 402 142, 156 98, 695	937, 784 1, 102, 769 933, 871 8, 624, 215 3, 763, 420 9, 114, 453	519, 762 483, 100 329, 651 2, 411, 816 2, 339, 842 3, 397, 755	72 316 105 1,072 3,905 5,895	220 835 1,735 3,613		42 160	72 96 63 237 2, 170 2, 122	900 180 1,114	5 5 5 5 5
	379, 185 75, 880 12, 425 63, 455	311, 921 32, 715 8, 828 23, 887	2,894,785 316,027 43,611 272,416	25,476 11,827 300 11,527	21,002 10,326 600 9,726	436, 741 12, 918 2, 185 10, 733	2,556,309 414,510 92,457 322,053	94,647 19,022 2,841 10,181	8,245,106 1,186,101 244,040 942,061	5,594,150 752,569 148,742 603,827	2,547 1,309 95 1,214	275 135 135		320 14 14	1,952 1,160 81 1,079		5 5 5
	27, 451 11, 909	13,933	120,615	355	9, 670	5, 028	449, 275	6,521	818,698	362,902	185			· · · · · · · · · · · · · · · · · · ·	185		t
1	**' AAA	9,608	38, 589	2,000	8, 133	13, 114	122,004	414	246, 387	123,969	10				10		в
		1 S	ame numbe	r reported	for one or	more other	months			4 Same nu	mber rer	orted thr	oughou	t the year.			

Same number reported for one or more other months.

[·] Same number reported throughout the year.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

		PERSONS ENGAGED IN THE INDUSTRY. WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.												
	ıts.		Sala-	Clerl	cs, etc.		Wage earne	ers.		16 and	l over.	Und	er 16.	
INDUSTRY AND CITY.	Numbor of establishmor	Proprietors and firm mem bers.	ried offi- cers, super- in- tend- ents,	Male.	Fe- male.	Average number.	Number, 18 Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	Capital.

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

															-4
	DETROIT—Continued.	.													
1 2	Mineral and soda waters	28 29	403 792	35 19	32 53	16 15	38 12	282 693	Jy 397 De 864	Ja 194 Ja 574	245 885	242 882	2 3	1	Dollars, 1,837,898 1,018,107
3 4 5 6	paper patterns. Oil, vegetable and composite. Optical goods. Paints Patent medicines and compounds	11 25	117 225 812 1,739 1,047	1 2 14	10 13 59 181	17 9 213 183	37 119 193	87 165 419 1,168 1,131	De 143 Au 178 Oc 536	Ja 31 De 146 Fe 360	96 148 422 1,209	96 94 386 533	54 84 674	1	1,306,195 451,008 4,411,062 5,312,434
8	Patent and proprietary medi- cines. Patent and proprietary com- pounds, not elsewhere speci-	18 7	1, 047 92	10	159 22	169 14	178 15	1, 131 37	No 1,215 No 46	Jy 1,021 Fe 28	1, 167 42	506 27	659 15		2 4, 925, 209 387, 225
9 10 11 12	fied. Perfumery and cosmetics. Photo-engraving. Pickles, preserves, and sauces. Plumbers' supplies, not elsewhere specified.	15 12 12 5	155 221 159 110	10 7 10 5	18 30 20 6	2 22 13 7	21 18 5 5	104 144 111 87	Oc 133 No 157 Oc 124 De 124	Ja 66 Ja 116 De 98 Ja 49	122 156 97 124	41 149 52 116	79 7 45 8		- 278,537 - 466,738
13 14 15 16	Printing and publishing, book and job Job printing. Book publishing without printing Book publishing and printing, linoty pe work and typesetting.	186 171 8 7	2,958 2,623 172 163	157 147 3 7	242 218 10 14	229 134 94 1	232 160 63 9	2,098 1,964 2 132	De 2,108 (3) 2 No 149	Ja 1,835 (*) 2 Ap 119	2,227 2,113 2 112	1, 511 1, 415 2 94	697 679 18	18 18	5, 397, 391 361, 647
17	Printing and publishing, newspapers and periodicals.	70	2,307	25	177	619	404	1,082			1,181	1,109	62	10	
18 19	Printing and publishing Printing, publishing, and job printing.	7 19	1,667 392	2 5	93 33	498 60	258 41	816 253	De 896 De 277	Ja 751 Ja 239	891 277	873 226	18 42	i i i i i i i i i i i i i i i i i i i	5,924,365 772,031
20 21	Publishing without printing Sausage, not made in slaughtering and meat-packing establishments.	44 9	248 116	18 9	51 7	61 13	105 2	13 85	My 1 14 De 88	Ja 4 12 Ap 82	13 88	10 78	2 10	1	338, 286 219, 889
22 23 24	Screws, machine	. 3 [1,391 110 48	7 2	67 7 2	53 1 2	52 3 1	1, 212 99 41	No 1,347 Mh 127 De 4 42	Ja 1,071 Se 4 81 Mh 4 40	1, 281 111 42	1, 111 111 4	170 38		189,936
25 26 27 28 29	Signs and advertising novelties	14 11 15 4 9	91 1,987 1,197 22 549	18 5 1 7	5 57 67 23	188 31	4 85 43 1 19	1,622 1,055 1,055 14 495	Se 72 De 1,983 Ja 1,223 De 16 Oc 788	Ja 43 My 1,375 Ap 845 Fe 12 My 181	1, 983 984 16 771	1,683 747 16 742	297 236	2	107,021 16,082,329 3,147,044 11,829 2,031,229
30 31 32	water heating apparatus. Stereotyping and electrotyping Stoves and hot-air furnaces. Structural ironwork, not made in steel works or rolling mills.	5 5 21	154 2,715 1,990	3 10	14 02 79	8 204 317	8 93 127	121 2,356 1,457	De 131 No 2,553 De 1,872	Ja 92 Ja 2,098 My 1,101	131 2,442 1,872	126 2,415 1,849	4 19 22	1 8 	191,007 9,859,356
33 34 35 36 37	Tobacco, cigars and cigarettes	73 74 6 7 6	3,735 2,729 22 65 40	65 47 10 9 7	177 102 3 3	47 92 4 5	25 101 3 5	3,421 2,327 12 46 20	No 3,627 No 2,843 Jy 4 11 Jy 4 47 Je 30	Je 2,717 Fe 1,955 Mh 4 7 Ja 4 44 Fe 14	3,612 2,737 28 46 30	346 2,630 4 40 30	3, 204 106 23 6	1 1	6,006,985
38 39 40	weather strips. Wirework, not elsewhere specified. Wood, turned and carvel	17 4 280	890 65 38,301	13 2 137	44 5 1,416	17 3, 152	26 4 1,739	790 54 31,857	Au 978 Oc 4 66	Jy 477 Ja 40	772 64 34,189	575 62 27, 858	197 6, 178	2 116 3	1,696,059 101,337 211,983,760

ing bags made in textile mills. Belting, leather

1	Cash registers and calculating ma-
ı	_ chines
ļ	Cement
į	Chowing gum
Ì	Clocks
Į	Cloth, sponging and refinishing
ì	Coal-tar products
	Condensed milk
	Cooperage
	Cordials and flavoring sirups
	Corsets
	Cotton goods
	Cutlery and edge tools
	Dairymen's, poultrymen's, and apia-
	rists' supplies.
	Dental goods
	Druggists' preparations
	Dyeing and finishing textiles, ex-
	clusive of that done in textile mills.
	t ciusive of that nous in textile mills.

- 1	Emery and other abrasive wheels	. 1
5	Enameling	ì
1 1	Engraving and diesinking	
1	Engraving, wood.	
1 2	Envelopes.	- 9
1	Fancy articles, not elsewhere speci-	
1	fled	·e
	Fertilizers	
1 3	Files.	- 1
1	Fire extinguishers, chemical	ï
2	Flags and banners.	:
ī	Flavoring extracts	-
î	Flour-mill and gristmill products	1
-	Foundry supplies	- 1
1.	Furs, dressed	
7	Galvanizing	
10	Gas and electric fixtures	4
	Gas and water meters.	T
1	Gos illuminating and hasting	
1	Gas, illuminating and heating	

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).

			EXPE	nses.			\$ 1					PO	WER.			
Sala	aries and wages. Rent and taxe				nd taxes.	For mat	terials.	1.			Prin	ary ho	sepow	er.	_	Elec-
Officials.	Clerks, etc.	Wage carners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Own Steam tur- bines.	Inter-	Wa- ter pow- er.1	Rent- cd. ²	tric horse-power generated in establish-ments reporting.

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

Dollar 116, 7 212, 9	13 73, 232	Dollars. 406,130 1,483,932	Dollars. 1,000	Dollars, 14,718 43,373	Dollars. 146, 453 38, 543	Dallars. 1, 026, 670 296, 172	Dollars. 31,877 16,178	Dollars. 2,384,184 2,703,024	Dollars. 1, 325, 637 2, 390, 674	803 438	40			763 438	8	1 2
31, 6 28, 4 237, 5 550, 0 404, 5	59 500, 138	81, 422 153, 646 576, 905 1, 021, 230 980, 888	1,667 8,876 4,676	2,678 1,700 28,510 44,910 28,398	10,218 3,408 239,164 295,970 283,208	2,550,973 323,255 3,742,397 3,373,310 2,890,212	20, 325 4, 851 54, 476 56, 660 53, 228	2,819,776 866,904 7,036,782 8,091,447 7,280,137	248, 478 539, 798 3, 239, 909 4, 601, 477 4, 336, 697	321 141 1,826 794 719	200 90 675 535 535			121 51 1, 151 259 184	279 840 840	3 4 5 6 7
86,1		40,342	1, 200	16, 512	12,672	483, 098	3, 432	811, 310	324, 780	75		••••	,.	75		8
46,6 87,0 55,3 17,6	02 60,231 09 37,978	91, 044 270, 990 112, 477 114, 212	21,066	17, 096 21, 216 6, 849 6, 904	25,685 6,455 17,920 7,013	330, 886 95, 345 477, 494 200, 041	4,688 6,107 8,638 10,600	717, 050 850, 812 892, 635 516, 194	381, 476 749, 360 406, 505 805, 553	125 117 100 219	30 30 125			95 117 70 94	125	9 10 11 12
769, 8 709, 2 22, 8 37, 6	66 418,729	2,769,607 2,572,516 2,548 194,543	441, 130 310, 865 128, 596 1, 669	245, 545 227, 895 8, 508 9, 142	188, 521 181, 808 4, 276 2, 437	4, 121, 348 4, 033, 006 55, 802 32, 540	73, 102 69, 273 424 3, 405	11, 430, 857 10, 270, 035 720, 265 440, 557	7, 236, 407 6, 167, 756 664, 039 404, 612	2,023 1,977 46		5 5		2,018 1,972 46		13 14 15 16
587, 8	35 1, 495, 641	1,783,875	363, 137	66,659	608, 914	4, 945, 757	50, 967	14, 017, 463	9,020,739	2,948		40		2,908		17
833, 3 88, 0	11 1,169,110 40 145,910	1,358,841 408,219	379 1,300	19,885 17,055	547, 712 21, 568	4,277,812 469, 2 50	37,140 13,230	11,321,031 1,318,577	7,006,079 836,097	2,466 446	ļ	40		2,466 406		18 19
165,9 18,2	75 180,621 80 24,704	16, 815 119, 857	361,458	29,719 2,119	39, 634 3, 473	198, 695 1, 313, 923	597 16,643	1,377,855 1,693,309	1, 178, 563 362, 743	36 326	15			36 311		20 21
288,0 18,6 2,8 21,6 289,8 230,3	64 4,324 90 3,700 97 8,231 48 341,273 42 92,985 780	1,575,027 147,648 30,228 94,477 2,170,786 1,090,826 19,415 767,442	26,084 7,269 4,850	2,750 3,770 5,576 6,279 1,540 19,117 2,850 8,395	344, 448 792 500 1, 305 172, 595 480, 768 44 28, 219	2, 658, 853 103, 359 115, 295 101, 511 47, 993, 092 3, 414, 629 8, 348 882, 597	82,554 2,576 210 780 178,125 65,670 459 75,317	6,019,583 287,998 176,915 305,208 57,648,125 6,973,264 54,757 1,950,840	3, 278, 176 182, 063 61, 410 202, 917 9, 476, 908 3, 492, 965 45, 950 992, 926	2, 920 85 7 2 4, 352 1, 160	2,615	500		2,420 85 7 2 1,237 1,160	1, 259 1 79	22 23 24 25 26 27 28 29
56, 2 390, 2 360, 3	82 15, 207 36 487, 761 483, 740	174,078 3,499,130 2,345,906	494	13,979 22,879	5,739 325,073 411,050	77,035 2,667,070 7,200,330	10,278 157,670 179,008	535, 989 10, 144, 806 11, 271, 015	448, 676 7, 320, 066 3, 891, 677	265 3,591 2,941	2,100	30 80 4		265 1,381 2,937	1,502	30 31 32
321, 704, 5,8	64 296,335 90 6,684	2,820,710 3,838,302 9,034 58,725 38,141	10,910 10,300 200 750	76, 357 109, 138 2, 540 9, 200 4, 721	1, 347, 641 311, 502 3, 135 4, 159	5, 532, 945 2, 322, 691 19, 252 93, 214 90, 816	23,936 105,534 388 1,294 997	11,606,301 9,216,733 42,807 202,955 190,227	6, 049, 420 6, 788, 508 23, 167 108, 447 08, 414	123. 2, 351 5 22 54	100	12		123 2,239 5 22 54	1	33 34 35 36 37
128, 8 15, 0 5, 282, 8	50 4.587	994, 416 66, 244 45, 019, 210	5, 115 137, 381	18,683 2,988 409,616	78, 268 3, 358 17, 449, 699	1, 323, 661 24, 524 88, 555, 444	33, 150 2, 567 5, 107, 130	2, 930, 334 199, 032 233, 407, 399	1,573,523 171,941 139,744,825	1, 104 152 65, 877	400 100 24,075	i, 911 i, 539		704 52 28, 352	3 33,195	38 39 40

roung mus
Iron and steal, holts mute washere
and fivels, not made in rolling
Iron and steel, doors and shutters.
Lithographing. Looking-glass and picture frames. Malt
Looking-glass and picture frames
Mirrors, framed and unframed, not
cisewhere specified
MODULUSCHES, DIOTOLOG GOLD CONFO
muchage, paste, and other adhe-
musical instruments and materials.
not specified

Iron and steel, steel works and

el, steel works and	- I	Musical instruments, pianos
************	5	Needles, pins, and hooks and eyes
bolts, nuts, washers,	1	Oleomargarine and other butter sub-
not made in rolling	- [stitutes
	· 41	Danes and speed with
doors and shutters	4	Paper and wood pulp
	3	Paper goods, not elsewhere speci-
	1.	fled
dectors	5	Paving materials
e, and sheet	i l	Pottery
	9	Printing and publishing, music
and picture frames		Triusing and publishing, music
mu preture traines,	6	Printing materials
	2	Pumps, not including power pumps.
d and unframed, not		Refrigorators
ecified	1	Roofing materials
icycles, and parts	7	Rubber tires, tubes, and rubber
te, and other adhe-	+	Actions circs, earlies, and rubber
oo, and other adne-	_	goods, not elsewhere specified
ewhere specified	2	Saddlery and harness
ments and materials,		Salt.
l	1.	Sand-lime brick

^{1 |} Saws.
2 | Scales and balances.
Shipbuilding, steel, new vessels...
1 | Show cases...
2 | Soppling and refining, not from the ore.
2 | Soppling and athletic goods...
2 | Springs, steel, automobile...
1 | Stationery goods, not elsewhere specified...
2 | Steel barrels, drums, and tanks...
3 | Steam packing...
2 | Steel barrels, drums, and tanks...
5 | Steoils and brands...
5 | Steoils and brands...
5 | Steoils and papliances...
3 | Suspenders, garters, and elastic...
1 | Tinware, not elsewhere specified...
4 | Same number reported for one

,,,	11,811	1,000		20,002	,,0, 100	30
2	snuff	iters a	nd sup	d smoki plies		12 1
	Uphols	ering		cials. n	ot else-	-
3	Varnish	es				3
ij	floori			l com	position	2
۱,	Washin	g me	chines	and	clothes	. *
l	wring	ers				1 2
3	Windov	y shade	es and	fixtures.		. 2
.	Wire		22			1
3.1	Wood r	reserv	ing			
3	specif	i god	os,	not el	sewnere	. 1
. 1						

^{*} Same number reported throughout the year.

⁴ Same number reported for one or more other months.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

					PERSO	NS ENG	AGED IN	THE IN	oustry.		WAGI NEARES	E EARNE: ST REPRE	RS DEC.	15, OR IVE DAY.	
						Clerks	, etc.		Vage earners	•		16 and	over.	Under 16.	
	INDUSTRY AND CITY.	Number of establishernnts	Total.	and firm mem- bers.	Sala- ried offi- cers, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average number.	Number, 15 Maximum month.	oth day of— Minimum month.	Total.	Male.	Fe- male.	Male Fe- mal	Capital.
	CITIES OF 50,000 INHA	ВІТА	NTS OR	MOF	E—AI	T INÎ	USTRI	ES CO	ABINED A	ND SPECII	TED IN	DUSTR	ES-C	ontinued.	
1	FLINT—All industries	107	28,575	95	1,065	1,650	1,162	24,603	De 29,414	Ja 18,356	29,411	27,021	2,380	10	Dollars, 124,142,377
2 3 4 5 6 7 8 9	Artificial stone products	5 3 4 20 6 5 5 3	19 1,218 29 285 54 26 521 93	6 21 11 3 2	38 1 12 2 18 14	1 61 1 60 1 2 33 4	25 1 22 2 2 1 27 3	12 1,094 22 170 40 18 441 72	Jy 3 16 Se 1,357 Se 3 24 Au 198 Jy 3 48 Se 23 Jy 523 My 76	Ja 3 7 Ja 827 Ja 20 Fe 152 Ja 3 36 Ap 14 Ja 328 Ap 67	13 1,215 25 178 38 21 448 70	13 1,203 24 153 23 21 297 70	1 24	1	18,895 679,649 55,184 54,768 906,796 251,043
10 11 12 18	Mineral and carbonated waters Printing, job Tobacco, cigars All other industries*	3 9 7 37	20 103 67 26,140	7 6 10 25	1 11 967	$1 \\ 2 \\ 1 \\ 1,483$	6 1,075	78 55 22,590	Au 19 Jy 93 De 78	Ja 5 Ap 60 Je 43	83 75 27, 237	8 47 19 25,143	35 56 2,088	8	
Bla	*All other industries embrace— tomobiles	Butte	ns, from h rge and wang, men's		neterial		1 1	and sur Flour-mi	plies Il and gristm	y, apparatu ill products. I heating	3 1	ce, manu ron and steel wo	steel, fo	orgings, n	ot made in lls 1
1	GRAND RAPIDSAll industries.	611	27,927	452	1, 242	1,641	1,044	23,548	De 26,918	Ja 20,724	27, 431	22,146	4,928	214 14	
2 3 4 5 6 7 8 9 10 11 12 13	Artificial stone products. Automobile bodies and parts. Automobile repairing. Bookbinding and blank-book making. Brass and bronze products. Bread and other bakery products. Butter. Cleansing and polishing preparations. Clothing, men's Clothing, burialéases, and undertakers'	3 8 4 74 75 3 3	10 1,263 181 202 86 380 787 99 3 38 68 120	2 12 11 4 84 1 2 2 2 4	1 76 20 14 6 20 9 5 1 3 4	20 68 14 22 4 22		1,089 143 150 73 316 588 57 30 52 78	Jy ³ 7 No 1,447 De 180 Jy 191 De 92 No 392 No 652 Jy 77 Ja ³ 32 Au 84 De 87	Se 128 Ja 106 My 60 Je 245 Je 3 559 No 44 My 3 28 Ja 25	1,434 180 131 92 383 633 47 31 70 87	1,363 177 128 45 321 363 37	70 3 44 62 266 10 19 68 26	3	915, 494 473, 540 121, 848 825, 566 4 1, 797, 637 541, 665 19, 609
14 15 16 17 18 19 20 21 22 23	goods. Confectionery and ice cream. Confectionery. Ice cream. Copper, tin, and sheet-iron work. Electroplating. Flour-mill and gristmill products. Foundry and machine-shop products. Foundries. Machine shops. Boller shops and machine shop and foundry combined.	13 10 7 3 9 41	370 311 59 60 26 201 1,430 450 832 148	25 14 11 5 1 10 27 3 22 2	3 8 3 19 75 14 53	33 5 2 1 29 66 18 44	19 52 3 45	124 1,210 412 668	Oc 290 Jy 71 Jy 58 No 29 Au 133 De 518 De 821 De 148	Ap 340 Ja 568	1,491 522	143 102 41 50 24 122 1,438 487 803 148	53 35	3	1 898, 842 242, 518 146, 248 17, 300 1, 737, 967 3, 494, 018 1, 158, 628 2, 131, 906 202, 484
24 25	Furniture Wood, other than rattan and willow.	71 58	10,444 8,731	37 34	300	239	185	7,967	De 9,416	1		9,910 8,374	977	40	7 27, 452, 997 5 22, 546, 800
26 27 28 29 30 31 32	Rattan and willow, and metal furniture. Store and office fixtures	. 3	281 1, 432 818 597 230 105 431	1 7 	34 19 16 13	183 32 31 31 31 73	55 32 25 21	1, 159 728 - 526 208 77	De 1,356 De 961 No 625 Fe 236 Jy 126	Jn 940 Fe 522 Je 455 De 179 De 3	1,357 941 615 216 53	124 211 53	78 318 487 5	18	2 454, 430 4, 451, 767 1 1, 961, 568 4 2, 290, 461 932, 390 729, 775 1, 766, 094
38 34 35 36 37	with sawmills. Marble and stone work, monuments and tombstones. Mineral and carbonated waters Patent medicines and compounds. Patent and proprietary medicine. Patent and proprietary compounds, not elsewhere speci-	7 13 10 3	30 70 59	10		1 3 7 7 2	3 2	2 20	Jy 3 De 5	3 Ja 11	15 63 55	15 7 3	56 52		76, 083 123, 139 36, 683 86, 456
38 39	fled. Phonographs and graphophones Printing and publishing, book and	1 1			1 5 5	9 2		108 4 457		6 Ja 2'	7 268 505				- 11
40 41 42	job. Job printing Book publishing without printin Book publishing and printing, and linotype work and type- setting.	g 46	35	11 3	3	6 3 2 1	9 1:]]			13	1, 285, 515 26, 830 60, 178

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).

$\stackrel{\cdot}{\text{MANUFACTURES}} \stackrel{\cdot}{\text{--MICHIGAN}}.$

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

		EXP	enses.			·	·				1	POWER			
Salaries and	1 wages.		Rent ar	ıd taxes.	For mat	terials.				Prin	ary ho	rsepow	er.		Elec-
officials. Clerk	s, Wage	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter nal- com- bus-	Wa- ter pow- er.1	Rent- ed.2	horse power gener ated in

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

	OITIL	1D O)															
Dollars.	Dollars.	Dollars. 38, 092, 615	Dollars. 18, 111	Dollars. 190, 352	Dollars. 12, 134, 492	Dollars. 170, 650, 052	Dollars. 2, 173, 712	Dollars. 275, 779, 638	Dollars. 102, 955, 874	33,610	2, 198	2, 150	127	100	29, 035	1,625	1
122, 818 2, 600 30, 590 6, 800 59, 010 14, 617	1, 200 87, 114 1, 816 45, 213	15, 390 1, 357, 508	3,472	2,015 12,810 9,700 1,730 10,136	516 111, 840 206 22, 336 1, 331 6, 759 51, 379 6, 518	26, 303 5, 792, 502 76, 600 1, 013, 978 203, 719 45, 306 1, 093, 704 337, 705	2,606 62,619 1,612 21,889 4,585 362 22,936 8,010	82, 731 8, 537, 634 142, 688 1, 621, 915 383, 488 115, 721 2, 148, 759 484, 834	53, 822 2, 682, 513 64, 476 586, 048 175, 184 70, 053 1, 032, 119 139, 119	37 2, 354 47 147 27 9 338 475	15 500 120		22		1,854 47 147 27 9 338 355	200	2 3 4 5 6 7 8 9
14, 617 1, 663 33, 718 1, 300 2, 556, 441		12, 286 86, 714 100, 098	14.392	910 12, 294 2, 415 136, 656	394 2, 318 17, 056 11, 913, 119	49, 295 134, 245 80, 475 161, 790, 220	1, 152 4, 556 490 2, 042, 895	103, 099 363, 703 173, 701 261, 621, 365	52, 652 224, 902 92, 736 97, 782, 250	13 90 1 30,072	1, 563	2,150	100	100	1	1, 425	10 11 12 13

Marble and stone work, monuments and tombstones. Mattresses and spring beds, not elsewhere specified.... Paints.
Patent medicines and compounds...
Printing and publishing, newspapers and periodicals......

W Alox	0.00														 	·	
4, 556, 2	267 4. 18	4, 226 2	6, 170, 377	, 228, 015	446, 774	3, 503, 391	49, 213, 898	1, 947, 863	100, 135, 055	57, 973, 294	44, 048	22, 578	3, 053	679 922	16, 816	6, 817	1
271, 1 51, 0 39, 0 34, 0 62, 1 15, 1, 6,	100 154 667 11 640 3680 231 4 910 16 635 4 300 800	75 1, 541 7, 573 5, 383 2, 506 0, 438 0, 535 18, 186 780 4, 203 19, 742	7, 580 1, 544, 058 206, 125 156, 446 65, 623 329, 061 441,746 69, 558	600 1,040 12,662 42 1,740	500 35, 583 8, 099 2, 290 8, 112 19, 422 3, 452 180 4, 386 2, 876 2, 290	89 358, 468 16, 491 6, 712 1, 976 13, 063 29, 382 11, 026	11, 557 2, 608, 235 569, 819 610, 484 88, 476 302, 526 2, 173, 459 1, 422, 753 2, 256 113, 736 83, 747 274, 962	824 62, 980 0, 652 5, 040 1, 618 22, 309 54, 530 11, 284 9 2, 119 484 7, 115	29, 782 5, 656, 674 1, 254, 478 1, 038, 425 206, 566 910, 555 3, 605, 027 1, 647, 484 7, 200 227, 142 200, 917 537, 468	17, 401 2, 985, 459 675, 007 422, 901 181, 472 585, 720 -1, 377, 038 213, 447 4, 935 111, 287 106, 686 255, 381	7 1,940 191 133 33 478 424 234 18 14 238	70		1	5 830 176 132 33 278 344 234 18 14 238	210	2 3 4 5 6 7 8 9 10 11 12 13
15, 4, 73, 226, 63, 134.	104 11 723 10 381 360 940 013 6 218 15 950 5	70, 085 11, 219 03, 554 7, 665 5, 224 1, 435 64, 340 21, 375 29, 469 84, 782 7, 174	67, 159 182, 891 186, 312 46, 579 53, 715 23, 736 143, 090 1, 484, 394 568, 195 761, 086 155, 113	100 4,062 4,062	23, 607 20, 397 3, 210 1, 889 1, 278 423 70, 393 70, 393 35, 496 34, 522	13, 466 219, 395 217, 785 1, 610 1, 184 209 33, 943 92, 419 31, 542 43, 851 17, 926	1, 266, 838 910, 523 356, 315 117, 638 6, 131 4, 921, 985 1, 520, 210 471, 272 944, 409 104, 529	18, 649 11, 390 7, 259 1, 599 3, 554 30, 420 156, 723 100, 919 46, 087 9, 717	2, 344, 079 1, 847, 950 497, 029 248, 122 49, 805 5, 453, 586 3, 987, 657 1, 479, 688 2, 170, 741 337, 228	1, 059, 492 926, 037 133, 455 128, 885 40, 180 501, 181 2, 310, 724 907, 497 1, 180, 245 222, 982	426 204 222 36 53 1, 937 2, 569 731 1, 516 822	185 185 	25 25	862 <i>i</i> 147	1,722 346 1,129 247	345 254 115 136 3	14 15 16 17 18 19 20 21 22 23
1,603 1,340	827 1, 5 , 065 7	16, 798 97, 524	10, 594, 498 8, 942, 732	54, 599 46, 893	65, 092 60, 694	969, 706 837, 770	13, 562, 587 10, 893, 833	320, 303 251, 555 9, 293	34, 962, 294 28, 400, 720 894, 654	21, 079, 404 17, 255, 332 540, 821	11, 815 9, 615 337	9, 057 7, 722 250		71		1, 591 831	24 25 26
201 88 68	,622 7 ,784 ,150 ,948 ,225	11, 879 107, 395 86, 440 25, 100 12, 107 27, 442 54, 211	250, 437 1, 401, 329 778, 899 440, 044 219, 552 96, 088 397, 512	7,706 141,341 119,863	4,308 90 2,991 7,640 1,270	7, 385 124, 551 65, 334 91, 392 28, 466 46, 045 32, 755	344, 540 2, 324, 214 826, 065 1, 254, 395 916, 484 107, 800 1, 010, 278	59, 455 22, 977 15, 862 28, 631 35, 031	5, 666, 920 2, 802, 248 2, 478, 656 1, 885, 337 489, 563	3, 283, 251 1, 953, 206 1, 208, 399 940, 222 346, 723	936	1,085 575 200 368 700 1,500	45		778 234 90 550 236 228	11	27 28 29 30 31 32
	500	23, 394	44, 266	400	108	1,534	85, 838	3, 328	190, 403	101, 237	168				168	1	33
13	2, 430 3, 996 0, 746 3, 250	1, 320 3, 102 1, 002 2, 100	21, 316 28, 788 25, 988 2, 800	25	2,270 1,700 1,580 120	4, 294 2, 640 684 1, 956	90, 548	5 2,350 5 750	[129,00a	132,652	36	}			16 36 6		35 36 37
3 13	6, 273 5, 487	99, 812 89, 631	121, 133 710, 884	712, 169 81, 229	2, 456 27, 497	86, 686 18, 798	559, 030 606, 678	5, 130 8 17, 38	1, 996, 429 1, 775, 419	1, 432, 260 1, 151, 353	133 594	120			133	98	
12	29, 897 4, 550 1, 040	77, 521 10, 788 1, 322	691, 607	61, 596 19, 633	24, 564	17,96°	558, 520 1, 39	16,85	51,84	9 50,450	5	1 120			47	3	40 41 42
1	i		1	1	1	1	1	i	11	1	11	11		, ,	,	**	•

Same number reported for one or more other months.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

			,		PERSO	NS ENG	AGED 1	n the ii	NDUSTRY.		WAG NEARE	E EARNE ST REPRI	RS DEC	. 15, or	у.	
		ents.			Sala-	Clerks	, etc.		Wage earne	rs.	.v :	16 and	over.	Under	16,	
	INDUSTRY AND CITY.	Number of establishments	Total.	Pro- prie- tors and firm mem- bers.	ried officers, super-in-tend-ents, and managers.	Male.	Fe- male.	Average number.	Number, 18	Minimum month.	Total.	Male.	Fe- male.	Male 1	Fe- nale	Capital.
	CITIES OF 50,000 INHA		NTS OR	MOR	E—AL	L IND	USTRI	ES COM	IBINED AI	ND SPECIF	IED IN	DUSTR	LES-C	ontinu	3d.	
1 23 153 7890123	GRAND RAPIDS—Continued. Printing and publishing, newspapers and periodicals. Printing and publishing. Printing, publishing, and job printing. Fublishing without printing. Saddlery and harness. Sausage, not made in slaughtering and meat-packing establishments. Saws Shirts. Signs, other than electric. Tobacco, cigars. Tools, not elsewhere specified. Wood, turned and carved. All other industries*.	25 3 10 134	580 417 146 17 27 15 68 23 701 7 139 7,350	11 2 3 6 2 5 2 1 4 24 3 11 74	34 16 13 5 2 4 4 3 32 7 352	164 145 14 5 	62 45 17 1 2 3 9	309 209 99 1 23 9 6 40 16 678 4 116 6,141	De 152	Jn 4 13 De 625 (8) 4 Ja 85	333 220 112 1 23 10 7 37 16 779 6 151 6,839	264 197 66 1 23 10 7 8 16 106 4 141 5,425	664 10	2 2	7	Dollars, 1, 169, 007 792, 213 309, 377 7, 488 105, 151 328, 900 23, 866 58, 089 21, 783 869, 460 17, 877 220, 040 24, 059, 566
and	*All other industries embrace—minum manufactures 11 tificial limbs 1 1 mings, tents, and sails 1 1 skets, and rattan and willow ware 1 lting, leather 2 teking, stains, and dressings 1 tots and shoes 2 xes, cigar 1 xes, paper and other, not elsewhere specified 2 xes, woden packing, except ligar boxes 1 tooms, from broom corn 2	Carpe Carri rep Cars and con Cars an par Cash	nes	d wag eral she s by eral she by stea	ons, in op conselectric consumeration	ncluding struction struction oad com-	2 1	Dental g Electrica supplice Engravir includi includi flavorin Flavorin Food pr specific Fur good Gas, illu Gas ma	oods I machinery, s ng, steel and ng plate pri rticles, pape g extracts. reparations, ed ls. minating an chines and	sirupss apparatus, a 1 copper pla nting r novelties not elsewh d heating gas and wa	te, 2 te, 2 ere 3 2 tter	Glovesa	nd mitt ves mad and ta ating gr rk amps ad cap and w and w arnishir specif	ens, clo le in ta llow, r eases s, other col ng good led red	th, no xtile i not ir er th	t includ- nills neluding an felt, ot else-
1	LANSING—All industries	147	14,297	100	509	739	600	12,349	No 13,712	·	12,770	11,765	987	17	1	61,031,50
234567890 1	Artificial stone products. Automobile bodies and parts. Automobile repairing. Bread and other bakery products. Copper, tin, and sheet-iron work. Engines, steam, gas, and water. Flour-mill and gristmill products. Froundry and machine-shop products. Iron and steel, forgings, not made in steel works or rolling mills. Iron and steel, welding.	8 10 5 4 3	6	10 16 4 3 4	46 2 60 21	56	31 3 9 2 30 4 67 17	19 2,202 25 69 25 838 20 983 689	Jy 4 30 Au 4 71 Oc 35 De 939 Oc 25 De 1,148 Oc 927	Mh 67 Ap 18 Ja 715 Je 14 Mh 866 Ja 515	14 2,204 22 66 36 939 24 1,143 780	14 1,919 21 59 36 884 22 1,036 717	285 1 7 52 2 98 63	3		58, 32 6, 596, 26 85, 07 166, 16 94, 31 3, 271, 76 334, 86 4, 189, 11 2, 509, 75
2	Lumber, planing-mill products, not including planing mills connected with sawmills.		208		23	20	7	158	(3) 3 Se 180	(3) 3 Fe 125	173	173				1,146,00
L	Models and patterns, not including paper patterns. Printing, job. Printing and publishing, newspapers	17 5	210 147	3 14	13	3 33	5 27	175	De 1 6	Mh 4 4 Ja 160	182	108	71		1	15,8 390,2 399,0
67	and periodicals. and periodicals. Tobacco, cigars. All other industries *		15 8,240	4 34	276	487	1 397	82 10 7,046	De 4 93		93 12 7,074	54 3 6,711	38 9 361			19,6 41,741,4
38	*All other industries embrace— stomobiles	Bras Bric Broc Butt Carp Carri	es, cigars and broke, buildings, from erets, raglagesand	broom	oducts. corn. repair	workon	ly 1	Commo.	During Cases.	undergarm grinding and undertal	1	Confecti Dairym rists's Druggis Electric suppli Furnitu	en's, po supplies ts' prep	aration inery,	en's, appar	and apix

¹ Includes water wheels and turbines (trespective 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.

	4.4		EXPEN	es.		arms to a feet	1 11: 1		-	ĺ		POW	ER.			
Sala	ries and w	ages.		Rent a	nd taxes.	For mat	terials.				Prin	nary hor	sepow	er.		Elec-
			For		Taxes,	- 4 1 - 1144-1 - 4 1 - 1144-1		Value of products.	Value added by manufac-			Own	ed.			tric horse- power
ficials.	Clerks, etc.	Wage earners.	contract work.	Rent of factory.	rederal, state, county, and local.	Principal materials.	Fuel and rent of power.		ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion on- gines.	Wa- tor pow- er. ¹	Rent- ed.2	gener- ated in estab- lish- ments report- ing.
	CITI	ES OF 50,0	00 INHA	BITANT	OR MOR	E—ALL II	NDUSTRI	ES COMBII	NED AND	SPECIF	IED IN	DUSTR	IES-	Contin	ued.	<u> </u>
<i>llars.</i> 3, 818	Dollars. 253, 034	Dollars. 306, 834	Dollars. 64, 950	Dollars. 18, 256	Dollars. 98, 975	Dollars. 582, 223	Dollars. 17, 153	Dollars. 2, 343, 763	Dollars. 1,744 387	600					600	
8, 170 2, 533	214, 091 32, 126	209, 375 96, 575	50, 000	16, 320 1, 108	92, 518 6, 395	485, 081 93, 712	13, 371 3, 782	1, 771, 394 531, 343	1, 272, 942 433, 849	492 108					492 108	
, 115 , 900	6, 817 600	23, 338 13, 090	14, 800	828 250 780	62 328 126	3, 430 192, 399 94, 639	220 2, 412	41, 026 253, 775 121, 993	37, 596 61, 156 24, 942	7 53					7 53	
0, 200 8, 022 6, 307 2, 941 5, 078 8, 597	2, 025 2, 750 78, 540 7, 553 1, 135, 727	7, 355 26, 753 18, 138 507, 433 4, 200 137, 721 6, 828, 763	5, 588 16, 886 9, 960	1, 015 1, 716 675 11, 363 720 6, 494 109, 653	359 489 328 313, 859 2, 001 937, 004	12, 824 72, 026 16, 077 790, 054 12, 410 89, 710 12, 202, 025	540 435 64 3, 162 187 9, 105 1, 049, 570	40, 177 176, 500 57, 331 1, 982, 897 23, 900 342, 335 27, 433, 945	26, 813 104, 039 41, 190 1, 189, 681 11, 303 243, 520 14, 182, 350		7, 153				27 10 288	3, 448
ograpl ding-gl iber an hine to dresses dere ap inery	ning ass and pictimber sols and sprin ecified and lace	cture frame products. g beds, not goods, not	olse- elso-	Obtron 8	0003	s and mater s, planos , plano mater pewhere speci notics	**** * 1 !	Roofing mate Rubber tire goods, not Sand-lime br Soap. Steam fitting water heat Steam packin Steand l	s, tubes, ar elsewhere sp lck gs and stear	nd rubb pecified n and ho	or 2 1 ot-	Trunks Typewr Upholst Varnish Vinegar Windov	and variers a ering r es and ci	illses nd par naterio der door	ts	sior
5, 320	1, 535, 491	13, 957, 051	14, 370	55,651	3, 776, 420	63, 783, 131	1, 198, 209	104, 722, 115	39, 740, 775	23,602	4,907	100	6	243	18,346	2, 129
2,500 9,627 9,300 0,925 5,625 2,900	1,300 121,095 4,529 10,356 4,747 85,813 8,960 102,722 112,527	27, 876 2, 485, 552 38, 710 88, 832 31, 664 936, 176 24, 735 1, 092, 396 913, 826	9,054	1,840	186 270, 825 12, 804 3, 897 1, 078 283, 466 3, 021 340, 476 140, 683	46,673 4,957,424 111,654 514,412 03,270 1,382,055 767,650 2,055,379 2,319,385	1, 904 64, 426 4, 540 12, 987 366 86, 104 5, 157 53, 325 169, 741	114, 415 9, 229, 855 207, 429 840, 135 168, 453 3, 227, 820 846, 933 4, 556 250 4, 174, 718	65, 838 4, 208, 005 91, 235 312, 736 74, 817 1, 758, 761 84, 126 2, 447, 546 1, 685, 592	17 4,420 46 122 2 1,182 503 1,822 2,500	1,875 460 550 520	100	6	213	17 2,545 46 122 2 716 290 1,142 1,989	1,310 300 480
2,548	44,813	4, 732 175, 068		2,400 3,080	20,008	8, 960 1, 632, 779	426 10, 971	25, 198 2, 226, 531	15, 812 582, 781	11 564	60				1 1 504	
, 548), 696		5, 538		. 540 15, 937	50 6,050	6, 241 239, 463	759 5,775	17, 825 665, 197	10, 825 419, 959	23 139					23 139	
2, 548 0, 696 3, 400	9,629	214.072	2.613		2,000	1 740, 440	4,664	495, 507	347, 430	117]			l	139 117	
2,548 0,696 3,400 8,860 9,860	9, 629 34, 800 720 993, 480	214, 072 82, 651 9, 852 7, 825, 371	2,613 2,368	1, 440 1, 500 8, 840	17,592 4,240 2,654,029	143, 413 13, 997 49, 499, 476	227 776, 837	35, 537 77, 890, 312	21, 313 27, 613, 999	12,125	1,442				10, 683	39

³ Same number reported throughout the year.

Same number reported for one or more other months.

TABLE 36 -DETAILED STATEMENT OF ALL INDUSTRIES

1, 207 896 6, 921 73, 228

					PERSO	ns eng	AGED II	THE IN	DUSTRY.		WAG NEARE	E EARNE! ST REPRE	RS DEC. SENTAT	15, 0 IVE D	R AY.	
		.33			Sala	Clerk	s, etc.	: 7	Vage earners			16 and	over.	Unde	er 16.	
		Number of est	Total.	and firm mem- bers,	Sala- ried offi- cers, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.	Maximum month.	Minimum month.	Total.	Male.			Fe- male	Capital.
	CITIES OF 50,000 INHAI	BITAN	TS OR	MOR	E-AL	L IND	USTRI	ES COM	IBINED A	ND SPECIE	MED IN	DUSTR	IES-C	ontin	ued.	
1	SAGINAW—Allindustries	208	11,116	180	424	625	415	9,472	No 11,379	Ja 7,990	11,350	9,415	1,881	38	16	Dollars, 45, 240, 48
3 4 5 1 1 1 5 6 7 8 9 0 0 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Artificial stone products	6 5 4 4 3 18 3 17 10 17 11 6 3 3 11 1 5 3 4 4 14 18 74	44 270 8 27 313 24 47 3,182 787 2,395 9 86 537 29 18 21 139 113 6,198	6 1 4 5 23 8 16 3 3 3 15 17 21 21 43	9 27 2 2 2 4 12 4 225	366	28 2 4 17 225	31 222 4 19 240 0 15 29 24 2,827 682 2,145 3 70 436 11 13 12 91 86 5,339	No 98 De 103	Mn 2 De 26 Mh 368 Ja 7 Mh 10 (3) 12 Ap 88 Jy 74	8 96 110 5,987 kers'	4,459	13 1 5 16 44 1,478	34	16	89, 63 768, 52 3, 94, 93 36, 14 565, 22 99, 71 15, 11 84, 7, 19, 355, 8 3, 321, 2 16, 034, 6 4, 9 4, 9 2, 216, 6 38, 1 33, 8 125, 4 397, 6 20, 740, 1
Aut Awi Boo Box Box Can Can	*All other industries embrace— comobiles	Cash Chem Cloth dres Coal- Coffee	and ger repairs ties registers ticals ing, wor sses, exc tar produce, roastin	and p men's, ept ho nots ng and	shirt use dre	vaists s	nd 1	goods. Coopera Corsets. Electric suppli Electroj Enamel Engines	ge, hogshead al machiner ies olating ing s, steam, gas	s and barrels y, apparatus , and water	and 1 2 1 2 2 2	Flags an Flour-n Fur goo Furnitu Gas, illu Glass, imenti	ng plate nd bann nill and ds	print lers grist ing an	mill pro	oducts ing
1 2 3 4 5	ADRIAN. ALPENA ANN ARBOR BATTLE CREEK BAY CITY	62 38 78 118 108	2, 260 1, 500 1, 899 8, 346 6, 173	3 6 8	0 4 9 8 5 33	5 3 9 6 8 79	$egin{array}{c cccc} 6 & 1 & 6 \ 1 & 6 & 44 & 44 \ \end{array}$	7 1,375 8 1,615 9 6,68	2 Oc 1,59 2 Jy 1,71 0 Au 7.55	2 My 1,71 0 Fe 1,21 1 Ap 1,50 34 Ja 5,80 27 Au 4,30	2 1,67 8 6,72	0 1,40 4 1.50	06 10 03 17 04 99	1	3 4 20 1	H :
6 7 8 9	BENTON HARBOR. ESCANABA. HOLLAND. IRONWOOD ISHEEMING.	65 45 64 28	2, 879 992 3, 281 479 191	3 3		$\begin{bmatrix} 3 & 6 \\ 8 & 19 \\ 0 & 1 \end{bmatrix}$	$egin{array}{c c} 0 & 1 \\ 12 & 14 \\ 8 & 1 \\ \end{array}$	5 84	2 Fe 88 8 Se 3,0 9 De 4	32 Au 39 Ja 2,43 51 My 27	3, 24	0 65 3 2,62 3 42	57 2 28 5 25 41	17 12	9 22 20 11	14.0 1.1 1,5
11 12 13 14	JACKSON. KALAMAZOO. MARQUETTE. MONROE.	. 185 34 41	9, 53, 1, 60,	5 12 5 14	20 49 18 6 19 1	33 7 52 14 1	08 '	25 7, 62 40 1, 41 79 2, 90	29 De 8,7 15 My 1,4 14 De 3,1	24 My 7,00 69 Jo 1,20 35 Ja 2,6	30 8, 67 36 1, 44 78 3, 1	$ \begin{bmatrix} 6, 70 \\ 57 \\ 1, 40 \\ 1, 90 \end{bmatrix} $	$ \begin{array}{c c} 03 & 1,9 \\ 05 & 1,1 \\ 08 & 1,1 \\ \end{array} $	10 40 45	$egin{array}{c cccc} 22 & 3 & 3 & 26 \\ 12 & 1 & 1 & 1 \\ 16 & 25 & 26 \\ \hline \end{array}$	36,8 9,4 10,6
15 16 17 18	MUSKEGON OWOSSO. PONTIAC PORT HURON	78	2, 04 9, 16 2, 63	3 7 1	31 96 67 2	90 82 5 23 1	93 90 5 19 5	03 9,71 48 1,78 17 7,68 91 2,28 28 1,2	81 De 2,1 82 No 9,3 81 Oc 2,7	21 Fe 1,4 45 Ja 5,6 67 Ja 1,7	88 2, 1 22 9, 3 17 2, 8	21 1,8 17 8,6 61 2,4	20 9	11 199 122	16 2: 12 12	7,8 42,6

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 (ohiefly shaft-belt or transmitted power from neighboring power plants).

1, 421 1, 182 6, 806 69, 956

19 SAULT STE. MARIE.
20 TRAVERSE CITY.
21 WYANDOTTE.
22 ALL OTHER CITIES 5.

			EXPEN	BES.								POW.	ER.			
Salo	ries and w	ages.		Rent a	nd taxes.	For mat	terials.				Prin	ary ho	rsepow	er.		Elec-
)mcials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Internal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed.2	tric horse- power generated in estab- lish- ments report- ing.
	CITII	CS OF 50,0	OO INHAI	BITANTS	OR MOR	E-ALL II	NDUSTRI	ES COMBII	NED AND	SPECIF	LED IN	DUSTF	RIES-	Contin	ued.	1
Dollars. 450, 249	Dollars. 1, 373, 206	Dollars. 9, 963, 386	Dollars. 1, 262, 078	Dollars. 58, 590	Dollars. 1, 121, 658	Dollars. 20, 546, 630	Dollars. 769, 132	Dollars. 43, 146, 125	Dollars, 21, 830, 363	31,402	9,005	802	35		21 500	2, 541
9, 252 71, 191 6, 892 36, 944 8, 000 9, 653 8, 200 329, 724 115, 700 214, 024 17, 129 105, 970	2, 170 25, 643 1, 091 53, 666 7, 352 1, 360 1, 885 385, 185 106, 707 278, 478 8, 731 74, 489	42, 232 237, 603 4, 116 35, 343 169, 982 14, 806 20, 085 23, 575 3, 029, 118 1, 048, 590 1, 980, 528 5, 762 46, 903 348, 514	743, 505 8, 400 735, 165	1, 059 730 1, 101 950 5, 590 1, 200 2, 724 2, 160 50 710 2, 100	914 65, 733 127 6, 619 1, 071 1, 270 322, 198 106, 210 215, 988 38, 351 40, 982	50, 817 235, 667 17, 034 893, 939 645, 972 181, 119 58, 556 5, 906, 959 828, 756 5, 978, 203 1, 551 64, 240 1, 401, 133	1, 176 14, 816 588 1, 171 19, 801 3, 684 3, 521 701 231, 681 41, 726 189, 055 04 15, 384 16, 159	118, 760 695, 137 10, 808 117, 303 1, 479, 984 754, 126 309, 904 118, 920 13, 508, 454 3, 923, 729 10, 574, 725 11, 207 165, 744 2, 474, 337	66, 767 445, 254 8, 561 99, 158 566, 154 104, 470 125, 264 58, 763 7, 459, 814 2, 153, 247 5, 305, 567 9, 562 86, 120 967, 045	68 464 5 23 291 54 107 18 14,586 1,620 12,900 7 246 2,515	150 150 680 175 505 210 1,740	675	15		62 314 5 23 141 54 107 3 13,902 1,447 12,455 7 36 100	232 150 460 50 419 86 644
3,000 3,205 10,374 24,554 4,191 801,970	5, 025 1, 200 5, 662 16, 464 2, 125 781, 188	10, 163 12, 811 14, 082 90, 137 68, 228 5, 783, 326	3, 852 190 4, 454	144 757 650 11,331 1,735 25,593	423 1, 562 969 2, 976 23, 208 614, 638	25, 998 32, 717 57, 407 189, 763 114, 984 10, 577, 715	754 437 490 7,843 915 449,821	86, 162 81, 744 112, 602 401, 874 239, 512 22, 370, 387	59, 410 48, 590 54, 699 204, 268 123, 613 11, 342, 851	29 8 21 208 5 12,747	150 5,925	127	10		29 8 21 58 5 6,685	125

Graphite, ground and refined 1
Grease and tallow, not including
lubricating greases 1
Hand stamps 1
Leather, tanned, curried, and finished 2
Lumber and timber products 2
Machine tools 1

where specified.
Models and patterns, not including paper patterns.
Musical instruments, piano materials
Optical goods.
Phonographs and graphophones.
Pickles and sauces.

Sausago, not made in slaughtering and meet-packing establishments. 2
Saws. 1
Shipbuilding, wooden, small boats. 1
Show cases. 1
Structural ironwork, not made in steel works or rolling mills. 1

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

227, 368 181, 336 238, 415 1, 500, 311 1, 133, 186	353, 169 79, 249 134, 476 1, 506, 827 730, 588	1,714,133 1,528,379 2,102,025 8,667,501 5,392,522	1,327 20,989 61,768 58,509 6,490	25, 805 4, 908 16, 356 95, 131 91, 867	188, 498 335, 107 409, 172 2, 798, 882 1, 245, 158	9, 973, 970 4, 060, 687 5, 083, 093 20, 610, 926 14, 795, 768	178, 958 826, 788 293, 554 1, 377, 965 465, 828	14, 549, 031 9, 356, 190 9, 793, 696 56, 139, 953 28, 214, 525	4, 396, 103 4, 468, 715 4, 417, 049 28, 151, 062 12, 952, 929	3,317 23,318 3,629 22,432 14,540	1,396 4,300 1,036 7,457 5,772	14,350 644 1,692	5 .	68 ,100 ,881	1,820 2,533 2,588 12,437 7,076	1,225 11,047 13 5,187 4,520	1 2 3 4 5
510, 759 84, 160 513, 375 36, 145 58, 456	632, 923 98, 203 625, 862 23, 208 63, 125	2, 563, 222 875, 692 2, 708, 869 586, 658 124, 413	324, 232 150 5, 826 191 24	36,718 6,610 9,078 5,160 3,041	058, 386 66, 258 420, 350 15, 834 12, 843	4, 285, 508 1, 063, 448 9, 908, 362 519, 693 441, 074	346, 015 89, 483 256, 629 34, 458 41, 624	11,345,034 3,017,912 17,711,095 1,381,290 1,007,432	6,713,511 1,864,981 7,486,104 827,139 524,734	3,374 2,201 4,937 725 370	378 1,817 2,538 512 210	400	21 -		2,976 363 1,999 213 160	845 4 198	6 7 8 9 10
1,371,181 1,497,758 151,688 426,438	1,374,606 1,736,242 143,867 362,519	10, 898, 509 8, 162, 319 1, 592, 963 3, 362, 497	437, 842 32, 537 445 1, 422	97, 874 82, 699 8, 949 6, 025	605, 391 1, 611, 751 69, 171 683, 110	29, 006, 420 22, 857, 069 3, 817, 158 7, 595, 365	982, 292 1, 379, 274 848, 138 765, 762	49, 517, 712 46, 254, 917 7, 210, 375 16, 052, 331	19,529,000 22,018,574 2,545,079 7,691,204	18,744 26,147 6,138 14,563	1,715 16,013 2,580 11,137	30 1,432 1,000 1,425	40 . 115 2 73 -	140	16,959 8,447 2,556 1,908	410 6,987 1,231 3,571	11 12 13 14
1,129,120 308,206 1,462,366 372,273	274, 211	10, 852, 919 2, 220, 894 10, 880, 753 2, 482, 382	84,395 17,404 36,183	43,125 4,266 58,398 19,440	2,843,277 513,735 5,271,983 265,889	24, 585, 375 4, 873, 287 66, 076, 608 4, 447, 905	1,090,354 335,853 709,554 483,052	55, 969, 847 9, 948, 736 104, 990, 133 9, 545, 578	30, 293, 618 4, 739, 646 38, 203, 971 4, 614, 621	24,026 4,220 12,841 5,884	5, 253 2, 195 1, 033 1, 880	300 450	14 . 2 181 .	94	18,459 1,575 11,712 3,823	1,317 1,015 154 97	15 16 17 18
146, 505 137, 922 425, 341 11,930,110		1,532,761 846,635 10,659,415 103,194,750	11,211 200 2,004	6,354 9,965 1,900 19,561	553, 611 93, 443 1, 369, 706 47, 873, 654	2,198,406 10,562,077	2, 064, 327 83, 575 2, 877, 907 4, 085, 201	10, 699, 767 4, 099, 960 33, 382, 791 560, 208, 377	3,939,326 1,817,979 19,942,807 260,138,249	5,598 3,131 29,528 38,788	508 1,140 10,557 4,392	17,315 1,000	524 9 220	70 100	4,506 1,921 1,547 33,176	3 11,341 62,448	19 20 21 22

Same number reported throughout the year.
 Same number reported for one or more other months.

⁵ All other cities comprise Hamtramck and Highland Park.

DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES MANUFACTURES: 1919

MINNESOTA

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

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WASHINGTON
GOVERNMENT PRINTING OFFICE

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 imporative 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 soperations, 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 allof the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

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

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. ment 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, 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.

Influential the figures fall 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 consusses.

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 lith 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 semployed 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

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 earner for the year in that industry to determine the average numbers 19 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 anti-necunitry. 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 soxes, 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 earner fluctuates from month to month in every industry, and in some cases to a very greet 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.

Peacetime house of labor.—No sitemut was made to asserting the number of the pay have the purples of the purples.

The work in any industry is all were continuously employed during the year.

Prevalling 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 carners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage carners 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 resided, 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 supply, 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 saling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

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 consust sports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entirecast 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 Arpenses. 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 he 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 anthracits 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.

MINNESOTA.

GENERAL STATISTICS.

General character of the state.—Minnesota has a gross area of 84,682 square miles, of which 80,858 represent land surface. The inhabitants of the state in 1900 numbered 1,751,394; in 1910, 2,075,708; and in 1920, 2,387,125. In total population Minnesota ranked seventeenth among the states in 1920. The number of inhabitants per square mile in 1910 was 25.7, the corresponding figure for 1920 being 29.5. Minnesota ranked twenty-ninth among the states in this represent

In 1920 there were 11 cities in the state—Austin, Duluth, Faribault, Hibbing, Mankato, Minneapolis, Rochester, St. Cloud, St. Paul, Virginia, and Winona—having more than 10,000 inhabitants. Statistics for the cities of Austin and Virginia, however, can not be shown separately without disclosing the operations of individual establishments. The combined population of the remaining 9 cities in that year was 801,582, which formed 33.6 per cent of the total population for Minnesota, and in 1919 they reported 63.3 per cent of the value of the state's manufactured products.

Importance and growth of manufactures (Table 1).—
The increases in wages, cost of materials, and value of products as presented in Table 1 are to a great extent 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 between the industrial censuses of 1914 and 1919. However, a comparison of the number of establishments, persons engaged, and the horsepower used, in 1919 and 1914, shows a considerable increase in the manufacturing activities of the state.

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for 1919 with those for other censuses. The statistics emphasize the importance from a manufacturing standpoint of the counties in which are located the cities of over 10,000 population. Hennepin and Ramsey counties, which include the cities of Minneapolis and St. Paul, reported 54.1 per cent of the total number of wage earners, and 53.7 per cent of the total value of products for the state.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products does not always show their true importance from a manufacturing standpoint. Their rank would in many instances materially change 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 30.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 400 wage earners in 1919, and for which statistics can be shown without disclosing the operations of individual establishments.

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

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

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, this table gives similar data for males and females for all industries combined for the state and for cities of 10,000 inhabitants or more. The table also shows that there were a number of industries in the state in 1919 in which the number of female wage earners predominated.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in Minnesota. In that year 15.1 per cent of the wage earners were included in the group "48 and under," as against 51.2 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 41.4 per cent of the total wage earners, as compared with 19.6 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state 96.7 per cent were in the several classes having fewer than 101 wage earners, while such establishments

employed but 36.7 per cent of the total number of wage earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 3.3 per cent of the total manufacturing establishments in the state, but reported 63.3 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914, establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups in the case of all items for 1909, and for average number of wage earners and value added by manufacture for 1914.

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

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

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although the corporations owned but 29.1 per cent of the number of establishments in the state in 1919, they reported 86.5 per cent of the average number of wage earners and 87.8 per cent of the total value of products. During the five-year period, 1914 to 1919, the average number of wage earners in corporations increased 24,143, or 31.8 per

cent, and the value of products, \$654,528,635, or 157.8 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 9 cities for which figures can be shown in 1919 represented 44.6 per cent of the total in the state. They reported in that year 67.3 per cent of the average number of wage earners, 63.3 per cent of the value of products, and 71.4 per cent of the value added by manufacture.

Principal industries in Duluth, Minneapolis, and St. Paul, with per cent of total for state (Table 16).— This table includes all industries in each of the three cities in the state having 50,000 inhabitants or more in 1920 which reported products of \$600,000 and over, figures being given for those which can be shown without disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported shows an increase from 1914 to 1919 of 115,220 horsepower, or 32.1 per cent. The owned steam power shows a decrease of 7,958 horsepower, or 3.9 per cent, while for internal combustion engines there was an increase of 26,394 horsepower, or 354.1 per cent. By far the largest actual increase, 96,741 horsepower, or 135.8 per cent, was shown for rented electric power.

Fuel consumed (Table 18).—This table shows the total quantities of the principal kinds of fuel used by manufacturing plants in the state in 1919 and 1914, and in the cities of over 10,000 population in 1919. It also gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. The largest consumption of bituminous coal, 34.2 per cent, was in the manufacture of coke, not including gas-house coke. The iron and steel blast furnaces consumed 81.7 per cent of the coke, and 69.8 per cent of the fuel oils was used in the manufacture of gas.

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

The second secon	1 8 21 14; 11	MANUFA	CTURING INDU	STRIES.	144 147	PEI	R CENT OF	INCREASE	,1
	1919	1914	1909	1904	1899	1914 1919	1909- 1914	1904- 1909	1899- 1904
Number of establishments	6, 225	5,974	5,561	4,756	4,096	4.2	7.4	16, 9	16.
Persons engaged Proprietors and firm members. Salarted employees. Wage earners (average number)	147,678 5,128 26,927 115,623	115,690 5,233 17,623 92,834	104, 406 5, 376 14, 263 84, 767	83, 301 4, 524 9, 141 69, 636	(2) (2) 6,625 64,557	27. 6 -2. 0 52. 8 24. 5	10. 8 -2. 7 23. 6 9. 5	25.3 18.8 56.0 21.7	38. 7.
Primary horsepower	473, 957 \$679, 386, 486	358,737 \$354,434,177	297,670 \$275,416,029	220,934 \$184,903,271	180, 124 \$133, 076, 669	32, 1 91, 7	20. 5 28. 7	34.7 49.0	
Salaries and wages. Salaries Wages		80, 591, 183 22, 084, 170 58, 507, 013	62,922,303 15,451,500 47,470,803	44, 875, 985 9, 032, 840 35, 843, 145	35,093,419 6,064,229 29,029,190	114.0 105.4 117.2	28, 1 42, 9 23, 2	40. 2 71. 1 32. 4	49,
Paid for contract work	4,005,045	2,600,106 7,381,132 336,849,214 493,354,136 156,504,922	409, 419, 621	4, 378, 700 3 2, 138, 692 210, 553, 949 307, 858, 073 97, 304, 124	(2) (2) 150, 299, 277 223, 692, 922 73, 393, 645	54.0 239.5 162,2 146.9 114.1	4.7 48.2 19.6 20.5 22.5	33.8	37.

¹ A minus sign (-) denotes decrease.

² Figures not available.

^{*} Exclusive of internal revenue.

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

	Num- ber of	WAGE	EARNERS.	Don't and	Control	Trains of	Value added	Primary
COUNTY.	estab- lish- ments.	Average number.	Wages.	Rent and taxes.	Cost of materials.	Value of products.	by manufac- ture.	horse- power.
The state	6, 225	115, 623	\$127, 106, 505	\$25,061,934	\$883,089,777	\$1, 218, 129, 735	\$ 335, 039, 958	473, 957
Athn. Anoka. Becker. Beltrami. Benton.	33 32 56 82 31	643 550 264 1,798 121	621, 989 618, 623 280, 588 1, 625, 243 142, 799	14, 113 60, 128 122, 041 159, 302 8, 127	871, 361 2,789, 927 1, 454, 186 2, 509, 556 1, 089, 297	1, 802, 384 3, 933, 584 2, 035, 107 5, 626, 554 1, 385, 523	931, 023 1, 143, 657 580, 921 3, 116, 998 316, 226	1, 468 1, 420 2, 250 6, 240 766
Big Stons. Blue Barth Brown. Carlton.	91 58 30 57	47 826 538 2,994 414	53, 412 785, 125 552, 368 2, 384, 332 295, 123	5, 647 132, 136 177, 833 1, 104, 157 51, 878	1,099,973 9,347,199 18,107,122 4,421,073 3,443,604	1, 306, 245 11, 300, 296 20, 195, 506 10, 374, 567 4, 406, 733	206, 272 1, 953, 097 2, 088, 384 5, 953, 494 963, 129	289 3,953 6,101 14,010 2,460
Cass. Chippewa Chisago Clay. Clay.	25 39 30 24	563 292 99 331 40	540, 503 402, 806 117, 603 463, 801 34, 883	150, 707 9, 004 18, 814 10, 341 2, 073	956, 489 1, 291, 395 2, 636, 735 651, 806 351, 691	2, 111, 958 1, 962, 325 2, 963, 413 1, 287, 359 443, 233	1, 155, 469 670, 930 326, 678 635, 553 91, 542	2, 137 953 939 454 311
CookCattonwood. Cattonwood. Crow Wing. Dakota.	51 51 42	36 30 1,744 4,064 57	36, 157 33, 879 2, 127, 548 5, 382, 286 71, 442	775 4, 324 74, 358 226, 210 4, 245	118, 130 377, 592 3, 505, 140 93, 675, 892 1, 339, 726	170, 916 477, 438 6, 140, 239 105, 820, 870 1, 493, 441	52, 786 99, 846 2, 635, 099 12, 144, 978 153, 715	94 493 8, 578 10, 434 420
Douglas Faribault Filtmore. Freeborn 1 Goodhue.	43 48 57 138 112	93 156 125 2,298 1,478	99, 377 185, 824 98, 143 2, 200, 510 2, 050, 601	41, 079 63, 510 18, 535 368, 166 394, 090	3, 722, 853 5, 056, 139 2, 152, 858 46, 150, 084 14, 946, 499	4, 105, 286 5, 579, 430 2, 452, 302 54, 354, 951 21, 705, 898	382, 433 523, 291 299, 444 8, 204, 867 6, 759, 399	900 1, 157 880 8, 216 5, 529
Grant Hemeplin Houston. Hubbard. Isanti	16 1, 464 34 31 38	39, 232 65 134 66	46,094 42,653,096 66,245 119,116 54,951	1,986 11,805,072 5,249 6,718 11,786	783, 526 366, 788, 485 926, 605 357, 342 911, 975	903, 686 499, 421, 454 1, 037, 563 654, 004 1, 088, 800	120, 160 132, 632, 969 110, 958 296, 662 176, 825	135, 363 502 513 597
Itasca. Jackson. Kanalyee. Kandlyohl. Kitison.	54 34 19 50	760 112 33 318 16	784, 373 127, 817 32, 878 411, 517 14, 904	53,890 7,157 3,618 16,054 1,041	1,498,286 677,757 550,175 1,365,604 264,228	3, 282, 926 909, 303 636, 216 1, 915, 686 314, 724	1,784,640 231,540 86,041 550,082 50,496	6, 863 819 257 736 92
Koochiching. Lac qui Parie. Lake. La Sueur. Lincoln	52 22 13 67 22	2,035 52 635 502 33	2, 100, 690 40, 495 881, 261 453, 673 34, 907	200, 692 10, 368 6, 695 129, 915 5, 696	5, 359, 616 329, 048 399, 211 12, 987, 245 516, 735	10, 785, 615 487, 616 1, 645, 958 15, 188, 361 631, 281	5, 425, 999 108, 568 1, 246, 747 2, 201, 116 114, 546	19,538 399 3,306 3,438 124
Lyen	36 54 12 29 38	277 171 54 38 252	356, 254 166, 957 48, 490 36, 545 227, 395	31, 365 17, 201 1, 547 5, 051 . 32, 808	7, 103, 598 2, 861, 482 134, 384 577, 728 1, 640, 407	8, 192, 842 3, 250, 560 225, 768 690, 268 2, 198, 513	1,089,244 389,078 91,384 112,540 558,106	1,785 1,191 251 402 669
Meeker Mille Lacs Morrison Murray Nicollet	50 33 49 19 44	85 88 287 26 182	81, 480 00, 036 251, 799 27, 257 160, 811	21, 982 4, 458 28, 434 3, 483 56, 650	1,701,253 1,475,159 3,119,607 287,426 1,384,467	1, 979, 634 1, 637, 786 3, 866, 964 359, 215 1, 828, 648	278, 381 162, 627 747, 357 71, 789 444, 181	689 546 4,458 259 708
Notles. Norman. Olmsted Otter Tail. Pennington.	. 26 29 60 108	07 48 393 327 206	120, 395 47, 254 376, 701 336, 631 241, 035	7,321 11,784 64,347 73,149 16,120	591, 405 699, 334 2, 441, 500 4, 613, 487 958, 640	802, 507 824, 305 3, 492, 457 5, 692, 174 1, 349, 059	211, 102 124, 971 1, 050, 957 1, 078, 687 390, 419	308 443 1,695 2,528 320
Pino	31 70	180 364 134	64,973 196,699 378,288 186,977 25,211,956	11, 881 12, 518 46, 280 5, 892 5, 660, 487	1, 066, 881 1, 267, 906 3, 807, 428 985, 576 88, 363, 157	101,010,000		501 637 1,471 498 45,522
Red Lake Redwood Renville Rice Rock	80 65	54 152 982	22,758 51,763 165,095 854,490 94,605	2, 818 4, 576 13, 830 166, 864 16, 834	503,833 581,935 2,282,224 12,703,100 467,548		66, 194 140, 330 406, 473 2, 618, 779 266, 894	389 184 1,264 4,042 292
Roseau St. Louis. Scott. Sherburne. Sibley.	21 332 51	15, 546 307 21	32, 827 19, 402, 065 271, 689 20, 718 93, 133	3,338 2,058,079 26,698 1,119 11,751	262, 380 50, 626, 858 3, 925, 357 484, 702 1, 335, 908		78,857 39,075,405 1,535,073 95,558 241,690	353 101,481 1,659 141 848
Stearns. Steele. Etovens Swift. Todd	191 62 14	247 28 81	277,135 28,106 81,090	274, 791 33, 984 3, 604 20, 761 12, 039	11, 493, 179 2, 918, 312 344, 742 2, 512, 260 2, 019, 348		5, 445, 605 652, 438 81, 619 909, 859 531, 362	865 187 1,037
Traverse Wabasha. Wadena. Wasera. Washington.	14 50 41	24 224 88 266	21, 127 275, 863 96, 058 319, 223	2,146 07,876 8,009 31,254 139,842	129,965 7,497,459 1,138,966		50 159	1,221 516 7 2,333
Watonyan. Wikina Winona Wright. Yellow Medicine.	31	131 133 2 2,579 2 196	164, 082 165, 327 2, 205, 975 170, 288	11,591 1,184 505,283 28,623	2,293,657 227,255 20,436,176	2 560 084	206, 40° 182, 660 7 5, 948, 57° 7 495, 57° 6 241, 38°	0 129 1 10,823 7 1,890

¹ Includes Mower County, to avoid disclosure of individual operations.

MANUFACTURES—MINNESOTA.

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

	blishments.	WAC EARNI		VALUE PRODUC		VAL ADDE: MANU TUR	FAC-		olishments.	WA EARN		VALU: PRODI	e of JCTS.	VAL ADDE MANU TUT	D BY
INDUSTRY.	Number of establishments.	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	INDUSTRY.	Number of establishments.	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries Flour-mill and gristmill products. Slaughtering and meat packing. Butter Lumber and timber products. Cars and general shop construction and repairs by steam-rall-road companies.	248 13 832 244	115, 628 6, 049 5, 231 1, 962 12, 602	5. 2 4. 5 1. 7 10. 9	\$1,218,130 381, 249 146, 361 88, 882 37, 321 35, 351			100. 0 12. 9 5. 3 2. 1 6. 0 6. 8	Mattresses and spring beds, not else- where specified Copper, tin, and sheet-iron work. Boxes, wooden packing, except cigar boxes. Tobacco, cigars and cigarettes Cooperage.	28 216 11	459 758 695 891 575	0. 4 0. 6 0. 6 0. 8 0. 5	\$3, 872 3, 803 3, 454 3, 205 3, 199	0.3 0.3 0.3	\$1,470 1,740 1,264 1,733 1,174	0.4 0.5 0.4 0.5 0.4
Oil, linseed Foundry and machine-shop products. Broad and other bakery products. Paper and wood pulp Printing and publishing, newspapers and periodicals.	6 216 426 9	483 6, 183 2, 975 2, 523 3, 058	0.4 5.3 2.6 2.2	33, 238 31, 865 22, 815 20, 138	2.7 2.6 1.9 1.7	4, 442 19, 151 8, 809 8, 730	1.3 5.7 2.6 2.6	Carriages and wagons, including repairs Malt Woolen goods Cheese. Paints Agricultural implements	67 7 11 66	565 96 574 89	0.5 0.1 0.5 0.1	3, 047 2, 970 2, 926 2, 864 2, 838 2, 512 2, 341	0.3 0.2 0.2 0.2 0.2 0.2	1,763 1,470 637 1,084 332	0.4 0.2 0.3 0,1
Food preparations, not elsewhere specified. Knit goods. Printing and publishing, book and job. Engines, steam, gas, and water. Boots and shoes.	41 16 277	624 3, 564 3, 062 1, 529 2, 153	0.5 3.1 2.6 1.3	20, 089 14, 707 13, 985 12, 995 12, 946 12, 645	1.1 1.1	4, 289 6, 498 8, 644 8, 367 4, 902	1.3 1.9 2.6 2.5	Brick and tile, terra-cotta, and fire- clay products. Tinware, not elsewhere specified. Poultry, killing and dressing, not done in slaughtering and meat- packing establishments.	16 34 7 10	799 455 88	0. 4 0. 7 0. 4 0. 1	2, 341 2, 293 2, 182 2, 108	0. 2 0. 2 0. 2	986 1,484 1,023 231	0.3
Coffee, roasting and grinding Lumber, planing-mill products, not including planing mills con- nected with sawmills. Confectionery and ice cream. Structural ironwork, not made	13	532 2, 188 1, 959	0. 5 1. 9 1. 7	12, 186 12, 186 11, 804 10, 056	1.0 1.0 1.0 0.8	1, 921 5, 276 4, 368	1.5 0.6 1.6 1.3	Boxes, set-up paper boxes and cartons Millinery and lace goods, not elsewhere specified Condensed milk Belting, leather	16 23 5 3	711 541 84 116	0.6 0.5 0.1 0.1	2,086 2,068 1,865 1,809	0.2 0.2 0.2 0.2	1, 123 1, 021 282 613	0.3 0.3 0.1 0.2
Automobile repairing. Fur goods. Liquors, malt. Cluthing man's	28	2, 183 1, 842 905 1, 036 1, 561 1, 587	1.9 1.6 0.8 0.9 1.3 1.4	9, 953 9, 282 8, 063 7, 713 7, 065 6, 805	0.8 0.8 0.7 0.6 0.6	4, 328 7, 119 2, 859 5, 666 2, 226 3, 743	1.3 2.1 0.9 1.7 0.7	Canning and preserving, vegetables. Automobile bodies and parts. Pickles, preserves, and sauces. Coffins, burial cases, and undertakers' goods. Mineral and soda waters.	25 48 13 7	456 405 227 247 213	0.4 0.4 0.2 0.2	1,792 1,763 1,708 1,593 1,544	0,1 0,1 0,1 0,1	727 886 444 931 751	0.2 0.3 0.1 0.3
Furniture Coke, not including gas-house coke. Patent medicines and compounds. Gas, illuminating and heating. Marble and stone work. Electrical machinery, apparatus, and supplies.	3 51 23 109	426 461 707 1,021	0. 4 0. 4 0. 6 0. 9	6, 469 6, 303 5, 518 4, 721	0.6 0.5 0.5 0.5 0.4	1, 497 3, 581 3, 110 2, 819	1. 1 0. 6 1. 1 0. 9 0. 8	Steam packing Chemicals Shirts Cars and general shop construction and repairs by electric-railroad	5 9 9	208 162 253 436	0, 2 0, 1 0, 2	1, 528 1, 456 1, 180	0.1 0.1 0.1 0.1	699 832 555 625	0.2 0.2 0.2 0.2
Saddlery and harness Signs and advertising novelties. Leather goods, not elsewhere specified.	51 31 11	942 436 989 683	0.8 0.4 0.8 0.6	4, 354 4, 159 4, 083 4, 052	0.4 0.3 0.3 0.3	2, 321 1, 330 2, 841 1, 495	0.7 0.4 0.8 0.5	companies Stoves and hot-air furnaces. Brass, bronze, and copper products. All other industries 1.	12 10	236 213	0.2	1,055 1,018	0.1	649 467 51, 611	0,2

Among the industries for which statistics can not be shown separately without the possibility of disclosing individual operations are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Automobiles"; "bags, other than paper, not including bags made in textile mills"; "coment"; "cordage and twine"; "drug grinding"; "gas machines and gas and water meters"; "iron and steel, blast furnaces"; "inon and steel, steel ownks and rolling mills"; "leather, tanned, curried, and finished"; "mats and matting, from cocca fiber, grass, and coir"; "oleomargarine and other butter substitutes"; "refrigerators"; "sand and emery paper and cloth"; "shipbuilding, steel"; and "window and door screens and weather strips."

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

CLASS,	Cen-	Total,	Male.	Fe-		CENT OTAL		Cen-			Fe-	PER OF TO	
	year.		mais,	male.	Male.	Fe- male.	CLASS,	sus year.	Total.	Male.	male.	Male.	Fe- mak
All classes	1919 1914 1909	147, 678 115, 690 104, 406	121,609 100,158 90,058	26,069 15,532 14,348	82. 3 86. 6 86. 3	17. 7 13. 4 13. 7	Clerks and other subordinate salaried employees.	1919 1914 1909	20,024 13,314 10,497	13, 288 10, 163 7, 891	6,736 3,151 2,606	66. 4 76. 3 75. 2	33. 23. 24.
Proprietors and officials	1919 1914 1909	12,031 9,542 9,142	11, 617 9, 300 8, 908	414 242 234	96. 6 97. 5 97. 4	3. 4 2. 5 2. 6	Wage carners (average number)	1919 1914	115, 623 92, 834	96, 704 80, 695	18, 919 12, 139	83. 6 86. 9	16. 13.
Proprietors and firm members	1919 1914 1909	5,128 5,233 5,376	4, 943 5, 071 5, 206	185 162 170	96. 4 96. 9 96. 8	3. 6 3. 1 3. 2	16 years of age and over	1914	84,767 115,261 92,560	73, 259 96, 387 80, 509	11,508 18,874 12,051	83. 6 87. 0	16. 13. 13.
Salaried officers of corporations	1919 1914 1909	2,416 1,731 1,596	2,312 1,681 1,560	104 50 36	95.7 97.1 97.7	4, 3 2, 9 2, 3	Under 16 years of age	1909 1919 1914	84, 461 362 274	73,038 317 186 221	11,423 45 88 85	86. 5 87. 6 67. 9 72. 2	12.
Superintendents and managers	1919 1914 1909	4,487 2,578 2,170	4,362 2,548 2,142	125 30 28	97, 2 98, 8 98, 7	2.8 1.2 1.3		1909	306	221	85	72, 2	27.

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

		317	PER CI	ENT OF 1	CAL.				PER CI	ENT OF T	OTAL.
INDUSTRY.	Cen- sus year.	Wage earners (aver- age num-	16 year and	rs of age over.	Un- der 16	INDUSTRY.	Cen- sus year,	Wage earners (aver- age		rs of age over.	Un- der 16
		ber).	Male.	Fe- male.	years of age.			ber).	Male,	Fe- niale.	years of age.
All industries	1919 1914 1909	115, 623 92, 834 84, 767	83. 4 86. 7 86. 2	16.3 13.0 13.5	0.3 0.3 0.4	Foundry and machine-shop products 3	1919 1914	6,360 3,623	98. 7 99. 6	1. 2 0. 3	(¹) 0.1
Agricultural implements	1919 1914	501 872	99. 2 100. 0	0.8		Fur goods Furniture	1919 1914	905 838	38. 2 37. 7	61. 7 62. 3	0.1
Artificial stone products	1919 1914	766 738	99. 5 99. 9	0.4 0.1	0.1	ĺ	1919 1914	1,587 1,473	94. 6 98. 6	5. 0 1. 0	0.4 0.4
Automobile bodies and parts	1919 1914	405 141	97. 0 99. 3	3. 0 0. 7		Gas, illuminating and heating	1919 1914	707 1,038	99. 0 100. 0	1.0	
Automobile repairing	1919 1914	1,842 456	99. 2 99. 6	0.7 0.2	0.1 0.2	Knit goods	1919 1914	3, 564 2, 088	16. 2 14. 6	83. 8 85. 4	(1)
Boots and shoes	1919 1914	2, 153 2, 012	57.0 71.1	42.5 28.2	0.4 0.7	Leather goods, not elsewhere specified 2 Liquors, malt	1919 1919	683	37. 5 99. 7	62. 5 0. 3	
Boxes, set-up paper boxes and cartons	1919 1014	711 050	35.9 43.7	62.7 55.4	1.4 0.9	Lumber and timber products.	1914	1, 036 2, 052 12, 602	99.0	0.2	0, 1
Boxes, wooden packing, except eigar boxes.	1	695 768	90.5 99.7	5.8	3.7 0.3	Lumber, planing-mill products, not in-	1914	16, 814	99.9	0.1	
Bread and other bakery products	1919	2, 975	61.3	37.9	0.8	cluding planing mills connected with sawmills.	1919 1914	2, 188 3, 137	98. 2 99. 4	0.9	0.9
Brick and tile, terra-cotta, and fire-clay	1914	2, 169 799	72. 2 98. 0	27.1	0.7 2.0	Marble and stone work	1919 1914	1,021 1,579	99.8	0.1	0.1
products. Butter	1914	1,215 1,962	100.0 91.2	8.6	0.2	Mattresses and spring beds, not elsewhere specified.	1919 1914	459 440	84.3 87.3	15.7 12.7	· · · · · · ·
Canning and preserving, vegetables	1914	1, 420 456	97.6 60.1	2. 1 39. 9	0.3	Millinery and lace goods, not elsewhere specified.	1919 1914	541 308	5. 4 10. 1	94.3 89.9	0.4
Carriages and wagons, including repairs	1914	317 565	59. 9 99. 5	38.8 0.5	1.3	Oll, Husced	1919 1914	483 400	98. 6 100. 0	1.4	•••••
	1914	838 436	99. 9 95. 9	0.1 4.1		Paper and wood pulp	1919 1914	2,523 1,345	93. 1 97. 4	6.9 2.6	·····
Cars and general shop construction and re- pairs by electric-railroad companies.	1914	435	100.0			Patent medicines and compounds	1919 1914	461 561	44.3 43.3	54, 4 56, 5	$\begin{array}{c} 1.3 \\ 0.2 \end{array}$
Cars and general shop construction and repairs by steam-railroad companies.	1919 1914	15, 976 10, 551	98. 8 99. 9	(1)	(1)	Printing and publishing, book and Job	1919 1914	3,062 2,901	66.3 71.0	32.8 28.4	0.9 0.6
Clothing, men's	1919 1914	1, 561 2, 110	15.2 19.3	84.8 80.7		Printing and publishing, newspapers and periodicals.	1910 1914	3, 058 2, 042	76. 7 83. 3	21. 2 14. 9	$\frac{2.1}{1.8}$
Coffee, roasting and grinding	1919 1914	532 313	52.6 44.4	47.4 55.6		Saddlery and harness	1919 1914	436 530	94. 5 94. 1	5.3 5.7	0.2 0.2
Coke, not including gas-house coke 2 Confectionery and ice cream	1919	426 1, 959	99. 5 34. 1	0. 5 65. 8	0.1	Signs and advertising novelties	1919 1914	989 238	34.7 62.2	65. 3 37. 8	
Cooperage	1914	7,000 978 575	41. 7 97. 0	58.2	0.1	Slaughtering and meat packing	1919 1914	5, 231 2, 565	90. 9 97. 5	9.1	
Copper, tin, and sheet-iron work	1914	766	98.0	2.0		Structural ironwork, not made in steel	1919	2, 183	99.3 99.9	0.6 0.1	0. 1
	1914	758 855	98.8 100.0	0.9	0.3	works or rolling mills. Tinware, not elsewhere specified 2	1914 1919	2,058 455	62. 0	38.0	
Electrical machinery, apparatus, and supplies.	1919 1914	942 236	63. 9 94. 1	34.8 5.5	1.3 0.4	Tobacco, cigars and cigarettes	1919 1914	891 1,261	55.4 69.6	43. 5 29. 7	1.0 0.7
Engines, steam, gas, and water	1919 1914	1,529 508	99. 4 99. 8	0.6 0.2		Woolen goods	1919 1914	574 448	48. 3 54. 2	51.7 45.5	0.3
Flour-mill and gristmill products	1919 1914	6,049 4, 564	97. 1 98. 0	2.8 2.0	0.1	All other industries	1919 1914	18,427 10,842	82. 7 75. 8	16.8 23.1	0.5 1.1
Food preparations, not elsewhere specified	1919 1914	624 426	50. 2 45. 1	49.7 54.7	0.2 0.2		TALE	10,011	.0.0		

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

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

		A	VERAGE N	UMBER C	F WAGE	EARNERS	IN MAN	UFACTUR	ING IND	ustries.					
CITY.1		Total.			16 y	ears of ago	and ove	er.		Un	der 16 ye	ears	320, 427 254, 400 9, 766, 306 4, 344, 114 401, 382, 975 187, 854, 159	TS.	
					Male.			Female.			of age.				
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Duluth	10, 472 806	5, 538	6, 083	9, 381 612	4, 956	5, 615	1, 075 180	574	444	16 14	8	24	10, 155, 358	\$19,729,283	
Hibbing Mankato Minneapolis	50 771 38, 154	65 755 28, 295	807 26, 962	37 612 29,393	56 637 22,791	662 22, 822	13 158 8, 606	9 118 5,470	135 4,074	1 155	34	10 66	9, 766, 306	4, 344, 114	3,722,73 165,404,68
Rochester St. Cloud St. Paul Winona	1 008	1,429 19,483 2,070	626 19, 339 2, 032	304 1,889 16,766 1,858	1,320 15,340 1,639	595 14, 553 1, 630	55 86 5, 845 672	108 4,106 422	30 4,742 396	23 38 4	1 37 9	1 44 6	2, 250, 242 7, 733, 764 149, 638, 290 25, 119, 522	2, 695, 492 68, 682, 206 14, 304, 780	

¹ Excludes Austin and Virginia to avoid disclosure of individual operations.

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

MONTH.]	NUMBER.1		PER CEI	T OF MA	XIMUM.		N	UMBER.1		PER CEN	T OF MA	XIMI'M.
	1919	1914	1909	1919	1914	1909	MONTH.	1919	1914	1909	1919	1914	1909
January February March April May June	113, 885 113, 326 110, 691	98, 336 100, 110 96, 982 92, 417 92, 257 92, 310	79, 918 80, 909 82, 081 81, 134 82, 952 85, 038	93. 9 93. 2 92. 7 90. 5 89. 6 92. 0	98, 2 100, 0 96, 9 92, 3 92, 2 92, 2	88. 2 89. 3 90. 6 89. 5 91. 5 93. 8	July	118, 627 120, 020	92,007 91,128 89,739 90,525 89,202 88,995	84, 667 85, 847 87, 643 90, 620 89, 503 86, 896	93. 6 95. 4 97. 0 98. 2 98. 9 100. 0	91. 9 91. 0 89. 6 90. 4 89. 1 88. 9	93. 4 94. 7 96. 7 100. 0 98. 8 95. 9

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.]

										1			00.1	
	Aver-	N	UMBER 1	EMPLOYE	D ON 15	PH DAY	OF THE 1	MONTH O	R NEARI	est repr	RESENTA	TIVE DAY		Per
INDUSTRY AND CITY.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem- ber.	mini- mum is of maxi- mum.
All industries. Males. Females.		114,763 97,018 17,745	113, 885 95, 400 18, 485	113, 326 95, 083 18, 243	110,691 92,650 18,041	109, 489 91, 382 18, 157	112, 458 94, 275 18, 183	114, 430 95, 925 18, 505	116,607 96,281 20,326	118, 627 98, 972 19, 655	120,020 100,263 19,757	120, 930 100, 978 19, 952		89. 6 89. 3 87. 3
Agricultural implements Artificial stone products Automobile bodies and parts. Automobile repairing. Boots and shoes. Boxes, set-up paper boxes and cartons. Boxes, set-up paper boxes and cartons. Boxes, wooden packing, except cigar boxes. Bread and other bakery products. Brick and tile, terra-cotta, and fire-clay products. Butter Canning and preserving, vegetables. Carriages and wagons, including repairs Cars and general shop construction and repairs by electric-railroad companies. Cars and general shop construction and repairs by steam-railroad companies.	766 405 1,842 2,153 711 695 2,975 799 1,962 456 565 436	475 478 328 1,453 2,026 650 621 2,710 348 1,702 72 550 445	485 489 340 1, 475 2,078 660 642 2,699 381 1,766 543 467	481 522 361 1,550 2,062 676 634 2,710 397 1,733 80 551 403	451 741 397 1,794 2,069 654 2,784 616 1,897 131 540 438	448 847 386 1,933 2,086 705 668 2,798 841 2,126 525 388 15,853	480 943 403 2,044 2,102 719 731 2,904 1,077 2,278 320 621 346	512 1,009 422 2,131 2,057 726 752 3,079 1,146 2,231 573 541 430	511 961 452 2,129 2,204 773 3,179 1,150 2,228 1,630 606 425	559 949 422 2,058 2,231 712 746 3,056 1,115 2,019 1,611 502 422	503 891 446 1,916 2,248 744 727 3,211 977 1,906 438 605	544 753 449 1,846 2,340 770 705 3,300 880 1,892 254 608	533 609 454 1,775 2,333 746 687 3,270 660 1,826 130 598	80. 1 47. 4 72. 2 68. 2 86. 4 80. 3 81. 8 30. 3 74. 7 4. 6 85. 7
Clothing, men's Coffee, roasting and grinding Coke, not including gas-house coke. Confectionery and ice cream. Cooperage. Copper, tin, and sheet-iron work Electrical machinery, apparatus, and supplies. Engines, steam, gas, and water. Flour-mill and gristmill products. Food preparations, not elsewhere specified Foundry and machine-shop products. Fur goods. Furniture Gas, illuminating and heating. Knit goods. Leather goods, not elsewhere specified Liquors, malt Lumber and timber products, not including planing mills connected with sawmills.	1, 561 532 426 1, 959 575 758 942 1, 529 6, 049 62 6, 183 905 1, 587 707 3, 564 1, 036 12, 602	1,290 508 1,722 509 506 6,258 7,463 819 1,271 1,271 1,376 15,376	1, 325 1, 325 1, 325 1, 518 429 1, 865 597 642 942 1, 834 5, 645 5, 588 6, 102 7, 632 4, 170 790 15, 810 1, 609	1, 132 480 428 1, 809 563 597 1, 893 5, 607 535 5, 898 7, 442 639 4, 171 171 171 171 171 171 171 171	1,322 489 412 1,660 955 6550 918 1,709 5,881 542 5,974 8420 1,479 4,065 1,024 11,602	1,367 509 416 1,660 673 918 1,567 5,967 5,748 814 1,513 1,751 3,900 673 5,748 814 1,513 1,751 3,900 673 5,748	15, 818 1, 438 367 1, 594 557 733 1, 454 5, 822 5, 597 815 1, 783 3, 712 0, 1389 10, 504 2, 341	1	16, 190 1,752 377 2,083 880 924 1,420 5,972 668 6,035 931 1,650 1,216 9,937 2,537	16, 375 1, 778 425 2, 128 897 940 1, 380 6, 261 708 6, 162 1, 009 1, 692 706 3, 087 717 971 11, 206	15, 991 1, 850 2, 357 906 906 1, 378 6, 486 768 6, 434 1, 019 1, 744 3, 106 1, 756 1, 028 12, 559 2, 539	3,063 813 1,028 13,473	3,026 834 817 15,365	69.6 82.2 76.0 63.6 84.1 91. 61.0 86.2 99.1 74.3 80. 72. 70.

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

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

	Aver-	N	UMBER	EMPLOYI	D ON 15	тн рач	OF THE	MONTH (OR NEAR	EST REPI	RESENTA	TIVE DAY	7.	Per
INDUSTRY AND CITY.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June,	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem- ber,	mini- mum is of maxi- mum.
Marble and stone work. Mathresses and spring beds, not elsewhere specified. Millnery and lace goods, not elsewhere specified. Oil, linseed. Paper and wood pulp Patent medicines and compounds. Printing and publishing, book and job. Printing and publishing, newspapers and periodicals Saddlery and harness. Salughtering and meat packing. Structural fromwork, not made in steel works or rolling mills. Timware, not disewhere specified. Tobacco, cigars and cigarettes. Woolen goods. Industries showing large proportion of females.	1, 021 459 541 483 2, 523 461 3, 005 436 936 95, 231 2, 183 455 891 18, 604	819 340 404 461 2, 681 896 2, 911 2, 911 2, 920 5, 843 2, 370 369 861 580 17, 307	834 370 806 463 2,960 420 2,977 2,964 438 787 5,379 2,241 433 879 539 17,269	917 401 564 449 2, 545 432 3, 005 2, 904 436 837 5, 389 2, 253 483 889 548 17, 315	9088 415 526 454 2, 5596 442 3, 027 3, 006 428 870 4, 989 2, 040 431 891 17, 727	1,005 443 482 416 2,590 457 3,032 3,011 417 926 4,886 1,915 374 880 561 17,988	1,035 478 417 476 2,556 510 3,015 3,006 407 963 4,870 1,748 409 867 573 19,120	1,080 499 402 577 2,337 541 3,012 3,018 410 994 5,091 1,937 437 8/9 580 19,248	1, 092 533 778 517 2, 805 514 3, 029 3, 031 434 1,059 5, 022 2, 134 585 901 583 19, 823	1, 121 502 615 498 2, 372 464 3, 080 3, 096 411 1, 126 4, 858 2, 257 552 879 578 19, 613	1, 135 547 549 500 2, 452 3, 134 3, 169 4, 953 2, 399 466 912 580 19, 858	1, 109 513 402 492 2, 524 445 3, 223 3, 230 458 1, 212 5, 505 2, 469 461 943 598 19, 261	1,137 491 487 503 2,655 432 3,293 8,210 479 1,162 6,018 2,443 460 941 599 18,719	72. 0 64. 9 51. 7 72. 1 86. 0 73. 2 98. 2 91. 1 85. 0 59. 4 80. 7 71. 1 90. 0 90. 0 87. 0
Boots and shoes. Boves, sol-up paper boxes and cartons Bread and other bakery products. Clothing, men's. Coffee, roasting and grinding. Confectionery and ice crosm. Electrical machinery, apparatus, and supplies. Food preparations, not elsewhere specified. For goods. Kut goods. Lesther goods, not elsewhere specified. Millinery and lace goods, not elsewhere specified. Frinting and publishing, book and job. Printing and publishing, book and job. Printing and publishing, newspapers and poriodicals. Slaughtering and meat packing. Tobacco, eigars and eigarettes. Woolen goods.	917 451 1,134 1,332 2-2 1,290 328 310 558 2,985 427 512 254 1,005 656 646 475 388 329 7	901 422 1,015 1,111 249 1,183 361 310 509 3,416 399 377 203 981 632 449 513 374 296	904 426 1,014 1,140 1,266 365 312 481 3,575 304 776 225 988 635 497 489 388 269	860 438 1,011 1,132 225 1,220 364 288 478 3,533 861 536 238 908 625 536 497 301 278	870 430 1,059 1,125 224 1,089 333 3276 478 3,448 239 907 652 665 402 306 203	803 450 1,024 1,102 243 1,096 328 265 485 3,288 392 453 245 1,004 657 607 400 385 203	900 453 1,081 1,227 279 993 322 280 513 3,094 403 301 284 985 646 616 408 375 205	871 458 1,176 1,344 2,040 313 325 558 2,778 425 375 317 977 647 642 476 356 304	941 467 1,231 1,488 257 1,342 297 348 573 2,562 295 976 664 693 478 399 301	946 444 1, 135 1, 491 237 1, 351 304 452 2, 504 452 585 252 997 643 747 420 384 301	957 466 1, 271 1, 554 243 1, 549 299 341 644 2, 551 479 519 271 1,011 686 816 455 399 305	975 489 1,326 1,534 250 1,633 316 313 679 2,513 430 244 1,049 696 803 472 408 317	980 409 1, 266 280 1, 700 334 331 600 2, 498 453 235 1,097 689 782 449 408 312	87. 8 86. 3 76. 3 77. 0 53. 4 76. 1 70. 4 69. 5 67. 5 64. 0 89. 0 89. 0 89. 8 85. 1 80. 9 87. 3 84. 9
Total for cities \	77,793 61,060 16,733	74,718 58,952 15,761	75,046 58,540 16,506	75,128 58,861 16,267	75, 200 59, 149 16, 051	75,328 59,162 16,166	76,548 60,539 16,009	77,900 61,641 16,259	80,117 62,637 17,480	80,475 63,534 16,941	81,383 63,793 17,590	81,088 63,242 17,846	80,590 62,670 17,920	91.8 91.8 88,0
DULUTH	10,472 9,394 1,078	11,174 10,211 963	10,855 9,856 909	10,726 9,728 998	10,020 9,053 967	9,973 8,972 1,001	10,849 9,815 1,034	10,646 9,610 1,036	10,819 9,771 1,048	10,883 9,749 1,134	10,581 9,339 1,242	9,768 8,509 1,259	9,370 8,115 1,255	83.9 79.5 76.5
FARIBAULT. Males. Females.	806 625 181	727 <i>572</i> 155	717 578 139	736 594 142	753 595 158	761 601 160	781 615 166	826 628 198	948 675 273	919 663 256	829 660 169	835 656 179	840 663 177	75. 6 84. 7 50. 9
Hisping	50 37 13	45 83 12	47 35 12	47 35 12	51 38 13	51 38 13	53 40 13	51 38 13	50 37 13	51 38 13	51 37 14	51 37 14	52 38 14	84. 9 82. 5 85. 7
Mankato	771 613 158	602 537 155	708 548 160	706 546 160	761 602 159	756 601 155	704 545 159	752 594 158	814 655 159	797 043 154	859 703 156	862 703 159	841 679 162	80.3 76.4 95.1
Minneapolis		35,829 27,513 8,816	36,065 27,441 8,624	27,583	37, 229 28, 569 8, 660	37,515 28,833 8,682	37,340 28,913 8,427	38,216 29,730 8,486	39, 229 30, 480 8, 749	39,572 31,216 8,356	40,073 31,266 8,807	40,293 31,372 8,921	40,204 31,324 8,880	88. 9 87. 5 93. 2
Rochester, Males. Females	359	534 285 49	344 289 55	344 288	340 288 52	345 296 49	359 306 53	376 317 59	364 308 50	370 314 56	372 311 61	381 327	379 319 60	87.7 87.2 80.3
SAINT CLOUD	1,998	1,907 1,826 81	1,923 1,814 79	1,970 1,893	1,976 1,895 81	1,903 1,827	1,959 1,880 79	2,079 2,000 79	2,101 2,001 100	2,103 2,003	2,145 2,035 110	2.012	}	88.7 89.1 69.1
Saint Paul	00 840	21,518 16,140 5,378	21,834 16,114	21,802 16,344	21,725 16,351	21,612 16,214 5,398	22, 124 16, 637	22, 555 16, 929 5, 626	23,197 16,854	23,235 16,998	23,857 17,500 6,348	24,165 17,733	24, 164 17, 729	89.0 90.9 83.5
WINONA	2,534	2,487 1,835	1	2,514	2,345 1,758	2,412 1,780 632	2,379 1,788	1	1	2,545	2,616 1,933	2,721 $1,979$	2,842	82.5 88.4 68.8

¹ Excludes Austin and Virginia to avoid disclosure of individual operations.

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

			IM ESTAD	MATHEMATIC	17 11131013 1111	E PREVAILIN	1001.3	OF LABOR P	ER WEEK	Were-
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.		Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries	1919 1914 1909	115,623 92,834 84,767	5, 258 (2) (2)	8, 947 (2) (2)	44, 940 14, 041 7, 745	12, 215 8, 499 6, 452	10, 030 18, 116 12, 754	11, 517 13, 753 14, 206	16, 823 35, 563 40, 103	5,8 - 2,8 3,5
ricultural implements	1919 1914	501 872	(2)	(2)	6	230	14 9	111 179	140 683	
tificial stone products	1919 1914	766 738	(2) 4	(²)	93 49	3 11	232 234	21 23	412 421	
atomobile bodies and parts	1919 1914	405 141	21	2	5	138 63	142 15	47 44	50 19	•••••
atomobile repairing	1919 1914	1,842 456	(2)	32 (2)	213 36	203	744 201	110 28	518 149	
oots and shoes	1919 1914	2,153 2,012	(2)	(2)	400 39	1, 299	432	449 779	762	
oxes, set up paper boxes and cartons	1919 1914	711 650	(2)	(2) 7	335 65	149 137	203 42	170	236	
oxes, wooden packing, except cigar boxes	1919 1914	695 768	(2)	(2)	2	62 8	158 25	326 46	142 687	
read and other bakery products	1919 1914	2,975 2,169	(2)	906 (2)	1,201 232	74 74	609 983	19 75	113 776	
rick and tile, terra-cotta, and fire-clay products	1919 1914	799 1,215	(2)	(2)	132 107	ii	157 127	. 8	510 955	
utter	1919 1914	1, 962 1, 426	68	1.	497 230	14 18	366 306	74 10	833 796	
anning and preserving, vegetables.	1919 1914	456 317	(2)		46 111	4 13	19 19	6	351 122	
arriages and wagons, including repairs	1919 1914	565 838	(2)	(2)	9 10	8 27	29 160	473 411	46 230	
ars and general shop construction and repairs by electric-railroad companies.	1919 1914	436 435	(2)	(2)	1 7		303	45	121 369	
ars and general shop construction and repairs by steam-railroad companies.	1919 1914	15, 976 10, 551		. 5,883 (2)	9, 565 2, 031	1,746	96 2, 257	392 3,049	39 1,067	
lothing, men's	1919 1914	1, 561 2, 119		(2)	244 619	86 974	473	22	31	ļ
offee, roasting and grinding	1919 1914	532 313	34		137 42	75 100	2 61	110	284	
oke, not including gas-house coke 3	1919	420	1	-						
onfectionery and ice cream	. 1919. 1914	1,959 978	108	45	672 23	656 36	273 436	65 331	119 73	
cooperage	1919 1914	578 760	11 11	(2)	22 129	113	54 175	236 85	150 377	
opper, tin, and sheet-iron work	. 1919 1914	758 858	\I		201 472	197 24	42 141	30 61	53 157	
electrical machinery, apparatus, and supplies	1919 1914	945 236	39		. 14 19	404 76	68 18			
ingines, steam, gas, and water	. 1919 1914	1,529)	32		81 20	86 96		149 196	
Clour-mill and gristmill products	. 1919 1914	6,049 4,56	16	3(2)	4,800 1,458		100 904		646 1, 646	
Cood preparations, not elsewhere specified	. 1919 1914	62 42	4 2		ı	62 15	59 148	232	109)
Foundry and machine-shop products 4	1	6,36 3,62	0 23		1	ì	1,109 653	2,596		
fur goods	1	90	5 78	.	. 76	1	340	5 2	20	
Furniture.	1919 1914	1,58 1,47	. 11	2 30		1	292 390	507	398	
Gas, illuminating and heating.		70	7	6 (2)		1	18			6
Init goods	5 14	3,50 2,08	11	1 80		1 .	<u>'</u>			[

¹Includes 48 and under for 1914 and 1909, ²Corresponding figures not available.

Not shown separately in 1914.
 Includes "iron and steel, welding" and "machine tools."

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

			in estabi	JSHMENTS	WHERE TH	E PREVAILI	ng Hours	OF LABOR 1	PER WEEK	WERE-
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Liquors, malt	1919 1914	1,036 2,052	(2)	<u>(²)</u>	823 1, 057	3	59 045	60	94 347	
Lumber and timber products.	1919 1914	12,602 16,814	(2) 7	(2)	330 16	43 280	1,553 1,456	221 25	7,698 14,687	2,750 350
Lumber, planing-mill products, not including planing mills con- nected with sawmills.	1919 1914	2,188 3,137	(²)	129 (²)	11 .7	302 137	738 187	721 635	286 2, 171	
Marble and stone work	1919 1914	1,021 1,579	288 (²)	(2)	458 971	71 14	128 184	30 197	46 213	
Mattresses and spring beds, not elsewhere specified	1010 1014	459 440	(2)	(2)	21 8	11 22	11 49	387 63	29 300	
Millinery and lace goods, not elsewhere specified	1919 1914	541 308	(2) 35	233 (²)	57 4	216 8	295		i	
Oil, linseed	1919 1914	483 400				25	146		248 131	64 269
Paper and wood pulp	1919 1914	2, 523 1, 345			1,672				544 900	307 445
Patent medicines and compounds	1919 1914	461 561	(²) ·	(2) 54	111 74	76 81	173 177	15 215	5 14	
Printing and publishing, book and job	1919 1914	3, 062 2, 901	248 (2)	446 (2)	2, 224 1, 426	135 1,233	8 215	1 14	3	10
Printing and publishing, newspapers and periodicals	1919 1914	3, 058 2, 942	121 (2)	111 (2)	2, 285 1, 876	211 291	290 553	11 50	28 169	$\frac{1}{3}$
Saddlery and harness.	1919 1914	436 530	(2) 1	(2)	143 4	6 116	4 88	257 273	25 49	
Signs and advertising novelties	1919 1914	989 238	(2) 53	(2)	873 68	56 137	10 10		16	5 7
laughtering and meat packing	1919 1914	5, 231 2, 565	.,		5,059	15	103 4	45 8	2,538	21
Structural ironwork, not made in steel works or rolling mills	1919 1914	2, 183 2, 058	16		1,542	11	375 31	220 1,973	19 54	
Finware, not elsewhere specified 3	1919	455			8	420		27	•••	
Tobacco, cigars and cigarettes	1919 1914	891 1, 261	22 2 (2)	121 (2)	355 925	126 210	34 78	1 2	24 46	8
Woolen goods	1919 1914	574 448			269	186	31 114	80 290	8 44	
All other industries.	1919 1914	18,427 10,842	924 (²)	746 (2)	7,180 1,750	2,350 1,735	1, 205 3, 337	2,036 1,669	2, 104 2, 134	1,882 217
Total for cities 5.	1919 1914	77,793 57,635	4,827 (2)	6,317 (2)	32, 117 12, 207	10, 988 7, 773	6, 712 14, 315	9, 486 10, 484	4,989 11,380	2, 357 1, 470
DULUTH.	1919 1914	10,472 5,538	286 (2)	235 (2)	4, 928 464	702 308	1,031 1,364	467 797	972 2, 264	1,853 341
Paribault.	1919	800	3.		135	7	2	346	271	42
HIBBING.	1919 1914	50 65	(2) 1	(2)	33 42		2 5	3	5 18	3
MANKATO	1919 1914	771 755	(2) 5	(2)	214 55	95 24	63 239	156 9	208 397	31
Minneapolis.	1919 1914	38, 154 28, 295	1,876 (2)	4,066 (2)	15, 232 0, 403	6,288 1,612	3,043 9,013	5, 367 5, 464	1,941 5,359	341 444
Rocuester	1919	359		72	174		61	23	29	
Pr. CLOUD	1919 1914	1,998 1,429	158 (2)	325 (2)	1, 266 486	19	163 95	14 49	33 678	19 25
St. Paul.	1919 1914	22, 649 19, 483	2, 449 (²)	1,598 (2)	8, 997 4, 592	3,453 5,230	1,964 2,980	2,696 3,607	1,397 2,406	95 608
Winona	1919 1914	2,534 2,070	(2) 49	(2)	1, 107 165	424 503	383 619	414	133 264	4

¹ Includes 48 and under for 1914 and 1919. ² Corresponding figures not available.

Not shown 30) arately in 1914.
 Excludes Austin and Virginia to avoid disclosure of individual operations.

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

	тот	AL.						ES	TABL[S]	HMEN	TS EMP	LOYIN	G—						
industry and city.	ents.	arners number).	No wage earn- ers.	1 to wa earn inclu	ge ers,	wa eari	o 20 ige iers, isive.	eari	o 50 age aers, asive.	eari	o 100 age ners, asive.	eari	to 250 age ners, asive.	ear	to 500 vage rners, lusive.	ear	o 1,000 vage ners, lusive.	W	r 1,000 age ners.
	Establishments.	Wage earners (average number)	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
All industries	6,225	115, 623	771	3, 707	7,318	992	11, 129	383	12, 234	167	11,748	127	19,300	48	15, 895		12,633	12	25, 366
Agricultural implements Artificial stone products Automobile bodies and parts. Automobile repairing Boots and shoes. Boxes, set-up paper boxes and cartons. Boxes, set-up paper boxes and cartons. Bread and other bakery products. Butter Canning and preserving, vegetables Carriages and wagons, including repairs. Cars and general shop construction and repairs by electric-railroad companies. Cars and general shop construction and repairs by steam-railroad companies. Colothing, men's Coffee, roasting and grinding. Coke, not including gas-house coke. Confectionery and ice cream. Cooperage. Cooperage. Cooperage. Electrical machinery, apparatus, and supplies Engines, steam, gas, and water. Flour-mill and gristmill products. Flour-mill and gristmill products. Food preparations, not elsewhere specified. Foundry and machine-shop products. Furniture. Gas, illuminating and heating. Knit goods. Leather goods, not elsewhere specified. Liquors, malt Lumber and timber products, not including planing mills connected with sawmills. Marble and stone work. Mattresses and spring beds, not elsewhere specified. Oil, linseed. Paper and wood pulp Patent medicines and compounds. Printing and publishing, book and job Printing and publishing, newspapers and periodicals. Saddlery and harness Signs and advertising novelties. Slaughtering and meat packing Structural ironwork, not made in steel works or rolling mills. Tinware, not elsewhere specified. Tobacco, cigars and cigarettes. Woolen goods. All other industries.	10 171 488 592 16 16 28 426 28 426 67 8 8 32 25 67 8 8 117 111 128 20 248 45 248 45 248 45 216 28 20 111 218 219 219 219 219 219 219 219 219 219 219	501 766 405 1, 842 2, 153 711 695 2, 975 799 1, 962 456 15, 976 1, 959 1,	10 9 21 777 16 16 18 12 2 2 3 3 1 1 18 16 19 52 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 128 28 28 29 279 5 54 2 41 4 6 6 1 1 22 22 22 24 1 4 4 2 22 21 8 14 4 2 22 21 8 14 4 2 22 21 8 14 4 2 2 21 21 21 21 21 21 21 21 21 21 21 21	14 235 63 996 6 14 23 553 553 553 553 553 553 553 553 553	12 43 22 20 3 3 7 14 66 3 57 3 3 5 3 3 5 3 3 5 3 5 3 5 5 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	176 181 195 73 486 281 205 40 89 89 144 760 77 15 15 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	28 216 12 14 4 3 20 12 14 1 1 3 26 7 7 1 1 1 2 2 3 8 1 2 3 8 1 2 3 8 1 2 3 8 1 2 3 8 1 2 3 8 1 2 3 8 1 2 3 8 1 3 8 1 2 3 8 1 3 8 1 2 3 8 1 3 8 1 2 3 8 1 3 8 1 2 3 8 1 3	500 322 109 876 212 127 43 90 25 27	1 6 4 3 2 1 1 1 1	403 284 243 123 92 122 72 73 130	2 2 2 2 2 2 1 3 3 1 1 1 1 2 2 2 1 1 1 1	2,157 707 122 263 349 296 266 173 341 473 473 144 271 144 390		299 1,656 324 284 394 394 270 422 355 354 1,501 400 400 400 400 400 400 400 400 400 4	8 8 1 1 1 2 2 2 3 3 3 1 1 2 2 7 7 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	588 5,635 702 905	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5,280 2,639 3,01 3,74 2,2,4,5,1
Total for cities 1			= =		2, 82	5 68	=	=	9, 178	122	8, 53	= ===	= ====	=:=	9 12,83	<u>د</u> ک	1 7,5	==	8 15,7
Duluth Faribault Hibbing Mankato Minneapolis	50 10 50	3 80 5 5 6 77	0 1	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 6 9 2 3 6	$egin{array}{c c} 5 & 1 \\ 0 & 1 \\ \hline 0 & 1 \\ \end{array}$	$egin{array}{c c} 0 & 10 \ 3 & 3 \ 2 & 14 \ \end{array}$	9	128	5 3	25	5 3		::	3 89 1 25 9 6,35	2			6 11,1
ROCHESTER. St. CLOUD. St. PAUL. WINONA	. 81	$\begin{bmatrix} 2 & 1,99 \\ 8 & 22,64 \end{bmatrix}$	8 11	7 2 5 2 5 34 8 2	9 8	0 2 0 19	2 27	1 1: 5 80	3 40	3 3	2,31	8 28	1 1 12	$\begin{vmatrix} 22 & 1 \\ 00 & 1 \end{vmatrix}$	1 32 4 4,65 1 39	21	8 5,6	12 -	

¹ Excludes Austin and Virginia to avoid disclosure of individual operations.

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

VALUE OF PRODUCT.		UMBER (BLISHME			GE NUMB GE EARNE		VALI	UE OF PRODUC	rs.	VALUE AD	DED BY MANU	FACTURE.
VALUE OF THOSE	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	6, 225	5, 974	5, 561	115,623	92, 834	84, 767	\$1, 218, 129, 735	\$ 493, 3 54, 136	\$409, 419, 621	\$335, 039, 958	\$156,504,922	\$127, 797, 334
Loss than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	1, 541 1, 753 1, 850 783 132 166	2, 040 1, 894 1, 476 407 79 72	1, 969 1, 743 1, 347 } 437 65	1, 009 4, 507 13, 228 24, 092 14, 509 58, 278	2, 108 7, 238 15, 170 } 38, 311 30, 007	2, 194 6, 767 14, 180 37, 726 23, 900	4,053,239 21,302,797 90,269,656 157,105,175 93,621,686 851,777,182	5, 094, 063 19, 742, 774 63, 585, 461 88, 521, 085 50, 156, 041 260, 254, 712	4, 663, 743 18, 742, 099 56, 703, 495 } 130, 802, 555 198, 507, 720	2, 674, 854 13, 440, 914 31, 841, 810 58, 274, 724 36, 378, 265 192, 429, 391	3, 358, 140 10, 370, 932 23, 117, 977 56, 613, 265 63, 044, 608	3, 080, 907 9, 419, 792 20, 748, 523 51, 618, 590 42, 929, 522
							PER CENT I	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 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$300,000 \$00,000 to \$1,000,000 \$1,000,000 and over	24. 8 28. 2 29. 7 12. 6 2. 1 2. 7	34. 2 31. 7 24. 7 6. 8 1. 3 1. 2	35. 4 31. 3 24. 2 7. 9 1. 2	$ \left\{ \begin{array}{c} 0.9 \\ 3.9 \\ 11.4 \\ 20.8 \\ 12.5 \\ 50.4 \end{array} \right. $	2. 3 7. 8 16. 3 41. 3 32. 3	2. 6 8. 0 16. 7 44. 5 28. 2	0.3 1.7 7.4 12.9 7.7 69.9	1. 0 4. 0 12. 9 17. 9 11. 4 52. 8	1.1 4.6 13.8 31.9 48.5	0.8 4.0 9.5 17.4 10.9 57.4	2.1 6.6 14.8 36.2 40.3	2, 4 7, 4 16, 2 40, 4 33, 6

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

	Е		IBER OF ISHMEN				UMBER ARNERS		VA	LUE OF PROD	ucts.		VALUE A	DDED BY MA	NUFACT	URE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914		cent oution,	1919	1914		cent ution.	1919	1914	Per distrib	cent oution.	1919	1914	Per distrib	
			1919	1914			1919	1914			1919	1914			1919	1914
BOOTS AND SHOES,	16	14	100.0	100.0	2,153	2,012	100.0	100.0	\$12,644,659	\$5,918,031	100.0	100.0	\$4,901,556	\$1,937,639	100.0	100.0
\$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	1 4 4 5 3	4 5 3 5	25. 0 25. 0 31. 2 18. 8	28. 6 35. 7 35. 7	1 37 281 752 1,083	63 21,949	1.7 13.1 34.9 50.3	3.1 96.9	1 165,253 1,287,405 4,003,671 7,188,330	172,583 1,659,415 3 4,086,033	1.3 10.2 31.7 56.8	2. 9 28. 0 69. 0	1 53, 297 682, 274 1, 457, 794 2, 708, 191	93, 257 1, 844, 382	1. 1 13. 9 29. 7 55. 8	4. 8 95. 2
BREAD AND OTHER BAKERY FRODUCTS	426	443	100.0	100.0	2,975	2, 169	100.0	100.0	22,815,456	8,724,162	100.0	100, 0	8,809,372	3,929,774	100.0	100. 0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	198 126 19	172 212 47 9 8 3	18.3 46.5 29.6 4.5	38. 8 47. 9 10. 6 2. 0 0. 7	34 275 680 536	118 553 427 21,071	1.1 9.2 22.9 18.0	5.4 25.5 19.7 49.4	221, 469 2, 129, 286 5, 032, 207 4, 990, 021 10, 442, 473	522,307 2,068,581 1,769,884 1,864,978 3 2,498,412	1.0 9.3 22.1 21.9 45.8	6, 0 23, 7 20, 3 21, 4 28, 6	90, 252 784, 661 1, 716, 868 11, 743, 166 4, 474, 425	257,057 937,096 723,036 22,012,585	1.0 8.9 19.5 19.8	6. 5 23. 8 18. 4 51. 2
BUTTER	832	773	100.0	100.0	1,962	1,426	100.0	100, 0	88, 882, 271	33,294,003	100.0	100.0	6,951,120	2,932,801	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	7 53 532 222 12 6	27 220 488 34 3 4	0, 8 6, 4 63, 9 26, 7 1, 4 0, 7	3.5 28.5 63.1 4.4 0.5	30 719 706 196 310	14 209 817 2 386	0.1 1.5 36.6 36.0 10.0 15.8	1. 0 14. 7 57. 3 27. 1	21, 883 717, 502 29, 702, 947 36, 541, 071 9, 075, 211 12, 823, 657	85,956 3,038,415 20,136,706 6,658,733 83,374,193	(6) 0.8 33.4 41.1 10.2 14.4	0.3 9.1 60.5 20.0 10.1	4,059 79,927 2,111,150 2,225,219 1,159,266 1,371,499	10, 165 330, 527 1, 759, 793 3 832, 316	0.1 1.1 30.4 32.0 16.7 19.7	0.3 11.3 60.0 28.4
CARS AND GENERAL SHOP CON- STRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES	75	38	100.0	100.0	15, 976	10,551	100.0	100.0	35, 350, 764	14, 594, 018	100.0	100.0	22,658,210	8,266,790	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$20,000 \$100,000 to \$500,000 \$500,000 to \$500,000 \$1,000,000 and over		3 13 18 6 3	10.7 10.7 26.7 29.3 8.0 14.7	7.9 34.2 34.2 15.8 7.9	10 37 446 2,787 1,781 10,915	21 455 46, 250 3, 825	0.1 0.2 2.8 17.4 11.1 68.3	0. 2 4. 3 59. 2	18, 983 104, 676 983, 611 5, 535, 273 3, 933, 701 24, 774, 520	23,361 728,611 3,381,037 4,611,267 5,840,742	0.1 0.3 2.8 15.7 11.1 70.1	0. 2 5. 0 23. 2 31. 6 40. 1	14,500 62,973 728,972 3,881,343 2,792,438 15,177,984	14,515 439,736 14,768,030 3,049,509	0.1 0.3 3.2 17.1 12.3 67.0	0. 2 5. 3 57. 6
Clothing, men's		32	100.0	100.0	1,561	2, 119	100.0	100.0	7,065,358	4,738,607	100.0	100.0	2, 225, 556	1,614,680	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over	1 11	3 6 13 6 4	20. 6 32, 4 35, 3 11. 8	9. 4 18. 8 40. 6 18. 8 12. 5	1 32 224 486 819	8 66 462 21,583	2.0 14.3 31.1 52.5	0.4 3.1 21.8 74.7	1 61, 161 562, 743 2, 867, 343 3, 574, 111	9,460 67,505 706,998 1,105,366 2,849,278	0.9 8.0 40.6 50.6	0.2 1.4 14.9 23.8 60.1	1 50, 179 244,839 1,171,530 750,008	8,014 48,569 288,177 21,269,920	2.7 11.0 52.6 33.7	0, 5 3, 0 17, 8 78, 6
Confectionery and ice cream	117	102	100.0	100.0	1,959	978	100.0	100.0	10, 055, 805	3, 876, 914	100.0	100.0	4,368,205	1, 632, 507	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	23 28 45 15 6	28 36 27 11	19.7 23.9 38.5 12.8 5.1	27. 5 35. 3 26. 5 10. 8	10 56 420 863 610	25 100 309 544	0.5 2.9 21.4 44.1 31.1	2.6 10.2 31.6 55.6	55, 275 277, 511 1, 910, 342 8, 329, 548 4, 483, 129	2, 260, 819	0.5 2.8 19.0 33.1 44.6	1.7 8.8 31.2 58.3	27,336 111,817 842,318 1,490,892 1,886,842	30, 154 108, 397 534, 234 893, 722	0.6 2.6 19.3 34.3 43.2	2. 2 10. 3 32. 7 54. 7

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

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

	ES		BER OF SHMEN	rs.		RAGE N	UMBER RNERS.	OF	VAI	.de of produ	JCTS.	İ	VALUE AD	DED BY MAN	UPACTU	RE,
INDUSTRY AND VALUE OF PRODUCT.	1919	1914	Per o		1919	1914	Per c distrib		1919	1914	Per o		1919	1914	Per o distrib	ent ution.
			1919	1914			1919	1914			1919	1914			1919	1914
FLOUR-MILL AND GRISTMILL PRODUCTS	248	286	100.0	100.0	6,049	4, 564	100.0	100.0	\$381,248,891	\$148,243,708	100. 0	100.0	\$43,376,379	\$20,929,137	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	9 24 104 57 6 48	17 55 131 47 11 25	3. 6 9. 7 41. 9 23. 0 2. 4 19. 4	5. 9 19. 2 45. 8 16. 4 3. 9 8. 7	3 15 192 308 84 5,447	8 59 347 2 648 3,502	(1) 0.2 3.2 5.1 1.4 90.0	0. 2 1. 3 7. 6 14. 2	28, 149 319, 507 5, 692, 696 11, 026, 747 4, 176, 771 360, 005, 021	49, 388 686, 228 6, 074, 304 10, 462, 497 8, 132, 086 122, 839, 205	(1) 0.1 1.5 2.9 1.1 94.4	(1) 0. 5 4. 1 7. 1 5. 5 82. 9	6, 654 54, 386 841, 143 1, 350, 294 450, 399 40, 673, 503	14,198 138,387 1,033,926 22,310,184 17,432,442	(1) 0.1 1.9 3.1 1.0 93.8	0.1 0.7 4.9 11.0
FOOD PREPARATIONS, NOT ELSE- WHERE SPECIFIED	. 41	27	100.0	100.0	624	426	100.0	100.0	14,706,653	4, 978, 745	100.0	100.0	4, 288, 519	1,929,386	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$1,000,000 and over.	12 8	9 6 8 8 4	17. 1 24. 4 29. 3 19. 5 9. 8	33.3 22.2 29.6 14.8	7 19 71 185 342	8 27 88 3 303	1.1 3.0 11.4 29.6 54.8	1.9 6.3 20.7 71.1	17, 761 119, 901 521, 333 1, 883, 303 12, 164, 355	26, 741 70, 861 504, 305 3 4, 376, 838	0. 1 0. 8 3. 5 12. 8 82. 7	0.5 1.4 10.1 87.9	8,519 45,431 188,034 682,723 3,363,812	14, 357 17, 535 150, 161 31, 738, 332	0.2 1.1 4.4 15.9 78.4	0.7 0.9 8.2 90.1
FOUNDRY AND MACHINE-SHOP PRODUCTS 4		205	100.0	100.0	6, 360	3,623	100.0	100.0	32, 787, 137	10, 549, 183	100.0	100.0	19, 830, 311	5, 889, 644	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over.	. 31 . 63 . 83 . 39 . 8	61 70 53 15 6	13. 4 27. 3 35. 9 16. 9 3. 5 3. 0	29.8 34.1 25.9 7.3 2.9	17 188 993 1,591 1,119 2,449	95 363 862 2 2, 303	0.3 3.0 15.7 25.0 17.6 38.5	2.6 10.0 23.8 63.6	78,078 636,119 3,912,203 7,923,102 5,181,747 15,055,888	173,794 727,513 2,164,383 2,996,713 4,486,780	0. 2 1. 9 11. 9 24. 2 15. 8 45. 9	1.6 6.9 20.5 28.4 42.5	56, 633 438, 050 2, 290, 458 4, 485, 479 3, 017, 983 9, 541, 708	124, 683 508, 748 1, 246, 970 24, 009, 249	0.3 2.2 11.6 22.6 15.2 48.1	21. 2 68. 1
Fur goods	. 45	36	100.0	100.0	905	838	100. 0	100.0	8, 062, 860	=		100.0	2, 858, 587		100.0	
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 and over.	6 11 18 10	8 12	13.3 24.4 40.0 22.2	27.8 22.2 33.3 16.7	40 131 730	35 178 618	0. 4 4. 4 14. 5 80. 7	0.8 4.2 21.2 73.7	16, 211 102, 168 761, 235 7, 183, 216	94, 457 489, 682	0. 2 1. 3 9. 4 89. 1	0. 6 2. 2 11. 6 85. 5	368, 014	270,084	12.9	2.8 17.6
LUMBER AND TIMBER PRODUCT			100.0	100.0		16, 814	100.0	100.0	37, 321, 051	=	=	100.0	20, 150, 453		=	=
Less than \$5,000 - \$5,000 to \$20,000 to \$20,000 to \$100,000 . \$100,000 to \$500,000 \$500,000 to \$1,000,000 to \$1,000,000 and over .	103 59 41 25 7	80 39 23 6	16.8 10.2 2.9	12.3 7.2	281 801 2, 275 1, 320 7, 814	292 808 1, 201 25, 047 9, 466	0. 9 2. 2 6. 4 18. 1 10. 5 62. 0	7. 1 30. 0	6,345,425 4,725,582	838, 054 1, 601, 808 5, 447, 119 2, 4, 313, 137	1.6 5.4 17.0 12.7	2. 6 4. 9 16. 8 13. 3	449, 055 1, 365, 177 3, 975, 606 2, 631, 632	617, 604 1, 074, 876 24,826, 687	2.3 6.8 19.1	3.8 6.5 7 29.4
Lumber, planing-mill prod ucts, not including planin mills connected with saw mills	G -	100	100.0	100.0	2,188	3, 137	100.0	100, 0	11, 804, 330	9, 463, 993	100.0	100.0	5, 276, 173	3 4, 202, 128	3 100.	0 100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000.	21 17 28	21 31 1 229	18.1 29.8	21.0 31.0 29.0	10 36 343 1,039 760	63 537 2 2, 525	1.6 15.7 47.5	2. 0 17. 1 80. 5	181, 11- 1, 570, 71- 4, 756, 48	$egin{array}{c c} 177,983 \\ 4 & 1,533,943 \\ 9 & 7,709,473 \\ \hline \end{array}$	$\begin{bmatrix} 1.5 \\ 2 \end{bmatrix}$	1. 9 16. 2 81. 5	79, 238 736, 77	89, 860 043, 531 4 2 3,446, 421	1. 14. 2 42.	5 2.1 0 15.3 4 82.0
PRINTING AND PUBLISHING BOOK AND JOB		7 258	100.0	100.0	3,069	2,901	100.0	100.0	12, 994, 80	4 7,652,22	3 100.0	100.0	8,644,15	5 5,541,26	3 100.	0 100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	79 96 67 35	3 92 7 50	34. 7	35.7 21.7 5.4	279 821	1,046	9. 1 26. 8 42.	13.9 36.3 47.5	1, 101, 97 1 3, 171, 42 5 5, 747, 63	9 924, 83 9 2, 440, 59 5 4, 068, 14	2 8. 8 9 24. 4	12. 1 1 31. 9 2 53. 2	$\begin{bmatrix} 735, 10 \\ 2, 027, 32 \\ 3, 654, 50 \end{bmatrix}$	5 666,55 3 1,672,99 1 3,037,69	0 8. 4 23. 1 42.	5 12.0 5 30.2 3 54.8
PRINTING AND PUBLISHING NEWSPAPERS AND PERIODICAL	s. 70	1 708	5 100.0	100.0	3,05	3 2,94	100.0	100.	20, 088, 59	0 11,927,67	8 100. () 100.0	14, 209, 84	9 8,685,30	3 100.	
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	23 8 1	2 4' 0 1 7	7 34.7	1 26.5 7 6.7 4 1.6	54 64 33 51,29	573 8 38 1 63	17. 5 21. 5 10. 42.	8 19. 2 13. 8 21.	5 2,171,14 1 3,180,06 6 2,780,33 1 10,976,08	1,147,89 1,669,66 32 1,722,86 31 2,534,28 30 4,852,95	9 10. 8 15. 8 13. 54.	8 14.0 8 14.4 8 21.3	1,695,70 4 2,432,12 2 2,197,70 - 57,138,63	7 1,403,16 9 1,338,60 9 1,901,48	0 11. 08 17. 37 15 50	9 16. 1 15. 5 21. 2
SLAUGHTERING AND MEA		3 1	9 100.	0 100.0	5,23	1 2,56	5 100.	0 100.	0 146, 361, 0	16 47,535,80	3 100.	0 100.	0 17,855,06	5, 944, 30)8 100	
Less than \$20,000. \$20,000 to \$100,000 \$100,000 to \$500,000. \$1,000,000 and over.	6	3 2	3 6 23. 6 23. 4 53.	1 31.0	3 61	4 3 8 2 11	7 0.	7 4.	3 6 171, 50	26, 94 52 434, 61 19 22, 132, 74 44, 941, 49	10 19 0. 17 0. 07 99.	8 4.		39 2 278, 3	51 U 25 U	0. 3 0. 1.7 4. 1.0 91.

Less than one-tenth of 1 per cent.

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

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

Includes "irou and steel, welding" and "machine tools,"

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

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

 $_{\text{TABLE}}$ 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

	r of nents.	WA EARI	ge Vers.	VALUE PRODUC		VALUE ADE MANUFAC			r of nents.		AGE NERS.	VALUE		VALUE ADI MANUFACT	
OF PRODUCT. 1	Number establishme	Average number.	Per cent of total.	Amount.	Per cont of total.	Amount.	Per cent of total.	OF PRODUCT.	Number establishme	Average num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
DULUTH	226	10, 472	100.0	\$75, 261, 387	100.0	\$32, 231, 933	100.0	Rochester	41	359	100.0	\$2,250,242	100.0	\$943,433	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	26 62 73 37 15 13	18 200 718 1,679 1,755 6,102	0. 2 1. 9 6. 9 16. 0 16. 8 58. 3	72,471 690,551 3,453,412 7,941,816 9,923,891 53,179,246	0. 1 0. 9 4. 6 10. 6 13. 2 70. 7	44,693 417,516 1,926,775 4,168,003 3,752,847 21,922,039	0. 1 1. 3 6. 0 12. 9 11. 6 68. 0	Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000 \$100,000 and over St. Cloub	11 13 11 6	32 85 238 1,998	1. 1 8. 9 23. 7 66. 3 100. 0	18,110 146,093 389,621 1,696,418 7,733,764	0.8 6.5 17.3 75.4 100.0	11,091 74,126 198,976 659,240 3,206,540	1. 2 7. 9 21. 1 69. 9 100. 0
FARIBAULT	53	806	100.0	10, 155, 358	100.0	2,076,674	100.0	Less than \$5,000 \$5,000 to \$20,000	7 23	3 75	0.2	21, 701 240, 285	0.3	14,508 142,136	0.4
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over	12 20 12 9	10 63 77 656	1. 2 7. 8 9. 6 81. 4	35, 045 210, 455 587, 269 9, 322, 589	0.3 2.1 5.8 91.8	23,903 115,497 227,003 1,710,271	1, 2 5, 6 10, 9 82, 4	\$20,000 to \$100,000 \$1,000,000 to \$500,000 2 \$1,000,000 and over	27 12 3	326 758 836	16.3 37.9 41.8	1, 229, 354 2, 397, 719 3, 844, 705	15.9 31.0 49.7	677,837 1,286,921 1,145,138	20. 8 39. 4 35. 1
Hibbing	16	50	100.0	320, 427	100.0	152,746	100.0	St. Paul Less than \$5,000		22,649		149, 638, 290	100.0	64, 467, 830	100, 0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000	5 5 6	3 9 38	6, 0 18, 0 76, 0	14,697 68,679 237,051	4. 6 21. 4 74. 0	8,916 26,254 117,576	5.8 17.2 77.0	\$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000	172 231 232 115 29	79 574 2, 454 4, 361 3, 434	0.3 2.5 10.8 19.3	399, 350 2, 533, 439 10, 947, 363 24, 748, 619	0.3 1.7 7.3 16.5	263, 289 1, 497, 010 5, 740, 191 11, 913, 952	0.4 2.3 8.9 18.5
MANKATO	56	771	100.0	9, 766, 306	100.0	1,814,261	100.0	\$1,000,000 and over	39	11,747	15, 2 51. 9	21,361,736 89,647,783	14.3 59.9	8, 533, 001 36, 520, 387	13. 2 56, 6
Less than \$5,000 \$5,000 to \$20,000	15 12	42	0. 9 5. 4	36,032 136,381	0, 4 1, 4	19,231 71,531	1.1 3.9	WINONA	73	2, 534	100.0	25, 119, 522	100.0	5, 846, 416	100.0
\$20,000 to \$100,000 \$100,000 and over	18 11	244 478	31. 6 62, 0	722, 427 8, 871, 466	7.4 90.8	389, 908 1, 333, 591	21, 5 73, 5	Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000	8 16 26	32 312	0.2 1.3 12.3	21,675 164,029 1,442,678	0, 1 0, 7 5, 7	12,802 91,309 598,788	0.2 1.6 10.2
Minneapolis		38, 154	100.0	401, 382, 975	100.0	128, 548, 940	100, 0	\$100,000 to \$500,000 2 \$1,000,000 and over	18 5	1,119 1,067	44, 2 42, 1	4,834,737 18,656,403	19. 2 74. 3	1,990,190 3,153,237	34, 0 53, 9
Less than \$5,000\$5,000 to \$20,000\$20,000 to \$100,000\$100,000 to \$500,000\$500,000 to \$1,000,000\$1,000,000 and over	247 423 438 218 45 50	135 1, 122 4, 139 8, 359 4, 492 19, 907	0. 4 2. 0 10. 8 21. 9 11. 8 52. 2	7, 698, 566 20, 253, 921 48, 655, 451 30, 931, 632 383, 177, 608	0, 1 1, 6 4, 1 9, 9 6, 3 78, 0	439, 576 5, 887, 388 10, 887, 132 22, 518, 058 13, 311, 117 75, 505, 669	0. 3 4. 6 8. 5 17. 5 10. 4 58. 7			2,501			, 0		53.0

¹ Excludes Austin and Virginia to avoid disclosure of individual operations.

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

			MBER		۱۷۸	RAGE	NUMBE	R OF A	/AGE E	ARNER	s.		V	ALUE OF PRO	DUCTS.			
INDUSTRY AND CITY.	Con- sus year.	MEN	TS OW			In est	ablishr ned by	nents	Per c	ent of	total.		Of estab	lishments ow	ned by—	Рег с	ent of t	total.
and the section of			Cor- pora- tions		Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ors.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions,	All oth- ers.
All industries	1919 1914 1909	2,653 2,825 2,654	1,809 1,483 1,326	1,763 1,666 1,581	115,623 92,834 84,767	8,502	99, 983 75, 840 67, 475	7,813 8,492 8,169	6,8 9,2 10,8	81.7	9.1		\$48,556,598 31,330,735 37,022,048	\$1,069,259,122 414,730,487 330,924,567	\$100,314,015 47,292,914 41,473,006	4.0 6.4 9.0	. 87. 8 84. 1 80. 8	9.6
Automobile repairing	1919 1914	288 77	71 22	233 51	1,842 456	674 162	550 129	618 165	36. 6 35. 5	29. 9 28. 3	33.6 36,2	9, 282, 481 1, 97 6, 221	2,303,878 400,656	4,871,096 283,307	2, 107, 507 392, 258	24.8 37.2	52. 5 26. 3	22. 7 36. 4
Bread and other bakery products.	1919 1914	318 346	47 40	61 57	2,975 2,169	688 738	2,059 1,263	228 168	23. 1 34. 0	69. 2 58. 2	7.7 7.7	22,815,456 8,724,162	5,028,491 2,966,004	16, 128, 511 5, 076, 418	1,658,454 681,740	22.0 34.0	70.7 58.2	7. E
Butter	1919 1914	104 115	80 47	648 611	1,962 1,426	142 153	732 353	1,088 920	7. 2 10. 7	37. 3 24. 8	55. 5 64. 5	88, 882, 271 33, 294, 003	6,586,292 3,196,601	28,337,430 8,413,114	53,958,549 21,684,288	7.4 9.6	31.9 25.3	60. 7 65. 1
Cars and general shop con- struction and repairs by steam-railroad com- panies.	1919 1914		75 38		15, 976 10, 551		15, 976 10, 551			100. 0 100. 0		35,350,764 14,594,018		35, 350, 764 14, 594, 018			100.0 100.0	
Clothing, men's	1919 1914	9 12	16 14	9	1,561 2,119	150 147	1,278 1,588	133 384	9. 6 6. 9	81.9 74.9	8.5 18.1	7,065,358 4,738,607	738,074 262,932	5,705,213 4,063,542	622,071 412,133	10. 4 5. 5	80.7 85.8	8.8 8.7
Confectionery and ice cream,	1919 1914	36 41	38 28	43 33	1,959 978	179 158	1,598 668	182 152	9. 1 16. 2	81.6 68.3	9.3 15.5	10,055,805 3,876,914	1,245,623 643,027	7,805,017 2,582,830	1,005,165 651,057	12. 4 16. 6	77.6 66.6	10.0 16.8
Flour-mill and gristmill products.	1919 1914	67 105	131 105	50 76	6,040 4,584	135 282	5,749 3,984	165 208	2, 2 6, 2	95.0 87.3	2, 7 6, 5	381, 248, 891 148, 243, 708	5,641,000 5,999,856	366, 266, 121 134, 861, 980	9,341,770 7,381,872	1.5 4.0	96.1 91.0	2.5 5.0
Food preparations, not elsewhere specified.	1919 1914	6 4	27 17	8 6	624 426	14 4	579 405	31 17	2. 2 0. 9	92.8 95.1	5.0 4.0	14,706,653 4,978,745	152,645 12,377	14,382,630 4,902,391	171, 378 63, 977	1.0 0.2	97. 8 98. 5	1.2 1.3
Foundry and machine- shop products.1	1919 1914	78 73	109 90	44 42	6,360 3,623	533 283	4,269 2,417	1,558 923	8. 4 7. 8	67.1 66.7	24. 5 25. 5	32,787,137 10,549,183	2,474,808 634,789	22,453,201 8,083,697	7,859,128 1,830,697	7.5 6.0	68. 5 76. 6	24.0 17.4
Fur goods	1919 1914	29 21	11 10	5 5	905 838	222 102	656 482	27 254	24. 5 12, 2	72. 5 57. 5	3. 0 30. 3	8,062,860 4,207,468	1,185,665 344,222	6,704,865 3,036,721	172,330 826,525	14.7 8.2	83. 2 72. 2	2,1 19.6
Knit goods	1914	7 5	8	1 2	3,564 2,088		3,518 2,029	2 46 259		98. 7 97. 2	1.3 2.8	13,984,944 4,665,325		13,731,353 4,545,870	² 253,591 ² 119,455		98. 2 97. 4	1.8
Liquors, malt	1919 1914	5 21	20 36	3 8	1,036 2,052	36 86	985 1,915	15 51	3. 5 4. 2	95, 1 93, 3	1.4 2.5	7,712,734 14,266,296	883,820 387,630	7,480,729 13,639,940	48,185 238,726	2.4 2.7	97. 0 95, 6	2.6 1.7

^{1 1914 || 21 | 36 | 8 || 2,052 || 86 | 1,915 | 51 || 1} Includes "iron and steel, welding" and "machine tools,"

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

Includes the group "Individuals,"

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

			TBER TABLES		AVE	RAGE I	NUMBEI	OF W	AGE E	ARNER	3.	W	V.	ALUE OF PROI	ducts.			=
INDUSTRY AND CITY.	Cen- sus year.	MEN	rs ow By—				ablishr rned by		Perc	ent of	total.		Of establ	ishments owi	ned by	Per e	ent of t	otal.
		vid-	Cor- pora- tions	oth-	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions,	****
Lumber and timber prod- ucts.	1919 1914	135 176	55 68	54 74	12,602 16,814	946 1,046	11, 016 14, 567	640 1,201	7. 5 6. 2	87. 4 86. 6	5.1 7.1	\$37,321,051 32,412,302	\$2,117,916 1,402,822	\$33, 483, 646 29, 695, 244	\$1,719,489 1,314,236	5.7 4.3	89. 7 91. 6	4.0
Lumber, planing - mill products, not including planing mills connected	1919 1914	31 25	45 56	18 19	2,188 3,137	120 193	1,805 2,764	263 180	5. 5 6. 2	82. 5 88. 1	12.0 5.7	11,804,330 9,463,993	586, 198 981, 995	9, 257, 051 8, 028, 283	1, 961, 081 458, 715	5, 0 10, 4	78. 4 84. 8	16. (4. 8
with sawmills. Oil, linseed	1919 1914		6 6		483 400		483 400		,,	100, 0 100, 0		33, 237, 740 12, 356, 906		33, 237, 740 12, 356, 906			100, 0 100, 0	
Printing and publishing, book and job.	1919 1914	140 119	83 74	54 65	3,082 2,901	39 <u>4</u> 380	2,398 2,249	270 272	12. 9 13. 1	78.3 77.5	8.8 9.4	12,994,804 7,652,223	1,631,684 908,079	10, 256, 138 6, 021, 365	1,106,982 722,779	12.6 11.9	78.9 78.7	8.
Printing and publishing, newspapers and peri- odicals.	1919 1914	423 476	167 127	111 102	3,058 2,912	600 743	2,245 1,986	213 213	19. 6 25. 3	73. 4 67. 5	7.0 7.2	20,088,590 11,927,678	2,379,728 1,976,605	16, 244, 239 9, 363, 473	1,464,623 587,600	11. 8 16. 6	80. 9 78. 5	7.
Slaughtering and meat packing,	1919 1914	3 5	7 8	3 6	5,231 2,565	41 29	5,142 2,458	48 78	0.8 1.1	98.3 95.8	0, 9 3. 0	146, 361, 046 47, 535, 803	2,021;067 461,621	142, 516, 720 45, 637, 593	1,823,259 1,436,589	1,4 1,0	97. 4 98. 0	1.
Structural ironwork, not made in steel works or rolling mills.	1919 1914	4 4	11 10	4 4	2,183 2,058	18 43	2,116 1,988	49 27	0.8 2.1	96. 9 96. 6	2,2 1.3	9, 952, 606 6, 305, 596	75, 011 75, 235	9, 513, 665 6, 176, 257	363, 930 54, 104	0, 8 1, 2	95. 6 97. 9	3. 0.
Total for cities 1	1914	1, 09 1, 14	1,182 943		77,793 57,635	4,423 4,359	68, 837 48, 499	4, 533 4, 777	5. 7 7. 6	88. 5 84. 1	5, 8 8, 3	771, 628, 271 297, 864, 434	23,269,783 13,951,501	720, 692, 836 268, 732, 564	27,665,652 15,180,369	3.0 4.7	93. 4 90, 2	
DULUTH	1914	67 102	128 101	31 40	10,472 5,538	357 419	9,878 4,794	237 325	3. 4 7. 6	94.3 86.6	2.3 5.9	75, 261, 387 19, 729, 283	1,566,596 1,301,926	71, 124, 005 17, 012, 231	2,570,786 1,415,126	2, 1 6, 6	94. 5 86. 2	3. 7.
FARIBAULT	1919 1919 1914	30 8 15	17 3 2	6 5 10	806 50 65	74 29 46	671	61 13 2 19	9. 2 58. 0 70. 8	83. 3 16. 0	7.6 26.0 29.2	10, 155, 358 320, 427 254, 400	315,519 140,147 183,478	9,492,080 101,843	347,759 78,437 2 70,922	3. 1 43. 7 72, 1	93. 5 31. 8	3, 24, 27,
MANKATO MINNEAPOLIS	1914	29 34 547 585	15 16 618 511	12 14 256 253	771 755 38,154 28,295	120 202 2,122 2,019	518 384 34,278 24,544	133 169 1,754 1,732	15. 6 26. 8 5. 6 7. 1	67. 2 50. 9 89. 8 86. 7	17.3 22.4 4.6 6.1	9,766,306 4,344,114 491,382,975 187,854,159	373, 272 479, 308 11, 141, 762 5, 810, 546	8,645,909 3,333,364 469,518,536 175,237,770	747, 125 531, 442 10, 722, 677 6, 805, 813	3.8 11.0 2.3 3.1	88. 5 76. 7 95. 5 93. 3	7.
ROCHESTERST. CLOUD	1914	21 30 37		12 15 20	359 1,998 1,429	61 160 157	272 1,784 919	26 104 353	17.0 8.0 11.0	75. 8 86. 8 64. 3	7. 2 5. 2 24. 7	2,250,242 7,733,764 2,695,492	373, 160 536, 277 680, 459	1,702,724 6,770,482 1,511,583	174, 358 427, 005 491, 450	16.6 6.9 25.6	75. 7 87. 5 56. 1	
ST. PAUL	1914	343 333 23 37	329 255 37 38	146 149 13 16	22,649 19,483 2,534 2,070	1,414 1,348 86 168	16,012 2,365	2,122 2,123 83 56	6. 2 6. 9 3. 4 8, 1	84. 4 82. 2 93. 3 89. 2	9.4 10.9 3.3 2.7	149, 638, 290 68, 682, 206 25, 119, 522 14, 304, 780	8, 338, 425 4, 888, 220 484, 625 598, 564	129, 453, 910 58, 186, 900 23, 883, 347 13, 450, 716	11,845,955 5,607,086 751,550 255,500	5.6 7.1 1.9 4.2	95. 1	8.

¹ Excludes Austin and Virginia to avoid disclosure of individual operations.

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

en e	11 12, 1		<u></u>	C	TIES HAVING	A POPU	LATION OF 10	,000 OR	OVER.		THE STATE OUT	
	Census	Aggregate.	Total.		10,000 to 2	5,000.2	25,000 to 10	0,000.	100,000 and	over.	A POPULATION 10,000 OR OV	N OF
	year.		Number or	Per cent of	Number or	Per cent of	Number or	Per cent of	Number or	Per cent of	Number or	Per
	1		amount.	aggre- gate.	amount.	aggre- gate.	amount.	aggre- gate.	amount.	aggre- gate.	omount.	aggre gate.
Number of places.	. 1919 1914 1909		9 8 7		6 5 4		1 1 1		2 2 2			
Population :	1920 1915 1910	2,387,125 2,213,919 2,075,708	801, 582 734, 276 644, 364	33. 6 33. 2 31. 0	87, 385 64, 713 49, 746	3.7 2.9 2.4	98, 917 89, 331 78, 466	4.1 4.0 3.8	615, 280 580, 232 516, 152	25. 8 26. 2 24. 9	1, 585, 543 1, 479, 643 1, 431, 344	66. 66. 68.
Number of establishments	1919 1914 1909	6, 225 5, 974 5, 561	2,776 2,622 2,284	44. 6 43. 9 41. 1	311 293 269	5.0 4.9 4.8	226 243 194	3. 6 4. 1 3. 5	2,239 2,086 1,821	36. 0 34. 9 32. 7	3,449 3,352 3,277	
A verage number of wage earners	1919 1914 1909	115, 623 92, 834 84, 767	77, 793 58, 256 56, 537	67. 3 62. 8 66. 7	6, 518 4, 940 4, 153	5.6 5.3 4.9	10, 472 5, 538 6, 083	9, 1 6, 0 7, 2	60, 803 47, 778 46, 301	52. 6 51. 5 54. 6	37,830 34,578 28,230	32. 37.
Value of products.	1919 1914 1909	\$1,218,129,735 493,354,136 409,419,621	\$771,628,271 299,741,311 261,481,912	63. 3 60. 8 63. 9	\$55,345,619 23,475,663 19,907,144	4.8	\$75, 261, 387 19, 729, 283 17, 180, 063	6. 2 4. 0 4. 2	\$641, 021, 265 256, 536, 365 224, 394, 705	52. 6 52. 0 54. 8	\$446,501,464 193,612,825 147,937,709	36. 39. 36.
Value added by manufacture	1919 1914 1909	335, 039, 958 156, 504, 922 127, 797, 334	239, 348, 773 105, 343, 602 89, 296, 852	71. 4 67. 3 69. 9	14, 100, 070 7, 614, 121 6, 858, 783	4. 2 4. 9 5. 4	32, 231, 933 8, 211, 614 8, 336, 133	9. 6 5. 2 6. 5	193,016,770 89,517,867 74,101,936	57. 6 57. 2 58. 0	95, 691, 185 51, 161, 320 38, 500, 482	28. 32.

² Includes the group "Corporations."

¹ Includes Austin and Virginia in 1919, and Virginia in 1814 and 1909, to avoid disclosure of individual operations.
2 Includes Stillwater in 1914 and 1909; population less than 10,000 in 1920.
3 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.

	VA	LUE OF	PRODUCTS.			VA	LUE OF	PRODUCTS.	
CITY AND INDUSTRY.	Amount,	Per cent of tota!	Increase 1 ov	er 1914.	CITY AND INDUSTRY.	Amount,	cent	Increase 1 ov	er 1914.
and the second s	1919.	for the state.	Amount.	Per cent.		1919.	of total for the state.	Atnount	Per cent.
DULUTH.					Minneapolis-Continued.				
oundry and machine-shop products offee, roasting and grindingunber and timber products. umber and publishing, newspapers and	\$4,071,297 2,309,660 2,282,944	12. S 19. 0 6. 1	\$2, 429, 907 (2) -362, 001	- 148. 0 13. 7	Drug grinding. Gas, illuminating and heating. Gloves and mittens, leather. Knit goods. Leather goods, not elsewhere specified. Liquors, mait. Lumber and timber products. Cil, composite. Cleomargarine and other butter substitutes				
rinting and publishing, revisions, periodicals	1,462,402	7.3	777, 535	113.5	Leather goods, not elsewhere specified Liquors, malt				
ars and general shop construction and	1,362,405 1,066,186	11.5 3.0	131, 291 (2)	-8.8	Cil, composite			. *	
repairs by Steam-earthage repairs by Steam-earthage the resident of other bakery products. onfectionery rinting and publishing, book and job 3 opper, tin, and sheet-iron work. opper, tin, and sheet-iron work. oots and shoes. utter. ement. lothing, men's. oke, not including gas-house coke. lour-mill and gristmill products ron and steel, blast furnaces. ron and steel, steel works and rolling mills. inen goods. iduors, malt. datches. Shipbuilding, steel. laughtering and meat packting.	1,066,186 1,022,106 682,804 659,636 613,482	4.5 6.8 5.1 16.1	544, 310 336, 170 230, 035 206, 575	113. 9 97. 0 53. 5 50. 8	Cleomargarine and other butter substi- tutes. Paper and wood pulp. Petroleum, refining. Pickles, preserves, and sauces. Poultry, killing and dressing, not done in slaughtering and meat-packing estab- lishments. Rubber tires, tubes, and rubber goods, not elsewhere specified Steam fittings and steam and hot-water heating apparatus. Window and door screens and weather strips.	(2)	(\$)	(3)	(2)
oots and shoes utter lement, lehinig, men's. loke, not including gas-house coke.			•		lishments. Rubber tires, tubes, and rubber goods, not elsewhere specified Scam fittings and steam and hot-water heating apparatus.				
lour-min and steel, blast furnaces ron and steel, steel works and rolling mills. Anen goods. Aquors, malt	(2)	(2)	(²)	(2)	Window and door screens and weather strips. Wooden goods, not elsewhere specified Woolen goods.				
latches. hipbuilding, steel. Haughtering and meat packing.					St. Paul. Foundry and machine-shop products	\$12,079,703	37. 9	\$8,682,965	255.6
MINNEAPOLIS.	1	59.7	142,473,637	167.4	Butter Cars and general shop construction and repairs by steam-railroad companies	9, 038, 459 8, 068, 846	10, 2 22, 8	5,809,156 4,252,890	179.
Flour-mill and gristmill products. It, linseed. Less and general shop construction and repairs by steam-millroad companies. It and in the bakery products. Country and machine-shop products. It uctural ironwork, not made in steel works or rolling mills. Cod preparations, not elsewhere specified. Intiting and publishing, newspapers and perfolicials.	12,498,384 12,401,478	75.3 35.4 51.4	(2) 7,948,936 7,487,233 8,257,742	174. 7 152. 3	Foundry and machine-shop products. Butter Cars and general shop construction and repairs by steam-railroad companies Boots and shoes Flour-mill and gristmill products Fur goods Printing and publishing, newspapers and periodicals. Printing and publishing, book and job Bread and other bakery products. Food preparations, not elsewhere specified. Confectionery and ice cream Leather goods, not elsewhere specified Lumber, planing-mill products, not in-	7,770,683 6,589,872 6,581,868	61.5 1.7 81.6	4,731,870 (2) 3,073,038	155, 87.
read and other nakery products	12,038,002	35.9	!!	218.4	periodicals. Printing and publishing, book and job Bread and other bakery products.	6,579,475 5,824,289 5,599,146	32.8 44.8 24.5	3,046,243 1,627,099 4,038,268	86.3 38. 258.
Sood preparations, not elsewhere specified rinting and publishing, newspapers and periodicals.	9,262,637 7,477,616	63, 0 37, 2	3,673,791 5,459,157 2,749,388	143.5 58.1	Food preparations, not elsewhere specified. Confectionery and ice cream Leather goods, not elsewhere specified	5,073,392 3,481,190 3,070,485	34.5 34.6 75.8	4,137,754 (2) (2)	442.
rinting and publishing, newspapers and periolicals	6,989,318 6,060,765 5,816,417	54.0 54.7 44.8	6,056,214 4,623,131 3,114,916	649.0 226.9 115.3	Leather goods, not elsewhere specified Lumber, planing-mill products, not in- cluding planing mills connected with sawmills. Clothing, men's. Boxes, wooden packing, except cigar boxes. Carriages and wagons, including repairs. Tobacco, cigars 5. Automobile repairing. Patent medicines and compounds Furniture. Conner, tin, and sheet-iron work.	2,506,654 1,821,916	25, 8	459, 123 -542, 026	22. -22.
cluding planing mills connected with sawmills. Automobile repairing	5,420,155 5,388,366 4,336,452 4,312,311	45.9 58.0 4.9	959,500 4,842,313 2,812,617	21.5 886.8 184.6	Boxes, wooden packing, except eigar boxes. Carriages and wagons, including repairs Tobacco, eigars b	1,429,361 1,378,738 1,249,836 990,300	1 11.4	1,185,833 062,020 138,741 858,918	486. 92. 12. 653.
Infectionery and ice cream Electrical machinery, apparatus, and sup- plies	4,312,311 4,200,813	96.5	2,701,408	167.7 652.2	Patent medicines and compounds. Furniture Copper, tin, and sheet-iron work.	948, 593 802, 031 723, 219	11, 8 20, 9	379,742 220,782 206,324	66. 38.
puis Furniture Cloth ng, men's. Mattresses and spring beds, not elsewhere specified.	3,259,085	46.1	3,612,361 2,543,602 1,863,036		Brass, bronze, and copper products. Boxes, set-up paper boxes and cartons. Cars and general shop construction and re-	620,966	61.6	(2)	
Cooperage Patent medicines and compounds Copper, tin, and sheet-iron work Belting, leather	2,6'2,125 2,388,819 1,982,153 1,808,535	82.5 37.9 52.1	1,734,428 1,251,815 1,073,545 880,780 (2)	81.6	Cordage and twine Gas, illuminating and heating				
Paints. Saddlery and harness	1,287,031 1,287,031 1,275,790	63.4 30.9 72.4	613, 263 684, 827 (2)	113.7	Mats and matting, from cocoa fiber, grass, and coir	•			
Fur goods. Signs and advertising novelties. Clothing, women's. Boxes, wooden packing, except cigar boxes	. 806, 127 769, 583	21.9 89.9 22.3	590, 148 539, 254 (2) 136, 816	152. 2	nuncified	╢	(2)	(2)	(2)
Chemicals Boots and shoes Tobacco, cigars Photo-engraving	694,014 651,860 627,313	49.7 5.5 20.3 64.7	(2) (2) 207,302 243,587	46.6	Paints. Paper and wood pulp.	· -	,		
Mair Automobiles. Bags, other than paper, not including bags made in textile mills	618,112	21.1	-2,250,618	-78.5	Reofing materials. Saddlery and harness. Sand and emery paper and cloth. Shirts. Signs and advertising novelties.	-			
Boxes, set-up paper boxes and cartons Carriages and wagons, including repairs Cleansing and polishing preparations Coffins, burial cases, and undertakers' goods	(2)	(2)	(2)	(2)	Slaughtering and meat packing	1			
Denial goods	*. J				Steam packing. Tinware, not elsewhere specified.	<u> </u>	1	1	

¹ A minus sign (—) denotes decrease. 1 Figures can not be shown without disclosing individual operations. 2 Includes "bookbinding and blank-book making" in 1914.

^{&#}x27;Includes ''iron and steel, welding"; "machine tools"; and "steel barrels, drums, and tanks." 5 Includes "tobacco, chewing and smoking, and snuff" in 1914.

MANUFACTURES—MINNESOTA.

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

	NUMBER OF ENGINES OR MOTORS.					HORSEPOWI	ER.		
POWER.					Amount.		Per cent distribution.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	20,913	13, 463	8,679	473, 957	358, 737	297, 670	100.0	100.0	100.0
Owned Steam ¹ Engines. Turbines. Internal-combustion engines. Water Water wheels and turbines. Water motors.	1,827 1,750 77 762 205 190	3, 462 2, 190 (2) (2) (2) 959 313 292 21	3,792 2,544 (2) (2) 877 371 308 63	305, 605 198, 186 173, 815 24, 371 33, 848 73, 661 73, 440 215	286, 939 206, 144 (3) (2) 7, 454 73, 341 73, 088 253	266, 546 199, 802 (2) (2) 7, 174 59, 570 56, 631 2, 939	64. 5 41. 8 36. 7 5. 1 7. 1 15. 5 15. 5	2.1 20.4 20.4 0.1	20.6 19.1
Rented	18,119 18,119	10,001 10,001	4,887 4,887	168, 262 167, 985 297	71,708 71,224 574	31, 124 30, 297 827	35. 5 35. 4 0. 1	20. 0 10. 8 0. 2	10.
Electric Rented Generated by establishments reporting	. 18,119	12,778 10,001 2,777	6, 791 4, 887 1, 904	255, 119 167, 965 87, 154	121, 018 71, 224 49, 794	52, 212 30, 297 21, 915	100. 0 65. 8 34. 2	100. 0 58. 9 41. 1	58.

¹ Figures for horsepower include for 1999 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.

	co.	. L.	Claire		Gasoline	
INDUSTRY AND CITY.	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (barrels).	and other volatile oils (barrels).	Gas (1,000 cubic feet).
All industries	41, 074 42, 659	2, 483, 593 1, 400, 702	440, 452 101, 018	292, 661 303, 767	35, 045	1, 438, 853 84, 463
Per cent of increase 2	<u>-3.7</u>	77.3	336.0	-7.9	(1)	1,(03.5
Artificial stone products	55 6, 504	6,731 1,715	37 43	344 7, 109	433 10, 163	6
Antomobi e repairing. Bread and other bakery products. Brick and ti.e, terra-cotta, and fire-clay products.	5,609 635	8,996 17,017 67,212	74 7,366 300	217 4,864 65	3, 689 253	4, 248 24, 439
Butter Bars and general shop construction and repairs by steam-railroad companies Cament. Chemicals	3,557 809 5,801	47,652 233,644 63,554 5,141	880 6, 496 744 1, 040	4/12 12,600 6,198	638 18	740
Coal-tar products	0,001	10,979	1,040	4, 478		
Coffee, roasting and grinding. Coke, not including gas-house coke. Condensed milk	231	1,918 849,288 6,683	40			10, 820 2, 288
Confectionery and ico cream. Electrical machinery, apparatus, and supplies.	1,527	5, 214 1, 395	735 36		528 5	15, 293 35, 603
Engines, steam, gas, and water. Flour-mill and gristnill products. Food preparations, not essewhere specified. Foundry and machine-shop products.	102 683 624	6, 690 225, 748 7, 971 36, 134	1,639 114	1,572 7,579	2, 284 341 73	1,475 37 7,347
P ULTIMURE	. 0110	7,351	24, 226 58	16,780	820 38	13,681 41
Gas, illuminating and heating. Fron and steel, blast furnaces. Fron and steel, steel works and rolling mills. Knit goods. Lime	15	. 116,968 3,177 160,170	16,550 359,654 8,164	204, 251	1,162	1,243,544
Knit goods	. 49	9,492 5,084		18	26	
Liquors, ma't. Lumber, planing-mill products, not heluding planing mills connected with saw-	1	1	1	2	169	35
mills	.] 18	9,892		. 19	8,051	14
Malt. Oil, linseed Paper and wood pulp.	1, 929 3, 500	15,141 22,414 198,472				
Pottery	. 1.71		127	77	1,338	29,75
Refrigerators Shipbuilding, steel. Slaughtering and meat packing.	. 12 22	6,878 11,900 1 103,868	1,200	200 10, 215	1,000 220	
Steam packing. Structural ironwork, not made in steel works or rolling mills. Sugar, beet. Woolen goods. All other industries.		7 17, 138 7 13, 424 5, 957	4,714 7 211	2,256	296	15
Woolen googs. All other industries.	6,10	5,946 2 113,550		13, 402	2, 687	36,51
Total for cities 3	33,86	9 1,497,18	1 426,645	262, 134	29, 733	
Duluth Faribault Hibbing.		7 776, 94 6 15, 27 1, 79	5 872,393 5 1,249	13,219	1,760	2
Mankato. Minneapolis.	12,0	4 17,77	5 313		12,92	3 162,2
Rochester St. Cloud St. Paul. Winona	6, 6: 5, 4:		2 24.	1 8,580	10,10	2 61,8

¹ Included in figures for fuel oils.

A minus sign (-) denotes decrease.

⁸ Excludes Austin and Virginia to avoid disclosure of individual operations.

SPECIAL STATISTICS.

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

Presented.
Flour-mill and gristmill products (Table 19).—
This is the ranking industry in the state, with products for 1919 valued at \$381,248,891, and the table gives the quantity and value of products for 1919, 1914, and 1909. Wheat flour was largely the chief product of the industry, forming 81.8 per cent of the total value in 1919 and 79.6 per cent in 1914. The increase in values from 1914 to 1919 was much greater than in quantities. For wheat flour, while the value increased 164.2 per cent, the quantity increased only 5.1 per cent. For bran and middlings, the product of second importance, there was an increase of 56 per cent in value, but a decrease in quantity during the five-year period of 20.9 per cent.

Table 19.—Flour-Mill and Gristmill Products (Merchant Mills): 1919, 1914, and 1909.

	1919	1914	1909
Total value	\$381, 248, 891	\$1 48, 243, 708	\$139, 136, 129
Wheat flour: Barrels	28, 505, 036 \$311, 764, 407	27, 132, 155 \$117, 988, 654	22, 737, 404 \$114, 185, 351
Rye flour: Barrels. Value.	1, 097, 252 \$8, 756, 512	579, 648 \$1, 991, 445	229, 651 \$936, 066
Buckwheat flour: Pounds	1, 362, 611 \$76, 910	1,953,928 \$63,000	990, 387 \$33, 047
Rice flour: PoundsValue	3, 854, 000 \$276, 162		
Corn meal and corn flour: Barrels. Value.	126, 621 \$1, 072, 114	53, 845 \$185, 008	66, 705 \$204, 863
Bran and middlings: Tons Value.	831, 293 \$34, 940, 427	1, 051, 260 \$22, 390, 532	1,080,833
Feed and offal: Tons. Value.	494, 101 \$22, 248, 050	219, 263 \$5, 517, 795	\$23, 112, 813
All other cereal products, value All other products, value	\$2,061,584 \$52,716	\$61, 982 \$45, 286	\$492, 432 \$171, 557

Slaughtering and meat packing (Table 20).-This table presents for the census years 1919, 1914, and 1909 the total cost of materials, and the kind, number, and cost of animals slaughtered; the cost of all other materials, which includes that for dressed meat purchased for curing and for making lard compounds and oleo oil, cottonseed oil, refrigeration, curing materials, seasoning, fuel, rent of power, mill supplies, and freight; and the kind, quantity, and value of the principal products that can be shown without disclosing individual operations. The item "All other products" includes the value of cured beef, canned goods including canned sausage, meat puddings and scrapple, lard compounds, oleo and other oils, oleo stearin, oleomargarine, hog and cattle hair, glycerin, stock feed, etc.

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

Beoves				
Total cost. \$128,505,977 \$41,591,495 \$22,043,885		1919	1914	1909
Animals slaughtered, cost. \$122,093,820 \$39,722,359 \$18,604,082 Broveys— Number	MATERIALS.			
Revors	Total cost	\$128,505,977	\$41, 591, 495	\$22, 043, 385
Number	Animals slaughtered, cost	\$122,093,820	\$39, 722, 359	\$18,664,082
Number	Number Cost	299, 462 \$23, 560, 100	\$9,578,618	125, 852 \$4, 195, 238
Number 208, 948 503, 605 502, 908 100, 605	Number Cost	288, 623 \$5, 655, 226	\$938, 138	\$431, 438
Number \$2, 107, 152 \$28, 221, 939 \$13, 444, 413 All other materials, cost.	Number	\$1,979,333	198,665 \$983,664	\$ 592, 993
PRODUCTS.	Number	2, 197, 152 \$90, 902, 101	1,559,491 \$28,221,939	
Total value	All other materials, cost	\$6,409,157	\$1,869,136	\$ 3, 379, 303
Fresh moat, value	PRODUCTS.			
Beat— Pounds	Total value	3146, 301, 046		
Pounds			1 1	
Pounds	PoundsValue,	. 109, 239, 489 \$15, 831, 153	\$7,714,340	
Pounds	PoundsValue	25, 542, 989 \$4, 620, 716	6, 987, 360 \$875, 264	\$386, 210
Pounds	PoundsValue	8,518,336 \$1,494,971	8,511,931 \$858,878	
Pounds	PoundsValue	120, 359, 452 \$27, 826, 610	l .	
Value. \$55, 543, 250 \$10, 250, 250 \$45, 250, 250 \$10, 250, 250 \$10, 250, 250 \$10, 250, 250 \$10, 250, 250, 250 \$10, 250, 250, 250, 250, 250, 250, 250, 25	Pounds	18,473,433 \$1,837,067	6, 539, 309 \$534, 357	727, 938 \$113, 628
Pounds	Value	236,784,979 \$58,548,256	115, 033, 007 \$16, 430, 999	82, 480, 987 \$9, 253, 591
Pounds 49, 609, 701 40, 311, 363 82, 521, 351 501 7allow and oleo stock: Pounds 5,529, 988 12,014, 302 1 \$123, 800 701 1 \$100 and oleo stock: Pounds 5,776, 082 1 \$123, 800 2 1 \$123, 800 2 1 \$123, 800 2 1 \$123, 800 2 1 \$100 2 1 \$	PoundsValue	24,657,904 \$5,241,525		7,632,698 \$696,017
Pounds	PoundsValue	49,609,701 \$13,049,819	40, 311, 585 \$4, 263, 173	21, 429, 517 \$2, 581, 501
Pounds	PoundsValue	5, 529, 988 \$776, 082	1	2, 797, 504 \$164, 479
Value. \$327,120 \$102,799 (*) Hoofs, horns, horntips, and strips: Pounds. \$200,245 \$13,388 (2) Fertilizers and fertilizer materials: Tons. 6,901 \$7,610 \$13,406 Value. \$383,708 \$233,358 \$2314,66 **Tons. 6,901 \$7,610 \$12,07 **Sass,708 \$223,358 \$3314,66 **Value. \$383,708 \$223,358 \$13,46 **Tons. 6,901 \$1,300,505 \$1,400,903 **Value \$45,167,344 \$1,624,345 \$1,624,345 **Value \$41,503 \$1,221 \$1,624,345 **Pounds \$1,12,963 \$73,807 **Value \$1,921,646 \$118,622 **Sheep— 208,382 \$1,03,086 \$132,57 **Number \$208,382 \$103,086 \$132,57 **Number \$208,382 \$103,086 \$132,57 **Value \$492,592 \$202,227 \$143,44	Value	3,318,345 \$452,403	l .	(2)
Pounds	Value	1,841,006 \$327,126		(2) (2)
Tons. \$383,708 \$\$223,358 \$\$314,06 Value. \$383,708 \$\$223,358 \$\$314,06 Hides and polts: Catt'e— 299,462 166,903 Number 15,360,565 \$9,453,902 Value. \$5,167,344 \$1,624,345 7,240,97 Value. \$241,503 51,221 Number 244,503 513,221 Pounds 3,112,963 573,867 Value. \$1,921,646 \$118,622 Sheep— 208,382 193,086 132,57 Number 2208,382 193,086 132,57 Number 2208,382 \$202,227 \$143,44	PoundsValue	1	1	(2)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Value	6, 901 \$383, 708	3 7,610 3 \$223,358	* 12,075 * \$314,660
Number 241, 503 51, 221 \$887, 18 Founds 3,112, 963 573, 867 Value \$1,921, 646 \$118, 622 Sheep— 208, 382 103, 086 Value. \$492, 592 \$202, 227 \$143, 42	Catt's— Number Pounds Value	299, 462 15, 360, 565 \$5, 167, 344	1	160, 948 7, 240, 975
Number \$203, 552 Value. \$492, 592 \$202, 227 \$143, 4	Number Pounds Value	241,503 3,112,963 \$1,921,640	51, 221 573, 867 \$118, 622	\$887,18
م سعد مصال سم حصور الله الله الله الله الله الله الله الل	Number	208, 389 \$492, 599	193, 086 \$202, 227	132, 57 \$145, 47
All other products, value \$7,580,783 \$1,322,058 \$3,001,0	All other products, value	\$7,580,783	\$1,322,058	\$3,061,07

No oleo stock reported in 1914.
 Not reported separately.
 No fertilizers reported in 1914 and 1909.

The growth of the industry in this state in the census period 1914 to 1919, measured by cost of materials and value of products, is remarkable as compared with that of the previous period, 1909 to 1914. The increase in cost of materials from 1914 to 1919 was \$86,914,482, or 209 per cent, and from 1909 to 1914, \$19,548,110, or 88.7 per cent; and in value of products,

\$98,825,243, or 207.9 per cent, in the first period, and \$21,926,869, or 85.6 per cent, in the second period.

The normal increase, however, is better indicated by the number of animals slaughtered, which was 2,994,183 in 1919, 2,004,648 in 1914, and 1,378,742 in 1909, an increase from 1914 to 1919 of 989,535, or 49.4 per cent, and from 1909 to 1914, 625,906, or 45.4 per cent.

This state ranked eighth in value of products for the slaughtering and meat-packing industry in the United States, an advance from thirteenth place since 1914.

Butter, cheese, and condensed milk (Table 21).— Minnesota ranked third in 1919 in the production of butter, cheese, and condensed milk, being exceeded only by Wisconsin and New York in the order given. Minnesota was the leading state in the manufacture of butter, and ranked sixth in the production of cheese. There was an increase in the total value of products from 1914 to 1919 of 177.3 per cent. Of the total value of products, butter formed 86.9 per cent, cheese 2.9 per cent, and condensed and evaporated milk 2.1 per cent. A consideration of quantity production will give a unit of measure for comparative purposes. During the five-year period 1914-1919, the quantity of butter produced increased 35,187,933 pounds, or 31.7 per cent. Cheese for the same period increased 6,099,478 pounds, or 151.9 per cent.

The following table gives the quantities and values of the several products for 1919, 1914, and 1909 where the same can be shown without disclosing the operations of individual establishments:

Table 21.—Butter, Cheese, and Condensed Milk: 1919, 1914, and 1909.

1			
	1919	1914	1909
Total value	¹ \$93, 585, 605	\$33, 746, 396	\$25, 287, 462
Butter:			
Pounds	146, 295, 141	111, 107, 208	88, 842, 846
Value Packed solid—	\$81, 365, 245	\$30,903,702	\$24, 581, 058
Pounds	116,062,006	94, 775, 407	81, 104, 848
Value.	\$64,656,612	\$26, 170, 426	\$22, 359, 427
Prints or rolls—			
Pounds	29, 633, 135	16, 331, 955	7, 737, 998
Value Cream sold:	\$16, 708, 633	\$1,733,276	\$2, 221, 631
Pounds	3, 146, 692	3, 401, 449	1, 338, 833
Value	\$1, 258, 000	\$293, 897	\$146, 867
Cheese:	10, 116, 048	4, 016, 570	9 795 900
Value.	\$2,757,387	\$496, 215	2, 735, 883 \$374, 716
Full cream—	, ,	, ,	0072,120
Pounds	9,271,766	3, 350, 598	2,695,883
Value Other kinds—	\$2,628,913	\$472, 850	\$371, 510
Pounds	844, 282	665, 972	40, 000
Value	\$128,474	\$23,365	\$3,20
Condensed and evaporated milk:			
PoundsValue.	15, 994, 195	(2) (2)	(2)
All other butter, cheese, and condensed-	\$1,932,540	(9)	(2)
milk factory products, value	\$4,623,788	\$1,616,396	\$55, 25
All other products, value	\$1,648,645	\$436, 186	\$129, 56

¹ In ad lition, in 1919 butter valued at \$31,321 was manufactured in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.

industry designation.

Included in "All other butter, cheese, and condensed-milk factory products,"

Printing and publishing (Tables 22 and 23).—Table 22 gives the number and aggregate circulation per issue of the newspapers and periodicals published in Minnesota as reported at the censuses of 1919, 1914, and 1909.

The aggregate circulation of all publications increased 172,460, or 4 per cent, during the five-year period 1914–1919. Of the daily circulation in 1919, 509,257, or 73.6 per cent, was reported for newspapers published in the afternoon, which is an increase of 87,630, or 20.8 per cent, over the afternoon circulation reported for 1914.

Sunday newspaper circulation increased 74,611, or 20.2 per cent, during the five years, and 207,318, or 87.4 per cent, during the decade.

There was a slight decrease in the circulation of weeklies from 1914 to 1919, but the increase for the decade is 416,127, or 32.8 per cent. The circulation of monthly and semimonthly publications increased 188,193, or 14.3 per cent, from 1914 to 1919.

TABLE 22.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			ATE CIRCUI PER ISSUE.	ATION	
*	1919	1914	1209	1919	1914	1909
Total	767	766	758	4, 506, 073	4, 333, 613	3, 178, 700
Daily Sunday Semiweekly ¹ Weekly Monthly ² Quarterly ³	50 9 13 616 70 9	51 7 7 620 75 6	42 7 8 614 83 4	692, 276 444, 523 134, 647 1, 685, 983 1, 503, 632 45, 012	655, 070 369, 912 117, 374 1, 790, 818 1, 315, 439 85, 000	470, 252 237, 205 37, 062 1, 269, 856 1, 132, 300 24, 025

¹ Includes, in 1919, 1 triweckly.

² Includes, in 1919, 7, and in 1914, 10 semimonthlies; and in 1909, 12 semimonthlies and 1 "All other."

³ Includes, in 1919, 4 bimonthlies; in 1914, 2 bimonthlies and 1 "semiannual;" and in 1909, 2 "all other."

Table 23 gives the number and aggregate circulation per issue of the foreign-language publications, by principal periods of issue, as reported at the censuses of 1919, 1914, and 1909, compared with like issues of English periodicals.

During the five-year period, 1914-1919, the foreign-language publications decreased in number 12, and in circulation 122,284, or 21.2 per cent.

Three of the foreign-language dailies were published in the morning and were printed in Finnish; 2 were afternoon papers with a circulation of 25,200, 1 being in German and 1 in Norwegian and Danish. Of the 2 Sunday papers, 1 was in German and 1 in Norwegian and Danish.

Of the 35 weeklies and 1 triweekly reported for 1919, 9 with a circulation of 105,767 were published in German; 7 with a circulation of 53,500, in Swedish; 7 with a circulation of 64,129, in Norwegian; and 5 with a circulation of 22,800, in Norwegian and Danish. There were 2 each in Finnish and Polish, and 1 each in Danish, French, and English and Norwegian. The triweekly was in Norwegian.

Three of the 4 foreign-language semimonthly publications were in Swedish, and 1 in German. Of the 13 monthly publications, 6 with a circulation of 10,500 were in Swedish; 3 with a circulation of 30,418 were in Norwegian; 2 were in English and Norwegian, 1 was in Norwegian and Danish, and 1 was in Norwegian and Swedish. The 2 bimonthlies and 1 quarterly were in the Swedish language.

TABLE 23.—PRINTING AND PUBLISHING—CIRCULATION, ENGLISH AND FOREIGN: 1919, 1914, AND 1909.

		TOTAL.		E	ENGLISH.		REIGN IUAGES.
PERIOD OF ISSUE.	Cen- sus year.	Num- ber.	Aggregate circula- tion per issue.	Num- ber.	Aggregate eircula- tion per issue.	Num- ber.	Aggregate eireu- lation per issue.
Total	1919 1914 1909	767 766 758	4, 506, 073 4, 333, 613 3, 176, 700	704 691 685	4, 050, 962 3, 756, 218 2, 635, 711	63 75 73	455, 111 577, 395 540, 989
Daily and Sunday Weekly ¹ Monthly ² Quarterly ³	1919 1914 1909 1919 1914 1909 1919 1914 1909 1914 1909	59 58 49 629 627 622 70 75 83 9	1, 133, 799 1, 024, 982 713, 457 1, 820, 630 1, 908, 192 1, 303, 918 1, 503, 632 1, 315, 439 1, 132, 300 45, 012 85, 000 24, 025	52 51 46 592 581 578 53 53 57 7 6 4	1, 054, 077 953, 510 088, 752 1, 540, 861 1, 552, 262 945, 120 1, 424, 812 1, 105, 437 977, 805 25, 212 85, 000 24, 025	7 7 3 36 46 44 17 22 26 3	82, 722 71, 463 24, 705 273, 760 355, 930 361, 789 78, 820 150, 002 154, 495 19, 800

¹ Includes, in 1919, 12 somiweeklies (English) and 1 triweekly (Norwegian); in 1914, 6 somiweeklies (English) and 1 semiweekly (Stovenian); in 1909, 7 somiweeklies (English) and 1 semiweekly (Finnish).
¹ Includes, in 1919, 3 semimonthly publications in English, 3 in Swedish, and 1 in German, in 1914, 4 semimonthly publications in English, 2 in Danish-Norwegian, 2 in Swedish, 1 in English-Norwegian and 1 in German; in 1909, 6 semimonthly publications in English, 5 in Swedish, 1 English-Norwegian semimonthly, and 1 "all other" in German.
¹ Includes, in 1919, 2 bimonthly publications in English and 2 in Swedish; in 1914, 2 bimonthly and 1 semiannual publications in English; in 1909, 2 "all other" publications in English.

Lumber and timber products (Table 24).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. The production of lumber in Minnesota has been decreasing rapidly during the past 20 years. In 1899, this state ranked third among the states as a lumber producer, the cut for that year being reported as 2,342,-338,000 feet. In 1917, the reported cut dropped below one billion feet for the first time in more than two decades. The cut for 1919 compared with that for 1914 decreased 46.7 per cent, and with that for 1909, 55.2 per cent.

Table 24.—Lumber, Lath, and Shingles: 1919, 1914, and 1909.

PRODUCT.	QUANTITY.1					
	1919	1914	1909			
Lumber M feet b. m Lath thousands. Shingles thousands.	099, 639 115, 741 4, 451	1, 312, 230 (2) (2)	1, 561, 508 478, 008 74, 818			

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

Not reported.

In 1919 Minnesota led in the production of white pine lumber, producing 32.5 per cent of the total cut from this wood in the United States.

The lumber cut from the principal species in 1919 was reported as follows: White pine 560,544,000 feet, or 80.1 per cent of the total cut from all species in the state; larch 35,765,000 feet, or 5.1 per cent; cottonwood 30,135,000 feet, or 4.3 per cent; and spruce 29,298,000 feet, or 4.2 per cent. Other important woods sawed into lumber in considerable quantities were balsam fir, birch, oak, elm, and basswood.

Power laundries (Table 25).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. This table, however, summarizes the statistics for such laundries in Minnesota for 1919 and 1914.

TABLE 25.—Power Laundries: 1919 and 1914.

	NUMBER O	R AMOUNT.	Per cent of in- crease,1
	1919	1914	1914- 1919.
Number of establishments. Persons engaged.	156 3, 818	188 4, 024	-17.0 -5.1
Proprietors and firm members. Salaried employees. Wage earners (average number)	156	203 327 3, 494	$ \begin{array}{r} -23.2 \\ 17.7 \\ -6.2 \end{array} $
Primary horsepower. Capital. Salaries and wages.	4, 766	4, 264 \$2, 708, 038	11, 8 46, 5
Salaries	534, 725 2, 415, 506	332, 555 1, 640, 388	49, 5 60, 8 47, 8
Paid for contract work. Ront and taxes. Cost of materials.	8, 884 215, 946 1, 437, 708	17, 361 147, 110 855, 443	-48, 8 46, 8 68, 1
Amount received for work done	6, 087, 088	4, 100, 404	48.4

¹ A minus sign (-) denotes decrease.

Dyeing and cleaning (Table 26).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. These statistics are not included in the general tables nor in the totals for manufacturing industries. This presentation is the first that has been made since the census statistics were confined to manufacturing industries as distinguished from hand trades.

TABLE 26.--DYEING AND CLEANING: 1919.

	Number or amount.
Vumber of establishments Proprietors and firm members	4(
ersons engaged	629
Proprietors and firm members	4:
Wage earners (average number). Primary horsopower.	48
rimary norsopower	59 6720 04
Capital Salaries and wages	\$739, 24 614, 82
Salaries.	126, 33
Wages	488, 49
Poid for contract work	20.37
Rent and taxes	53, 20
Cost of materials	271,76
Amount received for work done	1,368,91

Custom gristmills and custom sawmills (Tables 27 and 28)—Summaries of the more important data for custom gristmills and custom sawmills are presented in these tables. These statistics are not included in the general tables nor in the totals for manufacturing industries.

TABLE 27.—CUSTOM GRISTMILLS: 1919 AND 1909,

	NUMBER O	Per cent of in-	
	1919	1909	crease,1 1909- 1919.
Number of establishments. Persons engaged. Proprietors and firm members. Saluried employees Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Rent and taxes. Cost of materials 2. Value of products 2.	249 181 6	278 577 459 9 109 6,516 \$792,885 46,705 4,990 41,715 6,975 3,180,150 3,660,055	-33.8 -56.8 -00.6 -43.1 -26.8 -2.0 47.5 -51.5 59.3 53.3 35.7 35.4

 $^{^1}$ A minus sign(—) denotes decrease; percentage omitted where hase is less than 100. 2 Includes estimate of all grain ground.

TABLE 28.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER O	R AMOUNT.	Per cent
i e e e e e e e e e e e e e e e e e e e	1919	1909	of in- crease,1 1909- 1919.
Number of establishments Persons engaged Troprictors and firm members Salaried employees Wage earners (average number) Primary horsepower Capital Salaries and wages. Salaries Wages Rent and taxes. Cost of materials Amount received for work done	385 262 1 1 122 5,054 \$250,253 92,970 312 92,658 2,514 13,230	137 367 244 123 3,066 \$203,105 45,250 1,363 2,001 132,283	38.0 4.9 7.4 -0.8 64.8 23.2 105.5 104.8 92.9 561,2 61.9

¹ A minus sign (—) denotes decrease.

GENERAL TABLES.

Table 29 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 Duluth, Minneapolis, and St. Paul, and for the cities having from 10,000 to 50,000 inhabitants, for which comparable statistics are available, similar data for all industries combined.

Table 30 presents, for 1919, for the state as a whole and for Duluth, Minneapolis, and St. Paul, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for cities having from 10,000 to 50,000 inhabitants, except Austin and Virginia, figures for which could not be shown without disclosing individual operations.

Table 29.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909—Con.

INDUSTRY AND CITY.	year.	Num- ber of estab- lish-	Wage earn- ers (aver- age	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.		Num- ber of estab- lish-	Wage earn- ers (aver- age	Pri- mary horse- power.	Wages	Cost of mate- rials.	Value of prod- ucts.
		ments	num- ber).		Expressed in thousands of dollars.					ments	ber).		Expressed in thousands of dollars.		
	TI	ie st	ATE-	ALL IN	DUST	RIES CO	OMBINE	D AND SELECTED INDUS	PRIE	S—Con	tinued.				
Millinery and lace goods, not elsewhere specified.	1919 1914 1909	23 9 8	541 308 498	187 116 12	$\frac{483}{34} \\ 152$	1,047 648 598	2,068 945 931	Ehipbuilding, wooden, in- cluding boat building.	1919 1914 1909	21 30 33	91 125 209	196 352 419	105 89 139	107 157 158	342 317 377
Mineral and soda waters	1919 1914 1909	114 128 114	213 309 246	357 472 282	198 201 140	793 527 318	1,544 1,266 868	Eigns and advertising novel- ties.	1919 1914 1909	31 28 22	989 238 116	504 84 25	956 158 86	1,243 287 96	4,087 597
Oil, linseed	1919 1914 1909	6 6 6	483 400 374	4,102 4,467 3,821	$\begin{array}{c} 647 \\ 326 \\ 250 \end{array}$	28,796 11,279 9,685	33,238 12,357 11,037	Slaughtering and meat pack- ing, ³	1919 1914 1909	24 29 30	5, 264 2, 587 1, 921	11,378 5,260 4,579		128, 906 41, 736 22, 156	313 146, 911 47, 710
Optical goods	1914 1909	11 8 6	83 54 25	47 19 8	84 38 15	302 75 21	616 219 82	Soap	1919 1914	7 6	46 46	203 185	41 24	622 463	25, 754 825 614
Paint and varnish	1919 1914 1909	17 15 14	144 144 164	$052 \\ 1, (65 \\ 420)$	133 98 101	1,882 1,061 889	2,898 1,684 1,489	Steam packing	1909 1919 1914	5 5	63 208 174	1,643 1,250	28 244 114	332 828 354	1,52 75
Paper and wood pulp	1919 1914 1909	9 8 9	2,523 1,345 607	56,166 53,259 23,440	2,994 983 361	11, 409 3, 245 1, 438	20, 138 5, 573 2, 385	Stoves and hot-air furnaces	1919 1914 1909	12 9 10	236 169 185	338 212 113	232 115 121	406 113	1,05 31
Patent medicines and com- pounds and druggists' preparations.\(^1\) Paving materials	1914 1909	75 99 101	646 613 475	2,345 945 741 3,079	414 285 188 202	3, 159 2, 341 1, 690	7, 270 4, 879 4, 412 537	Tobacco, cigars and cigarettes.		216 316 332	891 1,261 1,611	62 31 36	742 609 831	1,472 1,121 1,248	3, 20 2, 85
Photo-engraving	. 1914 . 1919 1914	13 7 11 11	184 299 234	920 82 84	153 361 227	267 233 91	551 969 606	Woolen goods	1919 1914 1909	11 16 16	574 418	1,491 1,266	474 229	1,780 850	3,35 2,86 1,29
Printing and publishing 2	1900 1919 1914 1900	9 1,003 994 950	168 6,319 6,134 5,641	7,680 7,101 5,765	157 6,778 4,259 3,507	39 10, 353 5, 560 4, 096	350 33,480 20,187 15,982	All other industries	1919 1914 1909	1	277 13, 678 6, 009 7, 438	642 102, 507 15, 773 20, 262	123 18, 208 3, 782 3, 792	93, 775 17, 472 16, 616	140, 67 27, 30 27, 18
CITIES	OF 50	0,000 11	I HABI	TANTS	OR M	ORE-A	LL IND	USTRIES COMBINED AND	SELF	CTED	INDU	JSTRIE	s.	<u> </u>	<u> </u>
DULUTHAll industries.	. 1919 1914 1909	226 243 194	$\begin{bmatrix} 10,472\\ 5,538\\ 6,083 \end{bmatrix}$	80,883 14,914 17,561	15, 465 3, 365 3, 593	43,029 11,518 8,814	75, 261 19, 729 17, 180	MINNEAPOLIS - Con. Artificial stone products	1919 1914	28 51	120 192	333 219	168 144	224 194	59
Bread and other bakery products.	1919 1914 1909	15 18 13	134 111 59	99 93 21	147 64	619 260 189	1,022 478	Boxes, wooden packing, ex-	1909	28	176				44
	1	Ŧ		21	34	100	312	cept eight boxes.	1919 1914	9	175 244	141 592 945	103 174 141	454 456	77 6
Confectionery	1919 1914 1909	12 10 8	148 81 65	76 51 22	113 34 29	327 187 108	683 347 219	cept cigar boxes. Bread and other bakery products.			175 244 241 1,598 1,255	592 945 526 1,759	174	454	20 77 67 50 12,40
Confectionery	1914 1909	10	81	76 51	113 34	327 187	683 347	cept cigar boxes. Bread and other bakery	1914 1909 1919 1914 1909 1919	9 5 115 129 100	175 244 241 1,598 1,255 897 161	592 945 526 1,759 1,464 560 1,053	174 141 114 1,372 671 481 162	454 456 328 7,188 2,621 2,036 3,826	26 77 65 58 12, 40 4, 91 3, 60
Copper, tin, and sheet-fron	1914 1909 1919 1914 1009	10 8 10 11	81 65 150 134	76 51 22 247 84	113 34 29 192 98	327 187 108 386 164	683 347 219 613 407	cept cigar boxes. Bread and other bakery products. Butter	1914 1909 1919 1914 1909 1914 1909 1919	9 5 115 129 100 14 8 7 6	175 244 241 1,598 1,255 897 161 62 27 5,120	592 945 526 1,759 1,464 560 1,053 382 324 3,570	174 141 114 1,372 671 481 162 35 17 8,696	454 456 328 7,188 2,621 2,036 3,826 1,330 612 5,238	26 73 65 55 12,40 4,91 3,60 4,33 1,55 6
Copper, tin, and sheet-fron work. Foundry and machine-shop	1914 1909 1919 1914 1509 1919 1914	10 8 10 11 6 10 15	81 65 150 134 51	76 51 22 247 84 5	113 34 29 192 98 42 890	327 187 108 386 164 58	683 347 219 613 407 144 4,071	cept cigar boxes. Bread and other bakery products. Butter	1914 1909 1919 1914 1909 1914 1909 1914 1909 1919 191	9 5 115 129 100 14 8 7 6 5 3	175 244 241 1,598 1,255 897 161 62 27 5,120 3,140 2,576	592 945 526 1,759 1,464 560 1,053 382 324 3,570 2,798 1,674	174 141 114 1,372 671 481 162 35 17 8,696 2,148 1,863 528	454 456 328 7,188 2,621 2,636 3,826 1,330 612 5,238 2,142 2,338 2,369	26 77 65 55 12,44 4,99 3,60 4,33 1,55 6 12,44 4,5 4,3
Copper, (in, and sheet-fron work. Foundry and machine-shop products.	1914 1909 1919 1914 1509 1919 1914 1919 1914	10 8 10 11 6 10 15 10 15	81 65 150 134 54 616 491 750 2,092	76 51 22 247 84 5 2, 348 1, 767 4, 210 4, 887	113 34 29 192 98 42 890 352 801 965	327 187 108 386 164 58 1,661 794	683 347 219 613 407 144 4,071 1,641 3,645 4,130	cept cigar boxes. Bread and other bakery products. Butter	1914 1909 1919 1914 1909 1913 1909 1919 1914 1909	9 5 115 129 100 14 8 7 6 5 3 22 21 17	175 244 241 1,598 1,255 897 161 62 27 5,120 3,140 2,576 . 744 705 806	592 945 526 1,759 1,464 500 1,053 382 324 3,570 2,798 1,674 176 160 127	174 141 114 1,372 671 481 162 35 17 6,696 2,148 1,863 528 341 257	454 456 328 7, 188 2, 621 2, 036 3, 826 1, 330 612 5, 238 2, 142 2, 338 2, 142 2, 338 2, 152 1, 125 1, 125	26 55 12,44 4,93 3,66 4,33 1,55 6 12,44 4,5 4,5 4,3 3,5 1,7 1,6
Copper, tin, and sheet-fron work. Foundry and machine-shop products. Lumber and timber products	1914 1609 1919 1914 1709 1919 1914 4 1919 1914 1909 - 1919 1914 1909	10 8 10 11 6 10 15 10 15 10 19 14 234 38 35 10 20	81 65 150 134 51 616 491 750 2,092 3,074 357 357 357	76 51 22 247 84 5 2,348 1,767 4,210 4,887 7,350 590 454	113 34 29 192 98 42 890 352 801 965 1,692 434 313 281 49	327 187 108 386 104 58 1, 661 794 1, 747 2, 523 2, 636 603 303 256	683 347 219 613 407 144 4,071 1,641 3,645 4,130 5,562 2,122 1,114 983 226	cept cigar boxes. Bread and other bakery products. Butter	1914 1909 1919 1914 1909 1911 1909 1914 1909 1919 191	9 5 115 129 100 14 8 7 6 5 3 22 21 17 7 5 4	175 244 241 1,598 1,255 897 161 62 27 5,120 3,140 2,576 -744 705 806 112 78 63	592 945 526 1,759 1,464 500 1,053 382 3,570 2,798 1,674 176 160 127 499 256 170	174 141 114 1,372 671 481 162 35 17 6,696 2,148 1,863 528 341 257 108 40 29	454 456 328 7, 188 2, 621 2, 036 3, 826 1, 330 612 5, 238 2, 142 2, 338 2, 369 1, 125 985 5, 588 1, 628 931	20 77 03 50 12,44 4,91 3,66 4,33 1,52 4,33 3,51 1,77 1,6 6,66 2,0 1,2
Copper, tin, and sheet-fron work. Foundry and machine-shop products. Lumber and timber products 4 Printing and publishing 5	1914 1909 1919 1914 1709 1019 1914 1909 - 1919 1914 1909 - 1919 1914 1919 1914 1919 1914 1919	10 8 10 11 6 6 10 15 10 19 14 38 35 10 20 20 125 125 112	81 65 150 134 51 616 491 750 2,092 3,074 350 377 53 45 84 8,264 2,234	76 51 22 247 84 5 2, 348 1, 767 4, 210 4, 887 7, 350 454 439 2 82, 302 2 82, 302 7, 578	113 34 20 192 98 42 890 352 801 965 1,692 434 313 281 49 26 51	327 187 108 386 104 58 1, 661 794 1, 774 2, 523 2, 636 603 303 256 68 106 43 68 37, 580	683 347 219 613 407 144 4,071 1,641 3,645 4,130 5,562 2,122 1,114 983 226 124 180	cept cigar boxes. Bread and other bakery products. Butter	1914 1909 1919 1914 1909 1913 1909 1914 1909 1919 1914 1909 1919 1914 1909	9 5 11.5 12.9 10.0 14 8 7 6 5 3 22 21 17 7 5 4 38 38 38 8	175 244 241 1, 598 1, 255 897 161 62 27 5, 120 3, 140 2, 576 784 7055 806 112 78 63 678 411 461	592 945 526 1,769 1,464 560 1,053 382 324 3,570 2,798 1,674 176 160 127 499 256 170 1,287 605	174 141 114 1,372 671 481 162 35 17 8,696 2,148 1,863 528 341 257 108 40 29 9	454 456 328 7, 188 2, 621 2, 036 3, 826 1, 330 612 5, 238 2, 142 2, 338 2, 142 2, 338 2, 142 3, 369 1, 125 985 5, 588 1, 628 985 2, 427 984	777 63 55 55 55 55 55 55 55 55 55 55 55 55 55
Copper, tin, and sheet-fron work. Foundry and machine-shop products. Lumber and timber products. Printing and publishing 5 Tobacco manufactures	1914 1909 1919 1914 1:09 1914 1919 1914 1909 - 1919 1914 1909 - 1919 1914 1909 - 1919 1914 1909	10 8 10 11 16 10 15 10 19 14 13 38 35 10 10 12 12 12 12 12 11 12 11 12 11 11 11 11	81 65 150 134 51 616 491 750 2,092 3,074 357 337 53 45 8,264 2,234 2,370 38,154 28,295	760 511 222 247 84 5 5 2, 348 1, 767 4, 210 4, 887 7, 350 454 439 2 2 82, 302 7, 578 9, 724 113, 212 (109, 040	113 34 20 192 98 42 890 352 801 965 1,602 434 313 281 49 26 51 1,513 1,461 41,275 18,805	327 187 108 386 164 58 1, 661 794 1, 747 2, 523 2, 636 603 303 256 106 43 68 37, 580 7, 244 5, 529 362, 834 131, 199	683 347 219 613 407 144 4,071 1,641 3,645 4,130 5,562 2,122 1,114 983 226 124 180 62,879 9,780	cept cigar boxes. Bread and other bakery products. Butter	1914 1909 1919 1919 1914 1909 1914 1909 1914 1909 1914 1909 1914 1919 1914 1919 1914 1919 1914	9 5 115 129 100 14 8 7 6 5 3 2 21 17 7 5 4 4 38 38 8 11 586 67	175 244 241 1, 588 1, 255 897 161 62 27 5, 120 8, 140 2, 576 . 744 705 806 112 78 61 461 429 361 365	592 945 526 1,764 560 1,053 382 324 3,570 2,798 1,674 1760 127 490 256 170 1,287 605 1,028 1,028	174 141 114 1,372 671 481 162 35 17 6,696 2,148 1,863 528 341 257 108 40 29 540 199 464 285	454 456 328 7,188 2,621 3,826 1,830 6,125 5,238 2,142 2,338 2,142 2,388 1,935 1,985 5,588 1,693 1,937 1,937 1,954 1,693 779	3,51 1,6 6,6 2,0 1,2 4,3 1,6 2,6 1,3
Copper, tin, and sheet-from work. Foundry and machine-shop products. Lumber and timber products. Printing and publishing 5 Tobacco manufactures	1914 1909 1919 1914 1:09 1914 1914 1919 1914 1909 1919 1919 19	10 8 8 10 10 11 1 6 10 15 1 12 1 13 1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	81 65 150 134 51 616 491 750 2,092 3,074 357 350 377 53 45 8,264 2,234 2,370	760 511 222 247 84 5 5 2, 348 1, 767 4, 210 4, 887 7, 350 454 439 2 2 82, 302 7, 578 9, 724 113, 212 (109, 040	113 34 20 192 98 42 890 352 801 965 1,692 434 313 281 49 26 51 1,2839 1,513 1,464	327 187 108 386 164 58 1, 661 794 1, 747 2, 523 2, 636 603 303 256 106 43 68 37, 580 7, 244 5, 529 362, 834 131, 199	683 347 219 613 407 144 4,071 1,641 3,645 4,130 5,562 2,122 1,114 983 226 124 180	cept cigar boxes. Bread and other bakery products. Butter	1914 1909 1919 1919 1914 1909 1914 1909 1914 1909 1914 1909 1914 1909 1914 1909 1914 1909 1914 1909 1914 1909	9 5 115 129 100 14 8 7 6 5 3 22 211 7 5 4 38 38 8 11 5 58	175 244 241 1, 598 1, 255 897 161 62 27 5, 120 3, 140 2, 576 808 1112 78 63 678 411 461 429 361	592 945 526 1,759 1,464 500 1,053 382 324 3,570 1,674 176 160 127 499 256 170 1,287 650 1,028	174 141 114 1,372 671 481 162 35 17 6,696 2,148 1,863 528 341 257 108 40 29 540 199 464 285	454 456 328 7,188 2,621 2,036 3,826 1,330 612 5,238 2,142 2,338 2,369 1,125 5,588 1,628 931 2,427 931 1,693 779 1,075	22 22 27 77 65 55 55 55 55 55 55 55 55 55 55 55 55

Includes "perfumery and cosmetics."
Includes "bookbinding and blank-book making" and "engraving, steel and copper plate, including plate printing" in all years; and "lithographing" in 1914 and 1969.
Includes "sausage, not made in slaughtering and meat-packing establishments."
Includes "lumber, planing-mill products, not including planing mills connected with sawmills" in all years and "boxes, wooden packing, except cigar boxes" in 1914 and 1909.
Includes "bookbinding and blank-book making" in 1914 and 1909.

TABLE 29.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Con.

INDUSTRY AND CITY.		Num- ber of estab- lish-	Wage earn- ers (aver- age	mary horse-	Wages.	Cost of mate- rials.	Value of prod- uets.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
	year.	ments	num- ber).	power.	E: thous	xpressed ands of d	in Iollars.		year.	lish- ments	age num- ber).	power.	E thous	xpressed ands of o	l in Iollars.
CITIES OF 50,	1I 000	HAB:	TANT.	SORA	ORE-	-ALL II	NDUSTI	RIES COMBINED AND SEL	ECTE	D INI	OUSTR	IES-C	ontinue	d.	
MINNEAPOLIS—Con. Food preparations, not elsewhere specified.	1919 1914 1909	22 15 16	419 305 222	2,108 956 601	396 188 125	6, 462 2, 285 1, 525	9, 263 3, 803 2, 516	ST. PAUL. All industries.	1919 1914 1909	719	22,649 19,483 19,339	38,886 26,204	10,952	85,170 35,819 30,300	149, 68 68, 68 58, 91
Foundry and machine-shop products.1	1919 1914 1909	229 150 95	5,727 3,558 2,596	14,387 5,125 3,405	7,251 2,749 1,754	14,534 5,662 3,389	34,766 12,017 7,241	Boots and shoes	1919 1914 1909	6 4 5	1, 191 1, 055 1, 617	1,308 673 697	1,164 657 830	4,877 2,036 2,676	7,7 3,0 4,2
ur goods	1919 1914 1909	21 19 17	192 127 128	47 39 30	228 85 73	542 285 283	1,156 566 511	Bread and other bakery products.	1919 1914 1909	68 64 69	745 372 367	815 503 240	596 294 253	3, 713 951 743	5,51 1,50 1,30
Furniture	1919 1914 1909	29 27 23	945 703 809	1,443 1,197 1,073	1,012 465 447	2,000 731 818	4,190 1,653 1,651	Butter	1919 1914 1909	11 7 6	129 112 50	928 516 535	146 97 39	7,956 3,012 1,918	9,0 3,2 2,1
Hais and caps, other than felt, straw, and wool.	1919 1914 1909	6 5 4	54 21 30	8 11 3	53 12 15	148 38 23	255 54 55	Carriages and wagons, including repairs. Cars and general shop construction and repairs by	1919 1914 1919 1914	14 12	289 308 4,016 3,068	605 733 2,471 4,176	313 190 5,248 2,155	700 369 2,516 1,513	1,37 71 8,00 3,81
lewelry	1919 1914 1909	13 10 8	107 92 76	36 33 31	123 66 48	219 52 55	513 168 156	steam-railroad companies. Copper, tin, and sheet-iron work.	1909 1919 1914	7 7 21 23	2,406 168 220	3,521 121 119	1,577 1,577 199 144	1,846 381 277	3,64
Leather goods 2	1919 1914 1909	24 29 14	185 208 260	136 78 98	218 148 147	1,041 501 503	1,596 788 923	Food preparations, not else- where specified.	1919 1914 1909	10 5 9	173 86 158	498 133 109	147 45 66	3,754 588 917	5,0° 9: 1,2
Lumber, planing-mill prod- ucts, not including planing mills connected with saw- mills.	1919 1914 1909	24 25 24	1,070 1,499 1,861	3,030 4,101 4,373	1,268 1,051 1,094	2,908 2,250 2,631	5,420 4,461 4,719	Foundry and machine-shop products,5	1919 1914 1909	109 61 45	2,641 1,766 2,118	3,845 6,406 3,474	3,303 1,256 1,284	4,626 2,082 2,352	13,8 4,4 5,0
Marble and stone work	1919 1914 1909	13 10 10	02 353 279	988 965 352	120 257 209	170 399 273	479 796 555	Fur goods	1919 1914 1909	12 10 14	629 675 867	441 306 242	797 447 469	4,489 2,325 1,840	6,5 3,5 3,1
Mattresses and spring beds, not elsewhere specified.	1919 1914	5 6	321 292	1,369 1,105	327 195	1,841 609	2,847 1,113	Leather goods 2	1919 1914 1909	18 22 9	627 229 272	243 200 214	645 149 141	3,279 467 502	5,0 8
Models and patterns, not in- cluding paper patterns.	1919 1914 1909	9 7 5	44 30 28	47 37 30	66 21 19	20 10 8	140 48 42	Lumber and timber products •.	1	19 19 17	658 747 654	3,285 2,447 2,804	635 438 352	2,270 1,324 1,034	3,9 2,2 1,6
Paints	1919 1914	6	70 76	223 742	78 58	1,018 636	1,593 950	Marble and stone work	1919 1914	13 13	110 100	930 707	144 173	228 296	5
Patent medicines and com- pounds.	1919 1914 1909	22 41 44	185 239 109	111 222 258	132 110 74	1,012 349 394	2,389 1,315 1,362	Paint and varnish	1909 1919 1914	10 6 6	216 61 58	519 202 322	178 46 30	287 803 417	1,2
Photo-engraving	1919 1914 1909	7 6 5	231 139 104	54 53 22	233 137 93	203 56 25	627 384 204	Patent medicines and com- pounds and druggists' prep- arations.	1909 1919 1914 1909	22 28 25	48 191 88 99	243 243 235 158	126 40 45	371 414 215 212	1,3
Printing and publishing 3	1919 1914 1909		2,214 2,027 1,755	2,797 2,447 2,180	2,509 -1,475 1,162	4,836 2,124 1,693	13,650 7,896 6,478	Printing and publishing, book and job.	1919 1914 1909		1,364 1,515 865	1,389 1,250 687	1,334 1,072 537	1,591 1,022 637	5, 8 4, 1
Signs and advertising novel- ties.	1919 1914	20 17	304 163	78 42	247 107	293 164	893 354	Printing and publishing, newspapers and periodicals.	1919 1914 1909	48 44 39	872 735 1,084	677 997 1,063	1, 083 512 759	1,818 1,311 846	6, 8 3, 8 3, 7
Tobacco, cigars 4	1919 1914 1909		193 174 314	33 4 16	164 113 168	261 179 254	652 445 868	Tobacco, cigars 4	1919 1914 1909	34	358 520 590	18 15 11	289 269 312	606 432 468	1,5 1,1,1,1,1
All other industries	1919 1914 1909	320	11, 436 8, 438 10, 413	26,808 21,432 21,796	10,282 5,175 5,196	91,583 29,697 28,779	128,389 45,080 44,758	All other industries	1919 1914 1909	319 281	8,427 7,739 7,928	22,826 19,058 11,687	8, 234 4, 813 4, 086	41, 149 17, 182 13, 651	65,6
			CITIES	3 OF 10	,000 TC	50,000	INHABI	TANTS—ALL INDUSTRIES	сом	BINE	D.		•	•	•
Ніввіме	1919 1914	16 27	50 65	63 28	08 54	168 112	320 254	St. CLOUD	1919 1914	77	1,998 1,429	6,883	2,328 864	1,467 1,288	7, 2, 2,
MANKATO	1919 1914 1909	56 64 63	771 755 807	3,291 2,618 3,654	728 434 346	7,052 3,217 2,728	9,766 4,344 3,723	WINONA	1909 1919 1914 1909	73 91	2,534 2,070 2,032	3,362 10,458 6,438 8,628	355 2,161 1,152 1,024	1,342 19,273 10,038 7,330	25, 14,

Includes "automobile repairing"; "engines, steam, gas, and water"; "iron and steel, welding"; "machine tools"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks"; and "structural ironwork, not made in steel works or rolling mills" in all years; "hardware" in 1919 and 1909; and "gas machines and gas and water meters"; "hardware, saddlery"; and "plumbers' supplies, not elsewhere specified" in 1909.

Includes "saddlery and harness" and "trunks and valises."
Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
Includes "tobacco, chewing and smoking, and snuff" in 1914 and 1909.
Includes "automobile repairing"; "engines, steam, gas, and water"; "steel barrels, drums, and tanks"; and "structural ironwork, not made in steel works or rolling mills," in all years; "hardware" in 1914; and "plumbers' supplies, not elsewhere specified" and "steam fittings and steam and hot-water heating apparatus" in 1914 and 1909.

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

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

	-			PERSO	ONS EN	GAGED	IN THE	INDUSTRY.		WAC NEARE	FE EARN	IERS DI RESENT.	EC. 15, ATIVE	OR DAY,	
				Sala-	Clerks	s, etc.		Wage earne	ers.		16 and	l over.	Und	er 16.	
INDUSTRY AND CITY.	Num- bor of estab- lish- ments	Total.	and firm	ried offi- cers, super- in- tend-	Male.	Fe-	Aver-	Number, 18	ith day of—	Total.		Fo-		77.0	Capital,
			bers.	ents, and man- agers.	maic.	male.	num- ber.	Maximum month.	Minimum month.		Male,	male.	Male.	Fe- male.	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

_			1			7		DINED	ANI		11, 1,12,		USTRI					
1	All industries	6, 225	147,678	5, 128	6, 903	13, 288	6, 736	115,623	De	122, 250	My	109, 489	(3)	(8)	(8)	(3)	(3)	Dollars.
2 3 4 5 6 7 8 9 10 11 12 13	Agricultural implements. Artificial limbs. Artificial stone products. Automobile bodies and parts. Automobile repairing. Awnings, tents, and sails. Babbitt and type metal. Belting, leather. Bookbinding and blank-book making Boots and shoes. Regular factory products. Overgaiters, moccasins, and leg-	171 171	618 170 1,095 537 2,935 133 19 153 151 2,614 2,505	3 13 197 44 799 18 3	50 15 80 43 128 9 3 20 5 86 76	41 21 37 26 72 10 14 2 263 251	23 25 15 19 94 7 2 3 2 108 105	501 96 766 405 1,842 89 11 116 119 2,153 2,073	Se No Jy De Jy Je ⁴ Se De Au	1,009 454 2,131 114 14 143 123	My Ap Ja Ja Ja Ja Ap Se ⁴	448 91 478 328 1,453 65 8 101 115	554 101 982 481 1,921 97 14 143 127 2,314 2,225	549 79 979 467 1,911 53 13 85 57 1,322 1,282	5 22 2 14 8 44 1 2 68 983 934	1 2 56 1 8 8	1 1 1	679, 386, 486 2, 623, 932 265, 281 3, 235, 159 979, 377 5, 445, 3402 55, 541 1, 561, 510 177, 663 10, 817, 683 10, 387, 310
14 15	gings. Boxes, set-up paper boxes and cartons Boxes, wooden packing, except elgar	16 28	794 787	4 6 27	44 41	12 18 16	15 8	711 695	No No Au	91 770 773	Ja Ja Ja	650 621	750 754	268 690	49 472 35	5 29	5	230, 373 1, 353, 932
16 17 18 19 20	boxes. Brass, bronze, and copper products. Bread and other bakery products. Bisenit and crackers. All other. Brick and tile, terra-cotta, and fire-clay products. Building brick, including fire	10 426 3 423 34	252 4,288 1,447 2,841 929	457 457 27	20 157 27 130 54	6 413 185 228 32	8 286 75 211 17	213 2,975 1,160 1,815 799	De No De	249 1,377 1,951	Je My Ja 4	192 1,018 1,660	256 3,268 1,301 1,967 1,041	243 1,976 572 1,404 1,018	13 1, 268 726 542	19 2 17 23	5 1 4	800, 171 8, 981, 750 3, 181, 804 5, 799, 946 4, 800, 734
22 23	hriek -	22 7	505 274	25 2	31 13	20 7	9	420 248	Au	684 302	Ja Ja	150 165	601 290	578 290	••••	23		2,361,792 1,759,303
24 25 26 27 28 29	Sewer pipe and draintile. Terra-ootta products. Brooms. Butter. Buttons. Canning and preserving, vegetables. Carpets, rag. Carriages and wagons, including repairs.	5 28 832 5 25 9 67	150 151 2,734 63 558 34 712	33 217 6 3 13 72	10 9 234 2 81 1 36	5 4 142 1 8	179 10 16	131 103 1,962 54 456 20 565	Oc De Je De Au De	186 126 2,278 82 1,630 30	Ja Fe Ja Ap Fe Ja	33 90 1,702 31 66 14	150 130 1,905 83 1,346 34 613	150 126 1,750 78 673 20 609	2 149 5 673 14 4			679, 639 279, 299 42, 854, 461 70, 798 1, 741, 480 31, 017 2, 845, 567
30 31 32	Carriages and wagons	35 32 8	628 84 479	32 40	$^{33}_{3}_{24}$	23 11	15 1 8	525 40 436	No Jy 1 De	568 43 511	Je Ja Je	480 35 346	573 40 511	569 40 498	<u>4</u> 			2,702,268 143,299 2,027,634
33	companies. Cars and general shop construction and repairs by steam-railroad companies.	75	16,808		381	294	157	15,976	Se	16, 375	Au	15, 190	15, 809	15,620	189			30, 083, 982
34 35 36 37 38 39 40 41 42 43 44 45	Cheese. Chemicals Cleansing and polishing preparations. Clothing, men's. Men's and youths' All other Contract work. Clothing, women's. Suits, skirts, and cloaks. All other Coffee, roasting and grinding. Coffins, burial cases, and undertakers' goods.	66 9 6 34 12 12 10 23 4 19 13	123 281 62 1, 793 890 772 131 339 39 300 852 311	25 32 4 10 18 20 2 18 5	6 18 11 49 25 20 4 36 9 27 68 23	1 67 21 110 49 61 47 2 45 160 33	2 34 8 41 16 24 1 16 2 14 86 7	89 162 20 1,561 796 657 108 220 24 196 532 247	Je Je Jy Oc De Oc De No Jy Mh	121 195 24 974 755 152 30 267 582 281	De Ja Ja Ja Mh Jy Sc 4 Ja Mh De	59 98 16 632 579 73 20 89 480 221	95 185 19 1,819 913 755 151 311 35 276 536 219	95 185 16 289 161 77 51 17 7 10 272 169	3 1,530 752 678 100 294 28 266 264 49			255, 982 2, 082, 618 163, 545 3, 736, 233 2, 156, 361 1, 552, 003 27, 889 680, 573 78, 241 602, 332 3, 653, 465 1, 485, 522
46 47 48 49 50 51 52 53 54 55	Coke, not including gas-house coke. Condensed milk. Confectionery and ice cream. Confectionery. Ice cream. Cooperage. Hogsheads and barrels. All other. Copper, tin, and sheet-iron work. Dairymen's, poultrymen's, and apiarists' supplies.	3 5 117 85 32 11 7 4 128 6	510 117 2, 516 2, 195 321 635 318 317 1, 074 152	2 129 92 37 3 3 3 132	13 11 97 77 20 32 18 14 67	67 9 227 206 21 14 3 11 80 47	4 11 104 77 27 11 3 8 37	426 84 1, 959 1, 743 216 575 291 284 758 86	De Je Au Ja Fe No Ap	483 102 2, 305 282 308 305 941 92	Je Ja Je Ja Jy My Fe Au	367 63 1, 337 150 279 245 542 82	483 91 2, 488 2, 275 213 598 302 296 886 97	481 66 814 631 183 583 298 285 876 95	2 25 1,672 1,642 30 15 4 11 7	1 1	1 1	9, 508, 441 1, 223, 556 5, 508, 985 4, 345, 986 1, 162, 999 1, 761, 687 862, 415 899, 272 2, 795, 671 724, 245
56 57 58	Dental goods Druggists' preparations. Electrical machinery, apparatus, and	8 6 20	194 217 1, 230	5 2 7	3 33 54	8 6 151	26 34 76	152 142 942	(⁵⁾ Ју4 De	152 152 1,005	(5) Ja Ja	152 123 916	153 148 982	106 51 635	46 97 334	1 ₁₃ .		140, 377 1, 075, 297 2, 372, 860
59 60 61 62	Electroplating Engines, steam, gas, and water Engraving and dissinking Engraving, steel and copper plate, including plate arriving.	7 14 5 7	2, 377 9 101	7 1 5 7	118 1	3 576 8	153 5	30 1,529 4 80	Au Mh (6) De	1, 893 4 96	My Do (5) Jy	28 1, 154 4 73	33 1,623 5 91	30 1,618 5 39	2 5 51	1 i		50, 458 21, 952, 666 4, 287 93, 063
63 64 65	Fancy articles, not elsewhere speci- fied.	6 5	458 139	3	20 10	25 9	13 26	398 91	Oc De	430 207	Ja Fe i	331 49	400 207	279 22	121 171		14	459, 569 195, 539
	Flour-mill and gristmill products Includes water wheels and turbines (10,686 ¹	180		2,988	857	6,049	De	6, 504	Mh	5, 607	6,561	6, 380	174	7		111, 366, 446

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

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

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

COMBINED AND SPECIFIED INDUSTRIES: 1919.

	EXPE	nses.									POWER.	anne Agriga I		
Salaries and wages.		Rent ar	nd taxes.	For mat	erials.				Pri	mary ho	rsepowe	Pr.		Elec
Meials. Clerks, Wag		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam on- gines (not tur- bines).	Steam tur- bines.	Internal- combus- tion engines.	Wa- ter pow- er.1	Rent-ed.3	trice hors pow generated esta lish men repo

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

			THE	STATE-	11.11.11				i					ī ī		1	<u> </u>
Dollars. 20, 985, 065	Dollars. 24, 374, 861	Dollars. 127, 106, 505	Dollars 1. 4,005,045 3,	Oollars. I 427, 503 21	00llars. ,634,431	Dollars. 360, 607, 299	Dollars. 2,482,478	Dollars. 1,218,129,735	Dollars. 335,039,958	473, 957	173,815	24, 371	33, 848	73,661	168, 262	87, 154	1
115, 826 35, 554 142, 030 80, 979 207, 516 14, 323 6, 613 30, 678 5, 636 361, 479 328, 399 33, 080	77, 806 40, 365 67, 036 38, 904 119, 309 28, 234 925 29, 138 2, 764 692, 648 668, 129 24, 519	498, 176 125, 667 802, 248 456, 559 2, 295, 042 82, 135 11, 939 136, 028 94, 239 1, 917, 246 1, 845, 785 71, 461	2,955 44,932	1, 619 13, 551 13, 990 35, 768 247, 594 13, 426 2, 136 11, 240 7, 369 35, 856 30, 965 4, 891	26, 929 7, 039 34, 129 23, 417 63, 755 13, 224 13, 353 3, 758 1, 573 248, 488 245, 146 3, 342	1, 319, 700 108, 277 1, 197, 381 850, 200 1, 993, 318 337, 434 99, 337 1, 189, 164 69, 144 7, 683, 058 7, 456, 372 226, 686	35,570 3,273 86,387 26,896 170,650 3,401 2,124 6,584 2,662 60,045 50,180 865	2, 341, 311 481, 863 3, 046, 815 1, 763, 048 9, 282, 481 580, 467 141, 442 1, 808, 535 245, 277 12, 644, 659 12, 228, 839 415, 820	986, 041 370, 313 1,763, 047 885, 862 7,118, 513 239, 682 39, 981 612, 787 173, 471 4, 901, 556 4, 713, 287 188, 269	723 89 3,111 611 2,830 62 8 120 50 1,738 1,705	340 782 22 40		14 10 451 4 743	75	369 79 1,803 007 2,065 62 8 80 50 1,738 1,705	221 35 23	2 3 4 5 6 7 8 9 10 11 12 13
119, 246 131, 515	65,778 29,383	482, 918 691, 745	2,000	30, 836 8, 854	37,508 45,721	936, 155 2, 161, 031	26,775 29,346	2,085,980 3,454,239	1, 123, 050 1, 263, 862	523 2,525	1,556				523 969	103	14 15
56, 460 395, 833 65, 719 330, 114 124, 810	19, 238 1,000, 450 439, 587 560, 863 55, 333	240, 771 2, 593, 161 808, 949 1, 786, 212 834, 062		5,700 249,003 65,791 183,212 8,000	20, 324 168, 575 69, 902 98, 673 51, 682	519, 471 13, 623, 934 3, 827, 755 9, 796, 179 306, 206	30,762 382,150 83,563 298,587 503,112	1, 017, 680 22, 815, 456 7, 366, 856 15, 448, 600 2, 203, 396	467, 447 8, 809, 372 3, 455, 538 5, 353, 834 1, 484, 078	393 3,234 1,052 2,182 5,224	1,241 821 420 3,270	370	14 14 67		393 1,979 231 1,748 1,517	761 504 257 545 500	16 17 18 19 20
78,820	29,873	441,517	73		26, 248	130, 321	250, 251	1, 150, 576	770,004	2,618	1,652	970	. 30	i .	80	45	22
25, 465 20, 525 10, 182 376, 192 2, 598 120, 006 2, 200 89, 092	312,057 8,192	153, 557 118, 916 2, 237, 868 43, 505 251, 511 15, 708	3,714 200	8,000 3,294 46,769 250 647 2,001 9,581	20, 444 4, 990 2, 238 248, 379 34, 647 121 76, 204	154,170 21,706 312,837 81,360,204 35,588 1,037,849 0,165 1,450,372	152,650 100,211 4,063 570,887 1,336 27,271 1,464 49,318	742, 128 400, 692 563, 084 88, 882, 271 88, 261 1, 792, 165 47, 595 2, 969, 738	435, 299 278, 775 246, 184 0, 951, 120 51, 337 727, 045 36, 966 1, 470, 048	1,865 741 106 14,644 48 1,399 49 1,501	1,408 210 9,716 647	179	30 10 776	71	501 96 3,902 48 680 49 411	965 30 915	23 24 25 26 27 28 29
83, 865 5, 227 49, 559	70,665	603,335		5,014 4,567 82	74, 129 2, 105 4, 219	1,399,692 50,680 396,585	44, 866 4, 452 43, 876	2,787,775 181,963 1,065,144	1,343,217 126,831 624,683	1,337 164 1,285			56 06		313 98 1,285	915	30 31 32
1,047,75		7 21,070,155	57,021			11,503,979	1, 098, 575	35, 350, 764	22, 658, 210	15, 157	7, 255	1,416	3 14	2	6, 347	9,725	33
3, 02: 58, 10 23, 31 147, 11: 74, 06 67, 09 5, 95 77, 27 12, 45 64, 82 165, 23 123, 77	7 126, 36 4 40, 71 169, 94 7 54, 21 115, 60 3 12, 3 12, 3 2, 56 9 17, 06 5 205, 55	4 188, 221 1 21, 514 4 586, 70 9 435, 59 80, 80 140, 89 15, 24 125, 24 188 233, 53	3 2,440 0 43,828 0 43,828 1 43,828 1 4 6 0 8 5 5,120	4,708 51,732 1,370 54,328 35,583 16,055 2,690 17,307 1,820 16,487 38,007 6,360	1, 826 60, 572 1, 587 134, 309 59, 910 78, 634 705 5, 424 4, 476 122, 842 140, 609	2, 481, 755 484, 624 520, 887 4, 810, 840 2, 761, 054 2, 041, 484 3, 302 460, 110 66, 585 309, 535 10, 223, 207 053, 112	3,373 28,962 16,818 10,579 1,505 4,047 327 3,720 41,663	3, 686, 734 3, 237, 718 140, 906 896, 237 120, 888 775, 350 12, 185, 988	832,126 203,485 8 2,225,556 1 908,862 3 1,185,655 1 131,039 426,089 5 53,978 5 53,978 5 172,991	230 39) 2. 7. 10 6 96 2. 24	77 22 22 22 1 1 22 1 1 1 1 1 2 1 1 1 2 1	0 8	10		930 377 416 228 167 21 71 10 61 862 80	142	36 37 38 39 40 41 42 43 44 45
46, 40 23, 37 325, 51 263, 22 108, 94 43, 24 60, 66 150, 00	19, 78 7 557, 49 13 499, 9 14 57, 50 12 35, 9 14 9, 4 158 26, 5 10 73, 9	31	19 500 15 1,500 600 80 900 77 6,832 6,832	127, 170 12, 959 1, 500 1, 500	118, 349 7, 878 544, 287 460, 149 84, 138 116, 336 23, 419 02, 917 49, 621 14, 348	457, 473 1, 541, 176 5, 559, 956 4, 117, 624 1, 442, 324 2, 001, 203 1, 050, 12 951, 13 2, 037, 02 312, 11	41, 812 127, 656 83, 120 5 44, 524 2 24, 130 7 20, 090 5 4, 03 6 25, 86	1, 805, 10 10, 055, 80 7, 594, 10 4 2, 461, 70 0 3, 199, 31 3, 19, 31 1, 645, 93 2 1, 553, 37 2 3, 802, 99	9 282, 213 5 4, 368, 203 2 3, 393, 353 974, 853 3 1, 173, 92 16 575, 71 7 598, 213 1, 740, 10	1 1,11 1 1,22 1 98 1 52 0 46	0 57 9 54 11 2 15 87 15 40 160 45	2 0 5 5 5 4	10	8	5, 044 375 1, 765 574 1, 188 124 121 58 7	355 355 355 355 355	2 48 2 49 50 51 52 53 54
2, 8 72, 9 255, 6	15 25, 5 33 40, 6	90 150, 2 68 86, 0	i	8, 231 8, 961 17, 378	30, 738 5, 102 160, 213	697, 77 252, 76 1, 976, 57	5 5,43	945, 90 9 618, 79 3 4, 353, 94	246, 90 360, 59 2, 320, 60	4 8	36 37 31	10			88	7 1	6 5
4, 1 346, 5 2, 0	52 4,9 30 994,9	30 32, 1 26 1, 907, 9 2, 1	88 56 318,729	4, 435 9, 411 714	586 331, 288 1 575	4, 481, 87	8 97,90	7 12,946,25 5 13,21	36 74, 19 97 8, 366, 51 19 13, 09 26 98, 94	2 2, 2	02 35 2 30	50		16			6
41, 9	56 54.6		- 1	11,753	9,210	285, 24 126, 19	6, 02 3 87	2 674,3 0 331,0	93 383, 12 16 204, 45	58	31 12					31	6
2, 021, 2		7, 780, 5	1	669, 266	3, 355, 61	335, 682, 1	45 2, 190, 36	381, 248, 8	91 43, 376, 37	79 114, 7	64 36, 5	91 14, 8	316 1,	017 32,	20 30, 4	20 118, 9	47 68
							and the second second	or one or mo throughout	we other mic	nnthe:	A 10 A 10 A 10 A	14.1					

MANUFACTURES—MINNESOTA.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

:				PERS	ONS EN	GAGED	IN THE	INDUSTRY.		WAGI -NEARE	E EARN ST REP	ERS DEC RESENT.	C. 15, (OR DAY.	
				Sala-	Clerks	s, etc.		Wage earne	ers.		16 and	i over.	Und	er 16.	
INDUSTRY AND CITY.	Num- ber of estab-		Pro- prie-	ried offi- cers,				Number, 15	oth day of—						Capital,
	lish- ments	Total.	and firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.	Maximum month.	Minimum month.	Total.	Mule.	Fe- male.	Male.	Fe- male.	

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

	THE ST	K 1 E-	YPD IN	DOST.	KIES	COMB.	ענאנאו	ANDS	1 1501	F1191) .	111170	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5COII	anaca.	on a constant was placed			
1	Food proparations, not elsewhere	41	926	27	79	123	73	624					773	418	354	1		Dollars. 5, 287, 989
2	specified. Breadstuff preparations, cereals, and breakfast foods.	10	337		33	46	30	. 228	Se	263	Jo	177	245	72	173			2, 332, 198
3 4	Macaroni, vermicelli, and noodles. Sweetening sirups, other than	4 7	157 161	1 13	10 11	24 8	7 12	115 117	De Se	164 182	Je Ap	84 87	137 179	63 117	73 62	1		462,477 1,251,295
5 6 7 8	All other	20 216 10	271 7,705 496	13 165 6	25 449 30	45 578 31	24 330 5	6, 183 424	Jy Oc	204 477	Mh Je	126	6, 483 427	166 6,391 426	46 91 1	<u>i</u> -		1, 242, 019 24, 850, 387
8 9 10	Foundry and machine-shop products. Boiler shops. Foundries. Machine shops. Machine shop and foundry com-	24 151 31	1, 284 3, 747 2, 178	19 108 32	46 273 100	87 346 114	36 229 60	1,096 2,791 1,872	Oc Dc Ja	1, 246 3, 014 3, 137	Je Je My	921 2,626 1,626	1, 307 2, 874 1, 875	1,261 2,842 1,862	46 31 13	1		2, 369, 740 2, 868, 215 12, 821, 188 6, 791, 244
11 12	bined. Fur goods	45 59 35	1,367 1,857	43 44 17	68 100 84	243 81 74	108 45 34	905 1,587 1,375	De	1,070	Mh ³	785	971	373 1,798	597 81 81	1 7	1 1	4, 454, 010 4, 500, 209 3, 922, 008
13 14	tan and willow. Rattan and willow, and metal	33 6	1,584 26	. 7	8*	74	2	1,575	De Jy	1,649 27	Ja Ja ⁸	1,109 2	1,648	1,559	61		1	3, 922, 008 27, 055
15	furniture. Store and office fixtures	18	247	20	16	7	9	195	No	227	Fe	159	217	217]	551, 146
16 17 18 19	Furs, dressed. Gas and electric fixtures. Gas, illuminating and heating. Glass, cutting, staining, and orna-	5 7 23 17	103 109 1,028 174	5 2 5	3 16 73 24	2 12 157 13	2 4 91 13	91 75 707 119	De De Je De	109 88 783 136	Ap Ap Fe Ja 8	62 66 632 99	107 89 734 145	100 83 727 133	7 6 7 12			195, 956 237, 108 21, 461, 659 392, 710
20 21	Glucose and starch.	6 10	31 39	ii	14 6	1	<u>2</u>	16 20	Λp	37	Au	6	32 21	31 21	1	1		152, 198 131, 706
22	bricating greases. Soap stock	5 5	18 21	5	3 3		1	9 11	(4) De	9 13	(4) Ap	9	8 13	8 13	 			84 535
22 23 24 25	briesting greases. Soap stock. All other. Hand stamps. Hats and caps, other than leit, straw, and wool. Ice, manufactured. Ink, writing. Iron and steel, welding. Jewelry. Knit goods. Leather goods, not elsewhere specified Lime. Liquors, mait. Looking-glassand picture frames.	10	99 116	17 20	6 4	4 5	13 4	59 83	De Se ³	65 89	Ja Ja 3	51 77	63 88	47 58	16 30			67, 171 155, 726 282, 211
26 27	Ice, manufactured Ink, writing Iron and steel welding	5 3 10	122 9 31	10	15 4 5	7	7 1 2	93 4 14	Au (4) Ap	105 4 15	Ja 3 (4) Ja 3	76 4	94 4	93 2 13	$\frac{1}{2}$			899,401 7,583
28 29 30 31	Jewelry Knit goods	22 16	206 4,034	26 9	6 56 37	9 117	15 288	150 3,564	De Mh	$\frac{156}{4,171}$	Fe 3	13 143 3,026	13 153 3,033	145 527	7 2,505	1		76,965 265,448 11,014,213
31 32 33	LimeLiquors malt	11 5 28	839 198 1,415	5 12	37 12 127	75 8 197	40 6 43	167	De My Je	834 211 1,389	Mh Fe Jy	588 99 778	753 184 975	279 184 972	474			2, 290, 721 558, 447 18, 938, 274
34 35	Looking-glass and picture frames Lumber and timber products	12 244	70 13,384	261	182	278	9 61	1,036 37 12,602 2,188	De Fe	51 15,810	My My	$\frac{32}{9.753}$	17, 877	41 17,713	152	11	1	226,372 38,601,513
36	Locking-glassand picture frames. Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with sawmills. Machine tools.	94	2,689	78	165	180	78		De	2,590	Ja.	1,556	2,578	2,537	20	21		8, 994, 879
37 38 39 40	Machine tools. Malt. Marble and stone work. Monuments and tombstones	5 7 109	224 129 1,300	106	10 18 73	25 13 79	23 2 21	163 96 1,021	De Jy	198 121	Je De	102 62	197 112 1,165	197 112 1,160	4		· · · · · · · ·	778, 024 4, 409, 012 2, 876, 443
41	Monuments and tombstones All other, except slate. Mattresses and spring beds, not elsewhere specified.	. 19	890 410 592	96	73 37 36	79 56 23	21 17 4	684 337	De Se	744 409	Ja	600 219	773 392	771 389	1 3			2,083,639 792,804
42 43	Millinery and lace goods, not else-	23	722	6 16	46 41	41 82	40 42	459 541	Au	533	Ja	346	505 591	434 34	71 555	4	2	2, 486, 943 1, 166, 836
44 45	where specified. Embroideries. Trimmed hats and hat frames	6 8	20 629	6 6	1 31	82	2 31	11 479	Ap Fe	8 12	Ja 3	10 340	13 523	1 27	11 496		1	10,959 1,094,228
45 46 47	All other	9	73 438	132	36	36	9 21	51 213	De	753 57	12.00	43	55 212	189	48 11	12	1	1.339,966
48 49 50	Mineral and carbonated waters. All other. Models and patterns, not including	5	410 28 155	130 2 23	32 4 1	25 11 2	18 3 5	205 8 124	Je 3	204 9 167	De 8	158 7 86	205 7 134	182 7 134		12		1,284,901 55,065 177,610
51	paper patterns. Musical instruments and materials not elsewhere applied	3	6	3				3	(4)	3		3	3	3				3,240
52 53	Oil, linseed	6	617 157	4	30	65 29	39 27	483 83	Jy Se	577 85	My Ja	416 178	504 84	498 78			-	19,648,821 320,840
54 55	Paints Paper and wood pulp Petent medicines and a empounds	12 9 51	244 2,771 906	5 29	30 86 82	29 72 95 175	27 20 67	83 117 2,523	Je Ja	85 128 2,681	No Au	101 2,305	112 2,642	2,479	27 163			1,948,735 24,634,705 7,939,775
56 57 58	paper patterns. Musical instruments and materials, not elsewhere specified. Oil, linseed. Optical goods. Paints. Paper and wood pulp. Patent medicines and c ompounds. Patent and proprietary medicine Patent and proprietary compounds, not elsewhere specified. Paving materials.	s 33 18	734 172	19 10	1 56	151 24	159 140 19	461 368 93	ју Ју	426 115	Ja. Ja	326 70	355 89	201 157 44	1. 106	1 12 1	1	7,493,837
59	pounds, not elsewhere speci- fied. Paving materials	. 13	190	5	16	8	1	160	Ју	223		75	241	241	41	175	1	745.794
60 61 62	Paving materials. Perfumery and cosmetics. Photo-engraving. Photographic materials.	. 18 11 6	197	8	10	1.21	15 30 5	43 299	Se De	50 302	Fe a	35 295	52 303	23 263	28 40		i	172,401
63	Pickles, preserves, and sauces	13	299	6	25	31			Au	614	Ja ³ Fe	19 118	21 267	16 138	129	ا ا		936, 505

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

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

			EXPEN	SES.									POWER	·•		
Sala	ries and wa	ges.		Rent an	d taxes.	For mat	orials.				Prir	nary ho	orsepow	er.		Elec-
					:			Value of	Value added by			Owi	ned.			tric horse- power
Mcials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	products.	manufac- ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	gener- ated in estab- lish- ments report- ing.
			THE ST.	ATE-AL	L INDUS	TRIES CO	MBINED	AND SPE	CIFIED IN	DUSTR	IES—Co	ntinue	d.			
ollars. 250, 733	Dollars. 278, 979	Dollars. 575, 851 189, 214	Dollars. 39, 663	Dollars. 39, 021 5, 050	Dollars. 303, 540 118, 624	Dollars. 10, 308, 757 3, 414, 269	Dollars. 109, 377 28, 153	Dollars. 14, 706, 653 5, 163, 789	Dollars. 4, 288, 519 1, 721, 367	3, 090 658	437 150				2,653 508	145 85
23, 047 32, 485 43, 053	128, 816 43, 159 26, 668	102, 462 94, 620	36,000	1,000 13,398	12, 635 143, 055	613, 520 3, 472, 599	14, 190 19, 168	937, 621 4, 628, 702	309, 911 1, 136, 935	388 413	50 223				338 190	60
52, 148 413, 803 142, 515 205, 405 770, 374	80, 336 1, 218, 270 75, 318 90, 933 779, 088	189, 555 7, 432, 071 530, 733 1, 492, 768 3, 089, 240 2, 319, 330	85, 034 16 100 82, 288 2, 630	19, 573 106, 710 526 30, 695 73, 425 2, 064	29, 226 1, 161, 371 292, 201 239, 135 298, 252 331, 783	2, 808, 369 12, 001, 995 1, 064, 609 2, 367, 882 5, 880, 017 2, 689, 487	47, 866 711, 652 39, 158 285, 474 185, 093 201, 927	3, 976, 541 31, 864, 771 2, 551, 206 5, 869, 060 16, 100, 993 7, 343, 512	1, 120, 306 10, 151, 124 1, 447, 439 3, 215, 704 10, 035, 883 4, 452, 098	1, 631 11, 963 1, 714 1, 820 4, 725 3, 704	14 1, 485 250 235 175 825	1, 333	228 6 14 125 83	9	1,617 8,908 1,458 1,571 3,083 2,796	3, 043 1, 163
295, 509 267, 370 407, 014 335, 633	433, 287 184, 613 154, 180	1, 086, 583 1, 635, 677 1, 371, 442	7, 819 1, 403 1, 053	113, 586 40, 884 37, 787	316, 480 173, 443 164, 331	5, 181, 310 2, 979, 422 2, 637, 993	22, 963 82, 815 66, 874	8, 062, 860 6, 805, 090 5, 951, 756	2, 858, 587 3, 742, 853 3, 246, 889	515 2, 814 2, 393	1, 466 1, 391			. 3	512 1, 348 1, 002	26 26
	852	14, 582	0.00	2, 125	180 8, 932	29, 832	276	70, 382	40, 274 455, 690	9 412	75			-	9 337	
71, 381 11, 820 32, 408 204, 349 51, 395	29, 572 5, 340 20, 016 254, 3 98 22, 488	249, 053 117, 458 75, 283 868, 056 108, 089	350 1,000 5,392 401	6, 972 1, 800 8, 269 2, 300 14, 081	8, 932 1, 377 2, 943 308, 655 5, 314	311, 597 44, 063 200, 821 658, 994 544, 532	15, 605 8, 620 3, 164 1, 748, 827 6, 176	782, 952 232, 370 427, 523 5, 517, 882 832, 317	455, 690 179, 687 223, 538 3, 110, 061 281, 609	192 91 5, 908 92	3, 024	50 2, 330	125	• • • • • • • • • • • • • • • • • • • •	337 42 91 429 92	256
2, 280 23, 817	53 1,095	14, 953 28, 806	135	. 68 370	8, 352 9, 301	62, 230 111, 129	5, 320 7, 476	89, 016 252, 070	21, 406 133, 465	263 188	252 105		. 8		8 15	
5,725 18,092 19,100 7,600	12, 519	15,048 13,763 59,448 88,838	1 50	270 100 12,590 10,434	3,322 5,979 5,630 657	21, 305 80, 824 69, 780 288, 197	3,035 4,441 2,874 1,025	87, 496 164, 574 250, 301 462, 703	63, 156 70, 309 177, 641 173, 481	li	80 85		. 8		15 42 18	
25, 740 5, 240 9, 853 10, 200 306, 420 192, 685 32, 160 515, 629 18, 147 607, 612 399, 412	525, 751	3, 231 18, 120 179, 045 2, 297, 950 623, 561 169, 381 1, 842, 93 39, 260 9, 868, 133	16,958 1,101,788	$\begin{array}{c c} & 11,237 \\ 35,779 \end{array}$	22, 190 75 534 2, 843 422, 443 91, 441 10, 748 1, 731, 625 3, 090 1, 921, 398 197, 323	34,657 7,623 18,949 266,281 7,408,285 2,544,070 77,846 1,829,816 180,765 17,037,873 6,414,926	55, 104 386 3,028 2,210 78,325 12,567 42,073 216,924 2,108 132,725 113,231	333,078 27,545 95,182 663,691 13,984,944 4,052,079 427,439 7,712,734 327,133 37,321,051 11,804,330	1,494,833 307,520 5,665,994 144,170 20,150,453	33 53 1,480 194 260 7,125 36,478	1,200 200 6,037 32,028 5,587	2,073	100 12 18 18 18 168	3	1,571 33 58 280 182 42 1,073 30 1,817 3,168	1,452 30 1,135 2,549 648
25, 326 70, 687 151, 254 80, 256 71, 004 183, 380	7 19,673 130,459 103,394 27,065 162,960	121, 510 1, 282, 349 894, 97 387, 37	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	16,364 6,680 9,684	13, 116 97, 900 56, 000 43, 611 12, 389 31, 509	207, 584 2, 168, 763 1, 779, 686 1, 431, 220 348, 466 2, 368, 901	73,712 48,411 33,302	2,926,102 4,721,138 3,501,505 1,219,633 3,871,893	1,469,680	1,00	2, 187 1, 112 480 632 378		16'	3 7 6	334 523 5,056 2,801 2,255 1,279	2, 150 77 10 6
1,04(117,76: 10,94: 59,12: 53,49: 5,63: 1,93:	1, 248 1 76, 078 8 5, 978 8 59, 548 8 50, 218	9,55 3 440,09 3 33,70 198,41 5 191,53 6,87 135,19	751 4 751 6 500	7,892 22,187 19,205 2,982 5,360	112,553 109,718 2,835 1,996	l	163 8,710 754 3 21,891 5 21,468 423 6,300	31,412 1,887,100 149,521 1,543,800 1,471,75 72,05 331,31	2 23,063 9 893,064 5 104,643 6 750,65 712,202 3 38,452 213,330	3 167 3 167 4 357 2 350 2 138	123	5		1 1 5 1 6	. 42 15 270 269	4
342, 48 42, 13 90, 84 410, 50 308, 25 216, 59 91, 66		7 118,42 9 2,993,80 0 295,07 2 238.07	3 1,65 7 1,65 75 3 9,96 0 8,14	13,294 9 34,621 9 24,257	333, 945 11, 830 167, 350 748, 238 448, 773 438, 251	28,623,33	2 172,652 4 2,036 2 17,026 5 1,381,833 8 25,096 1 20,766	33, 237, 74 616, 05 2, 512, 13 20, 138, 48		6 4, 10: 2 4 0 62: 4 56, 10:	2,48	ñ-		7 40,036	1,623 4' 54(4,15) 2,22 2,18	8,7
39,03 14,42 92,45 6,48 59,65	92,69 5 5.85	5 33,20 1 361,00 6 14,91	7 27,64 6 1,96 9 4,59	4 12, 10 5 20, 87 3, 836	125, 731 5, 154 7, 830 1, 278	97, 11 176, 05 227, 79 47, 22	4 2,38 1 4,84 5 1,81	969,06	2 88,73	$\begin{bmatrix} 1 & 2 \\ 2 & 8 \\ 1 & 2 \end{bmatrix}$	4 2	9		51	8	4

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

ments Total. tors super- and in- firm tend- mem- ents, Male. Fe- male. male. Maximum Minimum Total. Male. Fe- male. Mal				PERSO	ONS EN	AGED	IN THE	INDUSTRY.		WAG NEAR	E EARI EST REI	TERS DI	EC. 15,	OR DAY.	
Number of establishments Total. Total. Number, 15th day of— Number, 15th day of— Total. Total. Number, 15th day of— Total. Total. Male. Fe- age male. num- Maximum Minimum Male. Male. Fe- male. Male. Fe- male.	en e			Sala-	Clerks	, etc.		Wage earne	ors.		16 and	l over.	Und	er 16.	
ments Total. and infirm tends ments ents, Male. Fe- age male. num- Maximum Minimum Male. Fe- male. Male. Fe- male.		ber of estab-	pı	ried ro- offi- rie- cers,				Number, 18	ith day of—		•			•	Capita
man- agers.			Total. a	nd in- rm tend- em- ents, ers. and man-	Male.	Fe-	age	Maximum month.	Mınimum month.	Total.	Male.	Fe- male.	Male.		

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

1	Poultry, killing and dressing, not done in slaughtering and meat-	10	144	12	6	21	17	88	De	144	Mh	61	146	143		3	•••••	Dollars. 339, 268
2	packing establishments. Printing and publishing, book and	277	4, 412	259	301	355	435	3, 062			•••••		3, 266	2, 153	1,084	27	2	11, 725, 692
3 4 5 6	Job printing. Book printing and publishing. Linotype work and typesetting. Printing and publishing, news-	258 8 11 701	3, 399 795 218 5, 713	244 3 12 641	243 48 10 408	212 139 4 914	223 203 9 692	2, 477 402 183 3, 058	De De De	2,653 457 189	Ja Fe Au	2,356 371 170	2, 617 458 191 3, 235	1,828 164 161 2,484	761 294 29 683	26 1 60	8	7, 885, 447 3, 506, 034 334, 211 14, 794, 809
7 8	papers and periodicals. Printing and publishing Printing, publishing, and job	23 571	910 4, 370	12 571	50 270	256 566	113 434	479 2, 529	No No	493 2,685	Se Ja	467 2, 409	490 2,686	430 2,018	60 605	59	4	4, 202, 263 10, 204, 011
9 10 11 12 13	printing. Publishing without printing Printing materials. Saddlery and harness. Sand-lime brick. Sausage, not made in slaughtering	107 4 51 3 11	433 23 638 86 62	58 6 49	88 5 42 8 4	92 1 81 5 9	145 1 30 4 2	50 10 436 69 33	De (4) De No 8 Se 9	53 10 479 101 36	Fe 3 (4) Je Mh Ja 3	49 10 407 24 30	59 11 489 106 35	36 11 454 104 35	18 34 2	:	4	388, 535 50, 109 2, 367, 647 242, 626 95, 878
14	and meat-packingestablishments. Shipbuilding, wooden, including boat building.	21	126	23	7		5	91	Jу	115	No	67	109	107	2			311,701
15 16 17 18 19 20 21 22 23	Shirts Show cases Signs and advertising novelties Electric and other signs. Advertising novelties. Slaughtering and meat packing Soap Statuary and art goods. Steam fittings and steam and hot-	9 5 31 27 4 13 7 5	337 90 1,404 247 1,157 6,636 84 48 230	20 20 20 11 3 7	19 8 64 19 45 249 6 4	46 4 204 9 195 855 22	15 2 127 11 116 290 7 2	253 71 989 188 801 5, 231 46 35 160	De De No Oc De Au Se 3 No	304 108 221 1,007 6,018 57 44 200	Ap 3 Ja My Ja My De Ja My	232 48 163 529 4, 855 37 21 104	261 109 1,176 215 961 5,599 44 40 224	41 109 393 153 240 5, 147 33 37 223	783 62 721 452 11 3			845, 733 356, 971 2, 105, 590 368, 885 1, 736, 705 24, 731, 277 453, 144 69, 401 809, 766
24 25 26 27 28 29	water heating apparatus. Steam packing. Stereotyping and electrotyping Stoves and hot-air furnaces. Stoves and ranges. Hot-air furnaces. Structural ironwork, not made in Steel works or rolling mills.	5 4 12 6 6 19	283 56 322 281 41 2,795	1 1 9 1 8 12	17 6 18 15 3 66	42 2 37 32 5 427	15 3 22 21 1 107	208 44 236 212 24 2, 183	Oc Jy s De Se No	227 49 234 39 2,459	My Ja Je Ja 3 Je	193 29 205 14 1,748	214 49 242 206 36 2,467	208 49 232 196 36 2,447	10 10 10	i		1, 129, 430 100, 491 680, 894 608, 666 72, 828 12, 842, 981
30 31 32 33 34 35 36 37 38	Suspenders, garters, and elastic woven goods. Tinware, not elsewhere specified. Tobacco, cigars and cigarettes. Tools, not elsewhere specified. Machinists' tools. All other Toys and games. Trunks and valless. Upholstering materials, not elsewhere specified.	10 3 7	515 1,202 66 13 53 63 111 72	7 5 224 10 6 4 2 10 3	12	6	3 4	30 455 891 39 7 32 51 79	Au No Jas Ja No De De	34 585 943 8 36 101 92 65	Au s My s Fe	29 11 65	32 457 929 42 7 35 100 93 71	3 294 523 40 7 33 39 84	2 59 6	9		143,767 1, 688, 452 1, 499, 855 226, 307 62, 670 163, 637 60, 572 194, 795 213, 553
39 40 41	where specified. Varnishes. Window shades and fixtures. Wirework, including woven-wire fencing, not elsewhere specified. Wooden goods, not elsewhere speci-	6	51 48 77 297	1	. 8 2 11	11 3 1	5 3 6	27 31 54	De No	29 3 33	Ap 3 Ja 3 Au		29 33 50	28 18 29 284	1 15 21			308, 564 86, 185 186, 570 959, 012
43 44	fied. Woolen goods. All other industries*.	1 .	682	1	41	50	16	574	De	599	-	539	600	284	1 3 4 7 7			2,353,331

* All other industries embrace— Ammunition	Brushes. Carriage and wagon materials. Carriages and sleds, children's. Coment. Coal-tar products. Cordage and twine. Cordials and flavoring sirups. Corsets. Cutlery and edge tools. Drug grinding. Dyeing and finishing textiles, exclusive of that done in textile mills. Engraving, wood. Explosives. Fire extinguishers, chemical. Flags and banners.

- 1	Brushes
2.	Carriage and wagon materials
	Carriages and sleds, children's
Ĺ	Cement
5	Coal-tar products
	Cordage and twine
5	Cordials and flavoring sirups
2	Corsets
1	Cutlery and edge tools
	Drug grinding
2	Dyeing and finishing textiles, ex-
2	clusive of that done in textile mills.
2	Engraving, wood
2 2 2 2	Explosives
n	Totals animies annihilation and animies of

	_1	13		1 ::		-11	
	Flax Furn Gas me Glov clu mi Glov Gold ing Hair Hard Hard	and ishin mach ters. es and ding lls. es and and g, not work work were sesho	nd mit	dressed , men's nd gas iens, cl s made ens, leat reducin he ore.	oth, noth, n	ear water of in- extile	
١	4.1						

l	
	House-furnishing goods, not elsewhere specified
	Ink, printing Instruments, professional and scien- tific.
	Iron and steel, blast furnaces Iron and steel, steel works and rolling mills
	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling
	Iron and steel, doors and shutters
	steel works or rolling mills

¹ Includes water wheels and turblues (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).

AND SPECIFIED INDUSTRIES: 1919—Continued.

			EXPEN	SES.								. 1	POWER.			
Sala	ries and wa	iges.		Rent an	d taxes.	For mate	orials.				Pri	nary ho	rsepow	er.		Elec-
			_			* a. *		Value of products.	Value added by manufac-			Owi	ied.			tric horse- power
fficials.	Clerks, etc.	Wage éarners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.		ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	gener- ated in estab- lish- m ents report- ing.
		1 1	THE ST	ATE—AI	T INDU	STRIES CO	MBINED	AND SPE	CIFIED II	DUST	RIES—C	ontinue	d.			
0ollars. 5,263	Dollars. 26, 176	Dollars. 58, 923	Dollars.	Dollars. 9,279	Dollars. 913	Dollars. 1,872,653	Dollars. 4,213	Dollars. 2, 108, 219	Dollars. 231,353	117	·····	-,		••••	117	
829,001	844,441	3,088,185	480,288	263,684	214, 192	4, 232, 697	117,952	12, 994, 804	8,644,155	3,050	100		2		2,948	8
658, 411 147, 458 23, 132	421,496 411,031 11,914 1,502,891	2,504,139 341,036 243,010 3,531,693	410,846 57,844 11,598 1,169,380	242,715 5,459 15,510 257,875	124, 332 70, 570 19, 290 424, 678	3, 990, 552 209, 977 32, 168 5, 676, 389	95, 916 11, 507 10, 529 202, 352	10,660,511 1,854,153 480,140 20,088,590	6,574,043 1,632,669 437,443 14,209,849	2,729 290 31 4,550	100 279		373	7	2,627 290 31 3,891	47
075, 169 188, 081 718, 784	434, 239 889, 799	556, 163 2, 927, 882	31,690 601,720	37,808 192,549	173, 172 245, 407	1,493,580 4,024,272	32, 577 107, 407	4, 012, 482 14, 458, 811	2,486,325 10,267,132	660 3,844	279		371	7	660 3, 187	47
168, 304 14, 072 93, 107 12, 405 3, 664	178, 853 2, 151 145, 923 8, 720 9, 861	47,648 10,412 489,246 67,249 44,224	535, 970	27,518 3,420 38,658 11,050	6,099 5,460 32,562 2,388 1,110	158, 537 16, 349 2, 812, 360 29, 133 388, 900	2,368 793 16,947 13,021 10,824	1,617,297 83,035 4,159,286 185,130 558,369	1,456,392 65,893 1,329,973 142,976 158,645	46 8 329 599 155	60 545		20		44 8 269 25 155	40
9,600	5,487	105,358		688	7,509	100,859 621,373	5, 764	341,567 1,180,332	234, 944 554, 983	196 101	70 75		. 33		93 26	69
59, 926 11, 160 206, 766 77, 511 129, 255 624, 578 17, 846 5, 700 58, 429	86, 097 8, 014 490, 976 20, 248 470, 728 1, 502, 088 41, 810 1, 400 50, 491	181, 951 49, 212 955, 589 196, 153 759, 436 6,448, 530 40, 615 43, 683 169, 027	7,903	13, 105 4, 868 27, 509 13, 509 14, 000 11, 821 2, 052 1, 896 1, 070	35, 733 5, 285 136, 804 5, 310 131, 494 476, 029 18, 198 310 15, 033	118, 925 1, 218, 313 229, 369 988, 944 127, 850, 193 614, 129 18, 339 480, 703	3,976 5,697 24,405 7,006 17,309 649,784 8,045 1,538 16,209	288, 041 4, 083, 462 691, 350 3, 392, 112 146, 361, 046 822, 363 107, 282 981, 413	103,419 2,840,744 454,975 2,385,769 17,855,069 200,189 87,405 484,501	250 504 104 400 11,223 203 11 182	335 5,187 130	826	5 5	535	250 164 99 65 4,675 73 11 182	600 600 819 5
61, 590 18, 898 40, 093 37, 454 2, 639 250, 033	62,085 5,258 67,356 63,189 4,167 709,434	244,373 58,009 232,117 196,953 35,164 3,047,348	75,713 8,714 66,999	465 6,225 4,520 2,700 1,820 2,806	45, 817 1, 771 8, 530 7, 647 892 95, 421	725, 269 28, 523 390, 009 339, 109 50, 815 5, 454, 501	103,090 3,180 16,139 14,860 1,279 170,105	1, 527, 526 200, 231 1, 055, 436 828, 733 226, 703 9, 952, 606	699, 167 168, 528 649, 288 474, 679 174, 609 4, 328, 000	1,643 232 338 309 29 8,918	665 48 48 2,070		25		978 232 290 261 29 6,823	1,513
49, 545	. 24,620 52,873	20, 596 369, 283	1,867	6,290 1,380	591 164, 159	153, 532 1, 142, 804	1,069 16,031	223, 983 2, 181, 855	69,382 1,023,020	251	170		-		81	323
76, 520 43, 305 43, 305 11, 425 21, 710	91, 945 4, 150 4, 150 1, 290	741, 903 55, 886 7, 741 48, 145 33, 954	1,162 18,800 18,800 2,732	38,496 3,135 1,083 2,053	849, 628 4, 888 262 4, 626 7, 019 4, 203	1,456,032 108,664 5,274 103,390 28,593	15,441 8,890 1,164 7,726 1,037 3,638	3, 205, 020 331, 381 25, 277 306, 104 121, 020 480, 834	1,023,020 1,732,647 213,827 18,839 194,988 91,390 222,433	62 261 32 229 27 75			8		253 32 221 27 75	
11,967 13,803 3,240	11,540	94, 355	'	. 0,042		176, 840	13,378	340, 166	149,948	1,115	645				470 32 13	48
30,986	4,932	39, 586		448	4,600	193,663		326,028	130, 480	11:	585	150		-	65 433	
59, 200 180, 987 2, 652, 443	87, 915	1	36 503	1,740 9,414 124,906	183, 052 4, 026, 620		1	928, 803 2, 864, 259 121, 362, 568		1, 168 1, 491 87, 209	370		25 28, 227	410 9	686	11
Apidary And, bar And,	work r, pipe, and tanned, cu ods vinous. phing matting, f ind coir	sheet nried, and rom cocoa	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mucilag not els Musical Musical Oakum Oil, com Oleoma substi Paper g Petrolet Phonog Photogr Pottery	e, paste, and sewhere spinstrumer instrumer aposite at tutes cods, not earn, refinir aphic aphic aphic conthen a	nd other adheceified ts, organs ts, planos nd other lisewhere specific graphophone aratus nd stone was	sives, 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Refrigerate Regalia, as emblems Roofing m Rubber ti goods, no Sand and d Shipbuildi Soda-water Sporting a	ors. Ind society Ires, tubes, Ires, drums, Ires, drums	badges and ry specified and clot	and ibber	1 The Tin Tob Vau Vind Was Who 2 Wir 2 Wood 2 Word Word World Worl	atrical s plate an acco, sn lt lights egar ching ringers eelbarro dow sather s	cenery. d terner doking and ver machine ws and do trips erving	plate atilators as and or scree	cloth ens ar

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERSC	ns en	GAGED	IN THE	industry.		WAG! NEARE	E EARN	ERS DE	C. 15, C	OR DAY.	
ing the second s				Salas	Clerks	, etc.		Wage earne	rs.		16 and	l over.	Unde	Br 16.	
INDUSTRY AND CITY.	Num- ber of estab- lish- ments	Total.	Pro- prie- tors s and firm mem- bers.	Salaried officers, superintendents, and managers.	Male.	Fe- male.	Average num- ber.	Number, 15 Maximum month.		Total.	Male.	Fe- male.	Male.	Fe- male.	Capita

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

1	DULUTH —All industries	226	12,513	132	525	938	446	10, 472	Ja	11, 174	De	9,370	9, 979	8,723	1,241	12	8	Dollars, 71, 976, 186
2 3 4 5 6 7 8 9	Automobile bodies and parts	4 12 15 5 5 3 12 10	21 97 187 578 82 226 174 749	6 11 15 17 4 4	1 9 10 25 7 10 12 39	2 6 21 3 6 38 4 76	2 10 7 4 8 13 4 14	10 61 134 546 63 148 150 616	Je Au De Ja Au Oc No Ja	15 67 142 590 70 191 194 650 33	Fe 3 Ja 3 Mh Au No Je Fe Ap Mh 3	7 55 122 510 54 111 109 548 18	28 57 142 552 58 189 181 623 30	27 57 86 549 27 53 181 614	52 3 31 136			56,148 84,672 378,459 742,222 519,706 572,671 586,417 4,001,220
10 11 12 13	Fur goods. Knit goods. Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with sawmills. Printing and publishing, book and	5 4 6	128 599 230	2	9 14 22 21	3 13 16	2 6 6	112 566 184	Oc Fe Ja Au Mh	1, 182 213	Je No 3 Mh	151 143 158	119 . 761 196	11 25 742 196	19 93 19	1		25,100 458,278 1,980,289 954,794
14 15	job. Printing and publishing, news-	15	409	4	22	151	42	190	Se	198	Ja 2	182	196	170	25	,		687,582
16 17	papers and periodicals. Tobacco, cigars and eigarettes All other industries*	10 92	8,703	10 39	320 320	2 588	309 309	53 7,447	De	³ 60	Mh	46	60 6,617	40 5,829	20 782	3	3	64,557 60,418,384

* All other industries embrace-
Artificial limbs
Artificial stone products
Awnings, tents, and sails
Baking powders
Bookbinding and blank-book making.
Boot and shoe cut stock
Boot and shoe findings
Boots and shoes
Boxes, set-up paper boxes and cartons.

1	Brass and bronze products
ì	Brooms, from broom corn
ł	Butter
i	Carriages and wagons, including re-
i	pairs
	USIS SING PENERAL SHOP CONSTRUCTION
	and repairs by electric-railroad
ı	companies
٠	Cement
-	Chemicals

Gas machines and gas and water meters.
Glass, cutting, staining, and ornamenting.
Hand stamps.
Hats and caps, other than felt, straw, and wool.
Horseshoes, not made in steel works or rolling mills.

Box	es, set-up paper boxes and cartons. 1	Chem	icals			• • • • • • •	2	Gas and	i electric	e fixtu	res	• • • • • • •	2					
1	MINNEAPOLIS—All industries.	1,421	50, 760	1, 102	2, 399	6, 179	2, 926	38, 154	No 40	0, 293	Ja	35, 829	40, 649	31, 599	8, 885	136	29	239, 185, 093
2 3 4 5 6 7 8 9	Agricultural implements. Artificial limbs Artificial stone products Automobile bodies and parts Automobile repairing. Awnings, tents, and sails. Belting, leather. Bookbinding and blank-book making.	5 9 28 25 103 6 3 7	239 163 183 380 935 71 153 54	1 9 33 20 107 5	11 14 13 28 67 6 20 3	15 21 14 18 30 9 14	10 25 3 15 40 3 3	202 94 120 299 691 48 116 39	Se De ³ Oc Au Au Je De My	255 99 141 339 782 66 143 41	Ja Ap Fe Ja Ja Ja Ap Mh	• 167 88 86 238 581 35 101 36	208 99 143 345 682 48 143 39	208 77 143 335 680 24 85 22	22 10 2 24 24 2 16	56		971, 500 257, 581 489, 074 621; 343 1, 022, 687 247, 130 1, 561, 540 89, 781
10 11	Boots and shoes. Boxes, wooden packing, except cigar boxes.	4 9	167 203	7	17 12	19 6	7	124 175	Se Se	148 210	Ja Mh	75 146	138 186	44 186	94			473, 923 290, 680
12 13 14 15 16	Bread and other bakery products Brooms Butter Carpets, rag Cars and general shop construction and ropairs by steam-railroad	115 9 14 6 6	2, 190 61 232 24 5, 412	112 9 3 9	75 5 28 1 119	281 16 109	124 24 64	1, 598 47 161 14 5, 120	No My a	1,806 58 220 17 5,388	Fe Ja ⁸ Mh Mh No	1,406 42 115 3 4,866	1,808 58 159 14 4,877	1,045 56 144 12 4,807	753 2 15 2 70	7	3	4, 789, 764 90, 915 1, 312, 098 24, 227 6, 371, 849
17 18 19 20	companies. Chemicals. Clothing, men's Clothing, women's Suits, skirts, cloaks, shirt waists,	5 18 17 6	146 815 289 71	23 12 4	8 20 31 8	58 64 41 4	24 12 14 5	56 696 191 50	Jy Oc	62 783 .68	Mh Ja Ja	50 627 37	60 742 266 65	60 130 13 5	612 253 60			979, 686 1, 860, 390 611, 427 161, 566
21 22 23 24 25 26 27 28	All other Coffee, roasting and grinding. Confectionery and ice cream Confectionery Lee cream Cooperage. Copper, tin, and sheet-iron work Electrical machinery, apparatus, and supplies.	11 7 38 34 4 8 58 17	218 205 901 751 150 504 495 1, 182	8 6 37 35 2 3 64 7	23 22 39 31 8 22 25 51	37 38 102 94 8 10 25 150	9 27 45 33 12 8 20 76	141 112 678 558 120 461 361 898	No Jy Oc Jy De No De	204 136 730 162 488 433 957	Ja Oc Je Ja My Ja Ja	51 94 405 82 411 263 871	201 118 774 666 108 478 403 936	8 54 305 205 100 463 396 595	193 64 467 459 8 15 7 328	1 1	i	449, 861 1, 962, 163 2, 084, 293 1, 492, 796 591, 497 1, 326, 165 1, 416, 776 2, 314, 533
29 30 31	Engines, steam, gas, and water————————————————————————————————————	7 18 22	1, 135 6, 144 621	1 3 8	58 * 174 54	1,836 85	110 490 55	3,641 419	Mh No Oc	3,977 491	Se Mh Mh	395 3, 265 348	584 3, 967 479	3, 804 236	163 242	i		13, 783, 337 71, 998, 598 3, 331, 184
32 33 34 35	Foundry and machine-shop products. Boiler shops and foundries. Machine shops. Machine shop and foundry combined.	88 12 70 6	2, 808 698 1, 635 475	53 7 42 4	214 29 153 32	250 55 172 23	153 27 107 19	2, 138 580 1, 161 397	Oc De De	671 1,316 419	Je Ja Ja	421 1, 024 383	2,331 628 1,284 419	2,314 624 1,276 414	4			9, 148, 236 1, 917, 584 6, 311, 876 918, 776
36	Fur goods	21	805	22	31	84	26	192	No	245	Fe	152	206	81	125	J		1,020,905

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).

COURINED AND SPECIFIED INDUSTRIES: 1919—Continued.

			EXPE	ISES.		t - English star generalist og særtinn som som							POWER.			
Sale	aries and wa	iges.		Rent an	d taxes.	For mate	erials.				Prir	nary ho	rsepow	er.	,	Elec-
)ficials.	Clerks, ctc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal matorials.	Friel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed.2	tric horse- power gener- ated in estab- lish- ments report- ing.
	C	ITIES OF	50,000 I	NHABIT	ANTS OF	R MORE-A	LLL INDI	USTRIES (COMBINE) AND	SPECIF	IED II		rries.	:	
Dollars. 176, 588	Dollars. 1,510,880	Dollars. 15, 465, 074	Dollars. 238, 293	Dollars. 204, 344	Dollars. 1, 527, 744		Dollars. 7, 214, 080	Dollars, 75, 231, 387	Dollars. 32, 231, 933	89, 883	22, 855	432	28, 197		38, 399	27, 011
1,050 14,287 27,540 62,170	3, 619 9, 546 27, 948 11, 360	31, 746 93, 906 147, 246 598, 435	1,200	4, 260 12, 144 10, 673	1, 661 3, 462 6, 526	42, 614 47, 518 601, 899 327, 660	1, 626 4, 589 16, 746 66, 561	114, 218 214, 420 1, 022, 100 1, 066, 186	69, 978 162, 313 403, 461 671, 965	26 84 99 345					26 84 99 225	1.0
18, 915 22, 343 29, 536 127, 972 7, 700 17, 185 69, 130 70, 171	29, 880	36, 314 112, 770 191, 614 889, 806 21, 565 76, 180 576, 443 224, 782	61. 429	6,780 11,139	25, 930 21, 270 16, 291 343, 932 4, 029 6, 674 63, 800 14, 533	2, 014, 543 319, 206 380, 444 1, 604, 842 20, 300 234, 484 883, 100 846, 513	4, 658 7, 458 5, 058 56, 588 220 4, 906 7, 500 9, 521	2, 309, 660 682, 804 613, 482 4, 071, 297 85, 718 320, 429 2, 282, 944 1, 362, 405	200, 459 356, 140 227, 980 2, 409, 867 65, 198 81, 039 1, 392, 335 506, 371	167 76 247 2, 348 5 164 3, 352 858	160 2,800 305				167 76 247 2, 128 5 164 552 493	14
40.400	19, 573	153, 169 281, 119	'	27, 097 17, 042	5, 770 36, 470	232, 649 358, 952	3, 310 8, 437	659, 636 1, 462, 402		176 423	110				176 313	31
specific ce, manu ron and	4,501 927,685 mishing goodsteel, blast i	48, 854 11, 981, 125 ds, not else	where 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Looking Marble & Matches Mattress where Milliner	glass and post specified	105, 956 27, 794, 685 Dicture frame ork	es 2 3 2	Optical goo Patent and Paving mat Perfumery Photograph Roofing ma	iic apparatu terials	medicin css.	es 1 2 1	Stang	cases and ad thering	vertising and me	g novelti	and hot
64, 514 3, 360 , 592, 255 House fur specific ce, mant ron and mills ron and lime inten god iquors,	4,501 927,685 mishing good. infactured. steel, blast i steel, steel v steel, weldinded.	48, 854 11, 981, 120 ds, not else urmaces vorks and 1	where 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Looking Marble a Matches Mattress Where Milliner where Mineral Models paper	glass and particles and spread of sp	picture frame fork	2 2 2 2 1 t else 3 3 luding 1	Optical goo Patient and Paving mat Perfumery Photograph Roofing ma Saddlery ar Shipbuildir Shipbuildir only	dsproprietary proprietary orialsand cosmeti ic apparatu terialsd harness og, steel ng, wooden	medicines.		Show Signs Slaug Stean wat Stove Trun Wool	cases and ad thering n fittin ter heat s, gas a ks and en good	vertising and me ags and ing appeared oilvalises	g novelti at packi steam aratus	esngnd hot
64, 514 3, 360 , 592, 255 House fur specific ce, mant ron and mills ron and lime inten god iquors,	4,501 927,685 mishing good. d inactured steel, steel; steel; steel, steel; steel, steel; steel, steel;	48, 85-11, 981, 122 ds, not else urrances. vorks and r 41, 274, 91 153, 73 122, 64 168, 42, 656, 818 42, 656, 126 2 30, 84 1 104, 75	where 107,005 where 1 1 2 2 3 3 1,128,97 3 1,128,97 3 1,7 95:9 5 31,57 7 2,70 8 5,86	62,011 Looking Marble & Matches Mattress where Milliner where Milliner Models paper 1,917,727 1,917,727 1,917,727 2,832 23,916 10,204 11,244 13,278	963, 637 glass and j md stone w es and spr specified y and lace specified and soda w and patter putterns 9,713,638 8,736 6,967 4,910 17,707 13,004 12,002 33,758 430 12,666		SS	58, 768, 040 Optical goo Patent and Paving mat Perfumery Photograph Roofing ma Saddlery ar Shipbuildir only 401, 382, 975 574, 314 464, 361 590, 168 1, 277, 790 5, 388, 368 383, 444 1, 808, 535	23,956,983 10	81,511 medicin cs. repair 113,212 113,212 156 84 333 381 605 33 3120 26	408	Show Signs Slang Steam Wal Stove Trun Wool	casesand ad the tring in fitting in fitting in fitting in fitting ter heat say, gas a ks and ten good	vertisin, and me gand me gas and ding append oil. valises.	g novelti eat packi steam (aratus.	26, 812
64, 514 3, 360, 3, 592, 255 Louse-fut specified was periodic and mills. Ton and mills. Ton and hime. Linen go (1,000, 1), 10, 23, 3, 44, 367, 33, 44, 367, 33, 467, 11, 194, 30, 37, 77, 70, 98	4,501 927,685 mishing good. intetured. steel, steel	48, 854 11, 981, 121 ds, not else unnaces. vorts and 1 153, 73 122, 64 108, 42, 65 136, 122 174, 381 174, 263 1, 372, 21 161, 54 11, 44 161, 54 174, 61 174, 6	where 107,095 where 1 1,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Looking Marble 6 Matches Mattress where Milliner where Mineral Models paper 1,917,722 1 1,610 8 12,131 23,910 6 10,204 11,247 13,278 8 5,871 0 98,921 0 98,921 0 1,350 0 1,350 0 1,350 0 1,350 0 1,350 0 1	963, 637 glass and jund stone week and spread spre		1	58, 768, 040 Optical goo Patent and Paving mat Ferfumery Photograph Roofing ma Saddlery at Shi pbuildin only 401, 382, 975 574, 314 464, 361 500, 108 1, 275, 790 5, 388, 366 383, 444 760, 588 12, 404, 477 232, 577 4, 336, 455 34, 344 4, 364, 364	23,956,983 dis. proprietary orials proprietary 128,548,040 347,206 348,040 347,206 358,011 366,822 594,100 493,736 149,318 612,787 76,641 418,830 315,122 35,216,874 00,450 25,608 25,608 25,608 25,608 28,608 28,608 011 02 03 04 05 05 07 07 07 08 08 09	81,511 medicin cs. repair 113,212 158 84 333 381 605 26 43 502 1,759 4,053 1,053	400 400	Show Signs Stans Stans Stans Wad Stove Trun Wool	casesand ad the fitting in fit	vertising and me gs and ing append off. valises	g noveltisat packristeam (aratus	26, 812
64, 514 3, 3606 3, 502, 255 Touse-future for and mills ce, manurous and mills cinen goo. 1quors, 24, 433, 76; 24, 433, 76; 25, 431 10, 233, 76; 27, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	4, 501 927, 685 mishing goo d. factured factured steel, steel v. s	48, 854, 122, 11, 981, 122, 12, 13, 12, 13, 13, 122, 14, 168, 122, 144, 168, 123, 134, 134, 134, 134, 134, 134, 134, 13	where 107,095 where 1 1 2 2 3 3 1,128,97 3 1,128,97 7 2,79 8 5,86 7 2,70 8 5,86 7 1,50 8 5,86 7 2,70 8 7 2,70 8 7 2,70 8 7 2,70 8 7 2,70 8 7 2,70 8 5,86 7 2,70 8 2,20 9 3 3 3 3 3 3 3 3 57 7 7 8 8 5,86 7 2,70 8 2,70 8 2,70 8 3 5,86 7 2,70 8 5,86 7 2,70 8 5,86 7 2,70 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86 8 5,86	62,011 Looking Marble & Matches Mattress where Milliner where Milliner and Models 1,917,722 1,610 12,131 13,610 10,204 13,213 10,204 14,200 15,830 10,204 15,246 13,278 10,204 15,246 15,830 10,204 15,246 15,830 15,830 15,830 15,830 15,360 13,360 13,360 13,360 14,900 14,	963, 637 glass and j ind stone w ies and spr specified y and lace specified y and lace specified 0,713,638 0,713,638 0,713,638 12,666 0,682 0,982 0		2 t else- 1 t else- 3 luding 1 , 787, 354 7, 192 3, 104 13, 390 17, 541 46, 332 1, 300 6, 584 1, 179 2, 244 11, 466 179, 629 1, 904 42, 703 1, 281 314, 444	58, 768, 040 Optical goo Patent and Paving mat Perfumery Photograph Roofing ma Saddlery ar Shipbuildir Shipbuildir Shipbuildir 574, 314 464, 361 590, 168 1, 275, 388, 366 383, 444 769, 588 12, 404, 478 232, 577 4, 336, 455 12, 498, 386	23,956,983 13,956,983 15,956,983 16,956,983 128,548,940 128,548,940 128,548,940 128,548,940 128,548,940 149,318,100,449,318,100,449,318,100,450,100,450 148,830 15,216,874 16,516,930 17,200,042 17,200,042 18,830 19,356,936	medicin- cs. , repair 113, 212 156 84 333 381 605 605 43 502 1,769 44 1,058 44 3,570	408	Show Signs Stand Stand Wall Stove Trun Wool	casosand ad the fitting in fit	vertisin and mags and mags and ing appeared oil. valises.	g noveltiat packir steam i ratus	26, 812 26, 812 3, 700
64, 514 3, 360, 522, 555 Touse-future for and mills intension and mills intension and mills intension and lime intension	4,501 927,685 mishing good. infactured infactured infactured steel, steel is stee	48, 855, 11, 981, 122 ds, not else urnaces. vorks and 1 125, 41, 274, 91 125, 46, 165, 42, 331, 878, 124, 65, 64, 174, 36, 174, 36, 174, 374, 174, 375, 174, 475, 175, 175, 175, 175, 175, 175, 175, 1	where 1 1 2 2 3 3 1,128,97 3 3 1,128,97 7 2,79 8 5,86 7 2 2,0 2 2 2 2 2 2 3 3 5,12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	62,011 Looking Marble & Matches Mattress where Milliner where Milliner and Models 1,917,722 1,619 1,917,723 1,619 1,917,723 1,619 1,917,723 1,619 1,917,723 1,619 1,917,723 1,619 1,917,723 1,619 1,917,723 1,619 1,917,723 1,619 1,917,723 1,619 1,917,723 1,350 1,	963, 637 glass and j ind stone v es and spr specified y and lace specified and soda v and patterns 9,713, 638 8,736 6,967 4,910 17,707 13,004 12,002 33,758 6,967 4,703 110 12,668 34,763 110 12,668 34,763 110 12,668 34,763 110 12,668 37,585 110 12,668 38,758 110 12,668 38,758 38,758 39,585 310 12,668 310 12,66		CS	58, 768, 040 Optical goo Patent and Paving mat Perfumery Photograph Roofing ma Saddlery at Shipbuildir only 401, 382, 975 774, 314 464, 361 500, 168 1, 275, 790 6, 388, 306 383, 444 1, 808, 535 96, 788 694, 014 769, 583 12, 404, 478 232, 577 4, 336, 455 12, 498, 384 723, 70 3, 259, 084 806, 12 249, 836 556, 29 249, 836 1, 248, 382 1, 382, 11 1, 431, 30 2, 482, 12 1, 382, 15 1, 431, 30 2, 889, 11 1, 431, 30 2, 889, 11 1, 431, 30 2, 889, 11 1, 431, 30 2, 889, 11 1, 431, 30 2, 889, 11 1, 431, 30 2, 889, 11 1, 431, 30 2, 889, 11 1, 431, 30 2, 889, 12 1, 382, 15	23,956,983 dis	medicin- cs. , repair 113, 212 156 84 333 381 605 120 26 1, 769 1, 053 166 3, 570 166 49 1, 287	408	Show Bigns Stang Steam Wad Stove Trun Wool	cases and ad thering n fittin ter heat ss, gas a ks and den good 388 100 344 8 00 900	vertisin and me gs and ing append off. valises.	g noveltiat packi steam i rratus	26, 812 26, 812 3, 700 10 29 20
64, 514 3, 3606 5, 592, 255 6 Touse-future for and mills 24, 436, 43, 76, 72, 72, 73, 76, 76, 76, 76, 76, 76, 76, 76, 76, 76	4,501 927,685 mishing good. inctured. inctured. steel, ste	48, 85-11, 981, 122 ds, not else urnaces. vorks and 1 41, 274, 91 113, 373 122, 64 168, 42 331, 87 124, 65 136, 92 137 144, 333 1, 372 185 161, 36 174, 38 1, 372 185 187 197 198 198 198 198 198 198 198 198 198 198	where 107,095 where 1 1,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	62,011 Looking Marble & Matches Mattress where Milliner where Milliner where Milliner 1,610 1,917,727 1,610 12,113 13,275 13,275 13,275 14,900	963, 637 glass and jund stone west and spr specified 9 and lase specified and patter putterns 9,713,638 8,736 6,967 4,910 17,707 13,004 12,002 33,768 6,968 9,682 6,968 6,		1 28 2 2 4 787 354 1 1 3 3 1 3 3	58, 768, 040 Optical goo Patent and Paving mat Perfumery Photograph Roofing ma Saddlery ar Shipbuildir Shipbuildir Shipbuildir 500, 108 1, 275, 74, 314 464, 361 500, 108 1, 275, 709 5, 388, 366 383, 444 1, 808, 535 604, 014 4769, 588 12, 404, 478 232, 577 4, 336, 455 12, 408, 384 723, 701 3, 259, 081 806, 122 249, 836 12, 481, 391 249, 836 12, 481, 391 249, 836 12, 481, 391 249, 836 12, 481, 391 249, 836 12, 481, 391 249, 836 13, 481, 391 249, 836 14, 470, 81 14, 480, 81 16, 989, 31 17, 989, 31 17, 989, 31 17, 989, 31 17, 989, 31 17, 989, 31 17, 989, 31 17, 980, 606, 989, 31 17, 980, 606, 989, 31 17, 980, 606, 989, 31 17, 980, 606, 989, 31 17, 980, 606, 989, 31 17, 980, 606, 989, 31 17, 980, 606, 989, 31 17, 980, 606, 989, 31 17, 980, 606, 989, 31 17, 980, 980, 31 17, 980, 980, 31 17, 980, 980, 31 17, 980, 980, 31 17, 980, 980, 31 17, 980, 980, 31 17, 980, 980, 31 17, 980, 980, 31 17, 980, 980, 980, 980, 980, 980, 980, 980	23,956,983 23,956,983 318	81,511 medicin-	40 41, 325 40 222 40 231 2 2 2 2 2 2 2 2 2	Show Signs Signs Signs Stand Water Store Trun Wool 15, 205 55 55 55 55 55 55 55	casesand and adhering fitting fitti	vertisin and megs and ing apple of oil. valises.	g noveltiat packit steam in the	26, 812 26, 812 3, 700 10 29 29 29 29 29 3, 700

³ Same number reported for one or more other months.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERS	ONS EN	GAGED	IN THE	industry.		WAC NEAR	E EARI	TERS DI RESENT	EC. 15,	OR DAY.	
				Sala-	Clerks	, etc.		Wage earne	ors.		16 and	l over.	Und	er 16.	
INDUSTRY AND CITY.	Num- ber of estab- lish- ments	Total.	Pro- prie- tors and firm mem- bers.	ried offi- cers, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.	Number, 18 Maximum month.	Minimum month.	Total.	Male.	Fo- male.	Male	Fe- male.	Capital.

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

1 2	MINNEAPOLIS—Con. Furniture. Wood, including rattan and willow furniture.	29 21	1,088 965	21 12	60 53	34 33	28 23	945 844	De	1,060	Ja	641	1,189 1,076	1,123 1,010	65 65	1 1		Dollars, 2,537,801 2,317,227
3	Metal furniture and store and office fixtures.	8	123	9	7	1	5	101	No	119	Ja	62	113	113		•••••		220, 574
5	Hand stamps. Hats and caps, other than felt, straw, and wool.	6	47 76	8 11	3	5	7 3	29 54	De Se 3	35 5 6	Ja De	22 52	35 55	19 38	17		•••••	73, 122 191, 974
6 7 8 9	Ink, writing Jewelry. Looking-glass and picture frames Lumber, planing-mill products, not including planing mills connected	3 13 9 24	9 150 65 1,268	18 7 8	4 3 8 67	9 6 91	1 13 9 32	107 35 1,070	Jy De Oc	113 47 1,395	(5) Fe My Ja	4 98 31 718	111 42 1,307	103 39 1,289	2 7 2 18	1 1		7, 583 215, 547 215, 490 4, 520, 441
10 11	Marble and stone work	3 13	59 124	_{ii} .	7	4 10	1 3	47 92	Jу	77	De	18	47 95	47 95			••••	1,899,887 186,223
10 11 12 13 14	All other, except slate	8 5 5	23 101 424	9 2 6	 8 31	1 9 36	1 2 30	12 80 321	Au ³ Jy Au	16 106 379	ја ³ Ја ⁸ Ја	8 39 234	15 80 361	15 80 311	50			29,460 156,763 1,891,351
15	where specified. Millinery and lace goods, not elsewhere specified.	13	193	12	16	5	14	146	De	182	Ју	93	164	13	150	· · · · · ·	1	187, 570
16 17	Mineral and carbonated waters Models and patterns, not including paper patterns.	16 9	92 56	16 11	14	13	4	45 44	Jy De	71 49	De Se	33 41	41 48	41 48				327, 957 36, 032
18	Musical instruments and materials,	3	6	3	••••		•••••	3	(1)	3	(1)	3	3	3	••••			3, 240
19 20 21 22 23	Oil, linseed Optical goods Paints Patent medicines and compounds Patent and proprietary medi-	3 5 6 22 12	447 100 155 428 274	2 12 9	12 10 18 42 19	39 22 50 107 83	27 17 15 82 65	369 51 70 185 98	Jy Jy Oc	428 51 80	My (†) No Au	329 51 54 85	371 51 63 187 105	365 51 47 80 42		3 1		9, 379, 483 225, 361 1, 515, 847 1, 220, 684 807, 588
24	cines. Patent and proprietary compounds, not elsewhere specified.	10	154	3	23	24	17	87	Jу	110	Jа	64	82	38	40	2	2	413,096
25 23 27 28	Paying materials Perfumery and cosmetics Photo-engraving Printing and publishing, book and	3 13 7 130	72 152 •295 1,801	6 4 106	5 6 14 115	5 113 26 125	6 20 122	62 21 231 1,333	Jy Se De	99 28 235	Ja i Fe Ja	22 17 226	90 26 235 1,455	90 13 203 1,068	13 32 365	20	2	410, 149 98, 575 1, 218, 646 3, 398, 530
29 30	job. Job printing. Book publishing without print- ing, linotype work and type- setting.	123 7	1,704 97	100 6	108 7	119 6	115 7	1,262 71	De Je	1,377 74	Ja Ja	1,201 67	1,384 71	1,008 60	354 11	20	2	3, 221, 093 177, 437
31	Printing and publishing, newspapers	79	1,686	45	127	496	259	759					789	690	87	8	4	6, 637, 744
32 33	Printing and publishing Printing, publishing, and job printing.	7 17	660 797	$\frac{2}{12}$	34 39	181 250	86 108	357 388	No No	$\frac{375}{430}$	Se Jy	346 371	359 412	310 ·377	49 28	7		3,718,323 2,723,343
34 35 36	Publishing without printing Saddlery and harness.	1 14 1	229 191 81	31 16	54 11 9	65 21 22	65 6 2	14 137 48	De My	14 159 54	(4) Ja Jv	14 91 37	18 160 51	3 158 10	10 1 40	1 1 1	4	196, 078 335, 478 120, 920
37 38 39	Signs and advertising novelties Stoves and hot-air furnaces Structural ironwork, not made in steel works or rolling mills.	20 4 11	360 36 2,644	13 3 8	20 2 57	9 5 421	14 1 102	304 25 2,056	No Se De	407 39 2, 296	Jy Ja Ja Je	143 16 1,656	393 36 2,301	143 36 2,286	250 15			389, 389 62, 517 12, 380, 554
40 41 42	Steel works or rolling mills. Tobacco, cigars. Trunks and valises. All other industries*	32 8 235	253 67 12,318	31 7 153	18 8 534	9 2 827	2 2 721	193 48 10,083	No 8	211 60	Fe Ja	181 33	212 59 10,377	111 53 6,121	98 5 4,224	3 1 17	15	259,146 102,014 58,684,053

*All other industries embrace-	
Ammunition	1
Asbestos products, not includir	ıg
steam packing	1
Automobiles	2
Babbitt and type metal	3
Bags, other than paper, not inclu-	d-
ing bags made in textile mills	2
Baking powders	1
Baskets, and rattan and willow war	e. 1
Blacking, stains, and dressings	
Bluing	
Boxes, cigar	ī
Boxes, set-up paper box sand carto	
Brass and bronze products	ns 6
Brick, building and fire	. 3
Brushes.	5
DIMONOD	4

Carriages and sleds, children's Carriages and wagons, including re-	2
pairs. Cars and general shop construction and repairs by electric-railroad	8
companies. Cheese. Cleansing and polishing preparations.	1
Coal-tar products	2
Condensed milk Cordials and flavoring sirups Corsets	1
Cutlery and edge tools Dairymen's, poultrymen's, and api- arists' supplies	2

Dental goods	•
	6
Drug grinding	1
Druggiotel propagations	ñ
Druggists' preparations	3
Dyeing and finishing textiles, exclu-	
sive of that done in textile mills	ò
are of that done in textile inins.	2
Electroplating	5
Engraving and diesinking	2
migraving and diesmking	Z
Engraving, steel and copper plate,	
including plate printing	6
Thoracing plate printing	
Envelopes	2
Fancy articles, not elsewhere speci-	
fled	4
Fire extinguishers, chemical	1
Flags and banners	÷
	1
Flavoring extracts	2
Furnishing goods, men's, neckwear	7
Turmsming goods, men s, neckwear	1
Furs, dressed	1
,	_
manufacture of the second	

1		
	Gas and electric fixtures. Gas, illuminating and heating	1 7231 1 1817

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.

			EXPE	nses.					. POWER.							
Salaries and wages.				Rent ar	nd taxes.	For mat	terials.			Primary horsepower.						Elec-
						-		Value of products.	Value added by			Owr	ied.		trie horse	tric horse- power
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	*	ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	gener- ated in estab- lish- ments report- ing.

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

		•															
Dollars. 271,900 221,087	Dollars. 99,851 91,983	Dollars. 1,011,688 886,385	Dollars. 1, 203 953	Dollars. 33, 716 28, 267	Dollars. 81, 881 78, 696	Dollars. 1, 958, 365 1, 826, 774	Dollars. 41,467 34,020	Dollars. 4, 196, 167 3, 844, 178	Dollars. 2, 196, 335 1, 983, 384	1,443 1,234	860 785			•••••	583 449	25 25	1 2
50, 813	7,868	125, 303	250	5, 449	3, 185	131,591	7,447	351,989	212, 951	209	75		<mark> </mark>		134	• • • • • • •	3
10,000 5,000	5, 920 10, 593	30, 288 53, 418		8, 287 6, 123	710 227	36,947 147,280	1,303 738	124, 716 254, 648	86, 466 106, 630	. 21 8	l.		ŧ		21 8		4 5
5,240 8,400 18,147 155,787	600 14,328 18,681 164,248	3, 231 122, 659 37, 289 1, 268, 097	3, 135	920 9, 104 10, 433 5, 471	75 1,645 3,018 85,322	7, 623 217, 497 164, 900 2, 863, 610	386 1,366 1,808 44,585	27, 545 512, 615 304, 358 5, 420, 155	19, 536 293, 752 137, 650 2, 511, 960	36 36 3,630	2,885		'		36 36 725	92	6 7 8 9
30,600 26,075 26,075 98,620	7,015 17,368 786 16,582 113,061	67, 984 119, 970 14, 465 105, 505 327, 334	3,966 3,966	2,083 1,090 993 4,065	23, 593 2, 314 186 2, 128 22, 535	347, 887 157, 565 25, 605 131, 9.0 1, 814, 804	74, 149 12, 682 1, 001 11, 681 26, 071	618, 112 478, 531 70, 535 407, 996 2, 846, 993	196, 076 308, 284 43, 929 264, 355 1, 006, 118	1,732 988 52 936 1,369	1, 282 65 65 375		10 10		450 918 42 871 994	1,048	10 11 12 13 14
28,768	19, 491	102, 240		10, 405	2,375	243, 903	1,909	501, 570	255, 758	49	 		• • • • • •	·····	49		15
24,313	18, 289 97	54,789 66,154		5, 093 3, 368	21,691 250	180, 160 18, 696	3, 113 1, 733	336, 163 140, 022	152, 890 119, 593	56 47			6		50 47		16 17
		3,914		905	76	926	115	9, 981	8, 940	5			. 		5		18
270,916 26,219 53,398 158,663 75,800	85,772 38,147 101,513 267,766 221,377	491, 017 55, 866 77, 619 132, 217 83, 761	1,659 1,965 145	11, 150 5, 209 25, 016 16, 500	111,608 10,375 145,416 194,138 184,273	22,017,606 215,984 1,007,962 1,003,507 539,431	134, 924 970 9, 780 8, 368 4, 549	25, 044, 475 448, 100 1, 593, 043 2, 388, 819 1, 611, 401	2, 891, 945 231, 146 575, 301 1, 376, 944 1, 067, 421	3,222 23 223 111 71			7		223		19 20 21 22 23
82,863	46, 389	48,456	1,820	8, 516	9, 865	464,076	3,819	777,418	309, 523	40					33		24
19,480 10,643 54,514 314,202	8, 452 9, 378 59, 631 250, 540	62,079 16,692 232,965 1,442,001	23,557 1,964 1,261 123,292	4, 352 6, 021 13, 995 145, 749	115, 910 2, 704 5, 377 57, 059	58,700 93,517 200,083 2,208,878	18,178 1,012 2,672 54,029	254,699 165,254 627,313 5,816,417	177, 821 73, 725 424, 558 3, 553, 510	1,209 7 54 1,254	274		······2		$\begin{array}{c} 925 \\ 7 \\ 54 \\ 1,252 \end{array}$	7	25 26 27 28
305, 438 8, 764	231, 425 19, 115	1,340,629 101,372	110, 417 12, 875	137, 406 8, 343	56, 303 747	2, 189, 735 19, 143	47,351 6,678	5, 578, 018 - 238 , 39 9	3, 340, 932 212, 578	1,242 12			2		1, 240 12	7	29 30
393, 450	878, 492	952,831	317, 867	76, 053	179, 995	2, 398, 882	52,961	7, 477, 616	5, 025, 773	1,451	150				1,301		31
149, 122 153, 102	327, 443 429, 357	382, 370 561, 424	29, 581 18, 187	32, 356 30, 379	136,091 42,668	1, 213, 465 - 1, 130, 356	24, 397 28, 544	3, 042, 720 3, 624, 396	1, 804, 858 2, 465, 496	501 950					501 800		l
91, 226 33, 800 16, 220 80, 813 1, 139 225, 856	121,692 89,388 35,450 21,712 4,167 700,869	9,037 158,812 38,108 247,461 39,204 2,894,521	270, 099 7, 623 65, 724	13, 318 12, 936 3, 720 15, 942 1, 770 444	1, 236 16, 382 2, 631 10, 091 851 91, 695	55, 061 867, 859 105, 692 287, 620 65, 297 5, 178, 808	20 3, 959 664 5, 222 1, 013 158, 121	\$10,500 1,287,034 260,258 893,478 236,287 9,439,820	755, 419 415, 216 153, 902 600, 636 169, 977 4, 102, 891	83 11 78 31 8,777	2,070	5			83 11 73 31 8,692	1,513	34 35 36 37 38 39
40.684 15,356 2,113,863	18,695 2,978 2,028,636	164, 295 59, 415 8, 894, 728	300) 100, 081	6, 884 9, 871 220, 541	81,564 2,722 1,327,605	258, 204 167, 313 63, 742, 763	2,818 2,248 1,916,007	651, 869 309, 230 96, 740, 421	393, 847 139, 669 31, 081, 651	33 53 19, 368	11,663	731	114	330	33 53 6,5.7	3,539	40 41 42

Labels and tags
Lapidary work. Leather goods, not elsewhere specified
Last how could not clear house energied
researcher Equip' not eigewhere sheer en
Liquors, malt
Lith graphing
Lumber and timber products
Machine tools
Mirrors, framed and unframed, not
elsewhere specified
Mucilage and paste
Oil, composite
Oleomargarine and other butter sub-
stitutes
Paper and wood pulp
Petroleum, refining
Turio culti, torring
Phonographs and graphophones
Photographic apparatus.
- U A A A

1	Photographic materials	5 5
í	Poultry, killing and dressing, not done in simplifiering and meat-	
i	packing establishments	8
Š	Printing materials	2
1	Pulp goods. Panins, not including power pumps.	1
1	Rubber tires, tabes, and rubber	_
	goods, not elsewhere specified Sand-line brick	3
	Sausage, not made in shaightering	1
	and meat-nacking establishments.	4
	Shipbuilding, wowlen, including boat bailding.	1
-	Show cases.	3
1	Soap	ì

5	Soda-water apparatus
,	Springs, steel, automobile
- 1	Springs, seed, automome
. 1	Statusry and art goods
3	Steam firtings and steam and hot-
}	water heating apparatus
2	Steel barrels, drums, and tanks 1
	Stere appling and electrotyping
!	Stoves, gas and oil.
ì	Surgical amplications
1	Suspenders, garters, and elastic woven
	goods
H	Theatrical scenery
٠,	Tin place and ternsplate
1	Tinware, not elsewhere specified 1
1	Tobacco, smoking
' }	Tools, machinisis
٠.	1 (20)2D, 111.1U481131310 ****************

	-
Toys and games. Upholstering materials, excelsior Varnishes	. 2
Vinegar. Wheelbarrows Window and door screen sand weather	1
strips. Window shades and fixtures. Wirework, including woven-wire fenc-	3 4
ing not elsewhere specified. Wooden goods, not elsewhere speci- fied.	2
Woolen goods	1

Same number reported for one or more other months.
 Same number reported throughout the year.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

		 	PERS	ONS EN	GAGED	IN THE	industry.		WAG NEARI	E EARN EST REP	ERS DE RESENT	C. 15,	OR DAY,	
			Sala-	Clerks	e, etc.		Wage earne	ers.		16 and	l over.	Und	er 16.	
INDUSTRY AND CITY,	Num- ber of estab- lish- ments	and firm mem- bers.	ried offi- cers, super- in- tend- ents,	Male.	Fc- male,	Average number.	Number, 18 Maximum month.	Minimum month,	Total.	Male.	Fe- male.	Male.	Fe- male,	Capital

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

, <u>-</u>	CITIES OF 50,000 INHA	DITAL	ALO GIN	MOR	P	717 17/1	7081	STES CO	NIBI	E CIRIN	IND :	SPECIA	1 1211	NDUSI	RIES-	-Conti	nucd.	
1	ST. PAUL—All industries		29,068	673	1,522	2,534	1,690	22,649	No	24,165	Ja	21,518	23,985	17,593	6,352	31	9	Dollars. 110,561,035
2 3 4 5 6 7 8	Artificial stone products Automobile bodies and parts Automobile repairing Awnings, tents, and sails Bookbinding and blank-book making Boots and shoes Boxes, wooden packing, except cigar boxes.	11 11 66 5 7 6 7	75 122 400 29 83 1,452 339	10 10 76 7 8 4 5	5 14 24 24 1 39 22	2 6 19 1 1 154 8	1 2 13 2 1 64 2	57 90 268 19 72 1,191 302	Jy Oc Jy My Au No Au	73 107 294 26 77 1,297 336	De Fe Ja ³ Ja ⁵ Se ⁸ Mh Ja	29 73 224 14 70 1,118 270	65 100 278 27 77 77 1,255 302	65 97 277 16 29 749 277	3 1 11 48 506 6	19		143,303 263,909 410,979 57,058 73,238 7,089,540 1,149,793
9 10 11 12 13	Brass, bronze, and copper products. Bread and other bakery products. Brooms. Butter. Carriages and wagons, including repairs.	6 68 7 11 8	181 1,040 35 250 324	3 62 9 4 5	10 58 24 15	6 97 1 35 10	78 1 58 5	158 745 24 129 280	De De Oc \$ Je \$ Oc	189 795 28 150 321	Jy Mh Ap Fe Je	142 707 22 111 261	196 782 28 123 320	184 469 26 102 316	12 313 21 4	2		597,729 2,153,594 43,616 1,461,002 1,183,446
14	Cars and general shop construction and repairs by steam-railroad com- panies.	12	4,208		88	68	36	4,016	Ja	4,154	Λu	3,722	4,028	3,922	108	···		9,080,355
15 16 17 18 19 20	Clothing, men's. Confectionery and ice cream Copper, tin, and sheet-iron work Envelopes. Flour-mill and gristmill products. Food preparations, not elsewhere specified.	10	557 674 240 99 145 234	6 12 21 2 2	16 20 24 5 10 22	32 54 16 3 20 19	19 23 11 3 10 14	484 565 168 80 105 173	De No Au Oc De Oc	664 736 223 114 113 191	Mh Fe Fe Fe Ja My Ja	360 468 98 32 96 157	651 675 202 90 130 109	93 190 202 23 130 111	558 485 67			816,349 1,857,070 519,647 152,864 1,633,757 1,624,029
21 22 23 24 25 26	Foundry and machine-shop products Boiler shops and foundries. All other. Fur goods. Furniture. Wood. including retten and	26 12 16	2,503 620 1,883 954 233 116	28 7 21 10 14 6	104 20 84 34 15 6	122 34 88 206 10 4	71 10 61 75 9 4	2,178 549 1,629 629 185 96	De Ja De	713 1,840 745	Mh Je Fe	399 1,440 551	2,252 708 1,544 678 205 103	2,207 667 1,540 264 193 91	44 41 3 413 8 8	1 1 1 4 4		7,584,917 1,675,078 5,909,839 3,270,713 603,596 296,025
27 28 29 30	willow Store and office fixtures. Gas and electric fixtures. Knit goods. Leather goods, not elsewhere specified.	9 3 3 6	117 33 20 555	8 4	9 4 23	6 4 2 58	5 1 19	89 24 14 455	No (1) Jy No	103 24 17 551	Fe (4) Mh Ap	77 24 11 394	102 24 16 461	102 18 5 171	11 29J	 		307,571 72,307 87,323 1,506,577
31	Lumber, planing-mill products, not including planing mills connected with sawmills.	12	479	16	31	45	31	356	Je	448	Ja	266	372	37 0	2	 		1,804,008
32 33 34 35 36 37 38	Marble and stone work Monuments and tombstones. All other, except slate. Mineral and soda waters. Patent medicines and compounds. Patent and proprietary medicines Patent and proprietary compounds, not elsewhere specified.	17	151 31 120 70 158 146 12	8 6 2 6 10 7 3	18 5 13 11 24 22 2	11 2 9 17 35 35	4 2 2 7 28 26 2	110 16 94 29 61 56	My Oc Jy Au Au	122 45 67	Ja ³ Fe Ja ² Ja ³	13 68 21 46 5	127 15 112 26 57 52 5	126 15 111 24 29 24 5	1 1 2 28 28			391,686 104,070 287,616 173,559 630,012 612,061 17,951
39 40	Printing and publishing, book and job. Joh printing	82 74	2,091 1,199	90 84	145	213	279	1,364				••••••	1,423	828	594	1	 .	6,149,088
41 42	Job printing Book printing and publishing, linotype work and typesetting. Printing and publishing, newspapers	8	892	6	94 51	76 137	76 203	869 495	No De	910 558	Ja Fe	818 467	864 559	575 253	288 306			2,502,182 3,646,906
43	and periodicals. Printing, publishing, and job printing.	48 16	1,434 1,290	22 8	89 66	195 174	256 188	872 854	De	884	Ja	829	901 878	656 641	245 237			2,561,045 2,426,561
44 45	Publishing without printing	32 6	144 37	14 7	23 3	21 4	68	18 21	De Je 3	23 22	Fe 3	17 20	23 21	15 21	8			134, 484 27, 256
46	and meat-packing establishments. Structural ironwork, not made in steel works or rolling mills.	7	136	2	9	6	4	115	De	148	Je.	83	141	139	2	 		442,687
47 48	Tobacco, cigars	34 226	429 9,298	31 175	12 603	21 1,033	550	358 6,937	Ap	372	Ју	338	364 7,389	177 5,087	187 2,290	3	9	639, 254 54, 505, 731

* All other industries embrace— Agricultural implements Artificial limbs
Artificial limbs
Automobiles
Bags, other than paper, not including bags made in textile mills
Billiard tables and accessories
Blacking, stains, and dressings Boot and shoe cut stock
Boxes, cigar
Boxes, set-up paper boxes and cartons
Brick
Brushes, paint and varnishButtons.
Carpets, rag
Carpets, rag

Cars and general shop construction	
Cars and general shop construction	
and repairs by electric-railroad	
companies	
Chemicals	•
Cleansing preparations	
CIOEDING, WOMAN'S	:
Coffee, roasting and grinding	
Comms, Durier cases, and undertakers'	1
goods	•
Cooperage	
Cordage and twine.	
Cordials and flavoring siruns	
Cutlery and edge tools	٠
Cutlery and edge tools. Dairymen's, poultrymen's, and api-	
arists' supplies	,
Dental goods	•

			ļ
	Developed		
ı	Druggists' preparations	2	١
	Dyeing and finishing textiles, ex-		ĺ
	clusive of that done in textile mills	1	ĺ
	Electrical machinery, apparatus, and		l
	Supplies	2	l
	Electroplating	$\tilde{2}$	l
	Ellelines, steam, gas, and water	$\tilde{2}$	ļ
	Engraving and diesinking.	3	ļ
	Engraving, steel and copper plate,	o	ì
	including plate printing.	-	l
	Engraving mond	Ţ	l
	Engraving, wood	1	l
	Flags and banners	1	Į
		3	ł
	Gas, illuminating and heating.	2	l
	Glass, cutting, staining, and orno-		l
	menting	ß	ı

5,087	2,290	3	9	54, 505, 651
not fi Hair w Hand s Hats a and Hats, w House- wher Ice, ma Ink, pr Instrum Jewelry Lead, i Liquor	nd silver, rom the coork	other to the decidence of the decidence	han fe	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

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

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

			EXPE	NSES.									POWER	.,		
Sal	aries and wa	ages.		Rent ar	nd taxes.	For ma	terials.				Pri	mary ho	orsepow	er.		Elec-
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent-ed.2	tric horse- power gener- ated in estab- lish- ments report- ing.
	CITIE	S OF 50,00	0 INHAI	BITANT	S OR MO	RE—ALL 1	INDUSTR	IES COMBI	NED ANI	SPECI	FIED I	NDUST	<u></u>	-Conti	ued.]
Dollars. , 534, 4 16	Dollars.	Dollars. 24,449,322	Dollars. 672, 181	Dollars.	Dollars. 4,740,660	Dollars.	Dollars. 1,903,379	Dollars.	Dollars. 64,467,830	40,845	18,934	1,733	284		19,894	13,965
9,038 20,645 38,399 2,100 189,634 80,414 25,480	- 3,225 7,124 27,264 3,749 1,778 364,684 8,514	75,013 86,043 366,885 16,265 55,242 1,164,383 279,248	11,900	504 7,064 53,662 2,400 3,812 26,785 2,250	1,707 3,628 7,057 230 1,085 168,649 25,721 12,988	68,381 123,943 347,440 49,654 45,059 4,843,287 813,985 297,197	3,806 7,067 19,093 705 1,358 33,759 15,885	180,122 335,224 990,300 105,820 126,039 7,776,683 1,429,361 626,966	107, 935 204, 214 623, 767 55, 461 79, 622 2, 899, 637 599, 491 308, 123	97 183 207 11 21 1,308 1,091					70 183 205 11 21 1,308 300	40
78,004 33,417 241,379	194,641 2,100 86,799 31,585 110,935	168, 495 595, 723 29, 061 145, 815 312, 907 5, 247, 804	1,900 295	2,700 73,633 1,344 12,502 4,595	46,455 170 35,315 45,581	297, 197 3,629, 744 79,908 7,916,309 682,205 2,291,856	82,936 472 39,654 17,968 223,910	5,599,146 133,656 9,038,459 1,378,738 8,068,846	1, \$86, 466 53, 276 1, 082, 496 678, 565 5, 553, 080	815 21 928 605 2,471	370 615 500 2,444				445 19 313 105	247 411 565 4,225
44 289 65,584 45,026 10,735 36,725 67,048	48, 498 172, 181 12, 398 8, 575 36, 201 42, 007	349,429 381,756 199,449 54,315 120,026 146,503	2,421 600 4,038 36,000	13,577 39,683 7,285 8,066 5,200 14,806	27,669 201,135 8,487 2,505 28,871 147,530	1,077,146 1,912,035 375,039 108,431 6,135,047 3,721,722	6,027 30,830 6,202 1,738 39,736 32,348	1,821,916 3,481,190 793,219 208,116 6,589,872 5,073,392	738,743 1,538,325 411,978 97,947 415,089 1,319,322	356 537 121 55 1,191 498	224 215 125 114		2		132 322 119 55 1,066 384	22 55
325,309 86,231 239,078 190,673 49,358 28,790	350, 267 48, 950 301, 317 364, 446 37, 328 15, 372	2,701,645 778,950 1,922,695 797,085 213,921 96,784	16 16 4,203 100	16,452 2,400 14,052 74,716 11,140 9,700	310,810 192,820 117,990 275,993 10,143 4,552 5,591	3,521,273 1,290,355 2,230,918 4,473,596 330,524 147,986 182,538	311,298 184,316 126,982 15,503 12,219 5,416 6,803	12,079,703 3,479,343 8,600,360 6,581,868 802,031 383,811	8, 247, 132 2, 004, 672 6, 242, 460 2, 092, 769 459, 288 230, 409 228, 879	3,399 1,178 2,221 441 306 180	710 225 485 100 100		10		1,346 953 393 441 206 30	4,150 4,150 1 1
20,568 5,325 157,290 80,141	21,956 3,801 1,000 132,607 284,486	117,137 23,898 12,536 458,341 355,976	4,860	1,440 3,544 500 14,554 8,233	79,805 35,006	52,937 52,977 88,299 1,893,731 1,413,623	965 723 6,467 26,598	418, 220 120, 958 125, 752 3, 070, 485 2, 506, 654	67,016 36,725 1,170,287 1,066,433	20 7 109 2,194	1,120	•••••			7 7 109 1,074	17
32,457 7,810 24,647 18,555 81,695 74,495 7,200	11,036 4,830 6,206 27,326 94,357 92,758 1,599	143,573 21,893 121,680 27,604 51,613 43,661 7,952	16,000 16,000 7,884 7,884	9,714 1,596 8,118 4,853 7,367 6,227 1,140	5,976 1,059 4,917 25,996 32,153 31,896 257	211, 258 48, 034 163, 224 116, 208 253, 914 240, 437 13, 477	16,571 1,551 15,020 3,223 3,854 3,742 112	550,622 117,340 433,282 269,218 948,593 909,598 38,995	322,793 67,755 255,038 149,787 690,825 665,419 25,406	930 76 854 61 151 145 6	95 95 6				832 73 759 50 145 145	
429, 854 268, 028 161, 826 337, 342	272,014	1,333,944 860,798 473,146 1,083,311	235, 414 55, 758 237, 959	71,298 60,472 10,826 73,548 62,348	144, 663 55, 882 88, 781 134, 667 130, 394	1,541,928 1,327,971 213,957 1,784,582 1,704,966	49, 492 36, 005 13, 487 33, 010 32, 937	5,824,289 3,761,636 2,062,653 6,579,475 5,978,593	4,232,869 2,397,660 1,835,209. 4,761,883 4,240,690	1,389 1,087 302 677	100				1,289 987 302 677 675	1
275,368 61,974 2,000 24,177 27,792	231, 527 40, 487 3, 000 8, 505 62, 379	1,062,658 20,653 26,551 140,181 289,348	55, 242 182, 717 7, 639 421	11,200 1,800 2,362 14,039	4, 273 676 3, 555 144, 319	79, 616 195, 763 260, 044 601, 760	73 5,080 11,740 4,015	600, 882 277, 889 481, 488 1, 249, 836	521, 193 77, 046 209, 704 644, 061	2 77 125 18					2 77 125	
Lithograp Looking-g Loubricatii Mats and grass, ar Mattresses where si Millinery where si Models ar paper pi Mucilage, not else Musical in		ture frames com cocoa i g beds, not goods, not inclusion other adhes led. pianos.	44,773 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Paper ar Paper gr Paving I Paving I Paving I Perfume Photogr Pickles a Printing Refriger Regalia, embles Roofing Saddlery Sand an Shipbuil	2,771,157 and wood purods, not elematerials ry and cos: applis and gigraving applic materials. materials. and soc. materials. rand soc. materials. demery padding, wood and, wood a	ilpsewhere spe metics. raphophone rials iety badges	1 ciffed 2 1	Show cases. Signs and as Signs and as Slaughtering soap. Sporting an Stationery fied. Statuary an Steam pack Steel barrel stereotypin Stoves and Stoves, gas Surgical app Suspenders goods. Theatrical s	dvertising n g and meat	oveities. packing ods sewhere d tanks otyping. destic	9 3 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Tobac Tools Toys Trund Upho spe Varni Wind Wires Wood fled	cco, smo , not els and gan ks and v lstering cified lshes low shac work, no l, turned	oking sewhere nes valises materi des and ot elsew d and c	ere specified specified als, not a fixtures rere specified elsewhe	delsewher

Same number reported for one or more other months.
Same number reported throughout the year.

MANUFACTURES—MINNESOTA.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERS	ONS EN	GAGED	IN THE	INDUSTRY.		WAC -NEAR	GE EARI EST REI	VERS DI	ec. 15, Pative	OR DAY.	
			-	Sala-	Clerks	s, etc.		Wage earno	ors.		16 and	l over.	Und	er 16.	
INDUSTRY AND CITY.	Num- ber of estab-		Pro- prie-	ried offi- cers,				Number, 1	5th day of—						Capita
	lish- ments	Total.	and firm mem- bers.			Fe- male.	Average number.	Maximum month.	Minimum mouth.	Total.	Male.	Fe- male.	Male.	Fe- male.	

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

2 3 4 5	Faribault Hibbing. Mankato Rochester St. Cloud Winona.	56 41 72	1,004 75 1,037 439 2,336 3,054	42 16 55 49 58 54	60 4 73 23 99 154	88	42 3 61 93 112	806 50 771 359 1,998 2,534	No No	948 53 862 381 2,145 2,842	Fo Ja Ja Ja Do An	717 45 692 334 1,898 2,345	955 53 863 379 1,990 2,874	696 38 692 320 1,886 2,027	81	1	1	6,365,977 2,172,002 8,596,608
6	WINONA	73	3,054	54	154	200	112	2,534	De	2,842	Ap	2,345	2,874	2,027	843	1	3	17,441,370

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.

	Salaries and wages. For Taxes, Frederal, work. Rept of state. Principal]	POWER.				
Sala	Salaries and wages. Rent and taxes. For mat For contract work. Rent of state, factory. Rent of state, factory. Principal materials.				erials.				Pri	mary ho	rsepow	er.		Elec-		
								Value of products.	Value added by manufac-		Owned.					tric horse- power
Officials.			contract	Rent of	state, county, and	Principal materials.	Fuel and rent of power.	1	ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	gener- ated in estab- lish- ments report- ing.

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

Dollars. Dollar 158,968 118,5 5,996 4,7 170,950 187,3 59,996 19,1 281,543 292,5 457,532 475,2	688, 298 67, 600 728, 045 31 336, 700 9 2, 328, 409	Dollars. 3, 266 400 431 108 5, 844 74, 181	Dollars. 21, 705 5, 620 10, 605 12, 769 16, 858 24, 786	Dollars. 132,656 4,845 118,303 49,612 81,620 478,269	Dollars, 7, 953, 981 151, 975 7, 812, 388 1, 235, 536 4, 261, 828 18, 896, 561	Dollars, 124,703 15,706 139,657 71,273 205,396 376,545	Dollars. 10, 155, 358 320, 427 9, 766, 306 2, 250, 242 7, 733, 764 25, 119, 522	Dollars. 2,076,674 152,746 1,814,261 943,433 3,266,540 5,846,410	2,823 63 3,291 1,368 6,883 10,458	1,525 1,755 729 1,620 3,150	40 25	114 102		988 63 1,488 450 4,561 7,306	514 618 256 100 680	1 2 3 4 5 6
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⁸ Excludes Austin and Virginia to avoid disclosure of individual operations.

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DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES MANUFACTURES: 1919

MISSISSIPPI

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

CONTENTS

	Page	P	8
EXPLANATION OF TERMS. GENERAL STATISTICS General character of the state. Comparative summary Statistics for the state, by counties. Principal industries, ranked by value of products. Persons engaged in manufacturing industries. Average number of wage earners for selected industries, with poent, by sex and age.	3 4 5 6 6	Character of ownership, for selected industries and for cities Manufactures, by population groups, in cities of 10,000 inhabitants or more. Number and horsepower of types of prime movers. Fuel consumed	'a;
	of 7 7 7 8 96r 9 for 10	Cotton goods Turpentine and rosin Fortilizer. Printing and publishing. Laundries. Dyeing and cleaning. Custom sawmills and custom gristmills. GENERAL TABLES Table 28.—Comparative summary for selected industries and for	
Size of establishments, by value of products, for selected industric Size of establishments, by value of products, for cities of 10,000 habitants or more	os. 11 in-	offiles: 1919,1914, and 1909 Table 29.—Detailed statement of all industries combined and specified industries: 1919	



WASHINGTON
GOVERNMENT PRINTING OFFICE
1921

EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of overeship, 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, elemosynary, 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

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. 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 industries in the product of the chief value.

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

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

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 price of commodities during recent years. To the extent to which this factor has been influential the figures fall 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) clorks (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 tince 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 any (whether under 16 or 16 and over), was reported for

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 sax, 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 companied with industries in continual operation. This total, however, is shown for the different cities, bec

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 autire country. entire country.

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 it title real value, because they would be based on the carnings 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 earner fluctuates from month to month in every industry, and in some cases to a very greet 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 itselfalls. 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 consuses 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 ruel, rent of power and heat, mill supplie, and containers, as well as materials which form a constituent part of the product,

Rent and taxes.—The taxes include cortain 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.

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 processed carried on in the industry itself. Another part, and often by far the larger on, 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 entirecest of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

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

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

MISSISSIPPI.

GENERAL STATISTICS.

General character of the state.—Mississippi has a gross area of 46,865 square miles, of which 46,362 represent land surface. The inhabitants of the state in 1900 numbered 1,551,270; in 1910, 1,797,114; and in 1920, 1,790,618. In total population Mississippi ranked twenty-third among the states in 1920, and in density of population twenty-sixth. The number of inhabitants per square mile in 1910 was 38.8, the corresponding figures for 1920 being 38.6.

There were in the state in 1920 nine cities having more than 10,000 inhabitants—Biloxi, Columbus, Greenville, Hattiesburg, Jackson, Laurel, Meridian, Natchez, and Vicksburg. These nine cities, whose combined population in that year was 136,201, formed 7.6 per cent of the total population for Mississippi and reported 24.9 per cent of the value of the

state's manufactured products in 1919.

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

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

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

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919, was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 29.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 200 or more wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products, for cities of 10,000 inhabitants or more (Table 6).—The proportion of female wage earners in the state is small, but 5.2 per cent in 1919. Biloxi is the only city in the state showing a larger proportion of female wage earners (59.6 per cent) in 1919 than of males; this is due to the extensive employment of females in the canning industry in that city.

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

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined and for the nine cities having 10,000 inhabitants or more. Although there were several industries in the state in which the females predominated, the canning industry is the only one of importance in this class.

Prevailing hours of labor (Table 9).—The figures presented in this table show a shortening of the hours of labor since the census of 1914. In that year 7.2 per cent of the wage earners was included in the group "48 and under" as against 18.5 per cent in 1919, while in the "60" and "over 60" groups there was 75.2 per cent of the total average number of wage earners in 1914, as compared with 67.7 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).— The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 95.3 per cent was in the several classes having less than 101 wage earners, while such establishments employed only 42.2 per cent of the total number of wage earners. On the other hand, the number of establishments having more than 100 wage earners formed only 4.7 per cent, but reported 57.8 per cent of the average number of wage earners in the state.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at \$100,000 to \$1,000,000 constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for 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 with those of another group, to avoid the possibility of disclosing the operations of individual establishments.

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

Character of ownership (Table 14).—Corporate ownership in 1914 reported 22.3 per cent of the total number of establishments in the state, 74.7 per cent of the average number of wage earners, and 79.2 per cent of the value of products. The corresponding proportions for 1919 were 20.3 per cent, 72.8 per cent, and 75.5 per cent, respectively. There was an increase of

7,018, or 20.1 per cent, in the average number of wage earners under corporate ownership, while the value of products increased \$86,390,163, or 137.2 per cent, from 1914 to 1919.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows relatively the importance of the manufactures in the nine cities in the state as to value of products. Combined these cities reported 24.9 per cent of the total for the state in 1919, as compared with 23.4 per cent in 1914. The proportion of wage earners for the nine cities was also greater in 1919, being 20.5 per cent, as against 17.4 per cent in 1914.

Number and horsepower of types of prime movers (Table 16).—There was an increase in both the owned and rented power from 1914 to 1919, and although rented power formed but a small proportion of the total power in the state, the percentage that rented power formed of the total was greater in 1919 than in 1914. During this five-year period the owned power increased 7,503 horsepower, or 4.2 per cent, and rented power 6,877 horsepower, or 101 per cent.

Fuel consumed (Table 17).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel.

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

		MANUFA	CTURING INDU	TRIES.		PEI	R CENT OF	INCREASE	g_1
•	1919	1914	1909	1904	1899	1914– 1919	1909- 1914	190 4 1909	1899- 1904
Number of establishments.	2,455	2,209	2,598	1,520	1,294	11.1	-15.0	70.9	17.
Persons engaged. Proprietors and firm members Salaried employees. Wage earners (average number).	64, 452 2, 811 4, 081 57, 560	52,277 2,386 3,189 46,702	56, 761 2, 974 3, 403 50, 384	42,966 1,588 2,688 38,690	(2) (2) 1, 260 26, 799	23. 3 17. 8 28. 0 23. 2	-7.9 -19.8 -6.3 -7.3	32.1 87.3 26.6 30.2	113. 44.
Primary horsepower	200, 814 \$154, 117, 337	186,434 \$81,005,484	206, 222 \$72, 393, 485	110,338 \$50,256,309	65,738 \$22,712,186	7.7 90.3	-9.6 11.9	86.9 44.0	
Salaries and wages Salaries Wages	59, 182, 535 7, 926, 819 51, 255, 716	23,007,760 3,831,133 19,176,627	22, 421, 367 3, 653, 644 18, 767, 723	17, 417, 380 2, 598, 346 14, 819, 034	9,002,544 1,092,937 7,909,607	157. 2 106. 9 167. 3	2.6 4.8 2.2	28.7 40.6 26.6	137.
Paid for contract work. Rent and taxes Cost of materials. Value of products Value added by manufacture	4,598,382 96,677,871	2,075,852 1,320,197 41,340,122 79,550,095 38,209,973	2,591,240 804,930 36,925,582 80,555,410 43,629,828	1,150,796 2454,506 25,800,885 57,451,445 31,650,560	(2) (2) 16,543,029 33,718,517 17,175,488	29.3 248.3 133.9 148.6 164.5	19.9 64.0 12.0 1.2 12.4	125,2 43,1 40,2 37,8	56. 70.

¹A 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.

	Num-	WAGE	EARNERS.					
COUNTY.	ber of estab- lish- ments.	Average number.	Wages,	Rent and taxes.	Cost of materials.	Value of products.	Value added by manu- facture.	Primary horse- power.
The state	2, 455	57, 560	\$51, 255, 716	\$ 4, 598, 382	\$96, 677, 871	\$107, 746, 987	\$101, 069, 116	200, 814
Adams	30 60 14 51 11	1,300 598 401 787 19	921, 646 409, 351 754, 307 527, 773 14, 585	35, 248 25, 281 13, 124 34, 155 154	1, 605, 172 2, 238, 583 251, 958 1, 692, 084 8, 365	2, 875, 937 3, 106, 969 1, 407, 385 2, 881, 089 35, 940	1, 270, 765 868, 388 1, 155, 427 1, 189, 005 27, 575	2, 607 2, 727 2, 654 3, 554 324
Bolivar Galhoun Garroll Chickass W Choctaw	46 38 8 22 26	446 79 36 176 153	405, 218 50, 898 9, 720 134, 381 106, 429	20, 794 671 1, 735 13, 265 2, 601	1, 481, 947 45, 562 162, 287 324, 843 232, 153	2, 401, 570 202, 623 185, 664 655, 808 472, 243	919, 623 157, 061 23, 377 330, 965 240, 090	1,708 1,212 428 986 970
Claiborne Clarke Clay Coahoma	8 42 21 36 35	135 1,493 206 317 506	102, 310 1, 275, 900 162, 475 286, 737 358, 591	65, 022 225, 885 14, 365 74, 889 31, 001	1, 293, 723 1, 714, 880 528, 908 3, 699, 120 1, 486, 372	1, 595, 404 4, 001, 471 897, 675 4, 667, 962 2, 277, 690	301, 681 2, 286, 591 368, 767 968, 842 791, 318	534 5, 356 982 3, 038 2, 180
Ovington. De Solo. Fornesi. Franklin. Oreene.	10	1, 119 8 2, 029 840 970	757, 506 3, 400 1, 784, 784 811, 713 926, 751	57, 859 628 207, 612 81, 213 65, 366	714, 117 22, 418 3, 099, 897 375, 292 1, 136, 446	1,719,318 42,506 6,949,908 1,743,312 3,368,341	1, 005, 201 20, 148 3, 850, 071 1, 368, 020 2, 231, 895	1, 815 325 7, 443 2, 385 2, 392
Grenada. Hançook. Harrison. Hinds. Holmes.	13 16	178 1,449 2,722 1,779 322	177, 896 1, 061, 531 2, 028, 292 1, 418, 530 280, 483	17,644 78,817 151,671 227,657 9,866	900, 326 630, 947 3, 164, 751 9, 827, 591 554, 856	1, 369, 881 2, 306, 520 6, 591, 693 13, 789, 266 1, 005, 209	469, 555 1, 666, 582 3, 426, 942 3, 961, 675 450, 353	852 2, 939 5, 677 7, 620 1, 084
Humphreys. Itawamba. Jackson. Jasper.	11 52	575 126 2,833 514 271	020, 134 93, 120 4, 054, 319 375, 951 198, 106	145, 034 1, 230 93, 959 10, 604 21, 760	774, 202 82, 951 3, 133, 023 223, 004 90, 424	2, 320, 153 299, 598 8, 407, 789 1, 169, 637 634, 497	1, 545, 951 216, 647 5, 274, 766 946, 633 544, 073	1, 640 1, 525 8, 106 1, 937 2, 521
Jefferson Davis	. 4	3,517 667 28 1,948	4,110 3,286,386 548,154 24,280 1,830,441	140 535, 946 48, 903 897 243, 349	8,620 4,201,138 425,147 21,231 1,128,426	19, 630 10, 807, 074 1, 593, 852 163, 816 4, 752, 595	11,010 6,605,936 1,168,705 142,585 3,624,169	102 13, 973 3, 768 489 5, 573
Lauderdale. Lawrence. Leake. Lec. Lec. Ledore.	1 11	2,670 216 32 343 483	2, 440, 329 181, 912 21, 017 236, 850 400, 344	268, 284 13, 177 642 103, 456 66, 283	6, 252, 304 113, 029 24, 793 1, 320, 555 5, 315, 370	10, 736, 358 529, 369 90, 930 1, 983, 790 6, 748, 555	4, 483, 964 410, 340 66, 137 663, 235 1, 433, 185	7, 334 298 746 1, 184 3, 953
Lincoln Lowndes Madison Marion Marshall	55	804 1, 231 286 1, 750 59	651, 604 947, 906 256, 996 1, 563, 724 38, 257	119, 197 59, 891 4, 828 155, 988 3, 048	1, 966, 499 1, 849, 554 182, 755 1, 581, 066 318, 093	3, 406, 938 3, 595, 766 691, 903 4, 594, 501 391, 231	1, 440, 430 1, 746, 212 509, 148 3, 013, 435 73, 138	2, 308 3, 936 1, 416 3, 013 .394
Monroe. Montgomery Neshoba Newton Nowton Noxabee.	- 96 - 19 - 34 - 52 - 45	[] 695	303, 099 144, 109 603, 706 530, 813 306, 002	23, 147 82, 834 26, 216 41, 581 11, 235	027, 857 1, 087, 370 508, 612 1, 174, 553 653, 252	1, 973, 838 1, 575, 574 1, 691, 156 2, 538, 694 1, 326, 241	1, 045, 981 488, 204 1, 182, 544 1, 364, 141 672, 989	3, 870 1, 046 2, 312 3, 106 2, 090
Oktibbeha Panola Pearl River Perry Pike	15 18 17	646 1,927 695	143, 920 672, 249 1, 929, 310 744, 575 2, 689, 936	5, 223 88, 252 111, 894 40, 916 53, 968	634, 037 502, 037 2, 198, 401 289, 866 2, 238, 578	965, 919 2, 145, 827 5, 434, 437 1, 588, 376 5, 591, 173	1, 298, 510 3, 352, 595	1, 208 1, 997 3, 697 1, 011 3, 796
Pontotoc. Prentiss. Quitman. Ranklin. Scott.	31 24 (31 24	173 55 590	449, 525	3, 162 1, 999 2, 577 23, 022	1	502, 607 398, 754 144, 227 1, 049, 398 2, 552, 500	1, 904, 000	1, 013 873 250 2, 393 3, 206
Sharkey Simpson Smith Stone Sunflower	2	3 1,290 L 62 3 980	1,023,928 42,840 688,474	5, 376 151, 776 1, 072 67, 445 20, 309	725, 968	902, 720 3, 146, 700 123, 145 1, 930, 012 2, 456, 399	1,120,277	595 4,757 355 2,930 2,142
Talianatchie. Tate. Tippah. Tishomingo.	2' 3' 8	7 1,030 0 42 5 84	857, 891 23, 748 52, 384 7 158, 539	49, 917 6, 052 967 2, 430	289, 732 74, 707 265, 779	3, 524, 128 365, 996 284, 500 699, 555	76, 263 209, 793 433, 773	3,710 530 1,012 2,214 420
Tunica. Union. Waithall Warren.	3 1 4	2 150	94,005 166,648 1,979,072	35, 159 113, 238	2,820,206	6, 868, 50	335, 417 350, 751 3, 548, 300	1, 108 692 6, 003
Washington. Wayne. Webster. Wilkinson.		1,20 2 68 8 13 6 1	2 429,058 0 71,828	1,06	8, 246	1, 309, 07 282, 02 28, 14	8 949, 213 3 192, 896 3 19, 897	1,711
Winston Yalobusha Yago. All other counties ¹ .	7	74 .6 .5 .6 .5 .5 .5 .5 .5 .5 .5 .5	$\begin{bmatrix} 6 & 722,396 \\ 4 & 429,77 \end{bmatrix}$	7 66,09	6 1,075,321	1,499,59 2,285,23	1,571,687 929,307 11 1,209,905 27 65,795	7 735

¹ All other counties include George and Issaquena.

MANUFACTURES—MISSISSIPPI.

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

														_	
	blishments.	WAG EARNI		VALUE PRODUC		VALUI ADDED MANUF. TURE	BY AC-		blishments.	WAG EARNI		VALUE PRODUC	OF CTS.	VALU: ADDED MANUE TURE	BY AC-
INDUSTRY.	Number of establishments	Average number.	Per cent dis- tribution.	Amount (expressed in thousands).	Per cent dis- tribution.	Amount (expressed in thousands).	Per cent dis- tribution.	INDUSTRY.	Number of establishments.	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent dis- tribution.	Amount (expressed in thousands).	Percent dis- tribution.
All industries Lumber and timber products	1.435	57,560 35,512 2,454	i	87,508	44.3	61,063	60.4	papers and periodicals	156 21	412 158 206	0.7 0.3 0.4	\$1,348 1,211 1,184	0, 7 0, 6	\$1,030 505	1.0
Oll and cake, cottonseed Cars and general shop construction and repairs by steam-railroad companies Cotton goods	13					6,167	5. 4 6. 1 3. 1	Boxes, wooden packing, except cigar boxes. Shipbuilding, wooden, including boat building.	4 9	206 821 248	1.4	1,059	0.5	493	0.1
Lumber, planing-mill products, not including planing mills connected with sawmills.	65	1,102	1.9	5, 933	3.0	2,445	2.4	Carriages and wagons, including repairs.	14	1	1	933	1	557	0.
Turpentine and rosin. Fortilizers. Mineral and carbonated waters. Butter	9 68	2,495 370 440 106 295	0.6	3, 627 3, 333	1.7	4,257 959 1,624 353 739	4.2 0.9 1.6 0.3	Brick, sewer pipe, and draintile Canning and preserving, fish Canning and preserving, oysters Automobile repairing Printing and publishing, book and	28 11 7 76	472 481 364 177	0.6	797	0.4		0.
Butter	82 54	295				1		JOD	37	249	0.4		0. 3	428 164	0.
Foundry and machine-shop prod- ucts Food preparations, not elsewhere specified Ice, manufactured	43 7 50		0.1	1,684	0.9	260	0. 9 0. 3 0. 9	Canning and preserving, vegetables. Coffee, roasting and grinding. Copper, tin, and sheet-iron work. Gas, illuminating and heating. All other industries 1	7 14 7 96	84 122	0.1 0.2 0.2 5.4	411	0.2	309 207	0. 0. 0.

¹ Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are four having products in excess of some for which figures are shown in the table. These industries are as follows: "Clothing, men's"; "furn ture"; "paper and wood pulp"; and "shipbuilding, steel."²

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

(X-14)	Cen-	Total.	Male.	Fe-	PER OF TO			Cen-			Fe-	PER C	
CLASS.	sus year.		Maie.	male.	Male.	Fe- male.	CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.
All classes	1919 1914 1909	61, 452 52, 277 56, 761	60, 866 50, 010 54, 057	3,586 2,267 2,704	94. 4 95. 7 95. 2	5.6 4.3 4.8	Clerks and other subordinate salaried employees.	1919 1914 1909	1,880 1,769 1,712	1,379 1,576 1,556	501 193 156	73. 4 89. 1 90. 9	26.6 10.9 9.1
Proprietors and officials	1919 1914 1909	5,012 3,806 4,665	4,894 3,755 4,603	118 51 62	97. 6 98. 7 98. 7	2, 4 1, 3 1, 3	Wage earners (average number)	1919 1914 1909	57, 560 46, 702 50, 384	54, 593 44, 679 47, 898	2, 967 2, 023 2, 486	94. 8 95. 7 95. 1	5.2 4.3 4.9
Proprietors and firm members	1919 1914 1909	2,811 2,386 2,974	2,719 2,340 2,918	92 46 56	96. 7 98. 1 98. 1	3. 3 1. 9 1. 9	16 years of age and over	1919 1914 1909	57, 080 46, 069 49, 326	54, 254 44, 165 47, 287	2,826 1,904 2,039	95. 0 95. 9 95. 9	5.0 4.1 4.1
Salaried officers of corporations	1919 1914 1909	554 376 305	544 373 302	10 3 3	98. 2 99. 2 99. 0	1.8 0.8 1.0	Under 16 years of ago	1919 1914 1909	480 633 1,058	339 514 611	141 119 447	70.6 81.2 57.8	20, 4 18, 8 42, 2
Superintendents and managers	1919 1914 1909	1,647 1,044 1,386	1,631 1,042 1,383	16 2 3	90. 0 90. 8 99. 8	1, 0 0, 2 0, 2							

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

	,	Wage	PER CE	ENT OF T	OTAL.				PER CE	ENT OF T	OTAL.
INDUSTRY.	Cen- sus year,	earners (aver- age num-	16 year and	s of age over.	Un- der 16 vears	INDUSTRY.	Cen- sus year.	Wage earners (aver- age num-		s of age over.	Un- der 16
		ber).	Male.	Fe- male.	of age.			ber).	Male,	Fe- male.	years of age.
All industries	1919 1914 1909	57,560 46,702 50,384	94. 3 94. 6 93. 9	4. 9 4. 1 4. 0	0, 8 1, 3 2, 1	Ice, manufactured	1919 1914	447 476	99. 8 96. 2	0. 2	3.8
Boxes, wooden packing, except cigar boxes	1919 1914	821 213	91. 3 85, 4	8, 8 10, 8	3, 8	Lumber and timber products	1919 1914	35,512 28,490	99.3 99.6	0. 5 (2)	0.2
Bread and other bakery products	1919 1914	295 306	87. 8 93. 4	7.8 2.5	4.4 4.1	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.	1919 1914	1,102 937	98. 6 99. 5	1.0	0.4
Brick, sewer pipe, and draintile	1919 1914	472 551	97. 0 94. 4	1,1	3. 0 4. 5	Mineral and carbonated waters	1919 1914	440 308	93. 4 94. 1	5. 2 2. 3	1.4 3.6
Canning and preserving, fish	1919 1914	481 791	26. 8 36, 2	71, 3 59, 4	1. 9 4, 4	Oil and cake, cottonseed	1919 1914	2, 454 2, 336	96. 0 99. 5	1.0 0.2	3. 1 0. 3
Canning and preserving, oysters 1	1919	364	24. 2	75.3	0.5	Printing and publishing, newspapers and periodicals.	1919 1914	412 563	74. 0 73. 9	17. 2 9. 4	8, 7 16, 7
Canning and preserving, vegetables	1919 1914	240 82	43, 8 52, 4	55, 4 43, 9	0, 8 3, 7	Shipbuilding, wooden, including boot build- ing.	1919 1914	248 65	100. 0 100. 0	ļ	
Cars and general shop construction and re- pairs by steam-railroad companies.	1919 1914	4,030 3,278	99. 4 99. 4	0.6 0.6		Turpentine and rosin	1919 1914	2, 495 3, 275	97. 2 98. 1	1.3	
Cotton goods	1919 1914	2,406 1,989	49. 7 50. 2	45, 1 40, 3	5, 2 9, 5	Wood preserving	1919 1914	206 241	100.0		
Fertilizers	1919 1914	370 379	99. 7 100. 0	0.3		All other industries.		4, 296	85. 8	12. 2 22. 0	
Foundry and machine-shop products	1919 1914	460 423	99, 1 99, 2	0.7 0.5	0. 2 0. 3		1014	1,999	74.5	22, ()	3.6

¹ Not shown separately in 1914.

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

	-	AV	ERAGE 1	UMBER	of WAG	E EARNE	RS IN M	ANUFACI	URING II	nbustrii	18.				
CITY.		Total.			16 y Male.	ears of a		rer. Female.		Under	16 years	of age.	VAL	UE OF PRODUC	ets.
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Giloxi Columbus Greenville Hattiesburg Jackson Jaurel Meridian Natehez, Vicksburg	549 822 1,267 1,326 2,223 2,165	521 671 587 943 2,129 1,974 297 1,009	1,524 428 1,202	317 465 765 1,256 1,231 2,005 1,821 1,001 1,367	455 667 560 895 1, 868 1, 722 264 947	045 740 1,300 333 1,172	468 72 55 8 55 179 265 179 84	19 1 4 23 173 204 16 54	3 15 120 72 17	2 12 2 3 40 3) 79	17 3 23 25 88 48 17 8	38 23 13	\$1,941,629 2,150,578 4,419,662 4,533,382 11,401,869 8,182,357 9,580,986 2,717,187 4,336,392	\$1, 248, 543 1, 935, 153 1, 133, 927 3, 625, 068 3, 372, 292 4, 738, 763 895, 913 1, 672, 907	\$1, 250, 892 2, 959, 812 4, 237, 476 1, 114, 087 2, 229, 344

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

							and the state of t						
MONTH.		NUMBER.		1	NT OF MA		MONTH.		NUMBER.1		PER CEN	T OF MAX	CIMUM.
	1919	1914	1909	1919	1914	1909	MONTH.	1919	1914	1909	1919	1914	1909
lanuary February March April May, June,	53,177 53,870 52,653	48, 363 47, 519 47, 810 47, 290 45, 296 45, 097	49, 148 49, 511 49, 839 47, 851 46, 178 45, 198	84. 3 82, 1 83, 2 81. 3 82, 2 81, 7	100. 0 98. 3 98. 9 97. 8 93. 7 93. 2	87. 1 87. 7 88. 3 84. 8 80. 1 80. 1	July. August September October November December	55, 793 59, 933 03, 160 64, 736 63, 823 62, 897	46, 143 47, 304 48, 010 47, 774 45, 881 43, 937	47, 237 50, 341 53, 195 55, 387 56, 436 55, 285	86, 2 92, 6 97, 6 100, 0 98, 6 97, 2	95. 4 97. 8 99. 3 98. 8 04. 0 90. 8	83. 7 89. 2 94. 3 98. 1 100. 0 98. 0

¹The 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.

² Less than one-tenth of 1 per cent.

MANUFACTURES—MISSISSIPPI.

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.]

	Aver-	N	JMBER E	MPLOYEI	ON 151	H DAY (OF THE M	ONTH O	R NEARE	ST REPRI	ESENTAT	IVE DAY,	- 1	Per
INDUSTRY AND CITY.	num- ber om- ployed during year.	Janu- ary.	Febru-	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber,	Decem- ber.	cent mini- mum is of maxi- mum,
All industries. Males. Females.	57,560 54,593 2,967	54, 573 51, 333 3, 240	53,177 50,042 3,135	53,870 50,825 3,045	52,653 49,689 2,964	53,185 50,568 2,617	52,920 50,717 2,203	55,793 53,563 2,230	59, 933 57, 056 2, 877	63, 160 60, 174 2, 986	64,736 61,249 3,487	63,823 60,389 3,434	62,897 59,511 3,386	81 3 81, 1 63, 2
Boxes, wooden packing, except cigar boxes. Bread and other bakery products Brick, sewer pipe, and draintile Canning and preserving, fish. Canning and preserving, oysters Canning and preserving, vogetables.	821 295 472 481 364 249	754 283 335 534 498 348	706 287 348 588 490 114	651 290 369 562 514 72	729 295 480 535 489 77	840 292 512 254 271 65	869 290 540 74 9	881 289 555 82 6 114	871 292 612 621 321 117	855 304 573 611 313 266	864 308 501 671 498 545	896 305 458 627 477 624	936 305 381 613 482 550	69, 6 91, 9 54, 7 11, 0 1, 2 10, 4
Cars and general shop construction and repairs by steam-railroad companies. Cotton goods. Fertilizers. Foundry and machine-shop products. Lee, manufactured.	4,030 2,406 370 460 447	4, 206 2, 540 513 426 302	4,052 2,498 542 433 332	4,130 2,427 592 417 332	4, 054 2, 370 548 439 420	3,926 2,428 332 450 510	3,789 2,308 2,41 454 539	3,746 2,332 266 464 593	3, 793 2, 297 276 489 623	3,996 2,343 280 488 578	4,129 2,405 273 473 447	4, 252 2, 449 269 481 360	4, 287 2, 475 308 506 328	87, 4 90, 4 40, 7 82, 4 48, 5
Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with sawmills Mineral and carbonated waters. Oil and cake, cottonseed.	35,512 1,102 440 2,454	32,257 970 360 3,216	31,185 981 355 3,055	31,931 1,000 380 2,547	\$1,042 1,026 402 2,123	32,167 1,059 439 1,678	32,588 1,085 487 1,521	35,007 1,137 510 1,524	38, 276 1, 164 510 1, 496	40, 328 1, 207 506 2, 392	40,678 1,187 470 3,289	39,843 1,195 444 3,288	40, 842 1, 213 417 3, 319	76.0 80.0 69.6 45.1
Printing and publishing, newspapers and periodi- cals. Shipbuilding, wooden, including boat building Turpentine and rosin Wood preserving All other industries.	412 248 2,495 206 4,296	400 596 2,201 204 3,630	406 592 2,248 207 3,758	401 472 2,480 206 4,091	404 279 2,646 209 4,086	407 319 2,623 227 4,386	2,572	1 204	2, 685 215	412 65 2,662 188 4,793	421 76 2,495 198 4,808	427 75 2,451 210 4,692	429 71 2,189 182 3,064	93, 2 10, 9 81, 5 80, 2 63, 0
Industries showing large proportion of females. Boxes, wooden packing, except cigar boxes	345 275 138 - 1,152	61 389 365 167 1,252	368 61 1,190	366 39 1,155	82 395 360 36 1,130	182 202 38 1,170	30 48 1,099	1,122	454 264 37 1,097	56 417 263 141 1,117	79 489 385 340 1, 157	358 378 1,164	90 437 369 328 1,171 75	9, 87, 1
Total for cities. Males. Females.	11,774 10,310 1,464	10 10 177	l 9,993	9,955	9,842	2 11,092 9,750 1,342	10,568 9,544 1,019	10,009	10,343	10,826	11,031	. 10,910	11,044	86,
BILOXI Males Females	318	35	5 34	358	348	3 20	3 180	18	9 301	325	391	3 385		45,
COLUMBUS. Males. Females.	470	533	2 518	3 430) 43(0 40	9 363	50: 43: 1 7:	0 446	495	54	5 541	501	1 66,
Greenville. Males. Females.	822 767	75	8 78	8 675	72	1 71	7 68	3 70	5 839	732	85	7 829	897	7 75.
Hattiesburg. Males. Females.	1,267 1,259	1,34	1 1,29	3 1,313	1,28 1,28	9 1,23 3 1,23	8 1,23 2 1,23	$\begin{bmatrix} 1,21\\1,21\\2\end{bmatrix}$	7 1,188 0 1,178 7 1	1, 287	7 1,23	3 1,25	1,254	4 87.
JACKSON. Males. Females.	1,26	5 1,33	$\begin{bmatrix} 2 & 1,32 \\ 0 & 1,26 \\ 2 & 5 \end{bmatrix}$	9 1,23	1,15 5 1,09 9 5	3 1,11 6 1,05 7 6	6 1,09 2 1,03 4 6	3 1,17	3 1,24 3 1,18 0 6	9 1,479	1,55 1,48		1 1,42	6 70 7 69 9 79
LAURELMalesFemales.	2.02	9 2,01	1,88 9 1,69 16 18	1,88 4 1,69 18	2 1,92 4 1,73 8 18	3 1,82	7 1,85	3 2,40 3 2,21 0 19	07 2,44 17 2,25 18	6 2,240	6 2,29	4 2,22	8 2,28	0 75 17 73 13 86
MERIDIAN. Males. Fomales.	1.83	5 2,25 0 1,89 5 31	66 2,24 99 1,93 57 31	5 2,32 1 2,00	2 2.29	05 2,18 34 1,8	38 2, 11 56 1, 77	2 2.01	1,99 33 1,65	5 2,13 6 1,79	4 2.11	10 2,14 77 1,81	1 1,83	34 85 37 85 27 85
NATCHEZ. Males. Females.	1,18	0 1,0	11 87	8 1,08	3 1,18 7 96	$\begin{bmatrix} 54 & 1,17 \\ 37 & 1,07 \end{bmatrix}$	78 1,22	26 1,23 5 1,0	36 1,22 35 1,05	6 1,19 0 1,02	0 1.2	11 1,24 20 1,05	0 1,31 3 1,10 7 20	13 79 08 79 05 79
Vicksburg Males. Females	1.37	1 1,34	08 1, 8, 18 1, 26	5 1,41 30 1,34	2 1,36 5 1,36	37 1,4 00 1,3	54 1,46 81 1,38	37 1,43 39 1,3	32 1,50 57 1,42	1,54	1 1,5	30 1,54	1,45 19 1,36	56 8

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

	Consur		in est	ABLISHMEN	TS WHERE	THE PREV	ALLING HO	URS OF LAI	BOR PER V	VEEK
INDUSTRY AND CITY.	Consus year.	Total.	44 and under.	Between 44 and 48,	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.	1919 1914 1909	57,560 46,702 50,384	4,340 (3) (2)	2,695 (2) (2)	3,613 3,345 2,794	2,592 2,291 982	3,001 4,369 2,924	2,363 1,573 1,555	35,921 32,149 22,957	3,035 2,975 19,172
Böxes, wooden packing, oxcept cigar boxes	1919 1914	821 213						120 108	701 105	
Breed and other bakery products	1919 1914	295 306	(²)	(2)	81 4	4	47 5	17 88	109 135	38 120
Brick, sewer pipe, and draintile	1919 1914	472 551	(²) 14	(2)	67 53	9 12	47 53	33	301 433	1
Canning and preserving, fish	1919 1914	481 701	(2)	(2)	251 496		100 83		130 212	
Canning and preserving, oysters *	1919 1919	364 249	18		234	18	104 17	91	123	
Canning and preserving, vegetables	1914	82		0.400	1 170		5	45	32 25	
Cars and general shop construction and repairs by steam-railroad companies.	1919 1914	4,030 3,278		2,426	1,579	948	2,296 127	220	34	
Cotton goods	1919 1914	2,406 1,989					65	119	2,059 1,924 186	58
Fertilizers.	1919 1914	370 379					. 63		152	164
Foundry and machine-shop products	. 1919 1914	460 423	(3)	(2)	51 20	12	298 173	11 5	100 212	1
Ice, manufactured	1919 1914	447 476	(2)	(2)	28 25		13 5	25 21	102 106	279 319
Lumber and timber products	. 1919 1914	35, 512 28, 490	2,327 (²)	(²)	410 474	2,288 815	970 662	1,372 917	27, 483 25, 201	498 421
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919 1914	1,102 937	105 (²)	(2)	43	115 22	204 237	179 88	456 589	
Mineral and carbonated waters	. 1919 1914	440 308	(2)	(2)	32 12	i	98 21	6 17	267 257	
Oil and cake, cottonseed	. 1919 1914	2, 454 2, 336				67 26	113 43	173	393 334	1,881 1,760
Printing and publishing, newspapers and periodicals	1919 1914	412 563		(a)	241 275	11 21	57 145	18 6	76 116	3
Shipbuilding, wooden, including boat building	1919 1914	248 65	153		. 27		64 61		4	
Turpentine and rosin	1919. 1914	2,495 3,275	(2)	(2)	1,494	19 405	259 9	50	2,150 1,240	77
Wood preserving.	1919 1914	200 241					18		84 241	104
All other industries.	1919 1914	4,296 1,998	1,64 (2)	(2)	568 491	65 25	453 443		1, 164 822	178 113
Total for cities.	.: 1919 1914	11,774 8,131	10	798 (2)	1,98 38	201 166	733 2, 079	400 276	6,706 4,378	852 847
BROXI *	. 1919	78			34	1.	178		. 185 314	1 4 4 1 1 4
Columbus	1919 1914	541 52	(2)	(2)	9	1 22	ļ- '	6	267 552	65
GREENVILLE	1919 1914	82 67	(2)	(2)	. 1		. 6	14	466	167
HATTIESBURG.	1919 1914	1,26 58	7 (2)	(2)	26 3	3	1 2	6	171	130
JACKSON.	1919 1914	1,32 94	6 (2)	. (2)	1 12	0 109	4	2 129	158	3 205
Läurel	1919 1914		3 9 (2)	9(2)	1	3 67		1	2,05	2 10
Meridian	1919 1914	2,16 1,97	5 4 (2)	<u>(²)</u>	1,03	0 81 7 26	10 70			7 5
NATCHEZ.	1919 1914	1,18	11	(1)		9 1· 5	2 2	8 88 7 51	99	6 8
Vicksburg	1919	1,45	- 1 1 ·	70	7	is	. 66	8 28 8 13	3 51 3 14	3 6 1 12

¹Includes 48 and under for 1914 and 1909.

² Corresponding figures not available.

Not shown separately in 1914,

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

	rot	AL.							ESTA	BLISH	MENTS	EMP	LOYING	<u> </u>				<u> </u>	
INDUSTRY AND GITY.		verage	No wage earn- ers.	1 to wa earn inclu	ge ers,	ear	o 20 age ners, usive.	ear:	to 50 age ners, usive.	ear	o 100 age ners, nsive.	ear	to 250 age ners, usive.	ear	to 500 rage mers, usive.	ear	o 1,000 vage rners, lusive.	W	r 1,000 age ners,
	Establishments	Wage earners (a number).	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners	Establish- ments.	Wage earners.	Establish- ments.	Wage
Allindustries	2, 455	57, 560	158	1, 272	2, 853	597	6, 705	208	6, 999	105	7,750	74	11, 884	24	8, 569	14	9, 088	3	8,71
Boxes, wooden packing, except cigar boxes. Bread and other bakery products. Brick, sewer pipe, and draintile. Canning and preserving, fish. Canning and preserving, oysters. Canning and preserving, vogetables.	4 82 28 11 7 10	821 295 472 481 364 249	6 2	53 9 1	111 35 4	23 10 3 2 6	184 105 43 26 95	6 4 2 4	216 116 47 154	1 2 2	171 59 160	1 2 1	120 116 259 131			1	530		77.00
Cars and general shop construction and repairs by steam-railroad companies. Cotton goods. Fertilizers. Foundry and machine-shop products. Ice, manufactured.	43	4, 030 2, 406 370 460 447	····· 2	2 18 27	5 44 88	1 1 17 19	14 8 220 239	3 2 6 4	109 77 196 120	3 6 4	258 416 280	2 8	353 1,502	1	463 488	1	707	2	2,12
Lumber and timber products Lumber, planing-mill products, not including planing mills connected with sawmills Mineral and carbonated waters. Oil and cake, cottonseed.	65 68 49	35, 512 1, 102 440 2, 454	15	823 19 42	1, 777 41 132	360 32 22 6	4, 021 404 242 101	108 12 2 24	3,619 392 66 937	53	3, 944 1, 171	44 2 2	7, 264 265 245	20	7,036	12	7, 851	771	
Printing and publishing, newspapers and periodicals. Shipbuilding, wooden, including boat building. Turpentine and rosin. Wood preserving. All other industries. Total for cities.	45 4 352	412 248 2, 495 206 4, 296	91	100 5 7 166	197 15 12 392	16 11 1 67	158 145 18 682 1, 306	2 1 9 1 18	57 23 342 24 504	1 10 1 5	57 859 61 314	1 6 1 3	153 861 103 512 2, 243	1 1 3	276 306 884	5	3, 235	i i	1, 5
BILOXI. COLUMBUS. GREENVILLIS. HATTIESBURG. JACKSON.	33 27 32 36	787 549 822 1,267 1,326	2 7 3	9 6 10	24 18 23 31 41	10 8 13 14 20	119 82 143 140 241	8 3 1 4 9	225 101 25 136 268	2 1 4 1 5	160 83 302 91 386	2 2 1 3	259 265 165 390	i	829	. 1			
LAUREL. MERIDIAN. NATCHEZ. VICKSBURG.	. 54	2, 223 2, 165 1, 180 1, 455	2	4	18 48 10 23	5 18 12 15	39 214 132 196		160 356 38 138	3 2 1	195 117 81	1 2 2 1	248 422 389 105	1	269 280	2 1 1	530		1,0

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

VALUE OF PRODUCT.		UMBER C BLISHME			GE NUMB GE EARNE		VALI	JE OF PRODU	CTS.	VALUE ADI	ED BY MANU	PACTURE.
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	2,455	2,209	2,598	57,560	46,702	50, 384	\$197,746,987	\$79,550,095	\$80,555,410	\$101,069,116	\$38, 209, 973	\$43,629,828
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$500,000. \$1,000,000 and over.	759 749 593 257 59 38	1,083 617 320 166 1 23	1, 156 785 467 } 190	869 3,411 9,175 17,755 11,115 15,235	2,600 5,156 8,779 }180,167	3,260 6,838 12,679 27,607	1,882,744 7,626,893 25,986,780 58,806,959 43,400,086 60,043,525	2,321,838 6,294,551 13,739,910 39,694,048 117,490,748	2,573,206 8,080,215 10,633,830 } 50,259,159	1,337,938 5,383,955 15,792,497 { 30,504,697 20,150,250 27,899,779	1,655,479 4,069,108 7,815,467 124,669,919	1, 918, 351 5, 717,616 12, 336, 122 23, 657, 739
			<u> </u>		<u> </u>		PER CENT DIS	STRIBUTION.		<u> </u>	1	reaptrail.
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 \$5,000 to \$20,000 \$20,000 to \$100,000. \$100,000 to \$100,000 \$500,000 to \$1,000,000 \$10,000,000 and over.	30. 9 30. 5 24. 2 10. 5 2. 4 1. 5	49. 0 27. 9 14. 5 7. 5 1. 0	44, 5 30, 2 18, 0 7, 3	1, 5 5, 9 15, 9 30, 8 19, 3 26, 5	5, 6 11, 0 18, 8 } 64, 6	6, 5 13, 6 25, 2 54, 8	1, 0 3, 9 13, 1 29, 7 21, 9 30, 4	2.0 7.9 17.3 49.9 22.0	3. 2 10. 0 24. 4 } 62. 4	1.3 5.3 15.6 30.2 19.9 27.6	4, 3 10, 6 20, 5 64, 6	4.4 13.1 28.3 54.2

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

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

	E		BER OF SHMEN	rs		RAGE I			VAI	LUE OF PROI	oucrs.		VALUE AI	DED BY MA	NUFACT	URE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914		cent oution.	1919	1914	Per distrik	cent oution.	1919	1914	Per distrib	cent oution.	1919	1914	Per distrib	cent oution
			1919	1914			1919	1914			1919	1914			1919	1914
BREAD AND OTHER BAKERY PRODUCTS	82	83	100.0	100.0	295	306	100.0	100.0	\$2,189,341	\$919,007	100.0	100 0	\$ 738, 964	\$404,681	100.0	100.
Less than \$5,000. \$5,000 to \$20,000: \$30,000 to \$100,000. \$100,000 to \$500,000.	16 28 35 3	36 32 15	19. 5 34. 1 42, 7 3. 7	43. 4 38. 6 18. 1	10 51 202 32	27 123 156	3.4 17.3 68.5 10.8	8. 8 40. 2 51. 0	56,318 292,235 1,453,200 387,588	96, 521 856, 579 465, 907	2, 6 13, 3 66, 4 17, 7	10.5 38.8 50.7	24, 190 103, 112 508, 935 102, 727	46, 289 167, 547 190, 845	3, 3 14, 0 68, 9 13, 9	11. 41. 47.
COTTON GOODS	15	11	100.0	100, 0	2,406	1,989	100.0	100.0	8,066,769	2, 789, 007	100, 0	100, 0	3,002,662	977, 007	100.0	100
Less than \$100,000	 6	1 g	60. 0 40. 0	27. 3 72. 7	924 1,482	175 11,814	38.4 61.6	8, 8 91, 2	2, 735, 339 5, 331, 430	210, 591 1 2, 578, 416	33. 9 66. 1	7.6 92,4	1,040,497 2,052,165	78,391 1 898,616	33, 6 66, 4	8. 92.
Bertilizers		11	100.0	100.0	370	379	100.0	100.0	\$,626,674	2,059,786	100.0	100.0	958, 626	454,801	100.0	100
Lass than \$100,000	3 6	5 6	33, 3 66, 7	45, 5 54, 5	13 357	26 353	3. 5 96. 5	6. 9 93. 1	143, 374 3, 483, 300	161,808 1,807,983	4. 0 98. 0	7. 9 92. 1	21,410 937,216	51,950 402,851	97. 8	11. 88.
RIOUR-MILL AND GRISTMILL PRODUCTS	54	17	100.0	100.0	61	48	100.0	100.0	2,091,663	410, 332	100, 0	100.0	194, 855	66,054	100.0	100
.ess than \$5,000	33 13 5 3	7 6 3 4	61. 1 24. 1 9. 3 5. 6	41, 2 35, 3 23, 5	2 5 13 41	9 11 2 28	3. 3 8. 2 21, 3 67, 2	18.7 22.9 58.3	75, 564 112, 231 265, 667 1, 638, 201	16,298 69,534 3 324,500	3.6 5.4 12.7 78.3	4. 0 16. 9 79. 1	15, 133 17, 673 45, 146 116, 903	2,950 14,770 248,334	7. 8 9. 1 23. 2 60. 0	22 73
Lumber and timber prod- ucts	1, 435	1,240	100.0	100 0	35, 512	28, 490	100, 0	100.0	87, 508, 229	36, 506, 812	100.0	100, 0	61, 062, 707	22,712,761	100.0	100
Less than \$5,000 5,000 to \$20,000 20,000 to \$100,000 100,000 to \$100,000 500,000 to \$1,000,000 1,000,000 and over		705 308 146 72 4 9	34. 5 33. 1 21. 9 7. 6 1. 9 1. 0	50, 9 24, 8 11, 8 5, 8 0, 7	679 2,504 5,789 10,322 7,812 8,406	2,016 3,075 4,734 *18,665	1, 9 7, 1 16, 3 29, 1 22, 0 23, 7	7. 1 10. 8 16. 6 65. 5	1, 193, 796 4, 897, 365 12, 963, 571 25, 893, 070 20, 685, 222 21, 875, 205	1, 396, 300 3, 073, 856 6, 503, 677 17, 138, 357 48, 394, 622	1. 4 5. 6 14. 8 29. 6 23. 6 25. 0	3.8 8.4 17.8 46.9 23.0	928, 801 3, 768, 296 9, 350, 706 17, 267, 873 14, 610, 044 15, 136, 987	1,043,058 2,146,743 4,103,768 8 15,419,192	1. 5 6. 2 15. 3 28. 3 23. 9 24. 8	4 9 18 67
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS	65	48	100.0	100. 0	1, 102	037	100.0	100.0	5, 933, 133	1,828,954	100.0	100.0	2,444,717	842,742	100.0	100
ess than \$5,000 5,000 to \$20,000? 20,000 to \$100,000 100,000 and over	10 9 25 21	12 16 16 4	15. 4 13. 8 38. 5 32. 3	25. 0 33, 3 33. 3 8, 3	18 42 375 667	38 168 323 408	1, 6 3, 8 34, 0 60, 5	4. 1 17. 9 34. 5 43. 5	29, 414 104, 810 1, 343, 959 4, 454, 950	37,219 185,326 571,446 1,034,963	0. 5 1. 8 22. 7 75. 1	2, 0 10, 1 31, 2 56, 6	21, 227 54, 042 553, 816 1, 815, 632	20, 624 105, 490 259, 109 457, 519	0.9 2.2 22.7 74.3	12 30 54
Mineral and carbonated Waters	68	80	100.0	100.0	440	308	100.0	100.0	3,333,437	1,066,364	100. 0	100, 0	1,623,929	500,247	100,0	100
es; than \$5,000 . 5,000 to \$20,000 . 20,000 to \$100,000 100,000 to \$506,000 .	6 24 29 9	43 24 13	8. 8 35. 3 42. 6 13. 2	53. 8 30. 0 10. 2	8 62 202 168	54 79 2 175	1, 8 14, 1 45, 9 38, 2	17. 5 25. 6 56. 8	18, 034 253, 936 1,402, 149 1,659, 318	100, 356 262, 136 2 703, 872	0. 5 7. 6 42. 1 49. 8	9, 4 24, 6 66, 0	7, 526 111, 921 704, 891 799, 591	56,901 125,016 2 318,330	0. 5 6. 9 43. 4 49. 2	11 25 63
OL and cake, cottonseed.	49	67	100.0	100. 0	2,454	2,336	100.0	100.0	39, 202, 188	17, 599, 651	100.0	100.0	5,460,842	3, 162, 023	100.0	100
ess.than \$100,000 100,000!to \$500,000 500,000 to \$11,000,000 1,000,000 and over	16 19 14	8 52 7	32. 7 38. 8 28. 6	11. 9 77. 6 10. 4	485 932 1,037	75 1 2,261	19. 8 38. 0 42. 3	3. 2 96. 8	5,217,878 13,532,726 20,451,584	331, 922 12, 633, 488 4, 634, 241	13. 3 34. 5 52. 2	1. 9 71. 8 26. 3	533, 902 1, 918, 884 3, 008, 058	65,375 13,096,648	9. 8 35. 1 55. 1	97
TURPENTINE AND ROSIN	45	61	100. 0	100.0	2, 495	3,275	100.0	100.0	5, 547, 813	1,997,139	100.0	100, 0	4,257,412	1,416,960	100. 0	100
Less than \$3,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000	5 9 15 21	8 28 21 4	20. 0 33. 3 46. 7	13. 1 45. 9 34. 4 6. 6	5 98 231 2,166	14 371 1,200 1,690	3.9 9.3 86.8	0. 4 11. 3 36. 6 51. 6	6 109, 107 713, 573 4, 725, 133	23, 521 318, 178 917, 733 737, 707	2. 0 12. 9 85. 2	1. 2 15. 9 46. 0 36. 9	5 72,671 493,438 3,691,303	14, 138 217, 120 672, 776 512, 926	1. 7 11. 6 86. 7	

 $^{^1}$ Includes the group "\$500,000 to \$1,000,000," 2 Includes the group "\$100,000 to \$500,000." 3 Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

⁴ Includes the group "\$1,000,000 and over." 5 Includes the group "Less than \$5,000."

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

	estab-	WA EARN		VALUE (VALUE ADD MANUFAC			estab- nts.	WA EARN		VALUE PRODUÇ		VALUE ADD MANUFACT	ED BY
CITY AND VALUE OF PRODUCT.	Number of estab- lishments.	Average num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total,	CITY AND VALUE OF PRODUCT.	Number of e	Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
Виохі	33	787	100.0	\$1,941,629	100.0	\$807,358	100.0	LAUREL	23	2, 223	100.0	\$8,182,357	100, 0	\$4,835,901	100.0
Less than \$5,000\$5,000 to \$20,000\$20,000 to \$100,000\$100,000 to \$500,000	3 5 19 6	1 12 309 465	0.1 1.5 39.3 59.1	5,050 47,543 797,898 1,091,138	0.8 2.4 41.1 56.2	3,878 27,980 394,975 380,525	0.5 3.5 48.9 47.1	Less than \$20,000\$20,000 to \$100,000\$100,000 to \$500,000\$500,000 and over	6 8 4 5	17 127 190 1,880	0.8 5.7 9.0 84.6	47,193 413,261 1,060,692 6,661,211	0.6 5,1 13.0 81.4	27,608 204,583 558,824 4,044,886	0.6 4.2 11.6 83.6
COLUMBUS	27	549	100.0	2, 150, 568	100, 0	730,710	100.0	MERIDIAN	54	2,165	100.0	9, 589, 986	100.0	3,788,166	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000	7 5 9 6	2 11 96 440	0.4 2.0 17.5 80.1	14, 321 48, 977 397, 113 1,690, 157	0.7 2.3 18.5 78.6	7,081 22,727 142,719 558,183	1.0 3.1 19.5 76.4	Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000 \$100,000 to \$500,000. \$500,000 and over.	3 11 23 12 5	3 24 323 455 1,360	0.1 1,1 14.9 21.0 62.8	7,950 113,300 1,245,842 2,333,399 5,889,495	0.1 1.2 13.0 24.3 61.4	4,149 68,436 728,037 995,783 1,091,761	19, 2 26, 3
GREENVILLE	32	822	100.0	4,419,662	100.0	1,888,351	100.0	NATCHEZ	22	1,180	100.0	2,717,187	100.0	1, 143, 981	
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	6 5 15 3	14 157 170 478	0.4 1.7 19.1 20.7 58.1	13, 206 52, 255 750, 072 834, 711 2, 769, 418	0.3 1.2 17.0 18.9 62.7	5, 861 ° 27, 085 ° 366, 481 ° 505, 766 ° 983, 158	0.3 1.4 19.4 26.8 52.1	Less than \$20,000. \$20,000 to \$100,000. \$100,000 and over.	5 9 8	10 100 1,070	0.8 8.5 90.7	47, 264 402, 108 2, 267, 815	1.7 14.8 83.5	22,580 199,890 922,011	2.0 17.4 80.0
HATTIESBURG,	36	1,267	100.0	4, 533, 382	100.0	2, 468, 423	100.0	Vicksburg	34	1,455	100.0	4,336,392		2,593,103	-
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000. \$100,000 and over	3 8 19 6	20 192 1,055	1.6 15.2 83.3	8,000 86,539 1,006,347 3,432,496	0.2 1.9 22.2 75.7	4,285 50,006 414,041 2,000,091	0. 2 2. 0 16. 8 81. 0	Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 and over.	4 6 16 8	3 22 225 1,205	0, 2 1, 5 15, 5 82, 8	10,050 67,051 878,181 3,381,110	0.2 1.5 20.3 78.0	5,208 29,731 466,576 2,091,648	80.
Jackson	55	1,326	100.0	11,401,869	100.0	3,117,090	100.0						1	le v sat	\$107.39
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	7 6 17 19 6	3 21 272 497 533	0. 2 1. 6 20. 5 37. 5 40. 2	16,775 69,811 941,280 2,930,039 7,443,964	0.1 0.6 8.3 25.7 65.3	9, 264 48, 538 410, 889 1, 344, 845 1, 303, 254	0.3 1.6 13.2 43.1 41.8								

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

		יווא	MBER	OTe.	AVE	RAGE 1	TUMBER	OF W	AGE EA	RNERS			ν.	ALUE OF PRO	DUCTS.			
INDUSTRY AND CITY.	Cen- sus year.	ESTAB	LISHM	ENTS			ablishn ned by		Per c	ent of t	otal.		Of establ	ishments ow	ned by—	Per ce	nt of t	otal
	Jour	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions,	All oth- ers.
All industries	1919 1914 1909	1,282 1,180 1,353	498 493 555	675 536 690	46,702	8,835 7,248 9,779	34,903	7,304 4,551 7,138	14.5 15.5 19.4	72. 8 74. 7 66. 4	12.7 9.8 14.2	\$197,746,987 70,550,095 80,555,410	\$25,563,980 9,514,036 11,674,333	\$149,371,210 62,981,047 58,719,954	7,055,012	12, 9 12, 0 14, 5	75. 5 79. 2 72. 9	8.9
Bread and other bakery products.	1919 1914	66 66	2 2	14· 15	295 306	238 208		1 57 1 98	80.7 68.0		19.3 32.0	2,189,341 919,007	1,792,016 647,090		1 397,325 1 271,917	81.9 70.4		18,1 29.6
Cars and general shop con- struction and repairs by steam-railroad compa- nies.	1919 1914		13 15		4,030 3,278		4,030 3,278			100. 0 100. 0	•••••• •••••	10, 225, 791 3, 682, 100		10, 225, 791 3, 682, 100			100, 0 100, 0	
Cotton goods	1919 1914	1	14 11		2,406 1,989		22,406 1,989			100. 0 100. 0		8,066,769 2,789,007		² 8, 066, 769 2, 789, 007			100. 0 100. 0	
Fertilizers	1919 1914	<u>:</u> -	9		370 379		370 2 379			100.0 100.0		8,626,674 2,059,786		3,626,674 2,059,786			100. 0 100. 0	
Flour-mill and gristmill products.	1919 1914	38 6	9	7 7	61 48	18 9	43 16	23	29.5 18.8	70. 5 33. 3	47.9	2,091,663 410,332	702,031 60,023	1,364,258 181,130	25,374 169,179	33.6 14.6	65. 2 44. 1	1, 2 41, 2
Lumber and timber prod- ucts.	1919 1914	787 719	176 160	472 361	35, 512 28, 490	6, 232 5, 318	23,793 19,842	5, 487 3, 330	17.5 18.7	67.0 69.6	15, 5 11, 7	87, 508, 229 36, 506, 812	15, 502, 317 5, 763, 325	58, 885, 548 26, 524, 966	13, 120, 364 4, 218, 521	17.7 15.8	67.3 72.7	15.0 11.6
Lumber, planing mill products, not including planing mills connected with sawmills.	1919 1914	22 14	21 17	22 17	1, 102 937	348 65	500 720	254 152	31.6 6.9	45.4 76.8	23.0 16.2	5,933,133 1,828,954	1,475,573 198,505	3,021,506 1,235,668	1,435,994 394,781	24, 9 10, 9	50.9 67.8	24. 2 21. 8
Mineral and soda waters	1919 1914	28 45	23 17	17 18	440 308	136 134	223 137	81 37	30.9 43.5	50.7 44.5	18. 4 12. 0	3,333,437 1,066,364	921, 3 23 333,333	1,919,457 601,780	492,657 131,251	27. 6 31. 3	57.6 58.4	14.8 12.3
Oil and cake, cottonseed	1919 1914	····i	46 61	3 5	2,454 2,336		2,310 2,207	144 2 129		94.1 94.5	5.9 5.5	39,202,188 17,599,651		36,732,414 16,991,585	2,469,774 2,608,066		93.7 96, 5	6, 3 3, 5
Turpentine and rosin	1919 1914	6 16	25 30	14 15	2,495 3,275	76 233	2,047 2,770	372 272	3.0 7.1	82.0 84.6	14. 9 8. 3	5,547,813 1,997,139	195,307 155,842	4,517,664 1,552,057	834, 842 289, 240	3.5 7.8	81.4 77.7	15.0 14.5

¹ Includes the group, "Corporations."

Includes the group, "Individuals."

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

			MBER		AVE	RAGE :	NUMBE	R OF W	AGE E	ARNER	s.		v	ALUE OF PR	ODUCTS.			
INDUSTRY AND CITY.	Cen- sus year.		BLISHM NED B				tablishi vned by		Perc	ent of	total.		Of establ	ishments ow	ned by—	Per c	ent of	total.
	year.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Indi- vid- uals.	Corpora- tions.	All oth- ors,	Indi- vid- uals	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora-	All others.
Total, for cities	1919 1914	108 94	149 124	59 56	11,774 8,131	812 616	10, 266 6, 971	096 544	6.9 7.6	87. 2 85. 7	5. 9 6. 7	\$49,273,032 18,622,566	\$4,408,685 1,400,018	\$41,561,944 15,926,569	\$3,302,403 1,295,979	8.9 7.5	84.3 85.5	6.7
Впохі	1919	9	13	11	787	114	564	109	14.5	71. 7	13. 8	1,941,629	285, 157	1,450,070	206,402	14.7	74.7	10.6
Согимвив	1919 1914	10 11	10 10	7 6	549 521	66 83	438 412	45 26	12.0 15.0	79. 8 79. 1	8. 2 5. 0	2, 150, 568 1, 248, 543	333, 159 159, 572	1,509,100 1,036,937	308,309 52,034	15, 5 12, 8	70. 2 83. 0	14.3 4.2
GREENVILLE	1919 1914	13 9	11 11	8 5	822 671	112 53	596 516	114 102	13, 6 7, 9	72. 5 76. 9	13. 9 15. 2	4,419,002 1,935,153	507, 571 07, 014	3,322,003 1,579,039	590,088 259,100	11.5 5.0	75.2 81.6	13. 4 13. 4
HATTIESBURG	1919 1914	12 14	20 14	4 7	1,267 587	50 47	1, 107 483	20 57	3.9 8.0	94. 5 82. 3	1.6 9.7	4, 533, 382 1, 133, 927	278, 706 110, 400	4, 188, 427 870, 219	66, 249 153, 308	6.1 9.7	92.4 76.7	1.5 13.5
láckson	1919 1914	16 13	30 26	9 10	1,326 943	101 92	1, 126 797	99 54	7.6 9.8	84. 9 84. 5	7. 5 5. 7	11,401,869 3,625,088	969, 145 203, 079	9,834,285 3,243,517	598,439 178,472	8.5 5.6	86.3 89.5	5. 2 4. 9
Laurei	1919 1914	8 7	15 15	4	2,223 2,129	72 54	2, 151 2, 067	8	3. 2 2. 5	96. 8 97. 1	0.4	8, 182, 357 3, 372, 292	182, 834 73, 539	7,999,523 3,264,088	34,720	2. 2 2. 2	97.8 96.8	i. ö
MERIDIAN	1919 1914	18 15	25 24	11 12	2,165 1,974	157 148	1,848 1,716	160 110	7.3 7.5	85. 4 86. 9	7. 4 5. 6	9,589,986 4,788,763	889, 893 298, 549	7,638,806 4,110,618	1,063,287 329,596	9. 8 6. 3	79.6 86.7	11. 1 7. 0
NATCHEZ	1919 1914	10 12	7 9	5 3	1,180 297	77 73	988 130	115 94	6, 5 24, 6	83. 7 43. 8	9. 7 31. 6	2,717,187 895,013	566, 182 247, 571	1,780,333 480,592	370,672 167,750	20.8 27.0	65. 5 53. 6	13. 6 18. 7
Vicksburg	1919 1914	12 13	18 15	9	1,455 1,009	63 66	1,858 850	34 93	4.3 6.5	93. 3 84. 8	2, 3 9. 2	4, 336, 392 1, 672, 907	396, 038 210, 294	3,841,397 1,341,614	98,957 120,999	9, 1 12, 6	88.6 80.2	2, 3 7, 2

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

Tagen version of the second			CITII	es having	A POPULATION	T OF 10,00	0 or over.		THE STATE OF	AVING
	Cen-	A garagata	Total	•	10,000 to 2	5,000.	25,000 to 10	0,000.	A POPULATIO 10,000 OR O	
	year.	Aggregate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Por cent of aggre- gate.
Number of places.	1919 1914 1909		9 8 5		9 7 5		1	••••••	***************	
Population 1.	1920 1915 1910	1,790,618 1,901,882 1,797,114	136,201 128,858 88,885	7. 6 6. 8 4. 9	136, 201 101, 851 88, 885	7. 6 5. 4 4. 9	27,007	1.4	1,654,417 1,773,024 1,708,229	92, 4 93, 2 95, 1
Number of establishments	1919 1914 1909	2,455 2,209 2,598	316 274 201	12, 9 12, 4 7, 7	316 225 201	12.9 10.2 7.7	49	2,2	2,139 1,935 2,397	87. 1 87. 6 92. 3
Average number of wage earners.	1919 1914 1909	57,560 46,702 50,384	11,774 8,131 4,574	20. 5 17. 4 9. 1	11,774 7,188 4,574	20. 5 15. 4 9, 1	943	2.0	45,786 38,571 45,810	79. 5 82. 6 90. 9
Value of products	1919 1914 1909	\$197,746,087 79,550,095 80,555,410	\$49,273,032 18,622,566 11,791,611	24. 9 23. 4 14. 6	\$49, 273, 032 14, 997, 498 11, 791, 611	24. 9 18. 8 14. 6	\$3,625,068	4.6	\$148,473,955 60,927,529 68,763,799	75, 1 76, 6 85, 4
Value added by manufacture.	1919 1914 1909	101, 069, 116 38, 209, 973 43, 629, 828	21, 373, 143 7, 647, 337 5, 003, 122	21. 1 20. 0 11. 5	21, 373, 143 6, 536, 269 5, 003, 122	21. 1 17. 1 11. 5	1,111,068	2.9	79,695,973 30,562,636 38,626,706	78. 9 80. 0 88. 5

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

TABLE 16.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909,

	NUMBER O	F ENGINES C	R MOTORS.	MOTORS. HORSEPOWER.					
POWER.	Amount. Per cent distri						ent distribu	ition.	
	1919	1914	1909	1919	1914	1909	1919	1914 100.0 2 96.3 95.1 3 0.9 0.3	1909
Primary power, total	4,162	3,249	3, 251	200, 814	189, 434	206, 222	100.0	100.0	100.0
Owned. Steam 1 Engines. Turbines. Internal-combustion engines. Wator. Water wheels and turbines. Water motors	302 12 11	2,527 2,273 (2) (1) (2) 237 17 12 5	2, 924 2, 747 (2) (2) (2) 166 11 11	187,128 183,090 170,894 13,006 2,957 181 179	179, 625 177, 287 (2) (2) (2) 1, 695 643 518 125	203, 661 202, 346 (2) (3) 1, 077 238 238	93. 2 91. 6 85. 1 6. 5 1. 5 0. 1 0. 1	95,1 0,9 0,3 0,3	98.8 98.1 0.5 0.1 0.1
Rented. Electric Other	1, 461 1, 481	722 722	327 327	13,086 13,044 42	6, 809 6, 779 30	2,561 2,400 05	6.8 6.8	3.7 3.6 (3)	1,2 1,2
Electric	2,127 1,461 666	1,016 722 294	517 327 190	34,829 13,644 21,185	17, 351 6, 779 19, 572	7,627 2,496 5,131	100.0 39.2 60.8	100, 0 39, 1 60, 9	100.0 32.7 67.3

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

TABLE 11FOLD COMBONIED, FOR DEDIEN						
	603	COAL.		77 - 1 - 1 -	Gasoline	
INDUSTRY AND CITY.	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (barrels).	and other volatile oils (barrels). 4,850 (t) (1) 115 5 34 1,995 404 23 2,517 535 8 87 22 195	Gas (1,000 cubic feet).
All industries. 2919. 1014.	10, 874 1, 853 486. 8	448, 676 476, 108 -6. 2	4, 861 6, 242 – 22, 1	66, 493 12, 117 488. 8	4, 850 (\) (\)	4, 395 3, 536 24. 3
Brick, sewer pipe, and draintile. Cars and general shop construction and repairs by steam-railroad companies Confectionery and ica cream. Cotton goods	250 347 2, 805	26, 426 42, 469 1, 522 38, 609	226 12 43	168 959 2, 336	115 5	488
Gas, illuminating and heating Lee, manufactured Lumber and timber products. Mincral and carbonated waters	4, 164 760	23, 466 40, 351 64, 756 5, 237	1, 194 1, 032 15	3, 391 5, 570 268 13	34 1,695	*************
Oil and cake, cottonseed. Shipbuilding, steel. Wood preserving.		160, 259 13, 764		48, 200 5, 000		
All other industries. Total for cities.	229 3, 356	29, 817 121, 588	2, 339 3, 070	588 4,354	,	3, 909 4, 248
BILOXI. COLUMBUS. GREENVILLE. HATTIESBURG. JACKSON.	7	14, 140 10, 722 13, 163 3, 999	112	3	87 22	250 60 110 555
LAUREI, MEBIDIAN NATCHEZ VICKSBURG	20	11, 810 13, 599 9, 071 17, 665	201 562 63 1,480	360 1 3,988	127 31 65	2, 873 400

¹ Included in figures for fuel oils.

SPECIAL STATISTICS.

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

Lumber and timber products (Table 18).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. Measured by the value of products, this is the most important manufacturing industry in the state, contributing 44.3 per cent of the total value of all manufactured products in 1919.

For a number of years Mississippi has been one of the leading lumber-producing states, ranking fourth in the production of this commodity in 1919 and third for both 1914 and 1909. In 1919 yellow pine contributed 1,980,395 M feet, board measure, or 82.9 per cent of the total lumber cut in the state; red gum 168,226 M feet, or 7 per cent; and oak 132,804 M feet, or 5.6 per cent. Other important woods cut were cottonwood, cypress, hickory, ash, elm, yellow poplar, tupelo, and maple.

Table 18.—Production of Lumber, Lath, and Shingles: 1919, 1914, and 1909.

	QUANTITY.				
PRODUCT.	1919	1914	1909		
Lumber. Mft., b. m. Lath thousands. Shingles thousands.	2,390,135 96,204 34,002	1 2, 280, 966 (2) (2)	2,572,569 90,926 151,503		

¹ Data for custom mills not included.

2 Not reported.

² A minus sign (-) denotes decrease.

cake, cottonseed (Table 19).—This table shows the quantities of the chief products of the industry for 1919, 1914, and 1909. The statistics for 1919 relate to the crushing season of 1918–19—that is to the handling of the seed from the crop of 1918. They cover the operation of only those establishments which were engaged primarily in the cottonseed industry. The crude products reported do not include those intermediate products, which were used in further manufacture.

Mississippi ranked sixth among the states in cottonseed products manufactured. While there has been an increase in the total value of products, there has been an actual decrease in the quantity of seed handled, the amount in 1919 being less than in 1914 and 1909.

TABLE 19.—OIL AND CAKE, COTTONSEED: 1919, 1914, AND 1909.

	QUANTITY.					
MATERIAL AND PRODUCT.	1019	1914	1909			
Cottonseed, crushed tons (2,000 lbs.). Crude products manufactured: gallons. Oil. gallons. Meel and cake. tons (2,000 lbs.). Hulls. tons (2,000 lbs.). Linters. pounds.	438, 725 18, 255, 656 210, 204 106, 590 43, 739, 388	506, 190 21, 312, 278 232, 120 138, 669 35, 652, 381	559, 357 24, 396, 289 214, 738 181, 797 24, 287, 536			

Cotton goods (Table 20).—This table presents detailed statistics as to materials and products of the cotton-goods industry in Mississippi for 1919, 1914, and 1909. It will be seen from the details for materials used that the mills in the state largely produced their own yarn, raw cotton forming 87.2 per cent of the total cost of all materials in 1919.

TABLE 20.—COTTON GOODS: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS,			30 10 10 10 10 10 10 10 10 10 10 10 10 10
Total cost	84, 974, 107	\$1,812,000	\$2,042,150
Cotton, Comestic: Pounds. Cost.	14, 370, 837 \$4, 335, 759	13, 897, 381 \$1, 545, 598	16,371,192 \$1,707,222
Starch, cost Chemicals and dyestriffs, cost Fuel and rent of power, cost All other materials, cost	\$34,481 \$53,810 \$187,607 \$302,300	\$13, 385 \$34, 652 \$78, 261 \$140, 104	\$12,769 \$31,042 \$101,557 \$39,560
PRODUCTS.			
Total value	\$8,046,769	\$2, 783, 007	\$ 3, 102, 398
Drills: Pounds Equate yards Value Unbleached and bleached sheetings, shirtings, and muslins:	2,535,093 7,567,026 \$1,477,625	(1) 8,676,949 \$4±8,493	(1) 7, 705, 349 \$437, 721
Founds. Square yards. Value. Other woven you's:	3, 105, 311 15, 138, 186 \$1, 830, 665	(1) 16,137,838 \$771,676	(1) 23,146,744 \$1,407,366
Founds. Square yards. Value. Yarns, for sale	4, 391, 264 16, 022, 142 \$3, 239, 679	20,086,423 \$1,219,702	(1) 11,744,171 \$933,126
Value. Waste, bagging and tier	2,055,323 \$1,285,530	1, 333, 790 \$288, 050	1,119,504 \$220,920
	\$88,856	\$35,923	\$28,550
All other products, value	\$145,014	\$25,163	\$74,70
ACHVE MACHINERY.			
Spindles (producing, not including dou- pling and twisting spindles) number Looms, number	158,802 3,883	120, 186 3, 587	153, 80 4, 73

¹ Not reported.

The total value of products increased \$5,277,762, or 189.2 per cent, from 1914 to 1919, notwithstanding a decrease in yardage. Woven goods was the principal product and constituted 81.2 per cent of the total value for the industry in 1919. The total output of woven goods was 45,596,264 square yards in 1909, 42,901,210 square yards in 1914, and 38,727,354 square yards in 1919. The decrease in the production of woven goods for the last five-year period was 9.7 per cent, and for the last ten-year period 15.1 per cent.

Turpentine and rosin (Table 21).—The quantities and values of turpentine and rosin produced by 45 establishments in 1919, 61 in 1914, and 64 in 1909, are shown in this table.

The working unit in the gathering of crude gum is called a crop, which consists of 10,500 boxes or cups. In 1919 there were 822 crops worked in the state. Of these, 275 were from "virgin" trees, or trees worked the first year; 257 from "yearling," or trees worked the second year; and 290 from "pulling," or trees worked the third and subsequent years. Of the foregoing, 69 were worked from back-boxed timber—20 "virgin," 15 "yearling," and 34 "pulling."

In 1919 only the cup system was reported as being used for gathering crude gum in the state. In 1909 and 1914 both the box system and cup system were used. In the former year 831 crops out of a total of 1,053 and in the latter year 17 crops out of a total of 1,138 were gathered by the box system.

Table 21.—Production and Value of Turpentine and Rosin: 1919, 1914, and 1909.

PRODUCT.	1919	1914	1909
Total value	\$5,547,813	\$1,997,139	\$1,474,629
Spirits of turpentine: Gallons	1,749,812 \$2,011,856	2, 385, 054 \$905, 747	1, 588, 786 \$732, 334
Resin: Barrels (280 pounds) Value	207, 114 \$3, 498, 136	275, 205 \$1,081,040	192,508 \$ 739,799
All other products, value	\$37,811	\$10,352	\$2,496

Fertilizers (Table 22).—This table shows the quantities and values of the products of the fertilizer industry for 1919, 1914, and 1909.

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

	1919	1914	1909
Total value	\$3,626,674	\$2,059,786	\$2,125,029
Fertilizers: Tons. Value Complete and ammoniated fertiliz-	1 103, 984 \$3, 160, 469	1 129,469 \$1,861,845	1 133,101 \$1,725,256
ors— Tons. Value. Superphosphates, concentrated phos- phates, and all others—	51,808 \$2,120,331	65,766 \$1,349,190	72.193 \$1,167,632
phates, and all others— Tons. Value	52,086 \$1,049,088	63,703 \$512,655	60, 908 \$557, 624
All other products, value	\$457,205	\$197,941	\$399,773

In addition, there was produced in cottonseed-oil mills and other industries 18,742 tons of fartilizer, valued at \$740,512, in 1919; 29,794 tons, valued at \$521,174, in 1914; and 33,971 tons, valued at \$616,052, in 1909.

Printing and publishing (Table 23).—This table shows the publications in Mississippi, by number and aggregate circulation per issue, classified according to period of issue for the years 1919, 1914, and 1909.

The decrease shown in the total number of publications and of circulation is due to the disappearance of a number of weekly newspapers—a decrease also accentuated at the census of 1914.

The increase in circulation of daily newspapers-23.3 per cent for the five-year period from 1914 to 1919, and of 18.9 per cent for the decade—was accompanied by a small decrease in number of publications for both periods.

Of the dailies, 11 were published in the afternoon, a decrease of 1 from 1914 to 1919, the circulation increasing slightly. The increase in the circulation of morning newspapers, the number of which decreased by 2 during the five-year period, was 10,518, or 66.3 per cent. The circulation of Sunday newspapers increased 4,784 during the same period, or 14.7 per cent. All publications were printed in the English language.

TABLE 23.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.		MBER		AGGREGAT	AGGREGATE CIRCULA'	
	1919	1914	1909	1919	1914	1909
Total	169	218	219	227, 972	267,319	315,731
Daily Sunday Semiweekly ¹ Weekly Monthly ²	14 5 4 139 7	17 7 7 169 18	18 7 5 182 7	56, 480 37, 355 6, 725 112, 962 14, 450	45,792 32,571 6,236 161,865 20,855	47, 492 36, 322 6, 000 221, 492 4, 425

¹ Includes in 1914, 1 triweekly.

² Includes in 1919, 2 semimonthlies and 1 quarterly; in 1914, 4 semimonthlies and 1 quarterly; and in 1909, 1 semimonthly and 1 bimonthly.

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

TABLE 24.—Power Laundries: 1919 and 1914.

	NUMBER OR AMOUNT.		Per
	1919	1914	of in- crease. 1914– 1919,
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Paid for contract work. Rent and taxes. Cost of materials. Amount received for work done.	712 20 58 634 1,816 \$527,254 397,758- 77,848 319,905 26,918 18,439	27 688 32 40 607 680 \$347,909 267,848 53,270 214,578 12,485 122,244 540,209	3. 5 4. 4 167. 1 51. 5 48. 5 46. 1 49. 1 48. 3 134. 0 75. 2

¹ Percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 25).—Statistics for dveing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in

the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 25.—DYEING AND CLEANING: 1919.

		Number amount
Number of establishments		
Salaried employees. Wage earners (average number)		
Wage earners (average number)		
Primary horsepower. Sapital.		
Capital		
salaries and wages	*****	1 727
Salaries		";
wages		10,1
ald for contract work		,
tent and taxes		
Cost of materials		
Amount received for work done	***************************************	128,

Custom sawmills and gristmills (Tables 26 and 27).-Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for custom mills were not collected in 1914. Tables 26 and 27, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for the work performed, and that for custom gristmills, the selling value of the grain milled.

TABLE 26.—CUSTOM SAWMILLS: 1919 AND 1909.

•	NUMBER O	Per	
	1919	1909	of in- crease, ¹ 1909- 1919.
Number of establishments	154	27 95 35	
Wage earners (average number) Primary horsepower Dapital	2,187 \$88,495	60 663 \$26,600	220.9 232.7
Wages Rent and taxes. Cost of materials Value of products ^a .	991	10,133 (2) 933 28,769	208.3 1,371. 178.3

Percentages are omitted where base is less than 100.

² Figures not available.
³ Amount received for work done.

TABLE 27.—CUSTOM GRISTMILLS: 1919 AND 1909.

		NUMBER O	R AMOUNT.	Per cent
		1919	1909	of in- crease, 1909- 1919.
Persons en Propri Salarie Wage Primary h Capital Salaries an	f establishments. gaged eters and firm members. d employees. earners (average number). orsepower. dd wages	790 731 9 50 13,253 \$520,726 40,758	596 912 837 10 65 15,852 \$475,776 34,489	0.3 -13.4 -12.7 -16.4 9.4

 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 28 gives the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the state, and for all industries combined for the cities of Columbus, Greenville, Hattiesburg, Jackson, Laurel, Meridian, Natchez, and Vicksburg for 1919, 1914, and

1909. Certain kindred industries are combined in some instances for comparison with 1909.

Table 29 presents, for 1919, statistics in detail for the state as a whole and for each industry that can be shown without the disclosure of individual operations, and for all industries combined in the nine cities of 10,000 inhabitants or more.

TABLE 28.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

industry.	Cen-ber of earners year. Number of earners year. Number of earners earners year. Number of earners earners earners earners year. Number of yearners earners year. Number of yearners earners year. Number of yearners ye		industry,	Cen- sus year.	Num- ber of estab- lish-	Wage earners (aver- age num-	Primary horse- power.	Wages,	Cost of mate- rials.	Value of prod- ucts.					
		THEITES.	ber).		Expres	sed in th	ousands.			ments.	ber).		Express	ed in the	msands.
All industries	1919 1914 1909	2,455 2,209 2,598	57, 560 46, 702 50, 384	200, 814 186, 434 206, 222	\$51,256 19,177 18,768	\$96,678 41,340 36,926	\$197,747 79,550 80,555	Marble and stone work	1919 1914 1909	12 13 11	78 58 71	114 108 80	\$59 31 41	\$195 77 79	\$390 140 176
Bread and other bakery products.	1919 1914 1909	82 83 79	295 306 285	662 184 92	240 145 128	1,450 514 516	2,189 919 878	Mattresses and spring beds, not elsewhere specified.	1919 1914 1909	7 7 6	39 33 40	120 104 101	28 13 26	130 36 67	208 70 118
Brick, sewer pipe, and draintile.	1919 1914	28 38	472 551	1,702 2,435	365 198	292 188	925 513	Mineral and carbonated waters.	1919 1914	68 80	440 308	1,148 543	269 119	1,710 506	3,333 1,066
Canning and preserving 1.	1919 1914 1909	28 18 11	1,094 1,052 847	846 600 378	375 229 97	1,518 877 508	2,303 1,655 824	Oil and cake, cottonseed	1909 1919 1914 1909	79 49 67 87	2,454 2,336 2,503	20,537 25,272 24,534	72 1,664 850 833	234 33,741 14,438	39, 202 17, 600
Carriages and wagons and materials.	1919 1914 1909	19 23 41	276 210 365	706 1,074 1,350	236 101 154	457 223 274	1,105 470 642	Printing and publishing	1919 1914 1909	193 219 225	595 663 736	698 643 496	514 371 387	12, 169 551 314 300	15,966 2,009 1,267 1,308
Cars and general shop construction and re- pairs by steam-railroad companies.	1919 1914 1909	13 15 10	4,030 3,278 2,572	4, 433 3, 350 2, 232	5,649 2,028 1,558	4,059 1,493 1,422	10,226 3,682 3,233	Shipbuilding, wooden, in- cluding boat building.	1919 1914 1909	9 11 15	248 65 91	635 170 301	360 31 51	418 47 66	1,028 101 161
Coffee, roasting and grinding.	1919 1914	7 5	28 8	49 20	13 4	474 75	620 94	Turpentine and rosin	1919 1914	45 61	2,495 3,275	78 108	1,574 669	1,290 580	5,548 1,997
Confectionery and ice cream,	1919 1914	21 13	158 56	645 51	108 23	706 103	1,211 177	Wood preserving	1909 1919	64	2,573 206	286 1,180	582 196	349 691	1,475 1,184
Copper, tin, and sheet- iron work.	1919 1914 1909	14 18 15	84 82 119	34	88 51 69	153 90 91	462 191 211	All other industries	1914 1909 1919	167	241 263 3,186	1,497 1,275 8,248	153 112 4,092	1,061 652 5,807	1,479 1,315 12,121
Cotton goods	1919 1914 1909	15 11	2,400 1,989 2,645	6,939 5,510 8,045	1,537 580 695	4,974 1,812 2,042	8,067 2,789 3,102	CHIES.	1914 1909	85 159	1,093 2,194	5, 963 6, 065	4,092 488 711	1,175 1,662	2,076 3,304
Fertilizers	1919 1914 1909	11	370 379 449	2,316 2,809 1,823	285 155	2,668 1,605	3,627 2,060	COLUMBUS	1919 1914	27 27	549 521	1,776 2,449	361 224	1,420 747	2,151 1,249
Flour-mill and gristmill products.	1919 1914	54	61	1,634	141	1,385 1,897	2,125 2,092	GREENVILLE	1919 1914	32 25	822 671	3,628 2,688	658 315	2,531 1,177	4,420 1,935
Food preparations, not	1909	13	48 18 81	609	14 5 53	344 132 1,424	1,684	HATTLESBURG	1919 1914 1909	36 35 29	1,267 587 648	4,781 2,964 2,273	1,038 292 297	2,085 666 625	4,533 1,134 1,251
elsewhere specified. Foundry and machine- shop products.	1914 1919 1914	43 43	19 460 423	1,240 1,095	5 590 231	106 850 202	1,786 690	Jackson	1919 1914 1909	55 49 44	1,326 943 772	5,763 4,862 3,292	1,094 460 366	8,285 2,514 1,852	11,402 3,625 2,960
Gas, illuminating and	1909	7	583 122	1,372	295 100	472 204	1,088	LAUREL	1919 1914	23 26	2,223 2,129	10,258 7,115	2,167 1,066	3,346 1,713	8,182 3,372
heating.	1914 1900	8	113 101	196 148	56 39	111 86	292 256	MERIDIAN	. 1919 1914	54 51	2,165 1,974	5, 443 5, 538	2,089 1,017	5,802 2,720	9,590
ice, manufactured	1919 1914 1909	58	447 476 341	6,298 8,439 7,003	372 219 189	569 327 213	1,515 1,046 866	NATCHEZ	1909	54 22	1,524	5, 361 2, 277	702 831	2,474 1,573	4,237 2,717
Lumber and timber prod- ucts,2	1919 1914	1,296	37, 435 29, 640	139,851 125,371	32,431 12,413	30,450 14,856	94,501 38,538	at a	1914 1909 1919	27	297 428	1,481	131 169	606	1,114
	1909	1,647	33, 397	149,715	12,583	14,207	42,793	93 Vicksburg		34 37 47	1,455 1,009 1,202	1,757	1,600 534 637	1,743 832 1,148	1,673

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

¹ Includes "boxes, wooden packing," and "lumber, planing-mill products, not including planing mills connected with sawmills."

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERSO	is enc	AGED	IN THE	NDUSTRY.		WAG NEARI	E EARNI EST REPR	ERS DEC	2. 15, c TIVE 1	OR DAY,	
				Sala-	Clerk	s, etc.		Wage earne	rs.		16 and	over,	Und	er 16.	
INDUSTRY.	Num- bor of estab- lish- ments.	Total.	and firm mem- bers.	ried offi- cers, super- in- tend- ents,	Male.	Fe- male.	Average num- ber.	Number, 15 Maximum month.		Total.	Male.	Fe- male.	Male.	Fe- male.	Capital,

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

	1 All industries																	
1	All industries	2, 455	64,452	2,811	2, 201	1,379	501	57,580	Oc 64,	,736	Ap 52,	653	(8)	(8)	(8)	(8)	(3)	Dollars: 154, 117, 337
2 3 4 5 6	Artificial stone products	3 4 76 3 4	17 75 289 4 872	1 2 100 3	2 9 3	7 3	1 6 1	14 56 177 1 821	Je De Oc 4 Ap 4 De	83 196 2	Jais	$\begin{bmatrix} 2\\ 35\\ 157\\ 0\\ 651 \end{bmatrix}$	23 82 195 2 936	23 78 188 2 846	4 1 90	6		124, 245 126, 176 306, 663 4, 200 1, 392, 903
7 8 9 10 11 12 13 14 15	eigar boxes. Bread and other bakery products. Brick, sewer pipe, and draintile. Brooms, from broom corn Butter. Canning and preserving, fish. Canning and preserving, oysters. Canning and preserving, vegetables. Carriage and wagon materials. Carriages and wagons, including re-	82 28 7 19 11 7 10 5	459 547 35 152 516 388 276 101 235	98 37 11 13 13 13 2 5 15	19 33 1 16 13 17 17 7	18 1 2 9 7 4 4 4	29 4 1 8 2 2 4	295 472 20 106 481 364 249 89 187	Oc Au My ⁴ Au Oc Mh No Au	24 139 671 514 624	Ja Ja So Ja Je Jy My Ja	283 335 14 68 74 6 65 64	309 606 35 113 673 502 635 87 203	271 588 16 103 176 122 249 87 203	25 10 9 484 377 381	13 18 10 1 5		709,029 1,230,183 18,747 365,850 710,787 485,710 417,136 86,823 614,227
16 17 18	pairs. Carriages and wagons. Repair work only. Cars and general shop construction and repairs by electric-railroad	7 7 5	183 52 18	8 7	10 2 2	12 7	1 1	152 35 16	No Jy 4 Ap 4	175 38 17	Fo Mh ¹ Ja ⁴	130 32 15	169 34 17	- 1			1 8	431,002 183,225 38,897
19	companies. Cars and general shop construction and repairs by steam-railroad	13	4,266		92	107	37	4,030	De 4	1,287	Jy 3	,746	4, 224	4, 199	25	ļ		4, 394, 222
20 21 22 23 24 20 26 27 28	companies. Coffee, roasting and grinding. Confectionery and ice cream. Connectionery. Ice cream. Copper, tin, and sheet-iron work. Cotton goods. Fortilizers. Flour-mill and gristmill products. Food preparations, not elsewhere	5 16 14	50 238 110 128 112 2,500 431 127 121	5 27 7 20 13 1 1	9 25 9- 16 8 62 31 7	16 16 6 10 4 18 25 6	1 12 3 9 3 13 5	28 158 85 73 84 2,406 370 61 81	My 4 Se Je Oe 4 Ja Mh Oe De	99 104 94 2,540 592 65 112	Fe Fe Mh Au 2 Je Ap	26 66 41 72 2,297 241 58 66	29 173 93 80 94 2,805 346 62 95	15 127 53 74 90 1,386 346 62 95	1,273	i	77	203, 623 2, 300, 856 215, 685 2, 085, 171 131, 634 6, 680, 362 4, 738, 555 600, 420 515, 178
29 30 31 32	specified. Foundry and machine-shop products Boiler shops and foundries. Machine shops. Machine shop and foundry combined.	43 6 25 12	572 117 237 218	44 4 32 8	31 4 11 16	27 4 13 10	10 2 2 6	460 103 179 178	De Au De	111 201 196	Mh Mh Ja	94 150 167	494 111 186 197	490 111 185 194	3 i 2	1		1,505,947 206,202 692,847 666,898
36 36 36	Gas, illuminating and heating Lee, manufactured Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with sawmills.	1 435	160 557 39,131 1,341	29 1,854 72	. 15 57 937 92	10 17 641 46	13 7 187 29	122 447 35, 512 1, 102	De Au De 4 De	133 623 0,842 1,213	Mh Ja Ap 31 Ja	106 302 1,042 970	134 479 45,533 1,245	134 478 45,204 1,238	226 2	94	9	1, 190, 879 2, 086, 356 87, 841, 015 2, 746, 400
37	Marble and stone work, monuments and tombstones.	12	106	18	4	1	5	78	Au 1	87	Ja	64	85	85				148, 402
38	Mattresses and spring beds, not elsowhere specified.	į.	55	7	7	1	1	39	No	44	Mh	36	44	35	9	1	·	95, 585
39 40 41 42 43	Printing and publishing, book and	49	637 2,800 16 15 255	7 3	200 2 1		13 29 1	2, 454 6 11	Jy 4 De Fe 4 (6)	3,319 7 11	Fo Au Au 4 (6)	355 1,496 5 11	3,252 6 11 194	3,142 1 11 144	24 10 5 46	100		2,744,257 12,317,330 12,682 27,250 458,142
44 45	Job. Job printing Book publishing without print-	34	251 4	31 4	16	10	11	183	No	195	Fe	175	194	144	40	4		455, 842 2, 300
46	ing. Printing and publishing, newspapers and periodicals.	1	683	173	50	26	22	412					431	319	78	36	1	
47 48	Printing and publishing	. 13 136	210 467			14 12	15	139 273	Oc De	141 289	Mh Ja	137 261	139 292	97 222	18 57	24	i	
49 50 51	Publishing without printing Saddlery and harness Shipbuilding, wooden, including	5 9	6 34 308	₩ €	5 1 1			27 248		53 596	No 4 Se	16 65	16 276	4 276	i	1	i	. 393, 765
52 53 54 55	Upholstering materials, excelsion Wood preserving		30 221	1	10	4			My	2,685 37 227	De Ja i De	2, 189 22 182	2,608 37 182	2,540 33 182	1		3 1	3, 471, 334 37, 968 911, 025 10, 742, 938

*All other industries embrace— Agricultural implements. 2 Belting, leather 1 Cars, steum-railroad, not including operations of railroad companies. 1	Clothing, men's. 1 Coffins, burial cases, and undertakers' goods 2 Cordage and twine. 1 Druggists' preparations 1	Flavoring extracts. 1 Formitue. 3 Knit goods. 1 Millinery, trimmed bats and hat trames. 1

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

COMBINED AND SPECIFIED INDUSTRIES: 1919.

			EXPE	NSES.							The second secon	P	ower,	A15	CANADA CA	
Sala	Salaries and wages. Rent and taxe			For ma	terials.			Without the comment	Prim	ary hor	sepowe	r.	alan iyo aday ka a balan	Elec-		
			For		Taxes,			Value of products.	Value added by manufac-		******	Own				trie horse- power
Officials.	Clerks, etc.	Wage earners.	contract work.	Rent of factory.	Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	products.	ture.	Total.	Steam engines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Water pow- er.1	Rent- ed.2	generated in establishments reporting.

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

											USTRIE						
Dollars. 5, 242, 807	Dollars. 2, 684, 012	Dollars. 51,255,716	Dollars. 2, 084, 155	Dollars. 221,169	Dollars. 4, 377, 213	Dollars. 93,682,626	Dollars. 2,995,245	Dollars. 197,746,987	Dollars. 101, 069, 116	200, 814	170, 894	13,096	2,957	181	13,686	21, 185	1
5,720 15,512	678 6,527	13,465 48,987	600	199 3,360	1,642 5,662	34, 269 70, 083	822 1,866	65, 097	30,006 105,728	5					5		2
2,100	6,472	215, 637 254	3,273	23,360 710	7,082	163,014	13,111	177, 677 686, 164	510,039	211 472	140		248		71 224		2 3 4 5
45,677	19,575	624, 388		1,200	3,724	3,597 509,287	96 6,782	4,930 1,059,191	1,237 543,122	1,340	1,340				6	900	5 6
33,211	36, 451	248, 577	3,800	26,751	7,018	1,400,805	49,572	2,189,341	738,964	662	3		15		644	500	ĺ
55,745 900	14,418 2,822	364, 947 16, 880		160 515	10,055 152	116,570 35,298	175,222 504	2,189,341 925,222 75,163	633,430 39,361	1,702 27	1,680		22 12				7 8 9
27,826 26,900	16,012 10,688	99,825 169,561	2,513	5, 524 1, 370	4, 158 5, 195	1,865,970 606,791	28,645 19,617	2,248,099	353,484 255,724	501 418	187 408	i	12	• • • • • •	15 301		10
31,142	6,983 8,098	111, 178 93, 806	46, 358	900 270	10, 679 1, 480	409, 547 451, 937	21,381 8,461	882, 132 796, 920 624, 312	365,992	200	207			•••••	10 2		11 12
12,300 46,411	32,771	63, 273 172, 564	9,067 4,508	50 1,388	1, 181 63, 677	81,314 365,964	9,680	172, 169	163,914 90,745	219 172	203 172			•••••	16		13 14
28,411	21, 321	140, 117	2,000	1,040	58, 413			933, 042	557,398	534	295	·····	79	•••••	160	•••••	15
18,000 2,700	11,450	32, 447 18, 942	1,508	348	5, 264 486	336,716 29,248	6,923 2,757	757, 782 175, 260	414,143 143,255	425 100	295		31 48		99 61		16 17
2,100		. 10,012			480	13, 802	1, 231	40, 556	25, 523	48	10		• • • • • • • • • • • • • • • • • • • •	• • • • • •	38		18
259,869	224,958	5,648,985		•••••	15, 333	3,853,513	205, 343	10, 225, 791	6, 166, 905	4, 433	1,557			•••••	2,876		19
17,095	21,857	12,850		1,965	4,051	470, 760	2,821	620, 137	146,556	10					40		- Ou
17, 095 . 62, 463 . 25, 370 . 37, 093 . 11, 470	29, 293 13, 452	108, 333 43, 546	2, 403	7, 260	23, 969 5, 228	670, 704 266, 775	34, 896 7, 904	1, 211, 067 454, 491	505,467	645 645	443		25	• • • • • • • • • • • • • • • • • • • •	49 177		21
37,093 11,470	15, Si1 5, 453	64,787 87,828	2, 403	2,370 4,890 4,050	18,741 1,725	403, 929	26,932	756, 576	179,752 325,715	36 609	23 420	· · · · · · · · ·	25	• • • • • • •	13 164		22 23
163,595 86,880 14,045	43, 166 36, 568	1,537,147 284,818	400		457, 764	151,720 4,786,440	1,511 187,667	462, 238 8, 066, 769	309,007 3,092,662	6, 939	6,030		6		34 903	647	24 25
14,045 32,184	7,068 24,456	48,678 53,357	150	4,800 3,391	159, 357 14, 847	2,612,394 1,879,641	55,654 17,167	3, 626, 674 2, 091, 663	958, 626 194, 855	2,316 1,634	588 450				1,728 729	47	20 21 22 23 24 25 26 27 28
99,986	38,893	589,743	150	2, 225 4, 830	9, 531 29, 369	1, 417, 567	5,981	1, 683, 572	260,024	473	30		65		378		
11,900 35,320	6,001 16,490	132,506 199,851	150	300	6,512	801, 689 133, 433	48,447 $12,446$ $17,106$	1,785,569 361,706	935, 433 218, 827	1, 240 245	405 40		148		687 205	88 5	29 30
52,766	16, 402	257, 326		$1,920 \\ 2,610$	6, 136 16, 691	323,704 314,552	17,106 18,895	666, 844 754, 019	326,034 390,572	593 402	315 50		98 50		180 302	83	$\frac{31}{32}$
22,535 89,631	16, 293 25, 609	99, 945 371, 546	100 100	3,420	16, 174	37, 254	166,717	411, 344	207, 373	228	167				61		33 34
2,507,943 231,433	1,133,671 78,758	30,995,202 811,333	2,486,895	2,039 46,092	61,042 2,457,696	219,950 26,060,008	348, 935 385, 514	1, 515, 223 87, 508, 229	946,338 61,062,707	6, 298 132, 508	5,759 $122,591$	8,275	150 1,090	179	389 373	129 14,860	35
, ,,,,,,,	10,100	011, 000	29, 192	6, 677	93, 280	3, 473, 739	14,677	5, 933, 133	2,444,717	6,003	5, 205	260	20		518	48	36
6,778	8,408	59, 297	1,821	2,822	1,775	190, 324	4,963	389, 642	194,355	114			10	• • • • • • • • • • • • • • • • • • • •	104		37
10,750	845	27, 801	240	2,083	2, 359	127, 913	1,748	207, 939	78,278	120					120		38
159, 380 502, 996	62, 226 212, 964	268,736 1,663,938	905 15, 241	15,703 5,082	162, 144	1,653,949	55, 559	3,333,437 39,202, 1 88	1,623,929	1,148	502	****	42		604	50	39
4,200 1,200	600	2,552 8,350		660	448, 343 305	32, 912, 771 11, 728	828, 575 86	29,490	5, 460, 842 17, 685 15, 401	20, 537	18,750	550 	61		1,176	1,467	40 41
36, 159	18,064	172, 587	14, 103	11,409	6,311	7, 908 226, 172	1,780 7,597	25,089 661,719	427,950	40 187	40		5	• • • • • • • • • • • • • • • • • • •	182		42 43
36,159	18,064	172, 587	10,499 3,604	11,400	$\substack{6,309\\2}$	226, 137 35	7,597	654, 894 6, 825	421,160 6,790	187			5	• • • • •	182		44 45
104,836	51,938	341,665	10,733	22,670	18, 239	292, 267	25,084	1,347,777	1,030,426	511			162		349	1	46
55,857 47,379	28,855 23,083	108, 411 233, 254	200 1,916	5, 882 16, 488	7,126	86,302	7,106	478, 225	384,817	136			5		131		47
1,600			8,617	300	11, 113	205, 538	17, 978	852, 227	628,711	375		•••••	157	••••	218	1	48
2,460 66,733	50, 294	9,894 359,597		1,260	425	427 15,722	547	17, 325 41, 479	16,898 25,210	20				····· <u>2</u> ·	18	2	49 50
131,001	31,979	1,574,063	E1 000	731	896	393, 356	24,806	1,028,361	610, 199	635	437		11	•••••	187	1	51
3,600 23,429	5,931	18, 335	51,003	. 776	148, 968 232	1,276,579 21,142	13,822 3,715	5,547,813 66,383	4,257,412 41,526 493,352	78 330	20 330		58				52 53
245, 500	393, 225	195,525 3,641,327	600	5, 467	15, 554 104, 083	625, 107 3, 364, 031	65,787 148,746	1, 184, 246 8, 659, 991	493,352 5,147,214	1,180 6,588	1,080 1,865	4,010	261		100 452	178 2,759	54 55
					,	,,	-,	1 -,,	· -,,	,	'	1 , , , , , ,			-0-	-, 100	["

	12(1)		•
Models and patterns, not including paper patterns. Paper and wood pulp Pickles and sauces. Saws.	1 Shipbuilding, steel	Tools, not elsewhere specified	1 2 1

<sup>Same number reported for one or more other months.
None reported for one or more other months.
Same number reported throughout the year.</sup>

MANUFACTURES—MISSISSIPPI.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

		en e	PERSO	ns enc	GAGED	IN THE	INDUSTRY.		WAC NEARI	E EARNI EST REPR	ERS DEC ESENTA	2. 15, 0 TIVE D	OR OAY.	
			Sala-	Clerk	s, etc.		Wage earne	ers.		16 and	over.	Unde	er 16.	
INDUSTRY. INDUSTRY. IS: III:	of b- -	Pro- prie- tors and firm	ried offi- cers, super- in- tend-		Fe-	A ver-	Number, 15	5th day of—	Total.		Fe-		177	Capital,
		mem- bers.		Male.	male.	age num- ber.	Maximum month.	Minimum month.		Mule.	male.	Male,	Fe- male.	

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

1 2 3 4 5	Biloxi. Columbus Greenville. Hattisaburg. Jackson		879 652 941 1,358 1,575	34 25 36 21 34	39 40 39 29 94	14 27 31 31 82	5 11 13 10 39	787 549 822 1,267 1,326	Oc Ja De Ja Oc	1,067 632 952 1,347 1,551	Je 211 Je 434 Mh 723 Au 1,189 Je 1,094	1,079 571 954 1,241 1,493	408 496 896 1,228 1,393	668 64 55 11 56	0	2 6	Dollars. 1,268,293 1,312,819 3,904,601 3,100,518 6,245,549
6 7 8 9	Laurel Meridian Natchez Vicksburg	23 54 22 34	2,432 2,458 1,291 1,610	8 45 20 25	103 130 48 70	76 81 26 42	22 37 17 18	2,223 2,165 1,180 1,455	De Mh De No	2,490 2,322 1,313 1,544	Fe 1,880 Au 1,995 Fe 1,048 Fe 1,345	2,848 2,192 1,317 1,549	2,434 1,854 1,113 1,425	354 259 204 120	30 10 4		9, 802, 246 6, 687, 067 2, 183, 787 3, 033, 987

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

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

			1237.043	vano							************					
		_ a consequence of the consequence	EXPE	Notes.								P	OWER.			
Sala	aries and w	rages.		Rent a	nd taxes.	For ma	terials.			***************************************	Prin	ary hor	sepowe	r.		Elec-
			For		Taxes,			Value of products.	Value added by manufac-			Own	ed.			tric horse- power
Officials.	Clerks, etc.	Wage earners.	contract work.	Rent of factory.	Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	products.	ture.	Total.	Steam engines (not tur- bines).	Steam- tu r- bines.	Inter- nal- com- bus- tion en- gines.	Water pow- er.1	Rent- ed.2	generated in establishments reporting.

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

123,430 32,436 33,731 33,628 2,780 37,000 3	25 2 8 8 8 15 15 15 15 15 2 8 8 8 15 15 2 8 15 15 15 15 15 15 15 15 15 15 15 15 15	163 12 286	1 2 3 4 5 6 7 8 9
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¹ Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

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DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES MANUFACTURES: 1919

MISSOURI

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

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EXPLANATION OF TERMS	2	Manufactures, by population groups, in cities of 10,000 inhabitants
GENERAL STATISTICS.		or more
General character of the state	2	Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state.
Comparative summary	4	Number and harranawar of trans of miles
Statistics for the state, by counties.	5	Number and horsepower of types of prime movers.
Principal industries, ranked by value of products	7	Fuel consumed
Persons engaged in manufacturing industries.	7	SPECIAL STATISTICS.
Average number of wage earners for selected industries, with per	•	Slaughtering and meat packing
cent, by sex and age	8	Boots and shoes
Average number of wage earners, by sex and age, and value of prod-		Flour-mill and gristmill products
ucts for cities of 10,000 inhabitants or more.	8	Printing and publishing
Wage earners, by months	9	Butter
Wage earners, by months, for selected industries and for cities	9	Electrical machinery, apparatus, and supplies.
Average number of wage earners, by prevailing hours of labor per		Laundries
week, for selected industries and for cities	10	Dyeing and cleaning
Size of establishments, by average number of wage earners, for		Custom sawmills and custom gristmills.
selected industries and for cities.	12	OTALITAL T WILLIAM
Size of establishments, by value of products	13	GENERAL TABLES.
Size of establishments, by value of products, for selected industries.	13	Table 30Comparative summary for selected industries and for
Size of establishments, by value of products, for cities of 10,000		cities: 1919, 1914, and 1909
inhabitants or more	15	Table 31.—Detailed statement of all industries combined and
Character of ownership, for selected industries and for cities	16	specified industries: 1919



WASHINGTON GOVERNMENT PRINTING OFFICE

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

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 kepp lt, 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 theoity, 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.

of products.

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

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 1994, 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

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 differs of corporations, (3) superintendents and managers, (4) cierks (including other subordinate salaried employees), and (5) wage earners. In the reports for the consuses 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.

this 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 muchfrom 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 sox 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 number 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 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

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 cont 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 soveral industries have been added to give the average distribution for each state as a whole and for the entire country. entire country.

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 soxes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to ealer late accurately even so simple an average as this, since the number of wage earner fluctuates from month to month in every industry, and in some case 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 alarger number than would be required to perform the work in any industry if all were continuously employed during the year.

Preveiling hours of labor.—No attempt was made to ascertain the number of

Prevailing hours of labor.—No attempt was made to ascertain the number of vage 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 tiest 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 as follows

"The answer should show the total amount of capital, both owned and borowed, on the last day of the business year reported. All the items of fixed and live applial 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 routed, that fact should be so stated and only the value of the owned property given. Do not include scourities 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 consuses 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 emitted from the schedule. While there are some establishments whose eccounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

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

Rent and taxes.—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal revenue tax on manufactures (tobacco, beverages, etc.), exciso 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.

Talue 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 on, 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 entirecest 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.

MISSOURI.

GENERAL STATISTICS.

General character of the state. Missouri has a gross area of 69,420 square miles, of which 68,727 represent land surface. The inhabitants of the state in 1900 numbered 3,106,665; in 1910, 3,293,335; and in 1920. 3,404,055. In total population Missouri ranked ninth among the states in 1920. The number of inhabitants per square mile in 1910 was 47.9, the corresponding figure for 1920 being 49.5.

In 1920 there were 13 cities in the state-Cape Girardeau, Carthage, Columbia, Hannibal, Independence, Jefferson City, Joplin, Kansas City, Moberly, St. Joseph, St. Louis, Sedalia, and Springfield-having more than 10,000 inhabitants. The combined population of these 13 cities in that year was 1,354,925, which formed 39.8 per cent of the total population for Missouri. In 1919 these cities reported 75.6 per cent of the value of the state's manufactured products.

Importance and growth of manufactures (Table 1) .-The large increases in salaries and wages, cost of materials, and value of products from 1914 to 1919, as presented in Table 1, are largely due to the 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 large increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).— Figures are not available for comparison of the totals for the 114 counties in 1919 with those for prior censuses. St. Louis, an independent city, is included in this table in order to show the complete statistics for the state. This city alone reported 55.3 per cent of the average number of wage earners in the state, and 54.7 per cent of the value of products.

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 31.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 1,500 or more wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—During the census period 1914 to 1919 all cities for which comparative figures are given show increases in value of products, due largely to the increased value of commodities at the later period.

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

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months for selected industries, similar data are given for males and females for all industries combined, and for each of the 13 cities shown in the table. 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, 88.4 per cent were in the 13 cities, while of the male wage earners, only 72.9 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 Missouri. In that year only 18.8 per cent of the wage earners were included in the group "48 and under," as against 46.6 per cent in 1919. In 1914. the "60" and "Over 60" groups constituted 23.9 per cent of the total wage earners, as compared with 9 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 95.5 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 34.6 per cent of the total number of

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, eleamosynary, 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 soperations, except for establishments which began or discontinued business during the

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 keppled 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

chief value.

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

Selected industries.—The general tables at the end of this bulletin give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises or 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 1994, 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 consuses, 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

Influential the figures fall 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 1839 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, olerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 lit 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 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 sum of the numbers reported for the very has been calculated by dividing the sum of the number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for a

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.

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 carners. Such averages would possess little real value, because they would be based on the earnings of employees of both soxes, 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 borrow on the last day of the business year reported. All the items of fixed and borrowed on the last day of the business year reported. All the items of fixed and livecapital may be taken at the amounts carried on the books. If land or buildings are rested, that fact should be stated and no value given. If a part of the land or buildings sowned, 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 consus 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 supplie, 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 (tobacce, 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.

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 report "value added by manufacture."

Cost of manufacture and profits.—The consum date do not show the entirects.

Cost of manufacture and profits.—The census data do not show the entirecest 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 building other than factory or works, insurance, ordinary repairs, advertising, and other control of the sundry expenses.

Primary horsepower.—This item represents the total primary power generaled 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 daly 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 fuells impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

wage earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 4.5 per cent of the total number of manufacturing establishments in the state, but reported 65.4 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for all items for 1909, and for the average number of wage earners and value added by manufacture for 1914.

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

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

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 32.6 per cent of the number of establishments in the state in 1919, they reported 89.4 per cent of the average number of wage earners and 92.9 per cent of the total value of products. During the five-year period 1914 to 1919 the average number of wage earners in cor-

porations increased 41,186, or 30.9 per cent, and the value of products, \$906,046,660, or 157.6 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in these 13 cities in 1919 represented 58.3 per cent of the total in the state. They reported in that year 76.7 per cent of the average number of wage earners and 75.6 per cent of the value of products. These proportions do not differ materially from those of 1914.

Principal industries in Kansas City, St. Joseph, and St. Louis, with per cent of total for state (Table 16).—This table presents the principal industries in each of the three cities in the state having 50,000 inhabitants or more in 1920, the figures being given for those which can be shown without disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 85,918 horsepower, or 22 per cent. This increase, however, is due to the gain of 95,840 horsepower, or 111 per cent, in rented power, since owned power decreased 9,922 horsepower, or 3.3 per cent, during the five-year period. Of the total horsepower in 1914, 77.9 per cent was owned power and 22.1 per cent rented. The corresponding proportions for 1919 were 61.8 per cent and 38.2 per cent, respectively.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. In 1919 six industries combined—brick and tile, terra-cotta, and fire-clay products; steamrailroad repair shops; cement; flour and grist mills; manufactured gas; and slaughtering and meat packing—consumed 54.1 per cent of the bituminous coal.

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

							R CENT OF	THOPPIST	21
		MANUF	ACTURING INDUS	TRIES,		PE	H CENT OF	MCREASI	· · · · · · · · · · · · · · · · · · ·
	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904- 1909	1899- 1904
Number of establishments	8,592	. 8,386	8,375	6,464	6, 853	2.5	0.1	29.6	-5.7
Persons engaged Proprietors and firm members Salaried employees. Wage earners (average number)	244, 939 7, 676 42, 226 195, 037	188, 266 7, 698 28, 386 152, 182	185, 705 8, 226 24, 486 152, 993	156, 585 6, 299 17, 119 133, 167	(2) (2) 12,474 107,704	30.1 -0.3 48.8 28.2	1.4 -6.4 15.9 -0.5	18.6 30.6 43.0 14.9	37.2 23.6
Primary horsepower	477,303 \$938,760,773	391, 385 \$522, 548, 083	340, 467 \$444, 343, 135	247, 861 \$379, 368, 827	189, 117 \$223, 781, 088	22.0 79.7	15.0 17.6	37.4 17.1	31.1 69.5
Salaries and wages. Salaries. Wages.	275, 560, 003 79, 044, 650 196, 515, 353	126, 494, 933 37, 297, 456 89, 1 97, 477	109, 836, 698 28, 993, 922 80, 842, 776	85, 646, 364 19, 002, 238 66, 644, 126	60,008,556 13,294,822 46,713,734	117.8 111.9 120.3	15. 2 28. 6 10. 3	28. 2 52. 6 21. 3	42.7 42.9 42.7
Paid for contract work. Rent and taxes. Cost of materials. Value of products. Value added by manufacture 4	4,338,793 62,450,247 1,056,457,164 1,594,208,338 537,751,174	2, 602, 416 18, 023, 569 388, 714, 859 637, 952, 128 249, 237, 269	2, 667, 451 14, 617, 099 354, 411, 151 574, 111, 070 219, 699, 919	2,649,428 3 1,681,955 252,258,417 439,548,957 187,290,540	(2) (2) 184, 189, 030 316, 304, 095 132, 115, 065	66.7 246.5 171.8 149.9 115.8	-2.4 23.3 9.7 11.1 13.4	0.7 40.0 30.6 17.3	37.0 39.0 41.8

¹A minus sign (--) denotes decrease.

² Figures not available.

³ Exclusive of internal revenue,

⁴ Value of products less cost of materials.

MANUFACTURES—MISSOURI.

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

COUNTY.	Number of estab-	WAGI	E EAHNERS.					
GOUNTI	lish- ments,	Average number.	Wages,	Rent and taxes,	Cost of materials.	Value of products,	Value added by manufacture.	Primary horse- power.
The state	8,592	195,037	\$196, 515, 353	\$62, 450, 247	\$1,056,457,164	\$ 1,594,208,338	\$537,751,174	- AMM no
Adair Andrew Atchison Andrein Barry	13 11 40 69	482 70 34 853 516	346, 237 35, 134 23, 836 710, 471 515, 187	41,364 3,539 15,581 92,555 31,569	2,536,047 76,055 169,792 2,273,273 927,096	3, 343, 447 139, 898 278, 215 3, 965, 406 1, 711, 623	807, 400 63, 843 108, 423 1,722, 133 784, 527	477, 30 75(942 278 1, 731 2, 127
Barton. Bates Benton Bollinger Boone	11	147 87 17 140 439	144,279 61,436 11,372 90,896 294,916	5,033 5,835 1,246 1,466 52,066	265, 941 202, 455 76, 916 294, 886 1, 677, 313	449,998 364,816 118,259 514,402 2,464,786	184,057 162,361 41,343 219,516	923 511 132
Buchanan Butler Cald well Callaway. Camden	233 34 20 24 7	11, 479 1, 104 48 252 9	12,414,347 895,060 43,746 218,302 3,260	1,793,724 120,383 4,212 18,881 256	176, 495, 178 2, 132, 862 130, 973 783, 222 55, 768	204, 590, 961 4, 024, 049 225, 911 1, 218, 891 69, 096	787, 473 28, 095, 783 1, 891, 187 94, 938 435, 669	1,025 1,347 26,672 3,606 218 744
Cape Girardeau	99 35 15 33 22	1,992 67 410 120 23	1,612,948 84,010 487,657 119,025 16,419	279,619 5,961 11,398 6,323 1,687	8,346,034 387,061 1,117,713 418,612 101,604	12,409,073 544,793 1,649,198 649,677	18, 328 4, 063, 039 167, 132 631, 485 231, 065 61, 873	97 8, 739 479 2, 941 1, 220
Zhartfon Thristlan Nark Nay Nay Ninton	46 38 14 53 26	75 85 60 1,080 101	60, 617 30, 885 48, 774 1, 107, 204 74, 122	13, 197 4, 105 4, 200 137, 496 6, 286	272, 763 596, 666 433, 341 8, 014, 364 303, 197	223,537 439,238 725,575 597,793 10,685,568 435,054	166, 475 128, 909 164, 452 2, 671, 204	396 768 765 202 3,626 284
ane. Aoper 18w Vord. Balio. Balias.	55 41 14 20 11	$\begin{array}{c c} 1,728 \\ 230 \\ 10 \\ 19 \\ 10 \end{array}$	1,239,476 153,560 11,846 16,798 13,780	123,838 45,885 1,678 2,296 595	7, 484, 104 831, 853 213, 283 156, 002 113, 273	10,373,241 1,234,572 257,626 218,004 143,898	131, 857 2, 889, 137 402, 719 44, 343 62, 002	2,466 1,095 205 431
or Kabb ent. oogles. unklin.	16 15 24 35 38	51 9 165 75 490	38, 373 6, 923 259, 152 32, 981 808, 758	4,579 1,626 11,687 2,563 44,428	323, 585 53, 141 945, 980 367, 215 840, 549	422, 839 80, 540 1, 298, 380 531, 390 1, 547, 741	30, 625 99, 254 33, 399 352, 400 164, 175	246 167 254 889 743
ssonace miry een undy	59 23 25 145 23	1,172 207 80 4,450 358	812, 362 161, 682 101, 463 4, 780, 009 439, 269	188, 474 14,621 5,546 370, 265 6,036	6,328,765 2,405,650 105,716 16,842,274 1,164,693	8,119,558 2,758,413 280,827 25,608,705 1,667,072	707, 192 1,790, 793 352, 763 175, 111 8,766, 273	1,801 2,968 804 251 10,460
au y lè. lè. Ward.	18 59 0 17 20	29 480 7 30 81	19, 452 436, 415 4, 960 25, 600 71, 119	3,944 20,498 223 3,409 12,977	88, 280 1,614,727 150,002 202,362 893,503	151,567 2,468,473 188,242 800,681 1,136,285	63, 287 853, 746 29, 240 604, 319 242, 782	552 246 2,214 154 73 484
kson per erson.	41 58 1,052 254 44	102 241 23, 856 3, 450 3, 244	65,356 190,254 26,130,155 3,171,071 3,723,531	10,406 4,892 7,747,663 768,491 564,290	1,415,242 189,964 148,337,318 20,917,267 7,902,953	1,657,460 585,650 221,936,283 30,999,559 18,807,347	242, 182 242, 218 395, 686 73, 598, 965 10, 082, 292 5, 904, 394	741 1,816 57,027 12,071
lede. yetto. reneco	35 9 28 50 53	145 40 75 155 210	$ \begin{array}{c} 101,829 \\ 31,442 \\ 44,583 \\ 130,880 \\ 152,730 \end{array} $	34,100 2,101 2,740 38,380 52,010	2, 976, 907 100, 353 351, 331 1, 960, 656 3, 808, 623	3,402,781 174,880 481,613 2,365,532 4,371,941	425, 874 74, 527 130, 282 404, 870 563, 318	907 72 541 1,272 1,730
ngston onald	27 24 58 30 30	201 70 518 278 72	150, 250 70, 457 304, 985 198, 245 52, 250	0,285 4,725 59,037 17,722 3,386	196, 459 217, 599 1, 930, 156 1, 498, 878 384, 612	442, 384 357, 371 2, 931, 727 2, 013, 535 536, 507	245,925 139,772 1,001,571 514,657 151,895	423 772 578 1,169
25	51 34 9 85 8	374 6 3,847 10	72,230 362,340 2,594 4,309,149 7,084	8,231 9,471 252 351,942 1,096	432, 453 1, 167, 536 65, 944 12, 077, 967 22, 332	613,381 1,147,940 76,553 21,394,577 48,542	180, 928 1 19, 596 10, 669 9, 316, 610 26, 210	535 3,229 155 17,938
ssippi Lean Do Somery Liadrid Da	21 17 31 21 30	253 78 142 39 173	196, 234 78, 804 145, 974 30, 365 149, 023	13,483 23,934 9,051 2,931 15,583	715,715 883,637 848,867 75,241 708,746	1,075,603 1,220,259 1,108,495 160,843 1,171,071	359, 888 336, 622 259, 628 85, 602 372, 925	567 568 529 284 1,440
way	20 47 63 43 18	1,029 219 148 15	103, 269 653, 407 170, 856 108, 324 10, 111	2, 231 110, 071 25, 210 25, 227 1, 196	398, 784 976, 661 1,865, 637 337, 922 92, 838	478, 803 2, 486, 233 2, 319, 648 616, 897 131, 151	80,019 1,510,572 454,011 278,975 38,313	806 3,499 1,592 618 320
20(28 11 28 47 74	68 6 723 97 2,608	32, 631 2, 984 527, 472 64, 966 3, 257, 888	4,832 310 54,447 6,411 103,703	416,299 37,392 1,099,729 638,304 5,739,130	569, 681 67, 928 2, 245, 904 893, 241 9, 848, 299	153,382 30,536 1,146,265 254,937 4,109,169	725 203 2,589 1,017 5,202

MANUFACTURES—MISSOURI.

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

	Number of estab-	WAGE	EARNERS.	Rent and	Cost of	Value of	Mal	Det
COUNTY.	lish- ments.	Average number.	Wages.	taxes.	materials.	products.	Value added by manufacture.	Primary horse- power,
Phelps	24	30	\$21,924	\$3,832	\$224, 213	\$283,145	\$58,932	425
	43	533	517,709	58,839	2, 121, 311	3,760,696	1,639,385	2,001
	17	52	44,990	3,059	906, 718	1,075,321	168,603	648
	24	40	33,157	3,765	504, 691	609,657	104,966	538
	18	35	15,410	1,680	130, 758	176,340	45,582	197
Putnam	19	27	19,949	3,094	94,674	162,716	68,042	135
Rails	6	6	3,914	922	9,426	26,314	16,888	15
Randolph	36	1,460	1,636,040	85,806	3,790,111	6,342,315	2,552,204	2,276
Ray	30	77	64,118	8,889	356,766	487,799	131,033	378
Reynolds	77	466	390,261	17,964	332,775	1,375,673	1,042,898	2,464
Ripley St. Charles St. Clair St. Francois St. Francois	24 40 30 41 153	105 1,400 29 222 6,882	80, 402 1, 259, 738 28, 015 189, 073 7, 330, 837	5, 081 714, 202 1, 947 14, 117 1, 025, 477	188, 774 7, 439, 396 107, 184 940, 243 10, 590, 002	$\begin{array}{r} 431,543 \\ 10,542,663 \\ 187,636 \\ 1,344,666 \\ 26,688,812 \end{array}$	242,769 8,103,267 80,452 404,423 16,098,810	630 3,376 398 1,091 25,131
St. Louis city ¹ . Sto. Genevieve. Saline. Schuyler Scotland	3,205	107, 919	108, 557, 326	46,680,451	540, 826, 347	871,700,438	330, 874, 091	195,697
	35	259	237, 199	28,469	1, 684, 015	2,326,622	642, 607	1,612
	43	650	745, 200	48,667	5, 165, 669	6,177,342	1, 011, 673	1,620
	20	10	6, 508	1,073	57, 099	82,710	25, 611	209
	11	61	47, 934	1,360	61, 128	129,083	67, 955	129
Scott.	31	539	380,631	45,560	4,109,528	5,140,012	1,030,484	1,969
Shannon	26	279	219,571	9,595	181,527	504,657	323,130	1,068
Shelby.	17	27	25,838	2,426	103,432	180,545	77,113	273
Stoddard	58	505	385,111	13,204	2,008,657	2,859,633	850,976	2,554
Stone.	42	285	96,388	5,940	311,057	596,846	285,789	961
Sullivan Taney Texas. Vernon Warren	20 16 50 43	13 26 57 361 27	11,671 23,733 41,504 454,230 28,297	1,716 1,152 2,145 11,015 1,204	58, 880 59, 678 416, 474 489, 306 48, 385	90, 880 120, 494 573, 548 1, 140, 850 107, 339	41,000 60,816 157,074 651,544 58,954	138 391 971 833 199
Washington.	20	90	77,761	13,045	793, 201	1,345,916	552,715	573
Wayne.	40	62	55,028	8,394	296, 993	426,173	129,180	714
Wobster	65	211	71,443	4,331	550, 369	720,179	169,810	767
Worth.	12	12	7,930	1,554	37, 357	71,872	34,515	64
Wright.	28	127	44,684	13,263	1, 298, 819	1,499,276	200,457	561

¹ An independent city, included to complete the statistics for the state.

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

	r of aents.	WAG EARNI		VALUE PRODUC	OF TS.	VALU ADDEL MANU TUR	BY FAC-		r of nents.	WAC EARNI	ers.	YALUE PRODUC		VALU ADDED MANUF TURE	BY AC-
industry.	Number of establishments.	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	industry.	Number of establishmen	A verage number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries	8,592	195,037	100, 0	\$1,594,208	100, 0	\$537,751	100. 0	Soap	7	652	0.3	\$8,556	0.5 0.5	\$2,888 2,350	0.5
		8,290 3,015	4. 3 1, 5	246,610 113,297	15. 5 7. 1	18,001 15,113	3.5	Brass and bronze products. Copper, tin, and sheet-iron work. Wirework, including wire rope and cable, not elsewhere specified	21 180	608 1,208	0.3 0.6	8, 208 8, 146	0.5	3,594	0.4
Slaughtering and meat packing Flour-mill and gristmill products. Boots and shoes, not including rubber boots and shoes	54	17, 458	9.0	109,193	6. 9 3. 9	32, 268 12, 500	6.0	Millinery and lace goods, not else-	ll	1,010	0.5	7,790	0.5	2,972 3,288	0.6
Alltohlobites aching shop prod-	301	1,865 9,530	1.0	62,625	3. 9	29,489	2.3 5.5	where specified	42	1,809	0.9	7,434	ı	1	1
foundry and machinessady from the states and sanctain and including operations of railroad companies	8	4,307	2, 2	46,854	2. 9	15,065	2.8	Boxes, wooden packing, except cigar boxes. Explosives. Class Ice, manufactured. Tinware, not elsewherespecified	29 5 4 129 10	1,827 566 2,034 1,174 1,516	0.9 0.3 1.1 0.6 0.8	7,312 7,172 6,927 6,505 6,124	0.5 0.4 0.4 0.4 0.4	3,136 3,687 4,367 4,397 2,426 2,038	0.6 0.7 0.8 0.8 0.5
and shull he keeps products	975	2,752 6,156	1. 4 3. 2	44,922 43,839	2.8 2.7	19, 421 17, 483	3, 6 3, 2	Awnings, tents, and sails	23	1,516 771 1,063	0.4	5,824 5,544	0.4	2,038	0.4
Bread and other based y feet designed and other than paper, not including bags made in textile mills. Clothing, men's. Cars and general shop construction and repairs by steam-railroad	[1,752 6,823	0.9 3.5	38,021 35,839	2.4	5,301 13,663	1.0 2.5	Structural ironwork, not made in steel works or rolling mills. Stamped ware, not elsewhere specified. Automobile repairing. Cooperage. Druggists' preparations.	7 417 30	662 1,283 677	0. 3 0. 7 0. 3	5,427 5,212 5,161	0.3 0.3 0.3	2,454 3,135 1,908 2,242	0.5 0.6 0.4 0.4
companies	1 10	13,471 814	6.9	33,021	2, 1	20,294 7,012	3.8 1.3		36	648 346	0.3	4,832	0.3	798	0.1
Coffee, roasting and grinding Printing and publishing, news- papers and periodicals	774	4,183 1,593	2. 2	30,012	1.9	18,152	3.4	Pickles, preserves, and sauces Boot and shoe findings Carriages and wagons, including	12	484 885	0.2	4,576 4,446	0.3	1,170 1,982	0.2
Boot and silve cut stock. book and	1	5,866 930	3. 0 0. 5	28,696 25,880 24,611 24,366	1.8 1.6 1.5	16,642 3,495	0.4 3.1 0.6	repairs. Oleomargarine and other butter substitutes. Trunks and valises.	113 4 20	197	0.1	4,415 4,279	0.3	728 1,882	0.1
job	20	2,930	1, 5	II	1.5	3,495 20,642	3.8	Oll - et algeryhana Engeiffed	, E	99	0.1	4,175 4,166	0.3	1,230 2,665	0.2
Confectionery and ice cream. Food preparations, not elsewhere specified. Butter. Plantical machinery apparatus.	. 220	3,669 1,454	0.7	23,408 23,463 22,148	1.5	5,256 2,112	1.0	Circle steam, gas, and water—Rubber tires, tubes, and rubber goods, not elsewhere specified—Marile and stone work—Leather, tanned, curried, and	10 7 154	782 621 840	0.4 0.3 0.4	3,865 3,803	0. 3 0. 2 0. 2	1,387 2,080	0.3
Butter Electrical machinery, apparatus, and supplies Clothing, women's.	. 66	6,367	3.3	22,148 22,008 18,434	1.4 1.4 1.2	13,845 6,940	2.6 1.3	Leather, tanned, curried, and finished	7	265	0.1	3,770	0.2	824	0.2
Clothing, women's	. 86	3,308	1.7	16.155	1.0	7,831	1.5	Mineral and soda waters Poultry, killing and dressing, not	178	476	0.2	3,598	0. 2	2,056	0.4
Stoves and hot-air furnaces	$\frac{19}{142}$	3,373 2,462 1,040 898 5,283	1.3 0.5 0.5 2.7	15,340 14,591 14,531 14,026	1.0 0.9 0.9 0.9	9,274 9,400 4,813 9,101	1.7 1.7 0.9 1.7	Poultry, killing and dressing, not done in slaughtering and meat- packing establishments. Coffins, burial cases, and under- takers' goods.	6	142 608	0.1	3,308 3,253	0.2	359 1,469	0.1
	l l	1,253	0.6	13,538	0.8	5,821	1.1	takers' goods. Bookbinding and blank-book making	1	977	0.5	3,195	0.2	1,863	0.3
Chemicals. Iron and steel, steel works and rolling mills. Lumber, planing-mill products,	. 5	2,647	1.4	12,537	0.8	6,876	1.3	Furnishing goods, men's Tobacco, cigars	12 279	374 932	0, 2 0, 5	2,893 2,830	0.2 0.2	1, 102 1, 541	0.2 0.3
rolling mills. Lumber, planing-mill products, not including planing mills con- nected with sawmills. Cement. Shirts.	. 111 5 19	2,895 1,788 2,715	1.5 0.9 1.4	12,318 11,738 11,705	0, 8 0, 7 0, 7	5,523 6,168 4,440	1. 0 1. 1 0. 8	Cars and general shop construction and repairs by electric-railroad companies. Steam fittings and steam and hot- water heating apparatus.	8	1,162	0.3	2,719 2,597 2,464	0.2 0.2 0.2	1,485 1,380 1,245	1
Briek and tile, terra-cotta, and fire-clay products Gas, illuminating and heating Saddlery and harness Automobile bodies and parts Boxes, paper and other, not else- where specified.	. 65 . 26 . 88 . 78	4,469 1,318 1,215 1,375 2,369	0.7 0.6 0.7	11,456 11,113 9,450 9,315 8,857	0.7 0.7 0.6 0.6 0.6	7,538 8,117 3,112 4,496 3,901	1.4 1.5 0.6 0.8	Hats, Straw. Mattresses and spring beds, not elsowhere specified. Lime. Varnishes All other industries 2.	10 28 16	384 348 736 93 22,962	0.2 0.2 0.4 (1)	2,407 2,090	0.2 0.1 0.1	1,006 1,208	0.2 0.2 0.1

Less than one-tenth of 1 per cent.

Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are 10 having products in excess of some for which figures are shown in the table. These industries are as follows: "Babbitt and type metal"; "cars, electric-railroad, not lieuding operations of railroad companies"; "chewing gum"; "coal-tar products"; "cordlals and flavoring sirups"; "cotton goods"; "iron and steel, blast furnaces"; "jute goods"; "smelting, lead"; and "stationery goods, not elsewhere specified."

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

TABLE T.	-Ab-d-4		111(121(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,	CI CIUIT G III						
CLASS.	Cen-	Total.	Male.	Fe- male.	PER CI	AL.	CLASS.	Cen- sus year,	Total,	Male.	Fe- male,	PER CE	
	year.			maio.	Male.	Fe- male.		year.				Male.	male.
All classes	1919 1914 1909	244, 939 188, 266 185, 705	186, 828 150, 451 150, 750	58, 111 37, 815 34, 955	76. 3 79. 9 81. 2	23. 7 20. 1 18. 8	Clerks and other subordinate salaried employees.	1919 1914 1909	30, 695 21, 275 17, 892	20, 722 16, 483 14, 061	9,973 4,792 3,831	67. 5 77. 5 78. 6	32. 5 22. 5 21. 4
Proprietors and officials	1919 1914 1909	19, 207 14, 809 14, 820	18,471 14,310 14,423	736 469 397	96. 2 96. 8 97. 3	3.8 3.2 2.7	Wage earners (average number)	1919 1914 1909	195, 037 152, 182 152, 993	147, 635 119, 628 122, 266	47, 402 32, 554 30, 727	75. 7 78. 6 79. 9	24.3 21.4 20.1
Proprietors and firm members	1919 1914 1909	7,676 7,698 8,226	7,428 7,426 7,989	248 272 237	96. 8 96. 5 97. 1	3. 2 3. 5 2. 9	16 years of age and over	1919 1914 1909	192, 886 150, 390 149, 175		46, 569 31, 740 29, 195	75. 9 78. 9 80. 4	24.1 21.1 19.6
Salaried officers of corporations	1919 1914 1909	4, 282 3, 328 3, 010	4, 083 3, 209 2, 924	199 119 86	95. 4 96. 4 97. 1	4.6 3.6 2.9	Under 16 years of age	1919 1914 1909	2, 151 1, 792 3, 818	1,318 978 2,286	833 814 1,532	61.3 54.6 59.9	38.7 45.4 40.1
Superintendents and managers	1919 1914 1909	7, 249 3, 783 3, 584	6, 960 3, 705 3, 510	289 78 74	96. 0 97. 9 97. 9	4. 0 2. 1 2. 1							

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

			1								
			PER CI	ENT OF	TOTAL.				PER CI	ENT OF T	TOTAL.
industry.	Cen- sus year.	Wage earners (average num-		s of age over.	Un- der 16	INDUSTRY.	Cen- sus year.		16 year and	s of age over.	Un- der 16
		ber).	Male.	Fe- male.	years of age.			ber).	Male.	Fe- male.	years of age.
All industries	1919 1914 1909	195,037 152,182 152,993	75.0 79.0 78.4	23. 9 19. 9 19. 1	1.1 1.1 2.5			9,705 5,602	98.5 99.6	1.1 0.1	0.4 0.3
Automobiles	1919 1914	1,865 327	97. 2 98. 8	2.8 1.2		Furniture	1919 1914	3,373 3,209	91.4 97.1	7.9 1.9	0.7 0.9
Bags, other than paper, not including bags made in textile mills.	1919	1,752	30.9	67.1	2.0	Glass	1919 1914	2,034 2,248	92.2 98.3	7.8 1.4	0.3
Boot and shoe cut stock 1 Boots and shoes, not including rubber	1919 1919	1,593 17,458	69. 8 56. 5	29.3 42.3	0.9	Iron and steel, steel works and rolling mills.	1919 1914	2,647 1,237	95.9 99.9	3.3	0.8 0.1
boots and shoes. Boxes, paper and other, not elsewhere	1914 1919	13, 169 2, 369	61.2 38.5	37. 4 58. 9	1.4	Liquors, malt	1919 1914	2,930 5,947	98.0 95.0	2.0 4.9	0.1
specified. Boxes, wooden packing, except cigar	1914	1,092	29.0	63. 0 12. 5	8.0	Lumber and timber products	1919 1914	5,283 6,007	99.0 98.4	0.7 0.5	0.3 1.2
boxés.	1914	1,051	85.7 91.4	1.6	6.9	Lumber, planing-mill products, not includ- ing planing mills connected with saw- mills.	1919 1914	2,895 2,039	94.8 98.3	3.4 0.7	1.8 1.0
Bread and other bakery products	1919 1914	6, 156 5, 269	61.3 65.5	37.3 33.2	1,4 1.3	mills. Millinery and lace goods, not elsewhere specified.	1919 1914	1,809 908	12.6 10.5	85.6 88.1	1.8
Brick and tile, terra-cotta, and fire-clay products.	1919 1914	4,469 5,188	99.6 99.3	0.3 0.2	0.1 0.5	Printing and publishing, book and job	1919 1914	5,866 5,123	67.0 72.9	30.7 25.0	2.3 2.0
Cars and general shop construction and repairs by steam-railroad companies.	1919 1914	13,471 9,721	99.4 99.9	0.1 0.1	0.5	Printing and publishing, newspapers and periodicals.	1919 1914	4,183	77.5	17.2	5.3
Cars, steam-railroad, not including opera- tions of railroad companies. Cement Cement	1919 1919	4,307 1,788	99.4 96.5	0.6 3.4	0.1	Shirts	1919	4,279 2,715	80.8 6.2	18.0 91.5	1.2 2.4
Clothing, men's.	1919 1914	6, 823 5, 593	19.2	80.2	0.7	Slaughtering and meat packing	1914 1919	2,547 8,290	8.9 92.2	89.4 7.7	1.7 0.1
Clothing, women's	1919	3,308	28.8 18.3	70.1 80.8	0.9	Stoves and hot-air furnaces	1914 1919	5,152 2,462	96.0 99.1	3.9 0.6	0.1
Confectionery and ice cream 2	1914	2,355 3,669	20.6 48.0	77.1 51.3	2.3 0.7	Tinware, not elsewhere specified	1914	1,714 1,516	99.8 66.6	0.2 32.2	0.1
Electrical machinery, apparatus, and sup-	1914	2,854 6,367	44.4 69.9	54.6 29.0	1.1	Tobacco, chewing and smoking, and snuff.	1914 1919	843 2,752	74.8	22.2	3.0
plies. Flour-mill and gristmill products	1914	2,560	76.2	22.6	1.2		1914	2,871	48.5 60.6	49.5 36.6	$\frac{2.0}{2.7}$
Products	1914	3,015 2,096	96.1 99.1	3.8 0.8	0.1	All other industries.	1919 1914	56,340 51,181	78.0 83.3	20.5 15.5	1.5 1.2

¹ Not shown separately in 1914. ² Includes "chewing gum" in 1914.

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

		7A	ERAGE NU	JMBER OF	WAGE E	ARNERS I	N MANU	FACTURII	NG INDU	TRIES.					
CITY.		Total.			16 y	ears of ag	vo bna	er.		Und	er 16 ye	ars of	VAL	UE OF PRODUC	rs.
-					Male.		_	Female	•		age.				
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919,	1914	1909	1919	1914	1909
Cape Girardeau	1,427 515 379	1,259		1, 018 358 250	1,040		393 136	212		16 21	7		\$8,586,593 6,627,782	\$3,888,376	
Columbia Hannibal Independence	2,800 283	479 2,366	2,445	250 2,245 254	352 1,877	1,808	136 128 529 22	126 486	542	26 7	1 3	95	\$8,586,593 6,627,782 2,232,207 14,026,833 5,344,137	1, 269, 702 6, 214, 645	\$ 6, 195, 12 9
Jefferson City Joplin Kansas City Moberly	1,713 1,810 22,137 570	1,401 1,156 16,252 463	651 830 14,643 999	1,070 1,306 15,798 348	738 964 12, 276 307	450 659 10,841 860	609 500 6,117 187	606 185 3, 900 147	171 168 3,562 118	34 4 222 35	57 7 76 9	30 3 240 21	10, 188, 408 14, 219, 935 192, 815, 052 4, 496, 894	8,086,920 5,950,150 60,953,411 2,136,330	5, 445, 518 4, 135, 928 54, 704, 510 1, 983, 971
St. Joseph St. Louis Sedalia Springfield	5, 943 107, 919 1, 163 2, 910	4, 914 85, 058 903 2, 009	5,390 87,371 935 2,131	3, 817 76, 998 946 2, 270	3, 108 63, 697 777 1, 886	3,268 65,802 768 2,020	2, 103 29, 557 206 630	1,798 20,159 120 117	2,035 19,105 163 98	23 1,364 11 10	1,202 6 6	87 2, 464 4 13	50, 697, 198 871, 700, 438 5, 561, 865 18, 812, 549	17, 067, 642 360, 479, 868 2, 921, 686 6, 192, 954	17, 625, 68 328, 495, 31 2, 333, 07 5, 382, 09

^aIncludes "iron and steel, tempering and welding" and "machine tools."

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

		NUMBER.1		PER CEN	NT OF MA	XIMUM.	200		NUMBER.I		PER CEI	NT OF MA	XIMUM.
MONTH.	1919	1914	1909	1919	1914	1909	MONTH.	1919	1914	1909	1919	1914	1909
January February March April May June	182, 239 182, 885 187, 384	151, 293 151, 799 155, 240 156, 968 155, 556 156, 296	141, 268 145, 022 148, 776 147, 979 148, 053 150, 028	88. 0 87. 2 86. 9 87. 2 89. 4 90. 7	96. 4 96. 7 98. 9 100. 0 99. 1 99. 6	91.0	July. August. Soptomber October November. December	202, 609 206, 394 209, 704 207, 586	156, 263 155, 366 154, 431 152, 048 141, 558 139, 866	150, 969 157, 351 163, 514 161, 110 161, 540 160, 294	92. 8 96. 6 98. 4 100. 0 99. 0 99. 8	99, 6 99, 0 98, 4 96, 9 90, 2 88, 8	92. 3 96. 2 100. 0 98. 5 98. 8 98. 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.]

(The month of maximum	Aver-				DYED ON								<u> </u>	Per
INDUSTRY AND CITY.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem- ber.	cent mini- mum is of maxi- mum.
All industries	195,037 147,635 47,402	184, 513 139, 556 44, 957	182,796 137,933 44,863	182,239 138,043 44,196	182, 885 138, 796 <i>44, 089</i>	187,384 142,567 44,817	190, 266 144, 990 45, 276	194,709 148,933 45,776	202,609 152,987 49,622	206,394 155,856 50,538	209, 704 158, 121 51, 583	207, 586 156, 238 51, 348	209, 359 157, 600 51, 759	86. 9 87. 2 85. 2
Automobiles	1,865	1,663	1,690	1,749	1,787	1,837	1,920	1,921	1,913	1,916	1,977	1,995	2,012	82.7
Automobiles. Bags, other than paper, not including bags made in textfile mills. Boot and shoe cut stock. Boots and shoes, not including rubber	1,752 1,593	1,611 1,303	1,560 1,336	1,510 1,520	1,601 1,573	1,724 •1,608	1,782 1,640	1,809 1,565	1,849 1,541	1,840 1,645	1,904 1,808	1,935 1,850	1,899 1,727	78.0 70.4
Boots and shoes, not including rubber boots and shoes. Boxes, paper and other, not elsewhere	17,458	16,315	16,290	16,452	16, 964	17, 259	17,721	17,859	17, 945	17,829	18,055	18,340	18, 467	88. 2
specified	2,369	2,169	2,195	2,232	2,216	2,309	2,840	2,417	2,419	2,413	2,503	2,619	2,590	82.8
Boxes, wooden packing, except cigar boxes	1,827	1,971	1,744	1,821	1,803	1,903	1,717	1,827	1,890	1,724	1,784 6,740	1,903	1,837	87. 1
Bread and other bakery products. Brick and tile, terra-cotta, and fire-clay products.	6, 156 4, 469	5,700 3,452	5,765 3,534	5,824	6,039 4,172	5, 952 4, 664	5, 864 4, 764	5,941 4,865	6, 147 4, 952	6,320 5,026	6,740 5,292	6,741	6,839	83, 3 65, 2
Carsand general shop construction and repairs by steam-railroad companies.	13,471	13,488	13,389	13,421	12,942	13,015	13,016	13,115	13, 270	13,550	13, 917	14,294	14, 235	90.5
rountes. Carsand generalshop construction and repairs by steam-railroad companies. Cars, steam-railroad, not including operations of railroad companies. Cement.	4,307 1,788	4,572 1,744	4,648 1,709	4,770 1,650	4,003 1,753	4,635 1,783	4, 123 1, 791	4,646 1,855	4,601 1,892	4,404 1,837	4,450 1,918	2,790 1,886	3,952 1,688	58. 5 85. 4
Clothing, men's	6,823	6,529 £,880	6, 295 3, 163	5,974 8,310 3,432	5,815 3,310	6,084 3,243	6,429 3,251	6,780 3,401	7,017 3,545	7,378 3,529	7,682 3,447	7,874 3,310	8,019 3,307	72, 5 81, 2
Confectionery and ice cream Electrical machinery, apparatus, and supplies Flour-mill and gristmill products.	3,669 6,367	5,868 5,867	3,428 5,357		3,402	3,414	3, 412 6, 184	3,471 6,493	3,711 6,779	3,966 6,720	4, 138 7, 182	4, 215 7, 360	4,071 7,694	79. 9 69. 6
suppnes. Flour-mill and gristmill products	3,015	2,909	2,783	5,464 2,775	5,545 2,765	5,759 2,752	2,722	2,845	3,334	3,583	3,292	3,210	3,210	76.0
Foundry and machine-shop products Furniture	9,530 3,373 2,034	8,050 3,120 2,025	8,817 3,142 2,029	8,332 3,228 2,299	8, 413 3, 239 2, 243	8,423 3,197 2,162	8,720 3,352 2,148	9,858 3,460 1,692	10,012 3,531 1,668	10,663 3,507 1,850	10,866 3,568 1,972	11, 213 3, 532 2, 191	10,893 3,600 2,134	74. 2 86. 7 72. 3
Iron and steel, steel works and rolling mills	2,647	3,250	3,253	3,213	2,531	2,459	2,447	2,227	2,605	2, 581	2,536	2,176	2,486	66.9
Liquers, malt Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with country.	2, 930 5, 283	2,832 4,119	2,730 4,157	2,904 4,322	3,040 4,398	3,161 4,537	3, 283 4, 676	3, 320 5, 219	3,481 5,580	2, 971 6, 248	2,713 6,609	2,332 6,669	2,393 6,862	67.0 60.0
including planing mills connected with sawmills. Millinery and lace goods, not elsewhere	2,895	2,512	2,517	2,623	2,758	2,866	2,997	3,054	3,045	3,093	3,105	3, 115	3,055	80.6
specined	1,809	1,717	1,986	1,924	1,853	1,724	1,579	1,710	1,933	1, 869	1,742	1,777	1,894	79. 5
Printing and publishing, book and job- Printing and publishing, newspapers and periodicals.	5,866	5,510	5,743	5, 759	5,761	5,786	5, 830	5,771	5,848	5, 821	5,975	6, 187	6,401	86.1
and periodicals. Shirts. Slaughtering and most packing.	4, 183 2, 715 8, 290	3,868 2,671 9,805	3,956 2,586 9,012	4, 053 2, 531 8, 415	4,155 2,506 7,802	4,164 2,543 7,909	4, 224 2, 653 8, 170	4, 191 2, 720 8, 063	4,197 2,759 8,205	4, 248 2, 771 7, 981	4,348 2,847 7,654	4,375 2,894 7,875	4,417 3,099 8,589	87.6 80.9 78.1
Stoves and hot-air furnaces. Tinware, not elsewhere specified. Tobacca, chewing and smaking and	2,462 1,516	2,035 1,562	2,149 1,511	2, 176 1, 518	2,250 1,438	2,340 1,485	2,406 1,394	2,448 1,419	2,573 1,505	2,698 1,505	2,778 1,461	2,852 1,634	2,841 1,760	71. 4 70. 2
Tobacco, chewing and smoking, and snuff	2,752 56,515	3,292 52,004	3,119 51,703	2,391 51,024	2,512 52,206	2,574 54,113	2,534 55,177	2, 414 56, 333	2,607 60,260	2,782 62,128	2,968 62,478	2,941 60,720	2,890 60,039	72.6 81.7
Industries showing large proportion of females.				, .							}			II.
Boots and shoes, not including rubber	470	406	370	448	474	483	478	469	475	492	528	551	466	67.2
Boxes, paper and other not elegables	7,481	7,002	6,952	6,994	7,224	7,375	7, 591	7,675	7,755	7,687	7,668	7,904	7,945	87.5
Bread and other bakery products	1,447 2,354	1,803 2,127	1,363 2,195	1,390 2,204	1,374 2,274	1,430 2,202	1,438 2,154	1,454 2,260	1,447 2,345	1, 458 2, 411	1,507 2,741	1,610 2,678	1,590 2,657	80, 9 77. 6
Clothing, men's Clothing, women's Confectionery and ice cream Electrical machinery, apparatus, and Sumiles.	5,509 2,700 1,902	5,305 2,842 1,794	5,039 2,578 1,820	4,734 2,704 1,818	4,632 2,730 1,741	4,854 2,666 1,705	5, 171 2, 654 1, 664	5,401 2,773 1,660	5,600 2,871 1,829	5, 911 2, 869 1, 954	6,291 2,797 2,205	6, 522 2, 704 2, 365	6,648 2,712 2,270	69. 7 81. 6 70. 2
Printing and makes	1,887	1,783	1,674	1,725	1,670	1,705	1,871	1,933	2,030	2,023	2,023	2,068	2,139	78.1
Printing and publishing, book and job- Printing and publishing, newspapers and periodicals.	1,823	1,736	1,853	1,831	1,800	1,800	1,825 737	1,770 736	1,741	1,744	1,819	1,942	2,015	86. 2 94. 8
Shirts	739 2,547	732	727 2,425	732 2,366	735 2,347	2,389	2,487	2,544	2,580	2, 595	2,673	2,720		80.0
Tobacco, chewing and smoking, and		1,699	1,612	1,258		1,301	1, 279	1,190		1,413	1,514	1		#
92266°—22——2													*	

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

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

	Aver-		NUME	ER EMPL	OYED ON	15th day	OF THE	монтн о	R NEARE	ST REPRE	SENTATIVI	E DAY.	. 7	Per
CITY.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	Мау.	June.	July.	August.	Septem- ber.	Octo- ber.	Novem- ber.	Decem- ber.	mini- mum is of maxi- mum.
Total for cities	149, 569	141, 176	140, 583	140, 584	141, 404	144,555	147, 190	149, 584	153, 888	156, 457	159,098	159, 277	161, 032	87.3
	107, 689	100, 920	100, 214	100, 682	101, 483	104,238	106, 609	108, 828	111, 782	113, 606	114,997	113, 815	115, 094	87.1
	41, 880	40, 256	40, 369	39, 902	39, 921	40,317	40, 581	40, 756	42, 106	42, 851	44,101	45, 462	45, 938	86.9
CAPE GIRARDEAU. Males Females. CARTHAGE. Males. Females.	1,427	1, 225	1,245	1, 279	1, 322	1,345	1,459	1,477	1, 581	1,571	1,571	1,496	1,553	77. 5
	1,033	849	875	909	949	963	1,072	1,081	1, 180	1,169	1,154	1,080	1,115	71. 9
	394	376	870	370	373	382	387	396	401	402	417	416	438	84. 5
	515	494	512	511	503	499	525	503	514	514	548	517	540	90. 1
	379	855	372	372	370	369	390	379	387	382	403	372	397	88. 1
	136	139	140	139	133	130	135	124	127	132	145	145	143	85. 5
COLUMBIA. Males. Females. HANNIBAL Males Females.	379	377	366	345	345	357	369	382	390	393	387	416	421	81. 9
	251	257	243	228	234	234	255	255	252	260	256	265	273	83. 5
	128	120	123	117	111	123	114	127	138	133	131	151	148	73. 5
	2,800	2,811	2,764	2,757	2,726	2,781	2,811	2,795	2,773	2,763	2,844	2,892	2,884	94. 2
	2,260	2,258	2,210	2,199	2,183	2,224	2,254	2,258	2,259	2,262	2,330	2,345	2,338	93. 1
	540	553	554	558	542	557	557	537	514	501	514	547	546	89. 8
INDEPENDENCE Males Females. JEFFERSON CITY Males Females.	283	267	267	266	266	278	288	311	333	295	281	275	269	79. 9
	259	244	244	243	243	255	263	287	307	272	256	250	244	79. 2
	24	23	23	23	23	23	25	24	26	28	25	25	25	88. 5
	1,713	1,518	1,564	1,618	1,665	1,712	1,754	1,755	1,782	1, 764	1,796	1,824	1,804	83. 2
	1,096	960	1,014	1,021	1,051	1,084	1,127	1,128	1,140	1, 138	1,155	1,172	1,162	81. 9
	617	558	650	597	614	628	627	627	642	626	641	652	642	84. 4
JOPLIN Males. Females. KANSAS CITY Males Females.	1,810	1,610	1,582	1,609	1,640	1,644	1,729	1,843	1,960	2,018	2,003	2,018	2,064	76. 6
	1,309	1,172	1,097	1,114	1,172	1,189	1,263	1,370	1,460	1,498	1,471	1,469	1,433	73. 2
	501	488	485	495	468	455	466	473	500	520	532	549	631	69. 4
	22,137	20,317	20,255	20,595	20,979	21,322	21,844	22,111	22,861	23,201	23,923	24,154	24,082	83. 9
	15,958	14,458	14,315	14,721	15,101	15,525	16,052	16,129	16,666	16,903	17,214	17,240	17,172	83. 0
	6,179	5,859	5,940	5,874	5,878	5,797	5,792	5,982	6,195	6,298	6,709	6,914	6,910	83. 8
Moberly Males Males Females St. Joseph Males St. Joseph Males Females Females Males Males Males Males Males Males Males Males St. Males Ma	570	488	438	499	534	553	607	650	644	636	611	595	585	67. 4
	379	340	306	346	356	365	399	423	416	419	409	387	382	72. 3
	191	148	132	153	178	188	208	227	228	217	202	208	203	57, 9
	5,943	5,379	5,441	5,481	5,592	5,652	5,705	5,807	6,344	6,615	6,572	6,409	6,319	81. 3
	3,835	3,405	3,387	3,442	3,601	3,702	3,740	3,817	4,149	4,333	4,345	4,120	3,979	78. 0
	2,108	1,974	2,054	2,039	1,991	1,950	1,965	1,990	2,195	2,282	2,227	2,289	2,340	83. 3
ST, LOUIS. Males Females. SEDALIA Males Females. Females.	107,919	103, 116	102,551	101,948	102,020	104, 413	105,998	107,764	110, 446	112,310	114,206	114,223	116,033	87. 9
	77,697	73, 689	73,142	73,021	73,086	75, 057	76,503	78,410	80, 241	81,631	82,693	81,719	83,172	87. 8
	30,222	29, 427	29,409	28,927	28,934	29, 356	29,495	29,354	30, 205	80,679	31,513	32,504	32,861	88. 0
	1,163	1, 053	1,041	1,035	1,060	1, 075	1,149	1,190	1, 232	1,262	1,277	1,295	1,287	79. 9
	957	891	891	897	920	936	972	978	1, 002	998	995	999	1,005	88. 7
	206	162	150	138	140	139	177	212	230	204	282	296	282	46. 6
Springfield	2,910	2,521	2,557	2,641	2,753	2,924	2,952	2,996	3,028	3,115	3,079	3,163	3,191	79.0
Males	2,276	2,042	2,118	2,169	2,217	2,335	2,319	2,313	2,323	2,341	2,316	2,397	2,422	84.3
Females	634	479	439	472	536	589	633	683	705	774	763	766	769	56.7

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

			in establ	LISHMENTS	WHERE TI	IE PREVAIL	ING HOURS	OF LABOR	PER WEE	K WERE—
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries	1919 1914 1909	195, 037 152, 182 152, 993	18, 974 (2) (2)	7,699 (2) (2)	64, 117 28, 576 23, 276	39, 600 19, 252 10, 671	31, 903 47, 528 36, 711	15, 257 20, 480 28, 934	13, 184 29, 786 46, 446	4, 303 6, 560 6, 955
Automobiles	1919 1914	1, 865 327	852		572	159 144	282 183			
Bags, other than paper, not including bags made in textile mills Boot and shoe cut stock	1919 1919	1, 752 1, 593			$\substack{12\\1,465}$	1, 728 96	$\frac{12}{32}$			
Boots and shoes, not including rubber boots and shoes	1919 1914	17, 458 13, 169	3, 274 (2)	(²) 34	6, 443 110	4, 216 819	3, 195 5, 783	296 6,063	394	
Boxes, paper and other, not elsewhere specified	1919 1914	2, 369 1, 092	(2) 12	(2) 29	700 150	1, 120 145	56 677	417 114	35 6	
Boxes, wooden packing, except cigar boxes	1919 1914	1, 827 1, 051	(2) 22	(²)	18 120	793 462	419 44	468 250	106 175	
Bread and other bakery products	1919 1914	6, 156 5, 269	69 (2)	822 (2)	1,707 485	2, 170 496	901 3, 392	225 147	190 589	72 160
Brick and tile, terra-cotta, and fire-clay products	1919 1914	4, 469 5, 188	65 (2)	(2)	259 11	582 172	644 706	1,009 1,091	1, 910 3, 148	60
Cars and general shop construction and repairs by steam-railroad companies. Cars, steam-railroad, not including operations of railroad com-	1919 1914 1919	13, 471 9, 721 4, 307	(2)	(2)	11, 160 2, 658 1, 540	6 169 111	15 4,807	2, 116 2, 656	17 70	2,017
panies. ³ Cement ³ Clothing, men's	1919 1919 1914	1, 788 6, 823 5, 593	3, 270 (²)	1, 060 (²)	740 1,712	647 3, 499	1,106 303	76	1, 141 3	647

¹ Includes 48 and under for 1914 and 1909

² Corresponding figures not available.

² 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.

			in estai	LISHMENTS	3 WHERE T	HE PREVAL	LING HOUR	S OF LABOR	PER WEEF	WERE—
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48and 54.	54.	Between 54 and 60.	60.	Over 60.
Clothing, women's	1919 1914	3,308 2,355	979 (2)	452 (³)	883 454	910 1,069	84 826		6	
Confectionery and ice cream ³	1919 1914	3,669 2,854	(¹).	245 (2)	198 68	840 796	1,638 785	484 427	60 538	140 240
Electrical machinery, apparatus, and supplies	1919 1914	6, 367 2, 560	(³)	658 (3)	992 329	1,806 424	2,902 1,751	52	4	
Flour-mill and gristmill products.	1919 1914	3, 015 2, 096	65	(2)	773 116	13	174 104	181 11	1,125 1,049	684 811
Foundry and machine-shop products 4.	1919 1914	9, 705 5, 602	378	(2) G7	3, 207 446	1,205 466	3, 965 3, 736	811 384	70 570	2
Furniture	1919 1914	3, 373 3, 209	28	(2)	683 750	575 485	1,817 992	224 262	46 720	
Glass	1919 1914	2, 034 2, 248	(2)	(2)	325 11	1,525 448	184 35	202	1,754	
Iron and steel, steel works and rolling mills.	1919 1914	2,047 1,237	(1)	(2)	1,319 339	655	673 259		639	
Liquors, malt	1919 1914	2, 930 5, 947	2, 555 (2)	52 (°)	187		71 37	19	46	
Lumber and timber products	1919 1914	5, 283 6, 007	369	119	5, 226 286 238	133	276 349	502 814	3, 286	116
Lumber, planing-mill products, not including planing mills con- nected with sawmills.	1919	2,895	(2)	(³)	647	193 702	743	226 525	4, 900 180	101
Millinery and lace goods, not elsewhere specified	1914	2,039 1,809	(2) 251	(3)	229 159	431 742	802 351	159	418	
Printing and publishing, book and job	1914 1919	908 5,866	(²) 879	(2) 200	47 4,367	234 276	627 127		17	
Printing and publishing, newspapers and periodicals	1914	5, 123 4, 183	(2) 307	(2) 278	4,327 2,749	443 355	319 396	10 24	24 67	7
Shirts.	1914 1919	4, 279 2, 715	(2) 335	(²) 1,384	2, 663 136	437 656	839 2 04	145	182	13
Slaughtering and meat packing.	1914	2,547 8,290	(²)	(2)	478 8,060	1,420 28	049 18	10	32	
Stoves and hot-air furnaces	1914 1919	8, 290 5, 152 2, 462	(2) 94	(2)	625 1,290	84 358	785 720	1,827	1,729	102
Tinware, not elsewhere specified	1014 1919	1,714 1,516	(2)	(2)	58 300	596 1,000	960 71	81 130	19	
Tobacço, chewing and smoking, and smuff	1914 1919	843		4	2	205 2,696	315 50	313	10	
All other industries.	1914	2,752 2,871 50,340	(²) 4 957	(2) 1,835	56 12,932	53	2,762 10,777	4,848	4,852	9. 751
	1914	51, 181	4, 857 (³)	(4)	6,870	13,488 5,617	14,701	8,382	12,671	2,751 2,940
Total for cities.	1919 1914	149, 569 116, 260	17, 993 (2)	7,304 (2)	49, 225 24, 238	33,519 17,392	23, 476 40, 339	11,375 12,784	4,632 18,126	2,045 3,381
CAPE GIRARDEAU	1919 1914	1, 427 1, 259	(2)	(2)	122 48	42 4	846 194	26 645	379 327	11 41
CARTHAGE	1919	515		9	83	212	46	45	49	71
COLUMBIA	1919 1914	379 479	(²)	(2)	98 106	4	217 316	28	54 14	6 15
HANNIBAL.	1919 1914	2,800 2,366	(2) 25	(2) 10	1,172 124	$1,211 \\ 4$	247 811	1,040	105 333	30 54
Independence. Jefferson City.	1919 1919	283 1,713	4 15		190 314	17 285	1,021	46 15	1 60	14
Joplin	1914	1,401	(2)	(2)	203 333	264 99	5 722	794 493	106 128	29 34
Kaneas City.	1914	1,810 1,156 22,137	(²)	(2) 1,531	231 7,745	21	285	432	131 971	56 69
Moberly	1914	16,252	1,825 (2)	(2)	4, 197	5, 474 2, 212	2,431 4,694	2,091 1,643 7	2,098	1,408
St. Joseph	1919	570 463	(2)	(²)	58 49	445 4	30 346 373		12 40	18 24
Sr. Louis	1919	5,943 4,914	385 (2)	(2)	2,151 1,609	1,580 879	1,371	632 394	258 519	175 142
	1919 1914	107, 919 85, 058	15,635 (2)	5,358 (2)	34,593 17,337	23,923 13,896	16,780 30,559	7, 906 7, 735	2, 243 14, 039	1, 481 1, 492
Sedalia Springfield	1919 1914	1, 163 903	(2) 9	(2) 2	847 174	123	58 546	3 9	91 157	30
	. 1919 1914	2, 910 2, 009	(2) 93	(2)	1,519 160	104 108	694 1,212	111 64	281 362	103

¹ Includes 48 and under for 1914 and 1909. ² Corresponding figures not available.

Includes "chewing gum" in 1914.
 Includes "iron and steel, tempering and welding," and "machine tools."

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

	TO	LAT.						ES	TABLIS	HMEN	TS EMP	LOYIN	rg	·				==	=
INDUSTRY AND CITY.	hments.	ers (aver- nber).	No wage earn- ers-	1 to wa earn inclu	ge ers,	6 to we earr inclu	ige iers,	ear	to 50 age ners, asive.	ear	o 100 age ners, usive.	ear	to 250 age ners, usive.	ear	to 500 vage rners, usive.	ear	o 1,000 vage rners, usive.	UV6	er 1,000 rage mers.
	Establishments	Wage earners (a age number)	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
All industries.	8, 592	195, 037	1, 396	4, 454	9, 385	1, 426	15, 901	623	20, 390	307	21, 856	224	35, 394	100	34, 044	44	30, 549	18	27, 518
AutomobilesBags, other than paper, not including bags	8	1, 865		1	5	1	7	1	38			2	364	1	282	2	1, 169		
made in textile mills. Boot and shoe cut stock. Boots and shoes, not including rubber boots	10 7	1, 752 1, 593		1	5 3	3	33	2	68	2	154	3	624		535	1 2	555 1,368	• • • •	• • • • • • • • • • • • • • • • • • • •
and shoes. Boxes, paper and other, not elsewhere specified.	54 41	17, 458		2	4 8	4 8	61 96	5 13	175 474	9	97 643	14	2,532	19	6, 946	6	4,044	3	3, 599
Boxes, wooden packing, except eigar boxes	29	2, 369 1, 827		4 6	22	5	88	9	329	4	335	6 4 2	886 747	1	262 306	••••	••••••		•••••
Bread and other bakery products	975 65	6, 156 4, 469	209	673 14	1,250	64 14	607 153	16 15	520 527	6	466 624	10	336 1,664	1	552	2	,	1	1, 293
products. Cars and general shop construction and repairs by steam-railroad companies	45	13, 471		4	13	5	53	6	235	3	229	10	1,517	8	312 2, 297	5	1, 151 4, 295	4	4,832
Cars, steam-railroad, not including operations of railroad companies. Cement.	8 5	4,307 1,788	ļ			1	9			1	98	2 3	320 553	1	435 310	2	1,224	1	2, 221
Clothing, men's Clothing, women's Confectionery and ice cream.	l	6, 823 3, 308	1	23 25 126	72 69	32 41 25	365 524	19 29	635 926	23 14	1,662 1,014	9	1,508 775	4	1, 424	2	925		
Electrical machinery, apparatus, and supplies. Flour-mill and gristmill products	35 690	3, 669 6, 367 3, 015	41 236	126 4 361	262 12 588	25 12 63	227 125 649	11 5 20	317 167 609	4 5	270 286 361	11 5 4	1,808 695 493	1 2 1	260 638 315	2	525 1,570	1	2,874
Foundry and machine-shop products Furniture. Glass Iron and steel, steel works and rolling mills.	301 80 4 5	9, 530 3, 373 2, 034	27 5	120 19	329 46	80 19	954 245	34 20	1, 119 721	16 16 1	1,079 1,025 77	15 5 2 1	2, 354 589 432	7 2	2, 311 747	2	1,384	 i	1, 525
Liquors, malt	20	2,647	••		· · · · · · · ·	10	112			6	416	1 1	132	1 2	375 884	3	2, 140	····	
Lumber and timber products. Lumber, planing-mill products, not includ- ing planing mills connected with sawmills. Millinery and lace goods, not elsewhere spec-	557 111	2, 930 5, 283 2, 895	29 4	405 48	687 104	78 33	828 392	24 18	786 613	11	777 192	6 2	886 372	3	1, 319 1, 222				1,399
med	42	1,809	2	10	33	8	100	9	316	9	654	3	449	1	257	ļ	ļ	ļ	
Printing and publishing, book and job Printing and publishing, newspapers and periodicals	460 774	5, 866	74 243	234 445	571 945	92 56	1, 016 595	36 15	1, 209 467	15 7	999 484	6	948 836	3	1, 123 335	1	521		
Shirts	19 49	4, 183 2, 715 8, 290	1 6	7	19 33	7	72	1 7	39 258	2 3	136 222	5	866 114	2	761 467	1 2	894 1,807	3	5, 317
Stoves and hot-air furnaces. Tinware, not elsewhere specified. Tobacco, chewing and smoking, and snuff All other industries.	19 10 11 3,704	2, 462 1, 516 2, 752 56, 515	 2 516	1 3 1,898	5 8 4,254	7 1 1 756	64 20 6 8,500	1 1 3 303	29 27 119 9,667	3 2 128	235 116 9,205	6 4 1 69	1,030 832 199 10,414	27	384 8,985	1	720 516 3,452	1 2	2,420 2,038
Total for cities.	5,012	149, 569	678	2,192	5, 333	1,058	12, 099	508	16, 783	258	18,385	192	29, 950	78	26, 954	38	25, 890	10	14,175
CAPE GIRARDEAU CARTHAGE COLUMBIA HANNIBAL INDEPENDENCE	25 67	1, 427 515 379 2, 800 283	6 4 7 1	27 32 14 35 11	81 69 34 85 25	8 13 5 16 5	80 144 53 199 63	3 3 4 2	104 129 153 44	1 2	279 78	1 1 1 2	119 173 214 260	1	296	1	764 1,807		
JEFFERSON CITY. JOPLIN KANSAS CITY MOBERLY	139 997	1,713 1,810 22,137 570	5 15 129 1	20 84 422 14	37 185 1,304 31	9 23 251 7	120 255 2,873 83	1 12 109 2	48 375 3,539 50	1 1 46	79 99 3,303	3 3 28	485 455 4,428	3 1 6 1	944 441 2, 248 406	5	3, 150	1	1, 292
St. Joseph. St. Louis. Sedalia Springfield.	3, 205 66 107	5, 943 107, 919 1, 163 2, 910	23 465 10 12	95 1,349 36 53	233 3,047 66 136	48 636 15 22	7, 354 147 254	23 341 1 7	743 11, 388 25 185	1 2	884 12,819 121 572	12 137 1 3	1, 811 21, 570 117 318	6 59	1, 798 20, 372 449	28 1 1	18, 486 687 996		12,883

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

VALUE OF PRODUCT.		UMBER (BLISHME			NUMBER EARNERS.	OF WAGE	VAL	UE OF PRODUC	ets.	VALUE AD	DED BY MANU	FACTURE,
VALUE OF PRODUCT	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes		8,386	8,375	195,037	152, 182	152,993	81,594,208,338	8637, 952, 128	\$574, 111, 070	\$537,751,174	\$249, 237, 269	\$219,699,919
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$80,000 to \$1,000,000 \$10,000 to \$1,000,000 \$1,000,000 and over	2,433 2,791 1,904 942 238 284	3,611 2,512 1,449 602 108 104	3,649 2,505 1,444 683 94	$ \begin{cases} 1,783 \\ 7,311 \\ 18,713 \\ 38,395 \\ 27,059 \\ 101,776 \end{cases} $	3,911 10,152 23,127 61,506 53,486	5, 107 10, 999 23, 948 64, 791 48, 148	$\begin{array}{c} 6,200,126\\ 29,517,745\\ 87,947,686\\ 210,689,301\\ 166,777,675\\ 1,093,075,805\\ \end{array}$	8, 426, 604 25, 006, 975 65, 177, 199 134, 663, 617 74, 810, 437 329, 867, 296	8, 272, 292 25, 001, 039 65, 057, 234 } 204, 184, 575 271, 595, 930	3,749,063 15,756,004 42,978,314 { 94,731,089 68,276,088 312,260,616	5,352,461 14,351,718 33,028,026 } 87,704,685 108,890,379	5, 293, 930 14, 249, 566 32, 157, 387 84, 656, 927 83, 342, 049
							PER CENT DI	stribution.	<u></u>			
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	28. 3 32. 5 22. 2 11. 0 2. 8 3. 3	43. I 30. 0 17. 3 7. 2 1. 3 1. 2	43.6 20.9 17.2 8.2 1.1	0.9 3.7 9.6 19.7 13.9 52.2	2.6 6.7 15.2 40.4 35.1	3.3 7.2 15.7 42.3 31.5	0.4 1.9 5.5 13.2 10.5 68.6	1.3 3.9 10.2 21.1 11.7 51.7	1.4 4.4 11.3 35.6 47.3	0.7 2.9 8.0 17.6 12.7 58.1	2.1 5.8 13.3 35.2 43.7	2. 4 6. 5 14. 6 38. 5 37. 9

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

	E		BER OF SHMENT	rs.		RAGE N VAGE E.			VAI	LUE OF PRODU	icts.		VALUE AI	DDED BY MAN	UFACTU	RE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914		cent oution.	1919	1914	Per distrib		1919	1914		cent oution.	1919	1914	Per distrib	
		 	1919	1914			1919	1914			1919	1914			1919	1914
BOOTS AND SHOES, NOT INCLUDING RUBBER BOOTS AND SHOES	54	49	100.0	100. 0	17, 458	13, 169	100.0	100.0	\$109, 193, 423	\$40,311,210	100, 0	100.0	\$32,267,606	\$14,364,772	100.0	100.0
Less than \$100,000	10 1 9 35	8 15 11 15	18.5 16.7 64.8	16. 3 30. 6 22. 4 30. 6	203 i 1,432 15,823	123 15,309 7,737	1. 2 8. 2 90. 6	0.9 40.3 58.8	574, 240 1 5, 797, 298 102, 821, 887	202, 795 4, 803, 862 8, 954, 898 26, 349, 655	0. 5 5. 3 94. 2	0. 5 11. 9 22. 2 65. 4	243,157 11,986,533 30,037,916	91, 790 1 5, 047, 775 9, 225, 207	0. S 6. 2 93. 1	35. 1 64. 2
BREAD AND OTHER BAKERY PRODUCTS	975	1,043	100.0	100. 0	6,156	5, 269	100.0	100.0	43, 839, 428	19, 940, 499	100.0	100.0	17,483,032	9,783,693	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000 \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over	577 181	503 406 54 13 3 4	18. 4 59. 2 18. 6 2. 5 0. 6 0. 8	48. 2 44. 7 5. 2 1. 2 0. 3 0. 4	50 781 923 597 415 3,390	321 1,010 060 21,001 2,187	0.8 12.7 15.0 9.7 6.7 55.1	6. 1 19. 2 12. 5 20. 7	534, 320 6, 277, 446 6, 530, 657 5, 528, 434 3, 920, 424 21, 048, 147	1,548,923 3,817,534 2,364,435 2,464,866 1,987,183 7,757,558	1.2 14.3 14.9 12.6 8.9 48.0	7.8 19.1 11.9 12.4 10.0 38.9	200, 170 2, 302, 378 2, 150, 654 1, 804, 110 1, 402, 368 9, 623, 352	744, 934 1,825, 285 979, 091 22,069, 905 4,164, 478	1.1 13.2 12.3 10.3 8.0 55.0	7. 6 18. 7 10. 0 21. 2
Butter	66	54	100,0	100.0	686	361	100.0	100. 0	22, 147, 691	5, 167, 343	100.0	100.0	2,111,996	800,031	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	25 18	6 17 21 4 10	4. 5 18. 2 37. 9 19. 7 7. 6 12. 1	11. 1 31. 5 38. 9 18. 5	2 6 63 122 97 396	2 19 83 4 257	0.3 0.9 9.2 17.8 14.1 57.7	0, 6 5, 3 23, 0 71, 2	10, 108 144, 479 1, 186, 780 2, 820, 949 3, 643, 184 14, 342, 101	15, 125 197, 990 834, 186 44, 120, 042	(3) 0.7 5.4 12.7 16.4 64.8	0.3 3.8 16.1 79.7	2,498 17,914 148,024 356,279 189,807 1,397,474	3, 957 82, 792 140, 937 4 622, 345	0.1 0.8 7.0 16.9 9.0 66.2	0. 5 4. 1 17. 6 77. 8
CARS AND GENERAL SHOP CONSTRUCTION AND RE- FAIRS BY STEAM-BAIL- ROAD COMPANIES		39	100.0	100.0	13, 471	9,721	100.0	100. 0	33, 020, 800	12,847,379	100.0	100.0	20, 293, 785	7, 475, 468	100. 0	100.0
\$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	13 10 9	5 6 12 11 5 5	15. 6 13. 3 28. 9 22. 2 20. 0	15, 4 30, 8 28, 2 12, 8 12, 8	36 179 1,394 2,734 9,128	540 501 34,458 4,716	0. 3 1. 3 10. 3 20. 3 67. 8	0. 5 5. 2 45. 9	97, 698 363, 425 3, 281, 899 6, 965, 425 22, 309, 353	6 49, 401 615, 997 2, 823, 458 3, 516, 078 5, 842, 445	0.3 1.1 9.9 21.1 67.6	0.4 4.8 22.0 27.4 45.5	61, 844 272, 904 2, 253, 072 4, 276, 258 13, 429, 657	6 32, 243 418, 727 2 3, 602, 335 3, 422, 163	0.3 1.3 11.1 21.1 66.2	0. 4 5. 6 48. 2 45. 8
CLOTHING, MEN'S		71	100.0	100.0	6,823	5, 593	100.0	100.0	35, 838, 747	13,484,374	100.0	100.0	13,682,724	5,771,417	100.0	100.0
Less than \$5,000 . \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 to \$500,000 . \$50,000 to \$1,000,000 . \$1,000,000 and over .	23 37 8 10	9 14 21 24 3	8. 0 22. 3 20. 5 33. 0 7. 2 8. 9	12. 7 19. 7 29. 6 33. 8	25 210 390 1,970 923 3,305	22 211 364 2,780 2,216	0. 4 3. 1 5. 7 28. 9 13. 5 48. 4	0. 4 3. 8 6. 5 49. 7	25, 335 250, 527 1, 155, 466 10, 017, 921 4, 905, 568 19, 483, 930	22, 036 147, 782 1, 060, 870 5, 984, 357 6, 269, 329	0. 1 0. 7 3. 2 28. 0 13. 7 54. 4	0. 2 1. 1 7. 9 44. 4	23, 974 208, 872 590, 985 3, 661, 187 1, 606, 505 7, 571, 201	16, 304 114, 593 490, 302 2, 289, 437 2, 860, 781	0. 2 · 1. 5 4. 3 26. 8 11. 8 55. 4	0.3 2.0 8.5 39.7
CLOTHING, WOMEN'S	116	74	100.0	100.0	3,308	2,355	100.0	100.0	18, 433, 548	5, 517, 015	100.0	100.0	6, 940, 062	2,482,862	100. 0	100.€
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000	40	⁶ 17 42 15	8. 6 10. 3 34. 5 39. 7 6. 9	23. 0 56. 8 20. 3	14 38 482 1,961 813	5 103 952 1,300	0. 4 1. 1 14. 6 59. 3 24. 6	4. 4 40. 4 55. 2	23,549 134,806 2,268,980 10,961,129 5,045,084	6 166, 342 2, 108, 618 3, 242, 055	0. 1 0. 7 12. 3 59. 5 27. 4	3. 0 38. 2 58. 8	16,894 59,021 912,338 4,069,046 1,882,763	⁵ 96, 421 955, 791 1, 430, 650	0. 2 0. 9 13. 1 58. 6 27. 1	3.9 38.5 57.6

¹ Includes the group "\$100,000 to \$500,000." ² Includes the group "\$500,000 to \$1,000,000." ³ Less than one-tenth of 1 per cent.

 $^{^4}$ Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over." 5 Includes the group "Less than \$5,000."

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

	Е		BER OF SHMENT	s.			UMBER ARNERS		YAI	UE OF PRODU	jcts.	, ,	VALUE AD	DED BY MAN	UFACTI	JRE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914	Per distrib		1919	1914	Per distrib	cent ution.	1919	1914	Per distrib		1919	1914	Per distrik	cent oution.
			1919	1914			1919	1914	v		1919	1914			1919	1914
COFFEE, ROASTING AND GRINDING	40	37	100.0	100. 0	814	656	100.0	100.0	\$30,070,206	\$14,299,135	100.0	100.0	87,011,581	\$3,350,217	100.0	100.0
\$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	6 7 9 8 10	1 4 9 15 3 6	15. 0 17. 5 22. 5 20. 0 25. 0	10. 8 24. 3 40. 5 8. 1 16. 2	9 21 99 177 508	1 6 50 2 290 310	1.1 2.6 12.2 21.7 62.4	0.9 7.6 44.2 47.3	79, 760 360, 935 2, 530, 281 5, 886, 918 21, 212, 312	1 25, 871 475, 281 3, 919, 850 1, 795, 555 8, 082, 578	0.3 1.2 8.4 19.6 -70.5	0. 2 3. 3 27. 4 12. 6 56. 5	24,406 73,884 416,709 1,673,603 4,822,979	1 12,616 170,849 2 1,376,985 1,789,767	0.3 1.1 5.9 23.9 68.8	0.4 5.1 41.1
CONFECTIONERY AND ICE CREAM 3	220	154	100.0	100.0	3,669	2,854	100.0	100.0	23, 497, 553	9, 251, 427	100.0	100.0	10, 569, 535	3,995,704	100, 0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$20,000 to \$100,000. \$3,00,000 to \$1,000,000. \$1,000,000 and over.	59 83 46 19 6 7	57 55 21 15 6	26. 8 37. 7 20. 9 8. 6 2. 7 3. 2	37. 0 35. 7 13. 6 9. 7 3. 9	25 165 307 665 755 1,752	43 168 216 22,427	0.7 4.5 8.4 18.1 20.6 47.8	1. 5 5. 9 7. 6 85. 0	144, 912 886, 496 2, 059, 802 4, 118, 091 5, 124, 500 11, 163, 752	148, 176 603, 530 975, 007 3, 824, 014 3, 702, 700	0.6 3.8 8.8 17.5 21.8 47.5	1.6 6.5 10.5 41.3 40.0	63, 289 396, 398 806, 882 1, 651, 406 2, 414, 360 5, 237, 200	80, 210 316, 551 434, 871 23, 164, 072	0.6 3.8 7.6 15.6 22.8 49.5	2.6 7.9 10.1 79.
ELECTRICAL MACHINERY, APPARATUS, AND SUP- PLIES.	35	19	100. 0	100. 0	6,367	2,560	100.0	100.0	22,007,658	6,643,210	100.0	100.0	13,845,405	4, 227, 457	100.0	100,6
Tess than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$500,000 to \$1,000,000.	10 12 4 5	5 5 3 3 53	11. 4 28. 6 34. 3 11. 4 14. 3	26. 3 26. 3 15. 8 15. 8 15. 8	14 93 743 587 4,930	10 26 72 42,452	0. 2 1. 5 11. 7 9. 2 77. 4	0. 4 1. 0 2. 8 95. 8	49, 359 389, 221 2, 593, 845 3, 047, 950 15, 927, 283	15,366 56,184 161,652 986,060 5 5,423,948	0. 2 1. 8 11. 8 13. 8 72. 4	0. 2 0. 8 2. 4 14. 8 81. 7	21,551 252,590 1,334,480 1,571,529 10,665,255	7,791 38,187 69,480 44,111,999	0, 2 1, 8 9, 6 11, 4 77, 0	1.6
FLOUR-MILL AND GRIST- MILL PRODUCTS	690	641	100. 0	100.0	3,015	2,096	100.0	100.0	113, 297, 359	38, 686, 309	100.0	100.0	15, 112, 635	5, 423, 920	100.0	100,
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 to \$1,000,000.	159 205 215 67 16 28	145 244 182 52 13 5	23. 0 29. 7 31. 2 9. 7 2. 3 4. 1	22. 6 38. 1 28. 4 8. 1 2. 0 0. 8	17 119 418 479 293 1,689	94 275 534 2 874	0.6 3.9 13.9 15.9 9.7 56.0	4. 5 13. 1 25. 5 41. 7	405, 532 2, 321, 425 9, 654, 289 15, 920, 418 11, 096, 608 73, 899, 087	384, 498 2,771, 811 7,411, 813 11, 326, 649 8,709, 681 8,081,857	0. 4 2. 0 8. 5 14. 1 9. 8 65. 2	1. 0 7. 2 19. 2 29. 3 22. 5 20. 9	77, 109 427, 052 1, 380, 272 1, 886, 777 2, 018, 884 9, 322, 481	80,643 538,725 1,205,274 2,493,546 1,105,732	0.5 2.8 9.1 12.5 13.4 61.7	
FOOD PREPARATIONS NOT ELSEWHERE SPECI- FIED	. 87	54	100.0	100.0	1,454	629	100.0	100.0	23, 463, 398	7,793,604	100.0	100.0	5, 256, 132	1,646,404	100.0	100.
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over.	17 18 19 7	16 15 10 413	25. 3 19. 5 20. 7 21. 8 8. 0 4. 6	29. 6 27. 8 18. 5 24. 1	9 46 147 423 573 256	20 81 110 4 418	0.6 3.2 10.1 29.1 39.4 17.6	3. 2 12. 9 17. 5 66. 5	34, 584 171, 109 966, 035 4, 911, 416 5, 179, 920 12, 200, 334	42,525 201,871 554,708 46,994,500	0. 1 0. 7 4. 1 20. 9 22. 1 52. 0	0.5 2.6 7.1 89.7	20, 960 63, 946 354, 770 1, 402, 548 1, 718, 368 1, 695, 540	23,507 114,424 164,314 4 1,344,159	0.4 1.2 6.7 26.7 32.7 32.3	10. 81,
FOUNDRY AND MACHINE- SHOP PRODUCTS 5		261	100. 0	100.0	9,705	5,602	100.0	100.0	50, 142, 868	14,564,313	100.0	100.0	29, 892, 143	7,773,012	100.0	100,
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$5,00,000. \$1,000,000 and over.	51 95 98 54 10	68 86 77 25 5	15. 9 29. 6 30. 5 16. 8 3, 1 4. 0	26. 1 33. 0 29. 5 9. 6 1. 9	25 280 1,118 2,459 1,560 4,263	68 456 1,272 2 3,806	0. 2 2. 9 11. 5 25. 3 16. 1 43. 9	1.3 8.1 22.7 67.9	144,230 1,124,024 4,783,683 11,679,547 7,042,775 25,368,609	153,661 1,001,997 3,308,373 6,339,475 3,760,807	0.3 2,2 9.5 23.3 14.0 50.6	1. 1 6. 9 22. 7 43. 5 25. 8	101,803 730,769 2,811,210 6,646,118 3,872,957 15,729,286	115, 360 692, 863 1, 950, 226 2 5, 014, 563	0.3 2.4 9.4 22.2 13.0 52.6	25. 64.
FURNITURE	-	91	100.0	100.0	3,373	3,209		100.0	16, 154, 865	7,174,010	100.0	100.0	7,831,475	3,819,183	100.0	-
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	20 36 3	15 18 36 222	15. 1 12. 8 23. 3 41. 9 3. 5 3. 5	16. 5 19. 8 39. 6 24. 2	11 36 292 1,891 257 886	16 97 982 2 2,114	0.3 1.1 8.7 56.1 7.6 26.3	0. 5 3. 0 30. 6 65. 9	26, 325 117, 986 1,078, 723 7,768,048 1,905,276 5,258,507	33,443 191,399 1,891,255 2 5,057,913	0. 2 0. 7 6. 7 48. 1 11. 8 32. 6	0. 5 2, 7 26. 4 70. 5	14,271 70,959 542,492 4,204,136 837,043 2,162,574	20, 397 116, 197 1,047, 625 2 2, 634, 964	0. 2 0. 9 6. 9 53. 7 10. 7 27. 6	3, 27. 69.
Liquors, malt	20	32	100.0	100.0	2,930	5,947	100.0	100.0	24, 365, 548	31,801,404	100.0	100.0	20,641,517	24, 428, 671	100.0	_
Less than \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	5 3	5 11 5 6 5	35. 0 25. 0 15. 0 25. 0	15. 6 34. 4 15. 6 18. 8 15. 6	7 72 159 209 2,490	13 162 2 777 4,995	2. 5 5. 4 7. 1 85. 0	0. 2 2. 7 13. 1 84. 0	7 375, 427 1, 156, 377 2, 035, 710 20, 798, 034	42,472 697,173 1,129,048 3,547,991 26,384,720	1. 5 4. 7 8. 4 85. 4	0. 1 2. 2 3. 6 11. 2 83. 0	7 247,462 776,786 1,627,389 17,989,880	29,085 474,073 2 3,164,500 20,761,013	1.2 3.8 7.9 87.2	13.
PRINTING AND PUBLISH- ING, BOOK AND JOB	460	435	100.0	100. 0	5,866	5, 123	100.0	100.0	25, 880, 461	12,434,192	100. 0	100.0	16,641,977	8, 575, 864		
Less than \$5,000 . \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 to \$500,000 . \$500,000 to \$1,000,000 . \$1,000,000 and over	171 118 51 4	174 158 75 25 ⁶ 3	24. 6 37. 2 25. 7 11. 1 0. 9 0. 6	40. 0 36. 3 17. 2 5. 7 0. 7	61 506 1,158 2,428 590 1,123	176 771 1,315 2,861	1. 0 8. 6 19. 7 41. 4 10. 1	3. 4 15. 0 25. 7 55. 8	281,396 1,888,564 5,463,591 9,839,819 2,487,984 5,919,107	3,327,887 4,418,744	1. 1 7. 3 21. 1 38. 0 9. 6 22, 9	3. 2 12. 8 26. 8 35. 5 21. 7	183, 180 1, 218, 051 3, 496, 641 6, 251, 937 1, 517, 575 3, 974, 593	293, 156 1, 150, 895 2, 274, 257 4 4, 857, 556	7.3 21.0 37.6 9.1	13. 26. 56.

¹ Includes the group "Less than \$5,000."
2 Includes the group "\$500,000 to \$1,000,000."
3 Includes "chewing gum" in 1914.
4 Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

<sup>Includes the group "\$1,000,000 and over."
Includes "iron and steel, tempering and welding" and "machine tools."
Includes the group "\$5,000 to \$20,000."</sup>

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

INDE														1010 111(1)	1011	-COII.
	I		BER OF			ERAGE 1 WAGE E			VA	LUE OF PROD	ucts.		VALUE AI	DUED BY MA	NUFACT	URE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914		cent oution.	1919	1914	Per distri	cent bution.	1919	1914	Per distril	cent bution.	1919	1014	Per distrib	cent oution.
			1919	1914			1919	1914		1314	1919	1914	1919	1914	1919	1914
PRINTING AND PUBLISH- ING, NEWSPAPERS AND PERIODICALS	774	851	100.0	100.0	4,183	4,279	100. 0	100, 0	\$30,011,808	\$18,034,624	100, 0	100.0	\$18, 152, 235	\$13,058,831	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	413 256 69 26 4 6	572 204 51 17 3 4	53. 4 33. 1 8. 9 3. 4 0. 5 0. 8	67. 2 24. 0 0. 0 2. 0 0. 4 0, 5	362 697 580 764 359 1,421	845 723 400 11,221 1,090	8, 7 16, 7 13, 9 18, 3 8, 5 34, 0	19. 7 16. 9 9. 3 28. 5	1,079,805 2,340,731 2,767,614 4,916,409 2,372,905 16,534,344	1,360,935 1,822,362 1,965,998 3,515,447 1,950,317 7,419,565	3. 6 7. 8 9. 2 16. 4 7. 9 55. 1	7. 5 10. 1 10. 9 19. 5 10. 8 41. 1	829, 963 1, 802, 159 2, 112, 174	1,123,928 1,544,534 1,656,462 13,809,478 4,924,429	4.6 9.9 11.6 20.0 9.1 44.8	8. 6 11. 8 12. 7 29. 2
SLAUGHTERING AND MEAT PACKING	49 '	31	100.0	100.0	8,290	5, 152	100, 0	100.0	246,610,195	91,608,121	100.0	100, 0	18,600,819	7, 272, 686	100.0	100.0
\$5,000 to \$20,000. \$20,000 to \$100,000. \$10,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	5 16 12 3 13	3 11 1 11 9	10, 2 32, 7 24, 5 6, 1 26, 5	35. 5 35. 5 29. 0	33 97 104 8,054	3 53 1 182 4, 917	(2) 0. 4 1. 2 1. 3 97. 2	1. 0 3. 5	59,883 845,713 2,492,691 2,266,827 240,945,081	88,071,730	(2) 0.3 1.0 0.9 97.7	0, 5 3, 4 96, 1	17, 457 144, 690 261, 692 315, 810 17, 861, 164	3 93, 331 1 338, 708 6, 840, 647	0. 1 0. 8 1. 4 1. 7 96. 0	1.3 4.7
STOVES AND HOT-AIR FURNACES	19	15	100.0	100.0	2,462	1,714	100. 0	100.0	15, 339, 544	6,644,251	100.0	100.0	9, 274, 252	4, 305, 848	100.0	100.0
\$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	5 6 3 5	3 9 53	26. 3 31. 6 15. 8 26. 3	20. 0 60. 0 20. 0	45 283 469 1,665	70 11,644	1. 8 11. 5 19. 0 67. 6	4.1 95.9	222,186 1,569,761 1,951,999 11,595,598	164,302 1,890,063 54,589,886	1. 4 10. 2 12. 7 75. 6	2. 5 28. 4 69. 1	116, 178 717, 795 1, 488, 467 6, 951, 812	87, 892 4 4, 217, 950	1. 3 7. 7 16. 0 75. 0	2. 0 98. 0

l Includes the group "\$500,000 to \$1,000,000." Less than one-tenth of 1 per cent. Includes the groups "Loss than \$5,000" and "\$5,000 to \$20,000."

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

		,													
	er of nents.		AGE NERS.	VALUE PRODUC		VALUE ADD MANUFAC			of nents.	WA EARN	GE VERS.	VALUE PRODUC		VALUE ADD MANUFACT	
CITY AND VALUE OF PRODUCT.	Number of establishments.	Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.	CIPY AND VALUE OF PRODUCT.	Number establishme	Average number.	Per cent of total.	Amount.	Per cont of total.	Amount.	Per cent of total.
CAPE GIRARDEAU.		1,427	100.0	\$8,586,593	100.0	\$2,897,990	100.0	Kansas City	997	22, 137	100.0	\$ 192,815,052	100. 0	\$68, 505, 148	100.0
Less than \$5,000\$5,000 to \$20,000\$20,000 to \$100,000\$100,000 and over	9	13 62 121 1,231	0.9 4.3 8.5 86.3	34, 759 107, 454 563, 162 7, 791, 218	0. 4 2. 3 6. 6 90. 7	19, 462 99, 548 261, 335 2, 517, 645	0.7 3.4 9.0 86.9	Loss than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000	304	83 752 3,206 5,527 4,279	0.4 3.4 14.5 25.0 19.3	438, 354 3, 462, 041 14, 766, 273 34, 830, 913 27, 027, 396	0. 2 1. 8 7. 7 18. 1 14. 0	268, 407 2, 062, 229 8, 313, 934 15, 840, 641 11, 503, 023	0. 4 3. 0 12. 1 23. 1 16. 8
CARTHAGE		515	100.0	6,627,782	100.0	1, 280, 586	100.0	\$1,000,000 and over	33	8, 290	37. 1	112, 290, 075	58. 2	30, 516, 914	44. 5
Less than \$5,000 \$5,000 to \$20,000		11 39	2.1 7.6	30, 111 137, 110	$0.5 \\ 2.1$	13, 170 72, 871	1.0 5.7	MOBERLY	25	570	100.0	4, 498, 894	100.0	1,244,180	100.0
\$20,000 to \$100,000 \$100,000 to \$500,000 \$1,000,000 and over	19 3 3	155 100 210	30. 1 19. 4 40. 8	779, 353 833, 382 4, 847, 820	11.8 12.6 73.1	350, 773 243, 400 600, 372	27. 4 19. 0 46. 9	Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000	12	3 13 107	0. 5 2, 3 18, 8	13, 206 64, 295 721, 952	0. 3 1. 4 16. 1	6, 266 28, 988 282, 290	0.5 2.3 22.7
COLUMBIA		379	100.0	2, 232, 207	100.0	681, 922	100.0	\$100,000 and over	1	447	78.4	3, 697, 441	82. 2	926, 636	74.5
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 and over.	7 7 6 5	13 42 320	1.1 3.4 11.1 84.4	19, 086 70, 130 269, 400 1, 873, 591	0. 9 3. 1 12. 1 83. 9	10, 214 44, 144 169, 975 457, 589	1, 5 6, 5 24, 9 67, 1	St. Joseph	28 70 69	5,943 11 150 738	0. 2 2. 5 12. 4	78, 456 756, 011 3, 412, 786	0. 2 1. 5 6. 7	17,345,706 44,710 407,896 1,727,199	0.3 2.3 10.0
HANNIBAL		2,800	100.0	14, 026, 833	100.0	5, 512, 023	100.0	\$100,000 to \$500,000 \$500,000 to \$1,000,000	27 15	1,276 1,795	$\frac{21.5}{30.2}$	6, 580, 002 9, 980, 104	13. 0 19. 7	3,028,130 4,651,254	17. 5 26. 8
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000.	10 25 18 7 4 3	7 60 193 150	0. 2 2. 1 6. 9 5. 4	28, 620 235, 518 934, 431 981, 098	0. 2 1. 7 6. 7 7. 0	15, 427 132, 068 368, 556 620, 563	0.3 2.4 6.7 11.3	\$1,000,000 and over St. Louis Less than \$5,000		300	33.2	29, 889, 839 871, 700, 438 1, 516, 942	59. 0 100. 0 0. 2	7,486,508	43. 2 100. 0 0. 3
\$1,000,000 and over	3	286 2,104	10, 2 75, 1	3, 007, 797 8, 839, 360	21. 4 63. 0	874, 385 3, 501, 024	15.9 63.5	\$5,000 to \$20,000 \$20,000 to \$100,000	986 805	3, 137 8, 813	2.9 8.2	14, 812, 586	1.7 4.7	981, 857 7, 958, 173 21, 507, 346	2.4 6.5
INDEPENDENCE 1	21	283	100.0	5,344,137	100.0	1,005,813	100.0	\$100,000 to \$500,000 \$500,000 to \$1,000,000	534 126	23, 568 13, 729	21.8 12.7	122, 565, 306 88, 240, 712	14, 1 10, 1	59, 126, 585 37, 407, 512	17.9 11.3
JEFFERSON CITY	42	1,713	100.0	10, 188, 406	100.0	2, 823, 701	100.0	\$1,000,000 and over		58,372	54.1	603, 778, 695		203,892,618	61.6
Less than \$5,000. \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$600,000 and over.		7 56 35 572 1,043	0. 4 3. 3 2. 0 33. 4 60. 9	34, 543 100, 516 121, 437 1, 853, 716 8, 018, 194	0.3 1.6 1.2 18.2 78.7	19, 189 95, 978 72, 149 996, 208 1, 640, 177	0. 7 3. 4 2. 6 35. 3 58. 1	SEDALIA	24	1,163 15 58 131 959	1.3 5.0 11.3 82.5	55, 851 219, 708 788, 387 4, 497, 919	1.0 3.9 14.2 80.9	2,073,907 36,223 119,665 379,200 1,538,819	1.7 5.8 18.3 74.2
JOPLIN	139	1,810	100.0	14, 219, 935	100.0	4, 605, 860	100.0	Springfield	107	2,910	100.0	18, 812, 549	100.0	6, 215, 865	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	42 41 35 15 6	29 103 260 491 927	1. 8 5. 7 14. 4 27. 1 51. 2	125, 323 453, 826 1, 708, 592 3, 185, 487 8, 746, 707	0. 9 3. 2 12. 0 22. 4 61. 5	76, 485 261, 875 737, 836 1, 409, 741 2, 119, 923	1. 7 5. 7 16. 0 30. 6 46. 0	Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	22 38 23 12 5 7	15 115 211 382 441 1,746	0. 5 4. 0 7. 3 13. 1 15. 2 60. 0	56, 189 424, 007 1, 078, 000 1, 878, 686 2, 870, 512 12, 505, 155	0. 3 2. 3 5. 7 10. 0 15. 3 66. 5	35, 249 258, 826 464, 434 861, 798 1, 319, 582 3, 275, 976	0.6 4.2 7.5 13.9 21.2 52.7

 $^{^{\}rm 1}$ Figures can not be shown by groups without disclosing individual operations.

 $^{^4}$ Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over." 6 Includes the group "\$1,000,000 and over."

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

			MBER			RAGE	NUMBER	of w	AGE EA	RNERS			1	ALUE OF PRO	DUCTS.			
INDUSTRY AND CITY.	Cen- sus year.	ESTA		MENTS			stablishr wned by		Per c	ent of	otal.		Of estal	olishments ow	med by—	Per o	ent o	total
		Indi vid- uals	pora	oth-	Total.	Indi- vid- uals.	Corpora-	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals,	pora	- oth
All industries	1919 1914 1909	4, 34	3 2,501	2 1,580 1,539 7 1,593	152, 182	13, 093 12, 832 13, 755	3 174, 296 2 133, 110 5 130, 514	[6,240]	6. 7 8. 4 9. 0	89. 4 87. 5 85. 3	3.9 4.1 5.7	\$1,594,208,338 637,952,128 574,111,070	\$69,526,094 40,542,260 38,121,568	\$1,480,883,324 574,836,664 508,761,173	\$43,798,920 22,573,204 27,228,329	4. 4 6. 4 6. 6	92.	9 2. 1 3.
Boxes, paper and other, not elsewhere specified.	1919 1914	5 4	33 27	3	2,369 1,092	62 1 82	2,282 1,010	25	2.6 7.5	96. 3 92. 5	1.1	8,857,121 1,636,088	249, 894 1 112, 445	8,536,517 1,523,643	70,710	2. 8 6. 9	96. 4	0.
Bread and other bakery products.	1919 1914	788 874	63 39	124 130	6, 156 5, 269	1,311 1,414	4,535 3,506	310 349	21. 3 26. 8	73. 7 66. 5	5. 0 6. 6	43, 839, 428 19, 940, 499	10, 080, 022 5, 771, 880	31, 203, 810 12, 766, 532	2, 555, 596 1, 402, 087	23.0	93. 1	5.
Brick and tile, terra-cotta, and fire-clay products.	1919 1914	15 30	45 48	5 12	4, 469 5, 188	508 609	3,919 4,508	42 71	11.4 11.7	87. 7 86. 9	0.9 4.1	11, 455, 779 6, 509, 161	1,408,645 758,437	9, 978, 961 5, 664, 220	68, 173	28. 9 12. 3	64, 0 87, 1	7.4
Butter	1919 1914	20 16	33 24	13 14	686 361	45 30	613 303	28 28	6.6 8.3	89.4 83.9	4.1 7.8	22, 147, 691 5, 167, 343	1,419,127 248,665	20, 188, 615	86, 504 539, 949	11, 7 6,4	87.0 91.2	1. ; 2.
Clothing, men's	1919 1914	29 14	66 45	17 12	6, 823 5, 593	445 181	6, 100 5, 188	278 224	6.5	89. 4 92. 8	4. 1 4. 0	35, 838, 747 13, 484, 374	1, 180, 868 294, 541	4,617,591 33,199,355	301, 087 1, 458, 524	4.8 3.3	89.4 92.6	5.8
Clothing, women's	1919 1914	35 23	56 37	25 14	3,308 2,355	626 326	2, 246 1, 674	436 355	18. 9 13. 8	67. 9	13. 2 15, 1	18, 433, 548	2,734,714	12,651,658	538, 175 2, 695, 537	2. 2 14. 8	93.8	14.6
Coffee, roasting and grinding.	1919 1914	4 6	31 27	5 4	814 656	6 39	793 604	15 13	0.7 5.9	97.4 92.1	1.8 2.0	5, 517, 015 30, 070, 206	95, 261	3,943,425 29,619,804	740, 698 355, 141	15, 1	71.5 98.5	13.
Confectionery and ice cream ²		103	50 42	67 43	3,669 2,854	550 225	2,975 2,468	144 161	15. 0 7. 9	\$1.1 86.5	3.9 5.6	14, 299, 135 23, 497, 553	289, 471 3, 000, 292	13, 791, 346 19, 422, 459	218,318 1,074,802	12.8	96.4 82.7	1.5 1.6 4.6
Electrical machinery, apparatus, and supplies.	1919 1914	3 7	31 12	1	6, 367 2, 560	1 65 321	6,302 2,239		1.0 12.5	99.0		9, 251, 427 22, 007, 658	808, 932 1 244, 467	7, 753, 411 21, 763, 191	689, 084	8.7 1.1	83. 8 98. 9	7.4
Flour-mill and gristmill products.	1919 1914	315 284	179 152	196 205	3, 015 2, 096	259 393	2,539	217	8.6	87. 5 84. 2 64. 2	7.2	6,643,210	359, 782 6, 390, 869	6, 283, 428 100, 538, 509	6, 367, 981	5. 4 5. 6	94. 6 88. 7	5. 6
Food preparations, not elsewhere specified.	1919 1914	30 21	43 24	14	1,454	83	1,345	358 93	18.7	87.9	17.1	38, 686, 309 23, 463, 398	1, 328, 928 1, 024, 863	27, 838, 468 21, 696, 287	6, 518, 913 742, 248	11.2 4.4	72, 0 92.5	16.8
Foundry and machine- shop products.3	1919 1914	112 82	167 139	9 42	9,705	73 523	9,006	108 176	11.6 5.4	92.8	17.2 1.8	7, 793, 604 50, 142, 868	166, 138 2, 176, 015	21,696,287 7,103,064 47,235,430	742, 248 524, 402 731, 423	2.1 4.3	91.1	6.7
Furniture	1919 1914	23 28	54	9	5, 602 3, 373	289 113	5, 142 3, 199	171 61	5. 2 3. 4	91.8 94.8 91.5	3. I 1. 8	14,564,313 16,154,865	780, 839 439, 807	47, 235, 430 13, 381, 213 15, 414, 449	402, 261 300, 609	5.4 2.7	91. 9 95. 4	2.8
Lumber and timber prod- ucts,	1919	315	55 60	182	3, 209 5, 283	227 861	2,935 3,448	47 974	7. 1 16. 3	65. 3	1, 5 18. 4	7, 174, 010 14, 025, 865	476,607 2,330,794	6, 596, 029 9, 277, 200	101,374 2,417,871	6. 6 16. 6	91. 9	17.2
Lumber, planing-mill	1914	519 35	66	211 16	6,007 2,895	1,480	3,635 2,667	892 84	24.6 5.0	92.1	14.8 2.9	10, 076, 586 12, 317, 666	2, 330, 794 2, 146, 645 489, 962	6,462,596 11,397,241	1, 467, 345 430, 463	21.3	64, 1 92, 5	14.6
products, not including planing mills connected with sawmills.	1914	40	68	14	2,039	166	2,667 1,788	85	8.1	87.7	4.2	5, 453, 709	432, 020	4,813,962	207, 727	7.9	88. 3	3. 5 3. 8
Patent medicines and compounds.	1919 1914	57 61	75 92	10 15	1,040 787	109 102	918 677	13 8	10.5 13.0	88.3 86.0	1.2	14, 590, 676 6, 828, 865	996, 312 785, 282	13,446,399 5,992,996	147, 985 50, 587	6.8 11.5	92.2 87.8	1.0 0.7
Printing and publishing, book and job.	1919 1914	240 241	149 124	71 70	5, 866 5, 123	671 643	4,847 4,166	348 314	11. 4 12. 6	82. 6 81. 3	5.9 6.1	25, 880, 461 12, 434, 192	2,959,085 1,333,101	21, 431, 721 10, 290, 477	1, 489, 655 810, 614	11. 4 10. 7	82. 8 82. 8	5.8 6.5
Printing and publishing, newspapers and period- icals.	1919 1914	462 540	160 155	152 156	4, 183 4, 279	1,341 1,412	2,505 2,531	337 336	32.1 33.0	59. 9 59. 1	8, 1 7, 9	30, 011, 808 18, 034, 624	8, 376, 113 4, 907, 972	19, 598, 796 12, 333, 629	2, 036, 899 793, 023	27. 9 27. 2	65. 3 68. 4	6.8 4.4
Shirts	1919 1914	3 5	16 14		2,715 2,547	7 19	2,708 2,528		0.3 0.7			11,704,712	22, 240 34, 581	11,682,472 3,781,154		0. 2	99.8	
Slaughtering and meat packing.	1919 1914	21 6	25 22	3	8, 290 5, 152	1 49 1 48	8, 241 5, 104		0.6	99, 4		3, 815, 735 246, 610, 195 91, 608, 121	34, 581 11, 719, 239 1 773, 033	3, 781, 154 244, 890, 956 90, 835, 088		0.9 0.7 0.8	99. 1 99. 3 99. 2	i
Total for cities	1919 1914	2, 169 2, 136	2, 157 1, 862	686 595	149, 569	8, 726 8, 088		4,734 3,612	5.8 7.0	91.0 89.9			49, 135, 015 28, 057, 872	· i	28, 723, 234 13, 029, 948	4.1 5.9	93.5	2.4 2.7
CAPE GIRARDEAU	1919 1914	19 16	18 20	13	1,427 1,259	110	1,279 1,179	38 33	7.7	89. 6	2, 7	8, 586, 593 3, 888, 376	599,077	7,762,869 3,638,312	224,647	7.0	91, 4	2,6
CARTHAGE	1919	18	17	14	515	85	389	41	16.5	93. 6 75. 5	2, 6 8. 0	3, 888, 376 6, 627, 782	159, 058 298, 757	3,638,312 6,038,376	91, 006 290, 649	4.1	93. 6 91. 1	2, 3 4, 4
	1919 1914	10 10	10 8	5 4	379 479	28 20	333 413	18 37	7. 4 6. 1	87. 9 86. 2	4. 7 7. 7	2, 232, 207 1, 269, 702	189, 144 70, 056	1, 985, 450 1, 156, 023	57,613 43,623	8. 5	88. 9 91. 0	2.6

¹ Includes the group "All others."

² Includes "chewing gum" in 1914.

³ Includes "iron and steel, tempering and welding" and "machine tools."

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

			JMBEI		AVE	RAGE 1	NUMBER	OF WA	GE EA	RNERS			v.	ALUE OF PRO	DUCTS.			
INDUSTRY AND CITY.	Cen- sus vear.	1	STABIA MENTS VED B	- 11			tablishm vned by-		Per ce	ent of t	otal.		Ofestabl	ishments own	ed by—	Per co	ent of t	otal.
			pora-	a- oth- ns. ers. vid- uals.		Indi- vid- uals.	Cor- pora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions,	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	
HANNIBAL	1919 1914	32 23	24 27	11 16	2,800 2,366	78 62	2,651 2,232	71 72	2. 8 2. 6	94. 7 94. 3	2, 5 3, 0	\$14,026,833 6,214,645	\$478,971 172,360	\$13, 113, 176 5, 434, 799	\$434,686 607,486	3. 4 2. 8	93. 5 87. 5	3. 1 . 9. 8
INDEPENDENCE	1919	8	10	3	283	19	254	10	6.7	89.8	3.5	5, 344, 137	179, 873	5,074,560	89, 704	3.4	94.9	1.7
JEFFERSON CITY	1919 1914	15 14	21 21	6 15	1,713 1,401	28 64	1,677 1,300	8 37	1.6 4.6	97. 9 92. 8	0, 5 2, 6	10, 188, 406 8, 086, 920	117, 825 127, 552	10, 035, 448 7, 790, 076	35, 133 169, 292	1.2 1.6	98. 5 96. 3	0, 3 2, 1
JOPLIN	1919 1914	59 49	45 30	35 21	1,810 1,156	117 148	1,530 889	163 119	6. 5 12. 8	84. 5 76. 9	9, 0 10, 3	14, 219, 935 5, 950, 150	758, 755 375, 546	12,663,221 5,056,708	802, 959 517, 896	5. 3 6. 3	89. 1 85. 0	5, 6 8, 7
KANSAS CITY	1919 1914	433 508	403 369	161 175	22,137 16,252	$2,194 \\ 2,489$	18, 400 12, 776	1, 543 987	9. 9 15. 3	83. 1 78. 6	7, 0 6, 1	192, 815, 052 60, 953, 411		167, 444, 420 46, 421, 112	10, 763, 550 4, 765, 134	7. 6 16. 0	86. 8 76. 2	5. 6 7. 8
MOBERLY	1919 1914	9 15	12 11	4 3	570 463	18 37	542 414	10 12	3.2 8.0	95. 1 89. 4	1, S 2, 6	4, 496, 894 2, 136, 330	181, 095 133, 724	4, 258, 937 1, 970, 239	56, 862 32, 367	4.0 6.3	94. 7 92. 2	1.3 1.5
ST. JOSEPH	1919 1914	93 131	100 100	26 36	5,043 4,914	259 334	5, 572 4, 369	112 211	4.4 6.8	93. 8 88. 9	1, 9 4, 3	50, 697, 198 17, 067, 642	1,669,412 1,197,631	48, 257, 979 15, 229, 836	769, 807 640, 175	3. 3 7. 0	95. 2 89. 2	1.5 3.8
St. Louis	1919 1914	1,399 1,288	1, 429 1, 215	377 284	107,919 85,058	5,594 4,618	99, 743 78, 465	2, 582 1, 975	5. 2 5. 4	92. 4 92. 2	2.4 2.3		29, 175, 171 15, 221, 438	827, 975, 054 339, 678, 539	14, 550, 213 5, 579, 891	3.3 4.2	95. 0 94. 2	1.7 1.5
SEDALIA	1919 1914	29 39	25 19	12 11	1,163 903	55 106	1,075 757	33 40	4.7 11.7	92. 4 83. 8	2. S 4. 4	5, 561, 865 2, 921, 686	233, 902 355, 035	5, 144, 155 2, 434, 867	183, 808 131, 784	$\begin{array}{c} 4.2 \\ 12.2 \end{array}$	92, 5 83, 3	3.3 4.5
SPRINGFIELD	1919 1914	45 43	43 42	19 24	2,910 2,009	141 154	2,664 1,766	105 89	4.8 7.7	91. 5 87. 9	3, 6 4, 4	18, 812, 549 6, 192, 954		17,697,995 5,263,353	463, 603 451, 294	3. 5 7. 7	94. 1 85. 0	2. 5 7. 3

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

											[
				CIT	ES HAVING A	POPUI	LATION OF 10	,000 OR	OVER.		THE STATE OF	
	Cen-	Aggregate.	Total.		10,000 to 25	,000 ¹	25,000 to 10	0,000	100,000 and	over.	A POPULATION 10,000 OR O	
	year.	919	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.		Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.		Per centof aggre- gate.
Number of places	1919 1914 1909		13 12 10		. 8 7 5		3 3 3		2 2 2			
Population 2	1920 1915 1910	3,404,055 3,372,886 3,293,335	1,354,925 1,270,659 1,150,840	39. 8 37. 7 34. 9	110, 146 99, 836 70, 753	3.2 3.0 2.1	147, 472 154, 245 144, 677	4.3 4.6 4.4	1,097,307 1,016,578 935,410	32. 2 30. 1 28. 4	2,049,130 2,102,227 2,142,495	62, 3
Number of establishments	1919 1914 1909	8, 592 8, 386 8, 375	5,012 4,613 4,247	58. 3 55. 0 50. 7	345 298 232	4.0 3.6 2.8	405 476 446	5.4 5.7 5.3	4,202 3,839 3,569	48. 9 45. 8 42. 6	3,580 3,773 4,128	41, 7 45.0 49.3
Average number of wage earners	1919 1914 1909	195, 037 152, 182 152, 993	149, 569 116, 396 115, 565	76.7 76.5 75.5	8, 850 7, 007 5, 200	4.5 4.6 3.4	10,663 8,079 8,351	5. 5 5. 3 5. 5	130,056 101,310 102,014	66. 7 66. 6 66. 7	45,468 35,786 37,428	23.5
Value of products	1919 1914 1909	\$1,594,208,338 637,952,128 574,111,070	\$1,205,309,889 475,867,911 427,078,288	75.6 74.6 74.4	\$57, 064, 717 25, 223, 886 16, 734, 760	3.6 4.0 2.9	\$83,729,682 29,210,746 27,143,705	5.3 4.6 4.7	\$1,064,515,490 421,433,279 383,199,823	66, 8 66, 1 66, 7	\$388,898,449 162,084,217 147,032,782	25.4
Value added by manufacture	1919 1914 1909	537, 751, 174 249, 237, 269 219, 699, 919	445, 066, 792 206, 229, 724 181, 522, 835	82. 8 82. 7 82. 6	17, 520, 122 9, 866, 088 5, 945, 511	3.3 4.0 2.7	28, 167, 431 10, 717, 276 10, 684, 506	5. 2 4. 3 4. 9	399, 379, 239 185, 646, 360 164, 892, 818	74. 4 74. 5 74. 9	92,684,382 43,007,545 38,177,084	17.3 17.3 17.4

¹ Includes Webb City in 1914 and 1909; population less than 10,000 in 1919.

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.

92266°—22—3

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

	VA	LUE OF	PRODUCTS.			VAI	LUE OF	PRODUCTS.	
CITY AND INDUSTRY.	Amount	Per cent of	Increase 1 ov	er 1914.	CITY AND INDUSTRY.	Amount,	centor	Increase 1 ov	er 1914.
	Amount, 1919.	total for the state,	Amount.	Per cent.		1919.	total for the state.	Amount,	Per cent,
Kansas City.					Sr. Louis.				
Bread and other bakery products	10, 592, 983 7, 879, 720 7, 611, 7257 6, 393, 929 6, 048, 929 5, 839, 526 3, 840, 304 3, 226, 533 2, 653, 164 2, 197, 935 19, 106, 839 5, 550, 754 2, 020, 617 1, 565, 460	23.6 1.9 4.4	\$8,669,469 5,674,961 4,082,888 3,635,243 4,746,262 2,010,076 902,676 738,075 (2) 16,392,803 1,109,084 (2) 429,761	1	Slaughtering and meat packing. Boots and shoes, not including rubber boots and shoes. Tobacco manufactures Foundry and machine-shop products. Foundry and machine-shop products. Boot and shoe cut stock Bugs, other than paper, not including bags made in textile mills. Coffee, roasting and grinding. Clothing, men's. Bread and other bakery products. Liquors, malt. Clothing, men's. Frinting and publishing, book and job. Food preparations, not elsewhere specified. Electrical machinery, apparatus, and supplies. Farniture Printing and publishing, newspapers and periodicals. Stoves and hot-air furnaces. Confectionery and ice cream. Flour-mill and gristmill products. Patent medicines and compounds. Chemicals. Patent medicines and compounds. Chemicals. Paints. Shirts. Automobile bodies and parts Brass and bronze products. Boxes, paper and other, not elsewhere specified. Wirework, including wire rope and cable, not elsewhere specified.	59, 857, 853 45, 947, 990 31, 493, 878 28, 696, 415 27, 970, 073 21, 936, 572 21, 135, 202 21, 047, 650 20, 591, 404 17, 415, 571 16, 868, 498 18, 832, 301 18, 832, 301 18, 832, 301 18, 832, 301 12, 575, 220 11, 978, 475 10, 864, 657 8, 326, 287 8, 051, 089 8, 010, 943 7, 438, 243	54. 8 96. 2 100. 0 73. 6 73. 0 59. 0 48. 0 59. 0 67. 5 65. 2 64. 9 67. 5 86. 2 88. 5 57. 2 88. 5 74. 2 89. 4 89. 2 89. 4 89. 2 89. 4 89. 4 89. 2 89. 4 89. 4 89. 4 89. 5 89. 4 89. 4 89. 5 89. 6 89. 6 8	(2) 8, 888, 184 (2) 9, 984, 071 14, 306, 258 11, 594, 104 -6, 238, 070 12, 002, 303 8, 919, 212 10, 109, 255 11, 572, 305 8, 336, 410 5, 178, 708	
Saddlery and harness. Bread and other bakery products. Printing and publishing, newspapers and periodicals	912,518	2.1	497,702	120, 0	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills	7,434,254			
periodiculs Printing and publishing, book and job Butter	761,536				Brick and tile, terra-cotta, and hre-clay	5,950,295	51.9	' '	
Cars and general shop construction and repairs by steam-railroad companies					Cars and general shop construction and repairs by steam-railroad companies	. 5,356,978	16, 2	3, 121, 861	139.
Coffee, roasting and grinding. Food preparations, not elsowhere specified Gas, illuminating and heating Liquors, mait	_ } (2)	(2)	(2)	(2)	Millinery and lace goods, not elsewhere specified Boxes, wooden packing, except eight boxes Cars, steam-railroad, not including opera-	5,069,774 5,002,785	68. 2 68. 4	3,444,197 2,966,603	211 145
Shirts. Stationery goods, not elsewhere specified.					tions of railroad companies	(2)	(2)	(2)	(2)

A minus sign (—) denotes decrease.
 Figures can not be shown without disclosing individual operations.
 Includes "iron and steel, tempering and welding."

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

	NUMBER O	F ENGINES O	R MOTORS.			HORSEPOWE	er.	_	
POWER.					Amount.		Per ce	ent distribu	tion.
	1919	1914	1900	1919	1914	1909	1919	1914	1909
Primary power, total	27, 701	16, 197	11, 545	477, 303	391, 385	340, 467	100.0	100.0	
Owned Steam ¹ Engines. Turbines. Internal-combustion engines. Water. Water wheels and turbines. Water motors.	2,762 111 1,228 98 89	4, 824 3, 428 (3) (2) (2) 1, 273 123 118 5	5, 140 3, 802 (2) (2) 1, 200 138 121 17	295, 092 269, 657 244, 096 25, 561 22, 049 3, 386 3, 169 217	305, 014 283, 490 (2) (2) (2) 18, 321 3, 203 3, 172 31	295, 391 280, 494 (2) (2) (11, 159 3, 738 3, 532 208	61. 8 56. 5 51. 1 5. 4 4. 0 0. 7 0. 7 (3)	77. 9 72. 4 4. 7 0. 8 0. 8 (3)	\$6.8 82.4 3.3 1.1 1.0 0.1
Rented Electric. Other.	23, 502 23, 502	11, 373 11, 373	6, 405 6, 405	182, 211 181, 556 655	86, 371 84, 362 2, 009	45, 076 44, 056 1, 020	38. 2 38. 0 0. 1	22. 1 21. 6 0. 5	0.3
Electric		18, 951 11, 373 7, 578	11, 534 6, 405 5, 129	287, 572 181, 556 106, 016	181, 981 84, 362 97, 619	106, 941 44, 056 62, 885	100. 0 63. 1 36. 9	100. 0 46. 4 53. 6	41.2

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

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

All Industries							
Anthractic (tons, 2,200 pounds). Course, 2,000 pounds). Course, 2		co.	AL.				0
Per cent of increase 2	INDUSTRY AND CITY.	(tons, 2,240	(tons, 2,000	(tons, 2,000		other volatile	(1,000 cubic
Per cent	All industries	14, 652 15, 100	3,577,688	194, 758 222, 717	1, 346, 828	1 (1)	1, 658, 684 1, 073, 686 54, 5
Brass and Orthor Dakery products. 1,776 52,041 11,130 33,5005 825 91, 1824 91, 1824 121 121 121 121 121 122 1207,032 1207,	Per cent of increase *						
Bread and Other back of the terra-cottal, and fire-clay products	Boots and shoes, not including rubber boots and shoes.	343	597	1,923	24,336	60	9, 572 4, 027
Cement	Brass and other bakery products. Bread and other bakery products.	1,776 885		11, 130 616			91, 317 3, 055
Chemicals 105 30, 409 640 1, 155 448 26, 209 208 107, 209 208 107, 209 208 2	Brick and tile, terra-cotta, and modern and repairs by steam-railroad companies	1, 221	207, 032	4,897	17,941	9,011	55
Chemicals 105 30, 409 640 1, 155 448 26, 209 208 107, 209 208 107, 209 208 2	Cement	50	448, 863 37, 564	3 446			4, 480
Explosives	Confectionery and ice cream	200	30,409	640	1,155		26, 046
Flour-mill and gristmill products 302 206, 350 36 28, 436 4, 041 5, 560 560 57 57 57 57 57 57 57 5	Penlocives		33, 368	119	233		107, 402 21, 860
Country and machine-shop Feature 487 17, 176 1, 385 466 390 5, 520	Exposition or strail products	302	208.350		28, 436	4,041	5, 133
Communication Communicatio	Food preparations, not elsewhere specified.	18 118	13, 177 57, 829	39, 277			37, 872 58, 807
Line	Foundry and machine-shop produces	487	17, 170	1,365	496		5, 389
Limber and timber products. 4 173, 914 2, 320 37, 511 1, 304 3, 208 Limber, planing-mill products, not including planing mills connected with saw-mils. 7 14, 499 60 42 91 2, 320 Minerals and earths, ground or otherwise treated 17, 433 97 5, 550 1, 532 Paints 36, 590 805 12, 568 20 Printing and publishing, book and job. 332 8, 408 40 90 49 25, 72 Printing and publishing, newspapers and periodicals 160 11, 258 840 17, 230 1, 542 50, 80 Slaughtering and meat packing 268, 986 530 170, 100 2 24 Soap 20, 616 473 473 2 15	Gas, illuminating and heating		102,010	24,007	,	114	0 663
Liquers, mait	Ice, manufactured		76, 980	2,651			2, 683 528
Lumber, planing-mill products, not including planing mills connected with saw-mills.	Lime	4	46, 191 173, 914	2,326	37.511	1, 304	3, 480
Minerals and earths, ground or otherwise treated 17, 438 97 5, 550 1, 532 1, 532 1, 532 1, 532 1, 532 1, 532 1, 532 1, 532 1, 532 1, 532 1, 542 1, 542 1, 542 1, 543 1, 542 1, 543 1, 544	Liquors, mait. Lumber and timber products.		13, 398		2,086	796	
Paints Painting and publishing, book and Job 332 8, 408 40 90 49 25,	Lumber, planing-mill products, not including planing mills connected with saw-	7	14 490	60	49	01	2,687
Paints Painting and publishing, book and Job 332 8, 408 40 90 49 25,	mills		17, 438	97	5.050	1, 532	254
Slaughtering and meat packing 266, 986 530 170, 160 2 24 509 20, 616 413 2 15	Paints	332	8, 408	. 40	90	49	25, 471
Slaughtering and meat packing 266, 986 530 170, 100 2 24	Printing and publishing, newspapers and periodicals	160		840	,	1	50, 385
Soap. 28 13,653 4,713 2 15 Stores and hot-air furnaces. 28 13,653 4,713 2 2 15	Slaughtering and meat packing		266, 986		170,100	2	24, 512 96
	Stoves and hot-air furnaces	28	13, 653	4,713	852,067	9, 526	15, 535 1, 158, 038
Sloves and not-air firrnaces. 8, 816 885, 588 92, 406 852, 007 9, 526 1, 158	All other industries.	8, 810	800,088	92,400	502,007	9, 020	1, 100, 000
Total for cities	Total for cities	. 10, 783	2, 377, 400	149, 996	805, 411	17,425	1, 595, 231
	Cape Girardeau	. 33	14,600				1, 499 9, 477
CARTHAGE.			5, 527	411			197
COLUMBIA	HANNIBAL. INDEPENDENCE	32	46, 132 7, 777	4, 587 617		9	1,745 849
3 10.093 4.064 102 2	Innovances Curr	3	10,093		4,064		2, 082
Towns 16, 068 13, 903 16, 315 147 67	Tontyn	1 5	16,068	13,903	16,315 350,388	3, 264	67, 366 140, 784
MOBERLY	MOBERLY	. 13		150		. 86	391
	St. Joseph.	216	65, 360	12,569	88,731	573 4 253	21, 755 1, 331, 113
SEPALIA 19, 140 79 860 64 1	SEDALIA		19,140	11 79	860	64	1, 144
Subjective D 56 38, 807 6, 247 8, 563 8, 837 16	SPRINGFIELD	.] 56	38, 807	6,247	8, 563	8,837	10, 829

¹ Included in figures for fuel oils.

² A minus sign (-) denotes decrease.

SPECIAL STATISTICS.

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

Slaughtering and meat packing (Table 19).—This table presents, for the census years 1919, 1914, and 1909, the kind, number, and cost of animals slaughtered; "All other materials," which include dressed meat purchased for curing, cottonseed oil for making lard compounds and substitutes, curing materials, seasoning, refrigeration, materials for making ice, containers, fuel, rent of power, mill supplies, and freight; and the quantity and value of the most important products that can be shown without disclosing individual operations. The value of minor and auxiliary products are grouped under "All other products," which include beef, pickled and other cured, canned pork, canned sausage, meat puddings, headcheese and scrapple, lard compounds and substitutes, oleo oil, oleo stearin, hoofs, horns, and horntips, strips and waste, hog and cattle hair, wool, stock feed, and ice. The value of goat meat was included with that of "Edible offal and other fresh meat."

The actual growth of the industry is indicated by a comparison of the number of animals killed in 1919 and 1914. The number of these slaughtered in 1919, exclusive of goats and kids, was 5,090,407 and in 1914, 3,975,313, an increase of 1,115,094, or 28.1 per cent. This increase was in all classes except sheep and lambs, which decreased 34,595. There was a large increase in the cost of each class of animals slaughtered, and the cost per unit for hogs, and sheep and lambs, more than doubled.

The production of mutton and lamb during this period declined 3,199,698 pounds and that of fresh pork 8,375,813 pounds, but the increase in cured pork was 103,940,812 pounds. There was a decline of 2,262,565 pounds in tallow and oleo stock and 340,637 pounds in easings.

The number of sheep and lamb skins was 34,621 less in 1919 than in 1914.

Table 19.—Slaughtering and Meat Packing: 1919, 1914, and 1909.

	1919	1914	1909
MATERIALS.			
Total cost	\$228,009,376	\$84, 335, 435	\$72,004,428
Animals slaughtered, cost	\$213, 273, 847	877, 107, 756	\$64,725,904
Number Cost Calves—	674,287 \$61,904,149	359, 910 \$24, 718, 132	530, 356 \$24, 332, 919
Number	167,753 \$3,827,762	45, 213 \$637, 528	81, 551 \$821, 829
Number	742,156 \$8,337,496	776, 751 \$4, 192, 669	546, 649 \$2, 659, 215
Number Cost	3, 506, 211 \$139, 204, 440	2,793,439 \$47,559,427	2,471,658 \$36,911,941
All other materials, cost	\$14, 735, 529	\$7,227,679	\$7, 278, 524

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

	1919	1914	1909
PRODUCTS.			
Total value	\$246,610,195	\$91,608,121	\$79, 325, 7
Fresh meat, valueBeef—	\$94,931,313	\$44,510,603	\$37,958,6
PoundsValueVeal.—	282, 295, 654	183,947,055	273, 808, 5
	\$44, 197, 967	\$20,469,805	\$20, 038, 8
PoundsValue	16, 819, 269	4, 402, 875	8, 831, 4
	\$2, 980, 652	\$549, 457	\$767, 8
Pounds. Value. Pork—	27, 183, 158 \$6, 090, 276	30, 382, 856 \$3, 409, 093	21,896,9 \$2,200,8
Pounds	156, 569, 049	164, 944, 862	138, 974, 4
	\$39, 001, 859	\$18, 746, 424	\$13, 492, (
Value	25, 912, 179	20, 108, 325	10,887,8
	\$2, 660, 559	\$1, 335, 734	\$1,450,7
Pork, pickled and other cured: Pounds	313, 862, 906	209, 922, 094	222, 224, (
	\$90, 646, 301	\$28, 393, 231	\$24, 760,
Pounds	35, 010, 739	16, 183, 674	18,022,9
ValueLard:	\$6, 630, 306	\$1, 984, 958	\$1,376,8
Pounds	92, 064, 888	72, 410, 760	48, 835,
	\$27, 744, 195	\$7, 573, 570	\$5, 595,
PoundsValue	6, 569, 624	8,832,189	10, 412,
	\$1, 246, 421	\$617,446	\$799,
PoundsValue	8, 407, 056	2, 403, 605	(1)
	\$1, 182, 782	\$136, 273	(1)
Pounds Value Fertilizers and fertilizer materials;	4, 220, 621 \$736, 384	4, 561, 258 \$473, 885	· (1)
TonsValue	23,023	15, 973	19,
	\$1,121,611	\$473, 606	\$564,
Hides and pelts: Cattle—			
Number	674, 287 36, 022, 198 \$11, 487, 699	359, 910 21, 920, 168 \$3, 449, 506	567,
Calf— Number. Pounds. Value. Sheep and lamb—	126,609 1,595,333 \$830,008	38, 971 526, 789 \$94, 932	32, 406, \$4, 427,
NumberValue	742, 144	776, 765	281,
	\$2, 168, 383	\$870, 028	\$ 330,
All other products, value	1	\$3,030,083	\$3,503,

1 Not reported separately.

This state ranked fifth in value of products in the slaughtering and meat-packing industry in the United States for the last three census periods—1919, 1914, and 1909.

Boots and shoes (Tables 20 and 21).—Table 20 gives the number of pairs and value of the various kinds of footwear made in Missouri in 1919, 1914, and 1909.

The number of pairs of boots and shoes reported in 1919 increased by 5,012,812, or 24.5 per cent, as compared with 1914, and by 799,892, or only 3.2 per cent, as compared with 1909. The value of the output for the former period shows an increase of \$62,058,444, or 154.9 per cent. Missouri's proportion of the aggregate number of pairs of boots, shoes, and slippers reported for the United States was 8 per cent in 1919 as against 7.1 in 1914 and 9.1 in 1909. Men's shoes were the only kind in 1919 to show a decrease in output over 1914. All other kinds show an increase, and of these, women's shoes made the greatest gain, amounting to 3,497,453 pairs, or 51.7 per cent. In 1914 and 1909 men's boots and shoes led in production, but in 1919 more women's

shoes were reported than any other kind. Slippers were principally infants', and "All other products" for 1919 includes the value of a large quantity of cut stock which can not be shown separately without disclosing individual operations.

Table 20.—Boots and Shoes, by Classes: 1919, 1914, and 1909.

	NUMBER OF PAIRS AND VALUE,				
Crys2	1919	1914	1909		
Aggregate number of pairs Aggregate value	26, 362, 397 \$109, 193, 423	20, 868, 352 \$40, 311, 210	25, 931, 107 1 \$42, 534, 198		
Boots and shoes: Total number of pairs Total value	25, 457, 052 \$102, 132, 828	20, 444, 240 \$40, 074, 384	24,657,160		
Men's— Number of pairs	8, 399, 403 \$38, 571, 154	8, 840, 878 \$2 1, 036, 331	9, 303, 028		
Boys' and youths'— Number of pairs Value	2,294,733 \$7,496,179	748,018 \$1,278,816	2,087,258		
Women's— Number of pairs Value	10, 256, 064 \$43, 848, 582	6,758,611 \$11,961,984	8,642,965		
Misses' and children's— Number of pairs Value	4,506,852 \$12,216,913	4,096,733 \$5,797,253	4,623,909		
Slippers (all kinds): Number of pairs Value	905, 345 \$698, 323	424, 112 \$177, 781	1,273,947		
All other products, value	\$6,362,272	\$59,045			

¹ Total value only reported in 1909,

Table 21 gives the kinds and number of pairs of boots and shoes produced in the state in 1919 and 1914, classified according to method of manufacture.

Welted shoes exceeded other kinds in number of pairs manufactured in 1919. This is a reversal of the showing made at the previous census when the McKay was the leading type. Men's, boys', and youths' boots and shoes were principally welted, while women's, misses', and children's were McKay. There was an increase in the turned and wood or metal fastened type for the period covered by the table. Stitchdown, a type not reported separately at previous censuses, shows a total of 1,155,291 pairs for 1919.

TABLE 21.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

OF MANOPACTORE, 1919 AND 1914.								
		NUMBER C	NUMBER OF PAIRS, BY METHOD OF MANUFACTURE.					
CLASS.	Cen- sus year.	Total.	Welted.	McKay.	Turned and wood or metal fastened.	Stitch- down.		
Boots and shoes	1919 1914	25, 457, 052 20, 444, 240	10, 350, 770 7, 364, 001	9, 845, 541 9, 318, 739	4,305,450 3,761,500			
Men's	1919 1914	8, 399, 403 8, 840, 878	6, 175, 367 5, 188, 588	1,337,283	22,133,395 2,315,007	90, 641 (1)		
Boys' and youths'	1919 1914	2,294,733 748,018	1, 335, 289 188, 803		³ 959, 444 332, 134			
Women's	1919 1914	10, 256, 064 6, 758, 611	1, 739, 626 1, 986, 610		817, 091 547, 018			
Misses' and children's.	1919 1914	4,506,852 4,096,733		2,389,433 3,529,392	395, 520 4 567, 341	621, 411 (1)		
Slippers (all kinds)	1919 1914	905, 345 424, 112		4 45, 819 5 424, 112		91, 276 (1)		

4 Includes "Welted" 5 Includes "Turned."

Flour-mill and gristmill products (Table 22).-This table shows the chief products of the industry in Missouri at the censuses of 1919, 1914, and 1909. Of the total value of products for the industry in the state, wheat flour formed 66.4 per cent in 1919 and 66.3 per cent in 1914. Bran and middlings and feed and offal combined formed 23.3 per cent and 25.8 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 193.7 per cent and the quantity increased 32 per cent during the five-year period.

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

	1919	1914	1909
Total value	\$113, 297, 359	\$38, 686, 309	\$44,508,106
Wheat flour:	7, 132, 417	5, 402, 391	5, 672, 269
BarrelsValue	\$75, 273, 509	\$25, 633, 116	\$30, 054, 028
Corn meal and corn flour: Barrels. Value. Hominy and grits:	822, 994	763,678	1,020,738
	\$6, 235, 585	\$2,641,988	\$3,129,694
Pounds	8,073,600	24, 883, 523	26,726,254
	\$236,176	\$373, 432	\$413,234
Tons (2,000 lbs.)	275, 382	219,068	425, 467
	\$12, 901, 429	\$5,071,600	\$9, 711, 059
Tons.	242,320	188,597	()
Value	\$13,495,953	\$4,898,895	
All other cereal products, value	\$5,118,228 \$36,479	\$67,278	\$1,200,091

Printing and publishing (Table 23).—This table shows the number and aggregate circulation per issue of all newspapers and periodicals in Missouri for the census years 1919, 1914, and 1909.

A decrease is shown during the five years 1914 to 1919, both in total number of publications and in their aggregate circulation per issue, due to the discontinuance of certain weekly and semimonthly publications, some of which were printed in the German language.

Notwithstanding the decrease in aggregate circulation for all publications, the circulation of daily newspapers increased 176,387, or 12.3 per cent, and of Sunday newspapers, 74,214, or 6.6 per cent. Of the dailies, 21 were published in the morning, with a circulation of 672,797, an increase of 50,038, or 8 per cent, over the figures for 1914; and 60 with a circulation of 935,809 were published in the afternoon, showing an increase of 126,349, or 15.6 per cent.

In 1919, 40 foreign-language publications with an aggregate circulation of 428,678 per issue were reported in the state, as compared with 54 in 1914 with a circulation of 491,675. This is a decrease of 25.9 per cent in number of publications and of 12.8 per cent in circulation. Of these foreign-language publications, 2 dailies, 3 Sundays, 6 weeklies, 3 semimonthlies, 9 monthlies, and 1 bimonthly were printed in German; 3 weeklies in Italian; 1 semiweekly, 1 weekly, 1 semimonthly, and 1 monthly in Bohemian; and 1 weekly each in Hungarian, Spanish, Polish, and Yiddish. There were 1 weekly and 3 monthly publications in

¹ Not reported separately. ² Includes "McKay." ³ Includes "McKay" and "Stitchdown."

English and German, and 1 weekly in English and Italian.

Table 23.—Printing and Publishing: 1919, 1914, and 1909.

PERIOD OF ISSUE.		MBER (AGGRE	GATE CIRCUL PER ISSUE.	
	1919	1914	1909	1919	1914	1909
Total	895	1,004	1,003	8,564,660	9, 098, 333	7, 577, 639
Daily	81	89	91	1,608,606	1, 432, 219	1,624,621
Sunday	18	23	21	1,205,673	1, 131, 459	978,377
Semiweekly 1	17	12	13	404,235	108, 326	353,481
Weekly	611	721	731	2,258,690	3,542,326	1,871,585
Semimonthly	26	20	13	477,621	704,401	193,248
Monthly	113	110	117	2,258,270	1,755,852	2,265,275
Quarterly	20	23	12	303, 090	414, 245	203, 504
	9	6	5	48, 475	9, 505	87, 548

¹Includes in 1919, 3 triweeklies, and in 1914 and 1909 each, 1 triweekly. ²Includes in 1919, 8, in 1914, 5, and in 1909, 2 bimonthly publications.

Butter (Table 24).—This table presents the quantity and value of butter manufactured in 1919, 1914, and 1909. The products of those establishments engaged primarily in the manufacture of cheese and condensed milk have been excluded from the table in order to avoid the possibility of disclosing the operations of individual establishments. The total quantity of butter increased 19,747,046 pounds, or 121.6 per cent, during the five-year period 1914 to 1919, while the value increased \$15,683,563, or 352.1 per cent. In addition, in 1919, butter valued at \$2,342,870 was manufactured in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.

TABLE 24.—BUTTER: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value	\$22, 147, 691	\$ 5, 167, 343	\$2, 958, 818
Butter: Pounds Value Packed solid—	35, 988, 733	16, 241, 687	10, 261, 876
	\$20, 138, 209	\$4, 454, 646	\$2, 862, 230
PoundsValuePrints or rolls—	18, 950, 331	7, 254, 182	4, 452, 602
	\$10, 241, 087	\$1, 961, 029	\$1, 213, 508
PoundsValue.	17, 038, 402	8, 987, 505	5, 809, 274
	\$9, 897, 122	\$2, 493, 617	\$1, 648, 722
All other products, value	\$2,009,482	\$712,697	\$ 96, 588

Electrical machinery, apparatus, and supplies (Table 25).—This table shows details as to products for the manufacture of electrical machinery, apparatus, and supplies in Missouri during the year 1919.

Table 25.—Electrical Machinery, Apparatus, and Supplies: 1919.

PRODUCT.	Value.
Total	
Motors. Transformers and feeder potential regulators. Puses, cut-outs, and fuse plugs. Household and industrial apparatus and devices. Sockets, receptacles, bases, and attachment plugs. All other electrical machinery, apparatus, and supplies. All other products. Amount received for custom work and repairing.	1,640,786 594,997 123,647 85,097 10,432,603

Laundries (Table 26).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 26, however, summarizes the statistics for such laundries in the state of Missouri for 1919 and 1914.

TABLE 26.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER O	R AMOUNT.	Per cent of in-
	1919	1914	crease, 1 1914- 1919,
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Paid for contract work. Rent and taxes. Cost of materials. Amount received for work done.	6,839 112 780 5,997 8,243 \$7,321,472 4,844,141 934,688 3,909,453 17,624 2251,712	177 6, 757 144 7, 941 5, 899 7, 941 84, 332, 735 3, 334, 921 725, 766 0, 821 176, 821 176, 821 1, 349, 790 6, 316, 206	-6.8 1.2 -22.2 2.2 1.7 3.8 69.0 45.3 28.8 49.8 79.5 42.4 88.5

¹ A minus sign (—) denotes decrease.

Dyeing and cleaning (Table 27).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table.

Statistics for such establishments have not been included in the general tables nor in the totals for manufacturing industries for censuses since 1900. 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 27.—Dyeing and Cleaning: 1919.

·	Number or amount.
Number of establishments Persons engaged Proprietors and firm members Salaried employees. Wage earners (average number) Primary horsepower Capital. Salaries and wages Salaries Wages Paid for contract work Rent and taxes Cost of materials Amount received for work done.	1242 228 1, 062 1, 292 \$1, 281, 853 1, 258, 553 359, 568 899, 688 8, 985

Custom sawmills and custom gristmills (Tables 28 and 29).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914.

Tables 28 and 29, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount received for the work performed, and that for custom gristmills the value of the grain milled.

TABLE 28.—CUSTOM SAWMILLS: 1919 AND 1909.

1 110			
	NUMBER OF	AMOUNT.	Per cent
	1919	1909	of in- crease, 1 1909- 1919.
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Rent and taxes. Cost of materials. Amount received for work done.	388 129 5,648 \$343,578 88,938 88,938 3,206 28,650	419 1, 135 595 4 536 7, 060 \$497, 026 117, 407 634 116, 773 2, 521 13, 568 414, 135	-32. 0 -54. 4 -34. 8 -75. 9 -20. 0 -30. 9 -24. 2 -23. 8 27. 2 111. 2 -32. 8

¹ A minus sign (-) denotes decrease.

TABLE 29.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER O	R AMOUNT.	Per cent
	1919	1909	of in- crease, 1 1909- 1919.
Number of establishments. Persons engaged. Proprietors and firm members. Salarised employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Ront and taxes. Cost of materials 2. Value of products 4.	332 296 1 35 4 126 549 902 25 848 636 25 212 5 182 1 773 773	412 730 547 7, 268 \$800, 960 33, 162 1, 435 31, 727 4, 756 1, 155, 245 1, 401, 474	-39.1 -54.5 -45.9 -80.1 -43.2 -36.1 -22.1 -55.7 -20.5 9.0 -7.2 -9.8

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

GENERAL TABLES.

Table 30 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for selected industries in the state and in Kansas City, St. Joseph, and St. Louis, 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 31 presents, for 1919, for the state as a whole and for Kansas City, St. Joseph, and St. Louis, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having from 10,000 to 50,000 inhabitants.

Table 30.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909.

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earners (aver- age	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	sus	Num- ber of estab-	Wage earners (aver- age	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- uets.
	year.	lish- ments	num- ber).	power.	Expre	ssed in th of dollars	ousands		year.	lish- ments	73 7 7 7 7 7 7	power.	Expres	sed in the	ousands
		′1	THE ST	ATE-A	LL IN	DUSTRI	ES COMI	SINED AND SELECTED	INDU	STRII	es.			····	
All industries	1919 1914 1909	8, 592 8, 386 8, 375	195, 037 152, 182 152, 993	477, 303 391, 385 340, 467	196, 515 89, 197 80, 843	1,056,457 388,715 354,411	1,594,208 637,952 574,111	Cooperage	1919 1914 1909	30 39 43	677 852 1,088	1,565 1,702 2,319	831 431 558	3, 252 1, 162 1, 902	5, 161 1, 888 3, 079
Agricultural implements	1919 1914 1909	14 18 25	254 240 438	656 742 1,080	253 142 219	800 270 504	1,457 570 981	Copper, tin, and sheet-iron products.3	1919 1914 1909	197 195 207	3, 386 2, 506 2, 637	3, 332 2, 394 1, 556	3,388 1,569 1,482	11, 223 4, 769 4, 598	19,697 8,390
Automobiles, including bodies and parts.	1919 1914 1909	86 25 17	3, 240 501 368	3,506 626 184	3,721 389 252	54, 943 1, 207 1, 025	71, 939 2, 183 1, 677	Electrical machinery, apparatus, and supplies.	1919 1914 1909	35 19 20	6,367 2,560 1,060	6, 128 1, 918 1, 180	5, 684 1, 536 627	8, 162 2, 416	7,827 22,008 6,643
Awnings, tents, and sails	1919 1914 1909	23 21 18	771 428 429	273 203 217	591 206 193	3,786 991 1,207	5,824 1,552 1,784	Envelopes	1919 1914	7 7	467 346	612 467	355 169	1, 104 812 443	3,251 1,952 908
Belting, leather	1919 1914	8 5	56 44	133 156	57 34	768 364	1,041 503	Flavoring extracts	1919 1914 1909	12 12 12	150 100 80	187 125 70	80 54 31	1, 114 571 272	1,826 1,009 648
Blacking and cleansing and polishing preparations.	1919 1914 1909	40 37 32	121 81 110	314 319 162	153 40 55	589 321 303	1,183 660 600	Flour-mill and gristmill products.	1919 1914 1909	690 641 680	3, 015 2, 096 2, 198	47, 546 39, 003 43, 175	3, 154 1, 122 1, 040	98, 185 33, 262 38, 826	113, 297 38, 686 44, 508
Boots and shoes, including cut stock and findings.	1919 1914 1909	73 54 59	19,535 14,740 17,396	12,946 9,527 11,113	15,777 6,933 8,164	106, 807 37, 131 34, 540	142, 466 52, 522 48, 751	Food preparations, not elsewhere specified.	1919 1914 1909	87 54 37	1,454 629 471	3, 894 1, 997 1, 551	1,027 305 214	18, 207 6, 147 4, 254	23, 463 7, 794 5, 384
Boxes, paper and other, not elsewhere specified.	1919 1914 1909	41 32 27	2,369 1,092 1,113	1,550 727 657	1, 503 455 372	4, 956 747 669	8,857 1,636 1,376	Foundry and machine- shop products.	1919 1914 1909	812 356 329	14, 317 8, 449 7, 443	28, 105 18, 402 13, 568	17, 617 5, 877 4, 860	30, 095 10, 522 9, 156	71,864 22,271 19,975
Brass and bronze products.	1919 1914 1909	21 18 18	608 383 297	887 523 448	670 264 196	5, 859 2, 438 1, 654	8, 208 3, 047 2, 221	Fur goods	1919 1914 1909	12 7 8	166 106 78	57 57 9	189 47 45	564 93 148	1, 253 231
Bread and other bakery products.	1919 1914 1909	975 1,043 954	6, 156 5, 269 4, 743	6,730 5,000 3,023	6, 093 2, 875 2, 487	26, 356 10, 157 10, 829	43,839 19,940 18,524	Furnishing goods, men's	1919 1914	12 16	374 873	60 122	278 250	1,791 990	314 2,893 1,574
Brick and tile, terra-cotta, and fire-clay products.	1919 1914	65 90	4,469 5,188	15, 132 14, 747	4, 486 2, 771	3,918 1,995	11,456 6,509	Furniture and refrigerators.	1919 1914 1909	93 100 99	3,580 3,346 3,427	7,605 6,546 6,203	3,745 2,043 1,919	9,039 3,533 3,327	17, 682 7, 608 7, 380
Brooms	1919 1914 1909	63 49 50	295 223 184	205 184 126	239 112 89	603 323 411	1,021 666 708	Gas and electric fixtures	1919 1914 1909	6 9 3	251 156 79	240 294 60	326 107 43	927 178 121	1,682 487 188
Butter	1919 1914 1909	66 54 56	686 361 159	2,751 1,556 788	641 202 100	20, 036 4, 367 2, 499	22,148 5,167 2,959	Gas, illuminating and heating.	1919 1914 1909	26 35 20	1,318 1,342 941	8,772 16,351 3,635	1, 539 844 636	2,996 2,143 1,223	11, 113 7, 197 4, 638
Canning and preserving 1	1919 1914 1909	158 153 222	1,256 850 952	2,805 1,012 974	511 142 186	4, 931 740 1, 005	8,377 1,082 1,574	Glass	1919 1914 1909	4 7 4	2,034 2,248 1,755	14, 188 12, 445 8, 820	2;412 1,588 758	2, 560 1, 575	6, 927 3, 882 1, 993
Carriages and wagons and materials,	1919 1914 1909	122 223 243	1,155 2,560 3,302	2,516 4,528 5,858	1,130 1,636 1,781	3,027 3,832 4,860	5,413 6,851 8,469	Hats and caps, other than felt, straw, and wool.	1919 1914 1909	22 13 14	348 212 182	55 26 39	299 133 106	1,111 356 218	1,893 581 440
Cars and general shop con- struction and repairs by electric - railroad com-	1919 1914 1909	8 8 7	1,162 1,168 905	540 812 3,005	1,407 807 620	1,234 834 501	2,719 1,710 1,204	Hats, fur-felt	1919 1914 1909	5 6 4	323 114 32	68 24 4	211 73 15	1,021 202 22	1, 479 321 77
panies. Cars and general shop construction and repairs by steam-railroad com-	1919 1914 1909	45 39 35	13,471 9,721 8,121	14, 904 9, 031 9, 042	18, 530 6, 839 5, 097	12,727 5,372 4,128	33, 021 12, 847 9, 812	Hats, straw	1919 1914	10 5	384 159	49 42	285 81	1,219 348	2, 464 731
panies. Chemicals	1919 1914 1909	22 22 9	1,253 842 619	4,149 1,764 886	1, 162 498 333	7,717 4,164	13,538 6,936	House-furnishing goods, not elsewhere specified.	1919 1914 1909	14 9 5	102 44 34	413 325 167	85 28 17	958 130 102	1,353 223 158
Clothing, men's, including shirts.	1919 1914 1909	131 90 84	9,538 8,140 7,994	3,954 2,560 1,559	6, 670 3, 213 2, 994	2, 224 29, 441 10, 036	3,640 47,543 17,300 15,407	Ice, manufactured	1919 1914 1909	129 117 92	1, 174 1, 059 761	29, 116 26, 787 22, 904	1,426 748 472	2, 108 1, 041 667	6, 505 3, 107 2, 084
Clothing, women's	1919 1914 1909	116 74 68	3,308 2,355	534 602	2,883 1,093	9,071 11,493 3,034 3,180	18,434 5,517	Iron and steel, steel works and rolling mills.	1919 1914 1909	5 3 4	2,647 1,237 2,227	7, 426 7, 062 6, 255	3, 045 954 1, 320	5, 661 1, 887 2, 859	12, 537 3, 363 5, 013
Coffee, roasting and grinding.	1919 1914	40 37	2,750 814 656	2,834 2,760 2,379	1, 137 576 355	23, 059 10, 949	30,070 14,299 12,062	Jewelry	1919 1914 1909	29 28 19	446 461 376	170 225 160	550 366 272	641 400 323	1, 927 1, 088 873
Coffins, burial cases, and undertakers' goods.	1909 1919 1914	16 8	730 608 436	1,196 792	342 618 267	9, 192 1, 784 586	3,253 1,038	Leather goods 5	1919 1914 1909	116 133 106	2, 185 1, 419 1, 814	2,031 1,392 1,269	2, 187 899 1, 037	9,078 3,179 3,794	14,303 5,859 6,508
Confectionery and ice	1909 1919 1914	220 154	3,669 2,854	5,773 3,981	296 2,837 1,183	776 12,928 5,256	1,565 23,498 9,251	Leather, tanned, curried, and finished.	1919 1914 1909	7 10	265 227 220	948 700	296 156	2, 946 2, 042 1, 599	3,770 2,573 2,035

Includes "chewing gum" in 1914.

Includes "chewing gum" in 1914.

Includes "stamped ware, not elsewhere specified" and "tinware, not elsewhere specified."

Includes "stamped ware, not elsewhere specified" and "tinware, not elsewhere specified."

Includes "automobile repairing"; "bells"; "gas machines"; "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"; and "structural browork, not made in steel works or rolling mills" in all years; "pumps, steam and other power" in 1919; "engines, steam, gas, and water" in 1919 and 1914; and "hardware, saddlery" in 1914 and 1904.

Includes "saddlery and harness" and "trunks and valises."

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

			1	,										
Cen- sus year.	lish-	(aver- age num-	Pri- mary horse- power,		rials.	Value of products.	INDUSTRY AND CITY.	sus	ber of estab- lish-	earners (aver- age num-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- uets.
		501):		13AI/IC	of dollar:	s.			incires	ber).	1	Expres	ssed in th of dollars	ousands •
	THE	STATE-	-ALL I	raudn	RIES CO	OMBINE	D AND SELECTED IND	JSTRI	ES—C	ontinue	d.		<u></u> .	
1919 1914 1909	16 19 31	736 531 692	1,936 1,593 1,314	650 277 317	793 409 461	2,090 890 1,031	Poultry, killing and dressing, not done in slaugh- tering and meat-packing	1919 1914	6 10	142 172	312 206	158 96	2, 948 2, 144	3,308 2,387
1919 1914 1909	20 32 31	2, 930 5, 947 5, 646	26, 454 31, 164 30, 436	3,570 4,852 3,908	3,724 7,373 7,568	24, 366 31, 801 27, 447	Printing and publishing 3	1919 1914 1909	1, 310 1, 353 1, 322	11, 465 10, 571 10, 790	14, 135 14, 330 10, 472	11,955 7,391 6,610	23, 177 9, 571 8, 627	61,250 33,173 29,651
1919 1914 1909	706 956 1, 098	10, 089 9, 196 13, 522	39,757 44,098 49,506	8, 480 4, 749 5, 897	16, 018 8, 413 10, 614	34,039 18,397 23,261	Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919 1914	7 6	621 235	2, 168 657	541 128	$2,479 \\ 453$	3,865 726
1919 1914 1909	154 175 169	840 905 1,342	5,185 4,018 4,306	1,018 647 989	1,723 1,281 1,447	3,803 2,716 3,441		1914 1909		230 209	351 100	146 137	259 170	1,177 574 433
1919 1914 1909	28 33 33	348 296 345	769 406 310	377 162 187	1, 401 460 457	2, 407 882 959	elties.	1914 1909	21 14	158 148	27 20	141 126	480 149 162	1,044 703 583
1919 1914 1909	42 33 35	1,809 908 934	180 241 94	1, 133 367 277	4, 147 1, 064 885	7,434 2,163 1,647	packing.4	1914 1909	40 45	5, 200 4, 674	20, 213 15, 660 11, 735	10,453 3,462 2,673	228, 656 84, 684 72, 198	247, 477 92, 060 79, 581
1919 1914 1909	178 195 176	476 556 463	1,098 845 749	399 298 221	1,542 656 420	3,598 1,623 1,292		1914 1909	7 9 10	521 554	1,617 1,358 954	564 279 272	5,668 2,811 3,055	8,556 4,920 4,719
1919 1914 1909	17 9 6	402 179 131	2,371 1,235 992	375 96 68	047 162 108	1,338 366 324	Surgical appliances and	1919 1914 1919	19 15 27	2,462 1,714 200	2,994 3,039	2,977 1,204	0,065 2,338 484	15,340 6,644 1,603
1919 1914	5 4	99 21	309 50	108 15	2, 945 177	4,175 281		1914 1909	. ¹⁷	69 37	43 16	53 24	$\frac{32}{22}$	212 143
1919 1914 1909	8 4 5	$\begin{array}{c} 210 \\ 122 \\ 54 \end{array}$	153 34 29	193 62 30	654 431 76	1,404 736 171		1914 1909	431 477	3, 997 4, 453	1,859 2,034		14, 061 16, 546	47, 752 33, 381 30, 951
1919 1914 1909	37 34 32	991 599 685	4,388 2,775 2,706	1, 287 393 366	11,073 3,750 4,608	16,559 5,792 6,828	fied.	1919 1914 1919	23 19 13	191	522	115	188	1,522 400 1,023
1919 1914 1909	201 212 185	1,786 1,000 980	2,058 867 908	1,280 532 415	8,376 2,926 2,536	21,325 9,010	Washing machines and	1914 1919 1914	16 8 8	52 156	293 372	156	228 628	1, 053 350
1919 1914	49 25	703 652	5, 401 2, 605	673 320	300 147	1,379 671	Wirework, including wire rope and cable, not else-	1919 1914	24 21	1,010 741	1,743 1,609	729 374	4.818	7, 790 3, 484
1914 1909	17 18	224 187	90 80	233 165	61 82	450	where specified. All other industries	1919	560	22, 439	90, 286	24,534	146,501	3, 396 213, 744
1914 1919	5	191 387	350 384	125 239	450 377	1,007 943		1909	945	28, 077	66, 447	14,929	58, 336	83, 059 94, 642
1914	7 7	301 307	332 243	109 107	229 169	436 393								
SOF	50,000	IAHAI	BITANT	SOR	MORE—A	LL IND	USTRIES COMBINED AN	ID SE	LECT	ED IN	DUSTR:	ŒS.		
1919 1914 1909	997 1,052 902	22, 137 16, 252 14, 643	44, 287 35, 706 29, 208	23, 742 10, 504 8, 526	124,310 31,981 30,118	192, 815 60, 953 54, 705	KANSAS CITY—Con. Confectionery and ice cream. ⁵	1919 1914	25 25	340 274	834 758	316 138	1, 224 652	2, 198 1, 460
1919 1914 1909	131 141 107	2,572 1,908 1,375	2,694 1,973 847	2, 466 969 726	8,874	15,763 7,093 5,617	Copper, tin, and sheet- iron products.	1919 1914 1909	29 55 59	627 513 553	344 363 407	754 407 349	2,185 801	3,828 1,611 1,575
1919 1914 1909	4 8 5	213 343 353	805 1,377 480	239 206 161	255 192	680 538	Druggists' preparations	1919 1914	6 5	57 37	32 7	26 24	522 98	747 224
1919 1914 1909	5 4 4	1,632 1,104 662	1,343 1,440 415	2, 125 844 508	1,443 580 315	3,840 1,504 883	Flour-mill and gristmill products.	1919 1914 1909	8 6 8	226 119 209	4,440 1,837 3,210	281 79 93	6,841 3,215 4,102	7,612 3,529 4,507
1919 1914	5 4	44 30	252 165	51 16	151 74	457 172	Food preparations, not elsewhere specified.	1919 1914	21 18	293 183	1,393 622	280 95	4,075 1,194	5,840 1,766
1919 1914 1909	10 10	100 107	463 680 350	179 50 51	4,836 1,225 1,393	6,394 1,648 1,879	Foundry and machine- shop products. ⁷ ill products, not including p	1919 1914 1909	102 80 58	1,940 1,349 645	3,805 2,588 1,223	2,581 965 461	4,491 1,503 775	9,365 3,627 1,826
	1919 1914 1909 1919 1914 1909 1919 1914 1909 1919 191	Cen-ber of lestably year. lish-ments with the	Can- Sus Sus	Con- Sus Sextab Caver- Caver-	Cean Sustrict Cavers C	Canbor of lish-	Cear-bor of such products	Name	Can	Number Wage Care December of clusters State Care December of clusters Dece	Cab	Columber Columber	Can Dear of Street Personal Property Can Dear of Street Personal Property Dear of Julian Dea	Can Dear of Street Property Propert

<sup>| 1909 | 10 | 107 | 350 | 51 | 1,393 | 1,879 || | 1909 | 58 | 045 | 1,223 | 401 | 175 | 1,820 |

&</sup>quot;Includes "boxes, wooden packing, except cigar boxes" and "lumber, planing-mill products, not including planing mills connected with sawmills" in all years; and "lumber of perfumery and cosmetics."

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

Includes "ausage, not made in slaughtering and meat-packing establishments."

Includes "chewing gum" in 1914.

Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines"; "iron and steel, welding"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks"; and "structural ironwork, not made in steel works or rolling mills."

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

Tell Content 1916 1917 1916 1917 1916 1917 1918																
CITIES OF 50,00 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued. **RANSAS CITY—(***)** 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 150 220 457 771 1919 12 157 157 150 220 457 771 1919 12 157 150 220 457 151 144 1919 12 157 157 157 157 157 157 157 157 157 157			ber of	earners (aver-	mary	Wages.	of mate-	of prod-	INDUSTRY AND CITY.	sus	ber of estab-	earners (aver-	mary horse-	Wages.	of mate-	of prod-
Name				num-						year.		num-	power.			
## Pursurer 1915 23 187 563 767 587 787 787 587	CITIES OF	50,00	0 INH	ABITAL	NTS OF	R MORE	-ALL I	NDUSTI	RIES COMBINED AND SI	ELEC	TÉD I	INDUST	RIES-	Continue	ed.	
1914 22 25 303 70 849 1,162 1,162 1,162 1,162 1,162 1,162 1,162 1,162 1,162 1,162 1,162 1,162 1,163 1,162 1,163 1,			12	187				877		1914	2,787	85,058	169,982	51,150	203,806	871,700 360,480 328,495
Lumber and timber productions of the production	House-furnishing goods,	1919	8	82	303	70	849	1,162	Awnings, tents, and sails	1919 1914	12 10	217 219	125 90	205 83	2,497 508	3, 315 755
Mattresses and spring personal	Lumber and timber prod-	1919 1914	20 26	693	2, 117	474	1,485	2,359	and polishing prepara-	1919 1914	29 23	74 59	154 275	123 31	441 268	832 517
Matriceses and spring leeds not elsewhere specified. 1914 1914 171 183 440 133 237 184 231 1919 1919 1919 1919 90 119 82 254 451 1919 1909 90 119 22 37 08 1914 11 14 15 15 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 14 15 1914 11 11 15 1914 11 15 1914 11 15 1914 11 15 1914 11 15 11 15 11 15 11 15 11 15 11	Marble and stone work	1919 1914	13	139	533	119	171	410	Boots and shoes, not in- cluding rubber boots	1919 1914	27 27	9,779 8,729	4,737 5,602	8, 496 4, 453	39,554 22,630	59, 858 31, 049
Mineral and soda waters 1919 9 9 99 1119 82 224 1531 1944 1 45 59 99 38 101 22 37 08 101 1945 1 45 59 104 122 37 08 101 1949 9 38 101 1 22 37 08 101 1949 1 45 59 101 194 1 45 59 101 194 1 45 59 101 194 1 46 1 194 1 46 1 194 1 46 1 194 1 46 1 194 1 46 1 194 1 46 1 194 1 46 1 194 1 46 1 194 1 46 1 194 1 46 1 194 1 194 1 46 1 194 1 46 1 194 1 19	beds, not elsewhere	1914	9	71	86	36	124	251 l	Boxes, paper and other,	1919 1914	33 23	2,016 786	1,314 542	1,302 349	4,551 569	8,011 1,256 960
Printing and publishing, book and job. Printi	Mineral and soda waters	1914	11	45	59	35	254 48 37	167	Brass and bronze products.	1919 1914	16 11	582 349	840 445	237	2,399	8,051 2,937 2,165
Book and Job. 1914 122 1,207 1,188 396 579 3,080 1914				73 48	73		141	536		1914	470	2,673 2,483	2,153	1,422	12,791 4,880	21,048 9,454
Printing and periods 1914 48 5773 3,464 625 1,650 4,918 1909 20 3,822 6,862 1,948 1,252 4,988 1,252 4,988 1,252 4,988 1,252 4,988 1,252 4,988 1,252 4,988 1,252 4,988 1,252 4,988 1,252 1,032 2,744 4,988 1,908	book and job.	1914	122		1,158	896	979	3,080	Brick and tile, terra-cotta,	1919	14	1	5,982	1	1,909	5,950
Str. Joseph. Str. Joseph. 1919 210 5.94 31 3.501 5.578 33.531 50.697 17.008 Boots and shoes. 1919 321 5.578 33.58 343 1, 487 5.008 Boots and shoes. 1919 321 5.578 33.58 343 1, 487 5.70 11.009 5.	newspapers and periodi- cals.	1914	48	7773	3,404	625	1,650	4,918		1909	20		6,862	1,948	1,252	4,881 3,217
All other industries. 1919 391 9,707 20,119 9,715 76,699 107,982 11909 500 9,610 19,784 5,427 17,360 33,651 17,360 33,651 1909 500 9,610 19,784 5,427 17,360 33,651 17,360 1909 10,784 1,265 13,579 25,085 1,377 1,485 1,677 1,677 1,485 1,677 1,677 1,485 1,677 1,677 1,485	Surgical appliances and	1914	8 7	47	27	37	18	140	cluding repairs.	1914	78	1,482	1,251	1,032	2,741	5 357
ST. JOSEPH. 1919 219 5, 943 13, 591 5, 578 33, 351 50, 697 11, 693 110, 697 17, 693 110, 694 110, 697 17, 693 110, 694 110, 694 110, 694 110, 694 110, 697 17, 694 110, 694 11	All other industries	1914	394	6,986	15,671	4.265	13 979	25,058	struction and repairs by steam-railroad compa-	1914 1909	8 5	1,677	1,390 1,485	1,294 879	835 765	2,235 1,742
All industries. 1914 207 4, 914 9, 109 2, 675 10, 907 17, 625 17, 625 1914 53 5, 901 17, 770 2, 184 5, 821 9, 88 1919 1914 3 364 358 343 1, 467 2, 021 1914 3 204 206 161 610 724 1,025 1,025 1910 1909 10 1909 10 10 1	ST. JOSEPH			·		5,578	33, 351	50,697		1914	15	784	1,389	459	3,960	6,471
1914 3 264 266 161 610 724 1,025 1919 102 3,105 481 2,702 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 5,355 1,002 2,947 1,002 2,002		1914	267	4,914	9, 109 7, 737	2,675 2,710	10,607 11,054	17,626	Clothing, men's, including shirts.	1914	54	5.091	1,770	2,184	5,861	10,273 9,687
products. 1914 34 108 121 75 257 415 Coffee, roasting and grinding. 1919 21 500 2,022 341 16,805 21,905 1909 23 570 1,806 208 7,217 9,514 1909 23 570 1,806 208 7,217 9,514 1909 23 257 2,184 10,805 21,905 21,905 23 208 7,217 9,514 10,905 208	Boots and shoes	1914	3 3 5	264	266	161	610	912	Clothing, women's	1914	66	3,105 2,271 2,439	581	1,062	10,871 2,947 2,902	17,416 5,353 4,886
Confectionery and ice cream.2 Cooperage, hogsheads and barrels. Copperage, hogsheads		1914	34	108	121	75	257	415		1914	20	499	1,808	274	9,163	21,957 11,972 9,514
Cooperage, hogsheads and barrels. 1919			8 7				2,740 1,276	5,551 2,184		1919 1914	8	525 413	1,018 755	252	1,472 533	2,763 959
Copper, tin, and sheet-iron work. 1919 5 43 3 63 125 227 1914 12 53 5 39 60 125 1909 12 54 45 76 146		1914	3	22	50	11	32	60	Confectionery and ice	1919	89	2.096	1	1,638	7 435	1,371 13,433 4,668
Flour-mill and gristmill 1919 7 515 4,353 586 15,680 19,107 products. 1919 9 7 94 1,277 44 1,838 1,994 paratus, and supplies. 1919 30 3,477 3,100 2,849 6,263 14,848 paratus, and supplies. 1919 1919 1919 1919 1919 1919 1919 19		1914	12	53		39	60	125	Copper, tin, and sheet-iron	1919 1914	120 95	1,460 1,818	1,223 1,749	1,340 1,043	3,752 3,444	7, 134 5, 946
Foundry and machine, short 1019 25 302 554 368 477 1.225	Flour-mill and gristmili products.	1914	9	130	4,353 1,324 1,277	586 76 44	15,680 2,485 1,838	19, 107 2, 714 1, 994		1919 1914	30 12	3,477 1,420	3,100 1,400	2,849 828	6,263 1,229	14,848 3,275 2,081
1000 15 232 306 198 164 430 1914 8 65 443 45 20 10	Foundry and machine-shop products. [‡]	1914		302 186 233		368 107 128		1,225 326 430	Electroplating	1919 1914	12 8	84 65	164 443	102 45	80 26	252 108 103
Patent medicines and compounds and druggists' 1914 8 18 9 7 38 8 6 3 9 24 Flour-mill and gristmill 1919 8 266 2,105 310 11,512 12,926 preparations.	pounds and druggists'	1914	8	18	9	19 7 3	38	80		1919	8	266	1	310	11,512	12,928 2,964
1909 30 368 278 226 273 1,025 1909 21 382 946 170 3,499 4,455	Printing and publishing	1914	34	416	352	258	250	1,655 1,156 1,025	Food preparations, not elsewhere specified.	1914	23	390	1,083	176	4,268 3,499	15, 239 5, 130 4, 455
1914 13 177 131 120 569 779 shop products \$ 1914 169 5,251 11,257 3,639 6,602 13,785	Saddlery and harness	1914	13	177	131	120	569	1,136 779 819		1914	169	5,251	11,257	3,639	6,602	42,266 13,785 14,591
1014 198 2 395 5 753 1 592 4 921 8 317 1 1914 9 424 35 135 568 902		1914 1909	128 129	2,825 3,409	5,753 5,112	1,522 1,633	4,921 5,972	8,317 9,918		1914 1909	9 7	424 219	35	135 82	568 378	2,541 902 655

¹ 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."

² Excludes "ice cream" in 1914, to avoid disclosure of individual operations.

² Includes "automobile repairing"; "iron and steel, welding"; "structural ironwork, not made in steel works or rolling mills" in all years; and "gas machines and gas and water meters" in 1914 and 1909.

⁴ Includes "trunks and valises" in 1914 and 1909.

⁵ Includes "trunks and findings" in 1914.

⁵ Includes "pottery" in 1914 and 1909.

† Includes "tinware, not elsewhere specified" in all years and "stamped ware, not elsewhere specified" in 1914 and 1909.

† Includes "tinware, not elsewhere specified"; "bells"; "engines, steam, gas, and water"; "hardware"; "fron and steel, tempering and 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," in all years; "gas machines and gas and water meters" and "hardware, saddlery," in 1914 and 1909; and "pumps, steam and other power," in 1919.

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

												,	,	1000-	Con.
INDUSTRY AND CITY.	Con- sus year.		(aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	_ INDUSTRY AND CITY.	Consus	estab	f	s Pri	Wages	Cost of mate- rials.	Value of products.
		ments	ber).	<u> </u>	Expre	essed in the of dollar			year	ment	ber).	power	Expre	essed in tl of dollar	nousands
CITIES	OF 50,00	00 INI	IABITA	ANTS O	R MORI	E-ALL	INDUST	RIES COMBINED AND	SELEC	TED :	INDUS	TRIES-	-Continu	ıed.	
ST. LOUIS-Contd.								ST. LOUIS-Contd.].	Ī		T		T
Furniture	1919 1914 1909	59 56 61	2, 896 2, 646 2, 823	5,913 4,856 5,046	2,949 1,568 1,581	7,302 2,535 2,654	13,958 5,622 5,953	Models and patterns, not including paper patterns	1919 1914 1909	20 16 15	143 77 106	123 75 72	198 51 78	36	15
Gas and electric fixture and lamps and reflectors	1909	5 6 7	327 217 202	334 360 185	369 132 126	981 194 285	1,818 577 547	Patent medicines and com- pounds and druggists' preparations. ³	1919 1914 1909	125 125 99	1,565 900 862	1,782 674 800	1,098 421 364	1	17. 98
Hats and caps, other than felt, straw, and wool.	1909	17 7 · 9	284 139 124	43 16 31	254 90 78	887 254 159	1,484 387 307	Photo-engraving	. 1919 1914 1909	13 12 11	154 158 114	109 60 46	227 145 93	119 41 59	652 363 298
Ice, manufactured	1909	8 7 9	277 319 201	10, 103 8, 700 8, 105	399 272 151	659 418 291	2,588 1,129 731	Pickles, preserves, and sauces.	1919 1914 1909	7 5 9	338 55 191	359 30 161	253 29 75	4,005 315 628	4, 794 432 962
Jewelry	1919 1914 1909	19 13 8	275 248 224	102 111 117	327 195 153	529 236 228	1, 161 655 533	Printing and publishing 4.	1919 1914 1909	393 373 347	5, 874 5, 440 5, 708	7,229 6,740 5,441	6,632 4,054 3,824	11,690 5,184 5,118	33, 135 18, 026 17, 164
Leather goods 1	1919 1914 1909	34 39 32	1,318 817 960	1, 058 524 693	1,379 536 515	4, 994 1, 531 1, 629	8, 387 3, 177 3, 108	Show cases	1919 1914 1909	5 5 5	232 175 121	563 219 239	244 101 80	458 200 115	960 427 285
Liquors, malt	- 1919 1914 1909	7 12 10	2, 574 4, 941 4, 823	21, 187 25, 210 24, 590	3,049 4,107 3,339	3, 076 5, 649 6, 474	20, 591 26, 829 23, 147	Slaughtering and meat packing.	1919 1914 1909	45 23 24	2,880 2,066 1,469	8,253 5,938 5,515	3,689 1,366 900	87, 809 33, 788 24, 055	96, 308 36, 634 26, 601
Lumber and timber prod- ucts,2	1919 1914 1909	70 75 71	3, 309 2, 305 2, 812	11, 161 10, 456 8, 608	3,020 1,341 1,669	6,956 2,610 3,884	12, 739 5, 149 7, 367	Stoves and hot-air fur- naces.	1919 1914 1909	13 11 13	2,011 1,916 1,673	2,372 3,029 1,826	2,382 1,336 1,199	5, 482 2, 719 2, 458	13,570 7,479 5,923
Marble and stone work	1919 1914 1909	35 37 39	244 329 557	1,081 1,155 1,073	357 280 468	552 626 723	1, 269 1, 180 1, 580	Surgical appliances	1919 1914 1909	13 3 4	75 12 18	26 3 4	69 5 12	373 4 7	983 17 44
Mattresses and spring beds, not elsewhere specified.	1919 1914 1909	11 15 14	132 140 179	220 234 120	139 89 106	562 238 201	921 409 462	Wirework, including wire rope and cable, not elsewhere specified.	1919 1914 1909	10 10 9	950 712 683	1,648 1,521 853	674 351 365	4, 604 1, 180 1, 697	7, 438 3, 265 3, 323
Millinery and lace goods, not elsewhere specified.	1919 1914 1909	30 20 18	1,269 618 514	173 223 64	855 267 183	2, 623 792 549	5,070 1,620 1,045	All other industries	1919 1914 1909	723 666 797	31,678 21,385 25,832	05,772 55,032	32, 911 12, 773 14, 036	205, 122 62, 498 76, 250	315,357 109,879 121,554
Mineral and carbonated waters.	1919 1914 1909	39 38 38	174 262 214	328 306 134	168 155 106	753 298 161	1,857 739 561				,		23,000	10,200	121,004
	···	•	CITIE	S OF 10	0,000 TO	50,000 I	NHABII	'ANTS-ALL INDUSTRIE	s com	BINE	D.		!	1	-
Cape Girardeau	1919 1914	50 42	1,427 1,259	4,732 1,989	1,187	5,689 2,356	8,587 3,888	MOBERLY	1919 1914	25 29	570 463	1, 250	431	3, 253	4, 497
COLUMBIA	1919 1914	25 22	379 479	988 1,068	257 206	1,550 502	2,232 1,270	Sedalia	1909	31 66	999	791	538 538	1,523 1,092	2,136 1,984
HANNIBAL	1919 1914 1909	67 66 68	2,800 2,366 2,445	3,646 3,530 3,412	2,894 1,329 1,284	8, 515 3, 795 4, 316	14,027 6,215 6,195	Springfield	1914 1909 1919	69 75	1, 163 903 935 2, 910	3,099 1,778 1,662	1,329 488 461	3,488 1,951 1,216	5,562 2,922 2,333
efferson City	1919 1914 1909	42 50 35	1,713 1,401 651	2,149 1,826 1,166	1,232 603 271	7, 365 4, 743 3, 652	10,188 8,087 5,446	· ·	1914 1909	109	2,009 2,131	6,423 4,646 3,685	2,960 1,243 1,280	12,597 3,766 3,048	18, 813 6, 193 5, 382
OPILIN	1919 1914 1909	139 100 77	1,810 1,156 830		1,581 618 494	9,614 4,120 2,358	14, 220 5, 950 4, 136								

Includes "saddlery and harness" and "trunks and valises."

Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and "lincludes" perfumery and cosmetics."

Includes "boxbinding and blank-book making"; "ongraving, steel and copper plate, including plate printing"; and "lithographing."

Includes "sausage, not made in slaughtering and meat-packing establishments."

Includes "gas and oil stoves" in 1914 and 1909.

				PERS	ONS EN	GAGED	IN THE	INDUSTRY.		WAGI NEARES	E EARNE ST REPRI	RS DEC	C. 15, TIVE	OR DAY.	
	ents.			Sala-	Clerks	, etc.		Wage carne	ers.		16 and	over.	Und	er 16.	
INDUSTRY AND CITY.	Number of establishmo	Total.	and firm mem- bers.	ried offi- cers, super- in- tend-	g Male.	Fe- male.	Average num- ber.	Number, 1. Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	Capital,

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES

,	TI	IE ST	ATE—A	LL IN	DUST	RIES	ЮМВ	INED A	ND S	SPECIF	IED I	NDUS	TRIES.					
1	All industries	8, 592	244, 939	7, 676	11,531	20,722	9, 973	195, 037	Oc	209, 704	Mh 1	82, 239	(8)	(3)	(3)	(3)	(3)	Dollars.
2 3 4 5 6 7 8 9	Agricultural implements. Artificial limbs Artificial stone products	14 10 61	315 142 254 1,771 2,383 2,014 983 2,100	8 6 72 65 523 12 5	18 13 10 108 113 95 61 47	22 3 9 178 333 54 88 175	13 22 2 45 72 59 51 121	254 98 161 1,375 1,865 1,283 771 1,752	Je Oc Se De De Se Jy No	346 103 211 1,576 2,012 1,344 892 1,935	De My Fe Ja Ja Ja Fe Mh	199 92 77 1,137 1,663 1,173 520 1,510	257 99 225 1,618 1,984 1,350 894 1,882	256 97 222 1,583 1,922 1,338 254 588	2 1 27 62 8 629 1,256	1 2 2 2 4 3 4	6 8 34	938, 760, 773 1, 893, 814 365, 221 474, 028 3, 151, 817 9, 594, 433 3, 202, 785 3, 203, 914 16, 511, 917
11 12 13 14 15	Automobile bodies and parts. Automobiles Automobiles Automobile repairing. Awnings, tents, and sails Bags, other than paper, not including bags made in textile mills. Belting, leather. Blacking, stains, and dressings. Bookbinding and blank-book making Boot and shoe cut stock. Boot and shoe findings. Boots and shoes, not including rubber boots and shoes. Boxes, paper and other, not elsewhere specified.	8 14 39 7 12 54 41	123 74 1,243 1,898 641 20,611	15 38 3 10 2	16 6 58 84 30 472	33 8 90 48 84 1,851	16 7 80 170 33 828	56 38 977 1,593 484 17,458	Oc De De No De De	4 67 48 1, 238 1, 850 620 18, 467	Fe Ja 4 My Ja Fe Fe	45 17 753 1,303 398 16,290	61 48 1,286 1,727 620 18,504	61 22 532 1,248 425 10,427	24 722 463 162 7,854	1 17 13 24 119	1 15 3 9 104	762, 247 138, 233 2, 389, 189 12, 582, 161 3, 039, 643 53, 836, 904
17 18 19 20	where specified. Shipping containers. Set-up paper boxes. All other. Boxes, wooden packing, except cigar		1,023 1,266 423 2,011	4 7 14	48 56 28 102	57 24 37 43	41 25 16 25	873 1,154 342 1,827	De No De Ja	968 1,285 375 1,971	Ap Ja Ap Je	790 1,017 336 1,717	962 1,215 375 1,834	988 567 274 147 1,593	376 898 223 209	7 3 1 30	56 12 40 4 2	4, 264, 708 2, 109, 835 1, 132, 160 1, 022, 713 4, 563, 985
21 22 23	Brass and bronze products. Bread and other bakery products. Brick and tile, terra-cotta, and fire- clay products.	21 975 65	722 8,432 5,017	1,057 29	40 209 186	$^{46}_{662} \\^{248}$	7 348 85	608 6,156 4,469	De De	696 6,839	My Ja	555 5,700	688 6,888 4,947	668 4, 200 4, 934	13 2,588 9	6 35 4	1 65	2, 395, 835 17, 894, 471 19, 777, 479
24 25 26 27 28 29 30 31 32 33	clay products. Building brick Fire brick Sewer pipe and draintile. Terra-cotta products All other. Brooms Brushes. Butter Buttons Canning and preserving, fruits and vegetables.	34 14 8 5 4 63 10 66 9	1,328 1,726 858 327 778 422 56 974 265 1,178	19 1 7 1 1 65 8 57 5	44 77 22 17 26 22 8 103 14 58	24 93 42 14 75 28 3 24	9 26 16 3 31 12 2 104 3	1, 232 1, 529 771 292 645 295 35 686 235 910	Oc Oc No Oc De Ap Ja Se	1,639 1,607 858 374 850 336 4 45 862 317 3,765	Ja Jy 4 Ja Fe Mh 4 My No Ja My Ja	607 1,452 582 170 521 264 23 506 179 10	1, 323 1, 620 824 373 807 363 26 666 309 3, 751	1, 322 1, 617 824 364 807 326 24 495 274 1, 111	9 36 1 169 34 2 409	1 3 1 1 1	1	5, 732, 505 5, 971, 303 2, 506, 634 722, 347 4, 784, 690 384, 786 86, 281 3, 392, 826 309, 397 1, 001, 979
34 35 36	Carpets, rag. Carriage and wagon materials. Carriages and wagons, including repairs.	8 9 113	46 305 1,117	10 4 137	2 18 44	9 39	1 4 12	33 270 885	Je 4 Fe	39 279	Ja. 4 Jy	23 256	35 283 913	29 280 906	6 3 5			36, 640 766, 965 3, 431, 037
37 38 39	Carriages and wagons. Repair work only Cars and general shop construction and repairs by electric-railroad	66 47 8	937 180 1,208	74 63	44 16	38 1 16	12 14	769 116 1,162	No No Oc	822 126 1,228	Fe Fe Ap 4	725 109 1,117	787 126 1,211	780 126 1,206	5 5	2		3, 216, 059 214, 078 2, 181, 551
40	Cars and general shop construction and repairs by steam-railroad com-	45	14,321		460	309	81	13, 471	No	14, 294	Ap :	12,942	14, 209	14, 133	65	11		17, 585, 442
41 42 43	Cars, steam-railroad, not including operations of railroad companies. Cement. Charcoal, not including production in the lumber and wood distillation industries.	8 5 7	4,869 2,270 31	7	210 59 5	263 243	89 180 1	4,307 1,788 18	Mh Oc Fe	4,770 1,918 26	No De Je	2,790 1,638 6	4,597 1,638 20	4,570 1,585 20	27 50	1	2	23, 686, 768 12, 779, 048 60, 497
44 45 46 47 48 49 55 55 55 55 57 58 59 60	Chemicals Cleansing and polishing preparations Cleansing preparations Metal polish All other polishing preparations Clothing, men's Regular factory products Men's, youths', and boys' All other Contract work Men's and youths' Boys' All other Clothing, women's Suits, skirts, and cloaks Shirt waists and dresses, except house dresses, Undergarments and petticoats	22 26 15 3 8 112 76 36 40 24 5 7 116 51 27	1,826 76 3 77 7,928 7,476 4,009 452 250 88 114 4,138 1,738 835	5 9 4 1 1 4 64 64 25 20 5 39 29 8 8 2 2 8 8 40 18	7 206 107 46	255 25 10 15 564 384 180 313 146 80	201 14 9 235 233 127 106 2 1 133 66 23	1, 253 83 38 1 44 6, 823 6, 420 2, 785 3, 635 403 219 80 104 3, 308 1, 379 668	De De So 4 De Su 4 Se	1,280 57 1 49 3,142 4,253 234 93 320 1,553 737	De (6) Ja Ap Ap Oc De 4 Ja 4 Ja Ja	2, 342 3, 150 188 66 6 1, 145 559	1, 245 83 37 1 45 8, 057 7, 408 3, 164 4, 244 95 320 3, 509 1, 474 682	71	296 2,846 1,029 604	3	2 1 47 47 47 23 24 28	9, 309, 265 401, 103 183, 028 6, 082 212, 293 19, 179, 237 19, 051, 290 10, 621, 301 8, 420, 759 127, 947 30, 438 18, 831 78, 678, 757 3, 435, 361 1, 212, 558
61 62 63 64 65	Wrappers and house dresses. Wrappers and house dresses. All other. Coffee, roasting and grinding. Coffins, burial cases, and undertakers' goods. Confectionery and ice cream	13 15 40 16	545 281 1,598 774	7 10 13 16 3	18 24 11 115 53	35 36 16 509 88	24 16 4 144 22	565 459 237 814 608	$\begin{array}{c} De \\ De \\ Ap \\ De \\ Fe \end{array}$	593 513 249 855 668	Ja Fe Je Fe My	539 416 186 779 569	595 513 245 850 594	47 47 22 476 464	532 461 220 359 129	1 1 3 1	15 4 3 12	1, 079, 206 717, 268 334, 304 10, 629, 986 2, 451, 145
66 67	Confectionery and ice cream Confectionery	$ \begin{array}{c c} 220 \\ 126 \\ 94 \end{array} $	4,655 3,735 920	260 156 104	187 115 72	401 347 54	138 101 37	3,669 3,016 653	No Jy	3,662 857	Jy Ja	2,614 516	4, 119 3, 525 594	1,850 1,302 548	2,238 2,194 44	7 5 2	$\frac{24}{24}$	12, 265, 529 8, 968, 589 3, 296, 940

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-helt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919.

			EXPI	enses.									POWE	R.		
Sal	aries and v	vages.		Rent a	id taxes.	For mat	erials.				Prin	nary h	orsepo	wer.		Elec-
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus-	377	Rent-ed.2	tric horse- power gener- ated in estab- lish- ments report- ing.

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

		· · · · · · · · · · · · · · · · · · ·	Γ.	T						ED IND						
Dollars. 36,636,703	Dollars. 42,407,947	Dollars. 196, 515, 353	Dollars. 4,338 793	5,575,016	56,875,231	Dollars. 1,029,812,810	Dollars. 26,644,354	Dollars, 1,594,208,338	Dollars. 537, 751, 174	477, 303	244, 096	25, 561 22,	049 3, 386	182, 211	106,016	1
42, 844 41, 667 123, 392 305, 139 205, 794 161, 907 221, 222 329, 251	41, 248 69, 016 13, 353 186, 635 480, 445 88, 622 131, 475 388, 398	252, 540 128, 716 159, 301 1, 417, 607 2, 303, 753 1, 587, 597 590, 581 1, 202, 580	7,670 52,312 1,000	. 10,176 3,182 86,282 26,368 202,309 60,018 . 55,480	24, 751 5, 354 190, 398 2, 500, 153 20, 131 164, 984	774, 376 77, 698 240, 525 4, 767, 061 50, 052, 993 1, 988, 887 3, 760, 737 32, 061, 417	25, 887 2, 336 4, 468 52, 147 71, 253 88, 563 18, 974 58, 030	1,456,774 543,223 594,621 9,314,846 62,624,650 5,212,137 5,821,070 38,020,623	656, 511 463, 189 319, 628 4, 495, 638 12, 500, 404 3, 131, 687 2, 038, 359 5, 301, 176	656 77 233 2,036 1,470 1,976 273 1,126	280 119 493 500 14 635		61 17 40 98	315 60 114 1,503 970 1,364 273 491	554 9	. 2 . 3 . 4 . 5
66, 160 12, 830 150, 998 195, 907 60, 822 1, 353, 831	53, 223 9, 907 234, 764 193, 196 169, 279 4, 694, 690	56, 796 27, 974 822, 656 1, 565, 344 424, 488 13, 786, 880	3,441	6,497 4,156 42,110 11,940 7,192 42,157	109,676 196,776	763,822 149,111 1,310,074 26,181,553 3,391,344 75,466,748	4,669 1,500 21,190 294,230 14,161 1,459,069	1,040,506 328,810 3,194,651 28,690,415 4,575,910 109,193,423	272,015 178,199 1,863,387 2,220,632 1,170,405 32,267,606	133 87 518 1,309 416 11,221	60 310 6,765		2	133 25 518 999 416 4,450	162	. 10 . 11 . 12 . 13 . 14 . 15
511,615	283,060	1,502,606	737	98,339	224, 140	4,744,582	211,587	8, 857, 121	3,900,952	1,550	145		20	1,385	66	16
211,480 203,336 96,799 396,096	159, 959 68, 420 54, 681 104, 920	681, 880 581, 669 239, 057 1, 540, 851	737	24,730 33,789 39,820 50,417	110, 831 74, 841 32, 477 322, 108	2,606,962 1,036,430 1,101,190 4,118,714	33,290 163,543 14,754 57,422	4,319,874 2,587,151 1,950,096 7,311,774	1,679,622 1,387,178 834,152 3,135,638	701 442 407 5,882	145 3,249		20	556 422 407 2,628	56 10 567	17 18 19 20
177, 515 537, 920 579, 731	121, 823 1, 340, 789 440, 051	669, 995 6, 093, 327 4, 485, 883	4, 813 2, 958 1, 125	9,335 353,883 12,470	248,859 1,537,115 269,320	5,752,356 25,621,665 2,211,031	106,548 734,731 1,707,005	8, 208, 474 43, 839, 428 11, 455, 779	2,349,570 17,483,032 7,537,743	887	2,309 12,027		4	883 4, 119 2, 895	2, 312 2, 288	21 22 23
108, 326 231, 278 100, 341 36, 643 103, 143 32, 512 12, 600 234, 291 20, 370 59, 871	47, 970 133, 625 81, 700 24, 733 152, 023 32, 743 5, 512 253, 997 4, 346 6, 466	1, 196, 509 1, 373, 499 797, 983 316, 660 801, 172 238, 908 28, 714 640, 842 175, 833 254, 610	1,125	0, 611 3, 960 1, 534 365 9, 264 3, 842 45, 388 2, 125 4, 684	03,036 94,562 38,742 9,800 63,180 4,595 1,144 131,888 2,841 5,474	633, 014 752, 522 355, 026 90, 280 380, 189 595, 872 67, 440 19, 913, 865 154, 896 887, 439	482, 167 589, 748 400, 913 77, 627 156, 550 6, 669 1, 028 121, 830 7, 954 23, 599	2,774,540 3,695,717 2,163,375 686,913 2,135,231 1,020,572 141,649 22,147,691 395,263 1,559,034	1, 659, 359 2, 353, 447 1, 407, 436 519, 006 1, 508, 495 418, 031 73, 181 2, 111, 996 232, 413 647, 996	5,660 4,404 2,171 765 2,132 205 30 2,751 287 2,355	1 100	22 9	4	975 906 201 180 633 151 30 1,934 42 40	374 610 70 50 1,184	24 25 26 27 28 29 30 31 32
4,800 44,170 175,930	856 11,318 67,669	34, 276 199, 535 930, 946	165 213 9,545	3, 460 7, 284 33, 423	479 24,798 87,217	24, 937 554, 890 2, 423, 345	4,000 8,322 40,560	94,504 967,272 4,445,838	65, 567 404, 060 1, 981, 933	75 988 1,528	45	2	5	30 423 821	416	33 34 35 36
175, 930 40, 680	67, 413 256 36, 063	758, 411 172, 535 1, 407, 212	8, 098 1, 447	23, 606 9, 817 870	84,518 2,699 300	2, 302, 949 120, 396 1, 203, 459	31, 739 8, 821 30, 437	4,041,311 404,527 2,719,021	1,706,623 275,310 1,485,125	1, 310 218 540	514	14 5		654 167 540	416 1,511	37 38 30
1, 235, 125	461,744	18, 529, 988	1, 615	5, 240	71,879	11, 950, 929	776, 136	33,020,800	20, 293, 735	14, 904	6,917 2	450 2	5	5, 512	7,090	40
533,166	574,669	6,279,847		46,547	4,550,282	31,237,360	551,369	46,854,055	15,065,326	12,807	5,980 2	,705		4,122	12,267	1.41
211,720 7,162	418, 377 408	2, 310, 336 9, 930	240	80	182, 261 198	3, 481, 732 9, 288	2, 088, 420	11,738,161 31,055	6, 168, 009 21, 767	35, 170	·	, 215		31,365	1,255	41 42 43
386, 977 64, 882 37, 202 1, 200 26, 480 1, 103, 623 1, 1097, 123 720, 955 376, 168 6, 500 3, 900	559, 820 58, 150 25, 086 33, 064 , 340, 602 , 339, 299 921, 988 417, 311 1, 303 1, 200	1,162,182 124,849 31,890 1,498 91,461 4,830,589 4,501,884 2,216,663 2,285,221 328,705 201,474 75,238	816 36 780 407, 982 399, 971 245, 268 154, 703 8, 011 8, 011	49, 162 12, 184 6, 918 894 4, 372 211, 041 199, 096 121, 961 77, 135 11, 945 8, 221 2, 284	1, 093, 445 11, 392 6, 130 154 5, 108 1, 258, 735 1, 257, 962 679, 446 578, 516 773 159	7, 429, 292 429, 034 306, 052 8, 357 114, 025 22, 054, 851 22, 021, 863 8, 755, 162 13, 266, 701 32, 988 8, 764	287, 533 9, 187 3, 722 100 5, 365 121, 172 115, 085 42, 193 72, 842 0, 137 2, 691 2, 001	13, 537, 929 853, 880 540, 441 18, 210 295, 229 35, 838, 747 35, 330, 483 15, 365, 083 10, 971, 400 502, 264 209, 854	5, 821, 104 415, 659 230, 667 9, 753 175, 239 13, 662, 724 13, 199, 585 6, 567, 728 6, 631, 857 463, 139 288, 309	4, 149 227 125 7 95 2, 725 2, 609 853 1, 756 116 38	75 . 846 . 846 . 350 .	22 7 11 60 60	7	2,382 120 108 7 5 1,819 1,703 503 1,200 116 38	1,020 1 1 1 292 292 100 192	44 45 46 47 48 49 50 51 52 53 54
2,600 787,733 423,026 146,387	103 604, 964 203, 662 163, 375	51, 993 2,883,476 1,492,407 532,251	20, 594 8, 166	1, 440 157, 291 75, 549 29, 914	589 157, 480 59, 963 13, 303	23,724 11,447,402 5,561,852 2,043,800	1,445 46,084 20,345 8,894	97, 038 105, 372 18, 433, 548 8, 884, 878 3, 462, 059	94, 537 80, 203 6, 940, 062 3, 302, 681 1, 409, 365	15 63 534 196 85				15 63 534 196		55 56 57 58 59
100,001	81,048 69,288 27,591 ,033,918 230,182	386, 934 309, 843 162, 041 575, 764 617, 759	11, 207 1, 221 1, 456	22, 181 18, 500 11, 147 101, 654 38, 298	44,694 25,338 14,182 476,452 102,298	1,963,665 1,314,049 564,036 22,954,992 1,766,054	6,419 5,159 5,267 103,633 18,064	2,959,610 2,156,926 970,075 30,070,206 3,253,190	989, 526 837, 718 400, 772 7, 011, 581 1, 469, 072	103, 84 66 2,834 1,196	50 710	18		103 84 66 2,784	• • • • • • • • • • • • • • • • • • • •	60 61 62 63
542,586 378,764 163,822		2,837,406 2,070,418 766,988	15,894	_	.608,464	12, 633, 637 9, 177, 636 3, 456, 001	294,381 156,147 138,234		10, 569, 535 8, 246, 580 2, 322, 955	li li	2,675 1,665	113	s	2,985 1,354 1,631	118 1,273 1,018 255	64 65 66 67

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

⁵ Same number reported throughout the year.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERSC	ns end	AGED	IN THE	INDUSTRY,		WAGE	EARNE T REPRE	RS DEC	. 15, TIVE	OR DAY,	
				Sala-	Clerks	, etc.		Wage earne	ors.		16 and	over.	Und	er 16.	
INDUSTRY AND CITY.	Num- ber of estab- lish- ments	Total.	Pro- prie- tors and firm mem- bers.	ried offi- cers, super- in- tend-	Male.	Fe- male.	Average num- ber.	Number, 1: Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	Capital,

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

5 El	operage pper, tin, and sheet-iron work ntal goods "uggists' preparations ectrical machinery, apparatus, and supplies ectroplating gines, steam, gas, and water graving and diesinking graving, steel and copper plate, ncluding plate printing agraving, wood velopes kylosives nov articles, not elsewhere specified avoring extracts our-mill and gristmill products nod preparations, not elsewhere specified.	30 180 8 36 35 15 10 5	775 1,636 64 977 7,891 125 1,042	23 183 7 24 3	46 101 8 102 331	18 96 6 133	11 48 6	677 1, 208	Oc Oc	755 1, 408	My Ja	632 962	754 1,354	715	12	27		Dollars. 2,005,727
6 El 7 Er 8 Er 9 Er 10 Er 11 Er	ectroplating. Igines, steam, gas, and water Igraving and diesinking. Igraving, steel and copper plate, Including plate printing. Igraving, wood Ivelopes.	15 10 5 15		15	l l	693	72 497	37 646 6,367	Oc 4 De	37 666 7,694	(⁸) Jy Fo	37 618 5,357	7, 507	1,337 32 370 5,335	5 5 287 2,091	12 3 33	1 48	4, 167,692 88,841 3, 253, 439 21, 323,709
10 Er 11 Er	ngraving, wood		9 206	2 6 12	11 107 18	2 85 2 2	1 66 9	96 782 1 165	De No (8) De	117 913 1 211	Ja Mh (⁸) Ja	75 671 1 146	116 937 1 208	111 937 1 92	 110	3	4	123,032 4,419,235 6,375 188,538
13 Fa 14 Fl: 15 Fl: 16 Fc	avoring extracts. our-mill and gristmill products. our preparations, not elsewhere	7 5 6 12 690 87	22 568 998 29 267 4,693 2,191	10 5 2 754 67	39 94 3 31 420 132	21 228 3 59 336 336 330	41 110 1 25 168 208	12 467 506 17 150 3,015 1,454	(3) De Ja Oc 1 Jy Se	12 501 645 20 183 3,583	(8) Fe My Ja Mh Je	12 440 497 12 119 2,722	12 500 553 20 165 3,190 1,788	204 553 3 64 3,079 875	283 17 101 109 898	1 2 2 9	• • • • • •	12,474 1,295,284 10,560,597 28,978 807,852 46,750,101 6,910,010
17	Breadstuffs, cereals and break-	5	36	2	7	7	2	18	De	37	Ју4	9	37	18	17	2		94,876
18	fast foods. Macaroni, vermicelli, and noodles.	8	320	3	25	21	10	261	Dв	294	Au	242	289	225	56	6	2	1,297,847
19	Sweetening sirups, other than cane.	15	141	22	7	8	5	99	Fe	141	Ју	72	118	83	35			614,290
26	All other for human consumption For animals and fowls. bundry and machine-shop products. Boiler shops. Foundries. Machine shops. Machine shop and foundry	46 13 301 17 28 241 15	967 727 11,848 686 2,045 8,074 1,043	33 7 194 7 5 177 5	52 41 658 42 98 463 55	85 209 1,061 40 65 831 125	38 153 405 21 19 327 38	759 317 9,530 576 1,858 6,276 820	My Ja Ja De No Ja	1, 120 337 649 2, 145 7, 647 1, 005	Se Se My Mh Ja My	381 303 530 1,673 5,235 579	1,028 316 10,922 608 2,174 7,240 900	259 290 10,738 608 2,153 7,088 889	764 26 146 9 131	26 12 9 5	12 12	2,304,972 2,598,025 39,919,703 2,081,156 5,098,900 27,183,820 5,555,827
30	ormoined. prodes urnishing goods, men's urniture Wood, other than rattan and willow.	12 12 86 47	222 503 4,064 1,913	8 6 42 18	13 25 244 115	7 70 289 79	28 28 116 37	166 374 3,373 1,664	Oc 4 No De	208 475 1,776	Mh My Ja	114 310 1,555	194 464 3,607 1,777	62 50 3,304 1,623	130 397 280 146	1 6 18	1 11 5	662,742 1,313,274 10,116,269 4,042,363
35 G1 36 G1	Metal. Store and office fixtures. as and electric fixtures. as, illuminating and heating. lass. lass, cutting, staining, and orna- menting.	7 32 6 26 4 17	905 1,246 354 1,866 2,136 167	2 22 3 1 13	47 82 34 106 50 17	71 139 37 185 24 6	38 41 29 256 28 5	747 962 251 1,318 2,034 126	No De De Ja Mh No	1,002 298 1,419 2,299 138	Fe Ja Mh Je Au Jy	640 882 210 1,265 1,663 102	1,008 298 1,307 2,574 136	789 892 263 1,302 2,306 126	31 103 31 5 268 9	8 4	5	2,879,875 3,194,031 929,511 51,942,192 7,884,372 250,598
-37 + G1	loves and mittons sloth not includ	4	373	15	7-	4	6	341	De	423	Ap	256	349	40	290	2	17	596,359
38 Gr	ing gloves made in textile mills. rease and tallow, not including lubricating greases.	7	90	7	5	2	1	75	Ja	87	Oc 4	66	69	69				244,145
39 Ha 40 Ha 41 Ha 42 Ha	lubricating greases. air work. and stamps ardware. ats and caps, other than felt, straw, and wool. ats fur-felt	3 8 9 22	16 89 379 525	4 4 4 25	12 26 42	1 9 7 67	5 3 43	11 59 339 348	(3) (3) No No	11 59 404 417	(8) (8) Fe Fe	11 59 241 304	11 60 403 416	54 391 140	9 1 12 272	1 5 1	3	31,616 112,872 1,055,161 878,990
41 H 45 H	ats, straw. ouse-furnishing goods, not else-	5 10 14	395 656 153	3 5 12	20 27 13	40 213 19	9 27 7	323 384 102	No De De	382 432 117	My Jy 4 My 4	280 328 87	366 432 126	113 157 88	248 273 29	4 5	1 2 4	746,678 1,017,585 825,128
47 In:	struments, professional and scien-	129 7	1,554 511	85 2	174 52	70 51	51 15	1,174 391	Au De	1,642 397	Ja Mh	762 386	1,351 397	1,326 339	24 56			13,914,580 1,225,666
48 Ir	tific. on and steel, steel works and roll-	5	2,922	 	130	94	51	2,647	Fe	3,253	No	2,176	2,484	2,374	91	17	2	15,113,018
49 Ire	ing mills. on and steel, tempering and welding.	15	94	12	13	11	4	54	Ap (57	Jy 4	52	52	51		1		126,147
50 Je 51 La 52 Le	welry abels and tags eather goods, not elsewhere speci- fied	29 7 8	586 188 126	27 5 4	34 13 13	34 22 11	45 12 5	446 136 93	De De No	476 147 104	Mh Mh My	430 123 80	478 147 101	401 62 51	63 71 47	12 4 2	2 10 1	832, 608 309, 087 209, 995
53 L	eather, tanned, curried, and	7	331	2	17	41	6	265	De	303	Ja	235	303	300	3	[4, 498, 610
54 Li 55 Li 56 Li 57 Lo 58 Li 59 Li	me quors, mall. thographing. poking-glass and picture frames. umber and timber products. umber, planing-mill products, not including planing mills connected with sawmills.	557 111	809 3,584 384 33 6,363 3,435	6 2 9 7 725 73	35 133 28 6 191 188	20 478 65 133 206	12 41 20 4 31 73	736 2,930 262 16 5,283 2,895	Oc Au De Mh De No	6.862	Ja No Ja De 4 Ja Ja	610 2,332 241 15 4,119 2,512	760 3, 199 257 16 7, 715 3, 114	759 3, 132 198 15 7, 638 2, 972	1 67 50 1 51 86	6 24 51	3 2 5	3,073,677 44,807,010 940,976 96,450 9,737,292 10,529,103

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.

			EXPE	NSES.								1	OWER			
Sal	aries and v	vages.		Rent aı	id taxes.	For mat	erials.				Prin	nary h	orsepo	ver.		Elec-
Officials.	Clerks,	Wage earners.	For contract work.	Rent of factory.	Taxes, Foderal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	ginac	Steam tur- bines.	Inter- nal- com-	Wa- ter pow- er.1	Rent- ed.2	tric horse- power gener- ated in estab- lish- ments report- ing.

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued

	•		THE ST	ATE-Al	LL INDU	STRIES CO	MBINED	AND SPECI	FIED IND	USTRIE	S-Cont	tinued.					
Dollars. 199, 972 388, 063 28, 934 226, 134 1, 191, 116	Dollars. 47, 113 167, 162 14, 118 319, 692 1,258, 784	Dollars. 831, 200 1,475, 600 46, 725 332, 861 5, 683, 802	Dollars. 2, 242 3, 060 212 4, 471	Dollars. 12,898 78,180 5,205 21,572 105,832	Dollars. 191, 110 103, 410 1, 719 99, 176 1, 022, 828	Dollars. 3,228,605 4,510,601 276,075 2,565,586 7,964,570	Dollars. 23,648 41,292 1,254 24,000 197,683	Dollars. 5, 160, 537 8, 145, 676 450, 058 4, 831, 651 22, 007, 658	Dollars. 1,908, 284 3,593, 783 172, 729 2,242,065 13,845,405	1,565 1,137 37 1,060 6,128	1,200 50 901 350	1,000	22 176	2	343 911 37 149 4,778	345 2,410	1 2 3 4 5
27,683 338,265 42,751	2,796 130,536 524 9,841	122,615 947,143 1,128 141,576	35, 029 2, 100	8,880 6,369 91,356 11,180	918 311,059 164 1,480	77,351 1,457,737 824 118,398	8,641 43,165 85 2,029	296, 328 4, 160, 336 17, 703 405, 082	210, 336 2, 665, 434 16, 794 284, 655	197 1,934 5 70	150		1,524	• · · · · · · · · · · · · · · · · · · ·	197 260 5 70	2,225	6 7 8 9
137, 736 444, 070 3, 350 75, 808 1, 149, 853 539, 089	134, 568 599, 135 4, 120 218, 986 647, 838 484, 131	15, 684 855, 385 648, 469 10, 927 79, 567 3, 153, 880 1, 027, 403	25, 049 25, 049 710 8, 615 5, 745	2,090 35,798 1,970 12,838 33,305 94,854	70 43,367 281,132 186 59,811 692,342 470,007	3, 424 799, 639 3, 307, 574 33, 493 1, 108, 903 97, 131, 800 18, 063, 251	271 12,783 177,810 219 4,994 1,052,924 144,015	44, 050 1, 952, 440 7, 172, 424 05, 349 1, 825, 614 113, 297, 359 23, 463, 308	40, 355 1, 140, 018 3, 687, 040 31, 637 711, 717 15, 112, 635 5, 256, 132	8 612 1,969 6 187 47,546 3,894	245 936 25, 646 1, 829	733	6, 321 58	2,623	8 367 300 6 187 12,706 2,007	150 1,158 535 350	10 11 12 13 14 15
5,681	4, 576	13, 806		1, 179	419	64, 763	1,058	148, 051	82, 230	114					114	 	17
71, 190	45, 319	199, 296		28, 541	10, 100	1, 542, 970	27, 483	2, 100, 041	529, 588	7 71	375		25	ļ	371	240	18
73,995	28, 968	70, 059	25		43,011	1, 409, 013	8, 215	2, 186, 956	769, 728	110	57	ļ	30	ļ	23	32	19
204, 564 183, 659 2, 347, 460 166, 993 413, 162 1, 623, 571 143, 734	111, 660 293, 608 2, 064, 752 106, 752 102, 756 1, 660, 852 194, 392	434, 388 309, 854 11, 789, 405 644, 629 2, 515, 550 7, 648, 394 980, 832	5, 720 23, 780 500 11, 655 11, 625	41, 623 23, 511 241, 805 24, 113 26, 278 178, 538 12, 876	173, 237 243, 240 2, 162, 877 380, 687 494, 464 1, 202, 051 85, 675	2, 095, 592 12, 050, 913 19, 017, 023 1, 330, 298 3, 344, 641 12, 802, 500 1, 539, 584	58, 448 48, 811 965, 059 37, 728 421, 271 377, 396 128, 664	4, 994, 392 14, 033, 958 49, 470, 074 3, 206, 699 8, 367, 216 33, 926, 663 3, 970, 396	1, 940, 352 1, 934, 234 29, 488, 892 1, 838, 673 4, 601, 304 20, 746, 767 2, 302, 148	767 2, 132 17, 951 1, 386 2, 947 9, 650 3, 968	1, 153 4, 385 190 652 3, 213 330	1, 650 1, 650	588 34 391 163		520 979 11, 328 1, 196 2, 261 6, 046 1, 825	78 4,003 271 3,732	20 21 22 23 24 25 26
84, 149 121, 845 720, 833 312, 798	40, 609 470, 150 553, 385 171, 961	189, 224 277, 844 3, 471, 156 1, 637, 595	200 500 22, 537 1, 122	30, 035 20, 167 119, 091 69, 756	21, 760 18, 953 228, 433 102, 366	560, 393 1, 786, 394 8, 193, 157 3, 120, 135	3, 917 4, 332 130, 233 48, 804	1, 252, 858 2, 892, 803 16, 154, 865 6, 718, 038	688, 548 1, 102, 077 7, 831, 475 3, 549, 099	57 60 7,000 3,449	4, 225 2, 885	175 175	12 137 7		57 48 2,463 382	1,012 795	27 28 29 30
168, 288 239, 747 125, 374 208, 075 222, 105 25, 655	128, 102 253, 322 115, 506 382, 698 58, 785 24, 107	762, 119 1, 071, 442 325, 585 1, 539, 087 2, 411, 517 126, 178	21, 415 110 415 480	7, 343 41, 992 21, 378 3, 082 163 11, 902	88, 013 38, 054 49, 349 617, 828 463, 420 3, 486	2, 418, 056 2, 654, 966 897, 418 553, 571 1, 650, 295 116, 804	42, 238 39, 191 29, 899 2, 442, 547 910, 113 6, 730	4,662,512 4,774,315 1,681,681 11,113,372 6,927,042 409,129	2, 202, 218 2, 080, 158 754, 364 8, 117, 254 4, 366, 634 285, 595	1, 205 2, 286 240 8, 772 14, 188 182	289 1,051 4,210 7,925	3, 253 1, 350	15 115 15 992 4,508		961 1, 120 225 317 405 182	2,999 11,420	31 32 33 34 35 36
25, 105	11,578	176,823		14,797	24, 581	770, 995	8,024	1,207,799	428,780	115			ļ		115		37
13, 180	1,538	73, 520	1,645	30	4, 046	251, 236	33, 615	448, 515	163, 664	227	143		 		84		38
20, 001 243, 355 106, 931	520 18, 227 11, 722 64, 964	8, 524 65, 227 315, 981 299, 225		3,060 8,496 3,807 26,466	104 2, 961 59, 442 8, 466	60, 561 74, 371 670, 919 1, 102, 634	118 1,638 13,086 7,884	79, 181 224, 615 1, 392, 894 1, 893, 461	18, 502 148, 606 708, 880 782, 943	1 42 439 55	260				1 42 179 55		39 40 41 42
37, 298 119, 646 51, 210	28, 247 176, 323 41, 061	211, 220 284, 575 84, 703	852	13,743 32,747 10,388	24, 286 26, 871 5, 884	1, 016, 271 1, 207, 433 946, 909	4, 376 11, 840 11, 515	1, 478, 951 2, 464, 018 1, 352, 684	458, 304 1, 244, 745 394, 260	68 49 413					68 49 413		49 44 45
351, 527 134, 366	92,033 334,320	1, 426, 044 374, 267	7,010	36, 840 9, 126	242, 273 52, 541	684, 972 456, 751	1, 423, 021 9, 948	6, 504, 840 1, 565, 500	4, 396, 847 1, 098, 801	29, 116 385	24, 486	785	529 30		3,316 355	1,504	46 47
390, 627	161, 785	3,044,666	50,000		1, 908, 744	5, 101, 207	559, 415	12, 537, 067	6, 876, 445	7, 426	3, 850	750			2,826	6,730	48
21,590	17,807	65, 002		6, 507	1, 138	75, 067	2,892	236, 895	158, 936	59			·		59		49
100, 631 28, 039 39, 085	71, 708 55, 154 14, 720	549, 716 113, 250 81, 934	6, 831	40,652 7,846 6,152	25, 142 19, 095 3, 374	634, 960 143, 754 337, 603	6, 107 3, 415 5, 288	1, 927, 269 435, 435 574, 996	1, 286, 202 288, 266 232, 105	170 94 419					170 94 419		50 51 52
68, 440	38, 897	296, 198	·····	2,605	144, 888	2, 890, 087	55, 880	3, 769, 580	823, 613	948	420		ļ		528	ļ	58
63, 309 583, 648 168, 948 13, 212 527, 378 477, 962	62, 231 935, 719 134, 135 6, 801 240, 340 323, 072	649, 765 3, 569, 611 333, 062 14, 001 4, 027, 149 2, 841, 490	13, 441 500 5, 628 6, 500 655, 681 25, 661	1, 225 13, 544 21, 925 9, 834 20, 807 105, 592	51, 656 5, 472, 209 14, 184 797 289, 142 172, 523	405, 472 3, 054, 834 584, 372 48, 378 4, 854, 433 6, 675, 618	387, 144 669, 197 10, 045 199 70, 700 119, 366	2, 090, 120 24, 365, 548 1, 472, 240 118, 796 14, 025, 865 12, 317, 666	1, 297, 510 20, 641, 517 877, 823 70, 219 9, 100, 732 5, 522, 682	1, 936 26, 454 329 26 23, 502 10, 081	1,515 23,924 20 22,373 5,753	550 380 75	105 1,940 427 250	141	316 40 329 6 181 4,003	235 13,028 	5: 5: 5: 5: 5: 5:
1	1		1	l				}						J	1		•

Same number reported throughout the year.
 Same number reported for one or more other months.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

			PERSO	ns en	GAGED	IN THE	INDUSTRY.		WAGE NEARES	EARNEI T REPRE	RS DEC	. 15, O	R AY.	
			Sala-	Clerks	s, etc.		Wage earne	rs.		16 and	over.	Unde	r 16.	
INDUSTRY AND CITY.	Num- ber of estab- lish- ments	Pro- prie- tors and firm mem- bers.	ried offi- cers, super- in-	Male.	Fe- male.	Average number.	Number, 18 Maximum month.	oth day of— Minimum month.	Total.	Male.	Fe- male.	Male 1	Fe- nale	Capital,

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

	THE S	TATE	-ALL I	NDUS	TRIES	COM	BINEI	AND	SPEC	IFIED	IND.	USTRI	ES—Cont	inued.				
1 2 3 4	Machine tools Marble and stone work. Monuments and tombstones. Other marble and stone work, except slate.	5 154 121 33	155 1, 172 446 726	153 138 15	18 99 32 67	13 51 24 27	3 29 12 17	121 840 240 600	De Oc No	149 266 698	Je Ja Ja	104 203 541	149 956 261 695	149 939 261 678	16 16	1		Dollars, 461, 177 2, 892, 309 1, 202, 936 1, 689, 373
5	Mattresses and spring beds, not else- where specified.	28	459	18	37	39	17	348	Au	386	Ja.	300	368	308	57	2	1	1, 028, 321
6	Millinery and lace goods, not else- where specified.	42	2, 184	22	128	120	105	1,809					2, 534	838	1,655	8	33	2, 440, 753
7 8 9	Embroideries Trimmed hats and hat frames. Dress and cloak trimmings, braids, and fringes.	7 24 11	103 1,774 307	10 8	104 16	111 8	3 86 16	87 1,463 259	Je Fe No	95 1,681 310	Ja Je Ja	74 1, 215 171	2, 134 306	26 776 36	62 1,326 267	2 4 2	28 1	121, 257 2, 017, 326 302, 170
10 11	Mineral and soda waters. Minerals and earths, ground or otherwise treated.	178 17	857 451	195 8	67 28	86 9	33 4	476 402	Jy No	697 494	Ja Jy	346 326	516 430	461 425	43 5	12	•••••	2, 054, 077 1, 664, 568
12	Mirrors, framed and unframed, not elsewhere specified.	8	72	8	5	2	3	54	Oc	65	Jу	41	60	58	ļ	2		89, 649
13	Models and patterns, not including paper patterns.	26	224	31	7	11	4	171	No	184	Ja	155	182	182		ļ		219, 155
14	Mucilage, paste, and other adhesives, not clsewhere specified.	6	46	3	9	. 2	5	27	Jу	31	Oc	25	25	23	2			179, 993
15	Musical instruments and materials, not elsewhere specified.	5	13	3	3			7	(3)	7	(8)	7	7	7				33, 298
16 17	Oil, not elsewhere specified Oleomargarine and other butter sub- stitutes.	5 4	163 296	1	19 11	27 67	17 21	99 197	Oc No	134 229	Au Je	69 173	126 209	126 142	67			2, 634, 302 1, 421, 256
18 19 20	Optical goods Paints	8 30	299 1,464	3 6	27 108	30 326	29 126	210 898	Fe Se	291 1, 006	Jy Ja	162 737	171 927	110 845	60 82	1		2, 717, 654 9, 278, 089
21	Paints. Patent medicines and compounds. Patent and proprietary medicines.	142 101	2,098 1,777	79 50	$\frac{207}{163}$	513 420	259 217	1,040 927	Oc	999	ijу	844	1, 114 984	432 339	644 607	13 13	25 25	7, 919, 699 7, 004, 305
22	Patent and proprietary com- pounds, not elsewhere speci- fied.	41	321	29	44	93	42	113	De	131	Ja	100	130	93	37	·· · ··		915, 394
23 24 25 26 27 28 29 30 31	Paving materials. Perfumery and cosmetics. Perfumery and cosmetics. Petroleum, refining. Photo-engraving. Photographic apparatus. Photographic materials. Pickles, preserves, and sauces. Pipes, tobacco. Plumbers' supplies, not elsewhere	49 23 4 20 5 6 11 7 5	812 284 1,070 350 47 328 459 417 289	29 16 8 2 5 4 4	50 18 48 39 7 22 18 15	26 31 81 37 6 34 59 7 21	119 11 20 3 13 32 4	703 100 930 246 29 254 346 387	Se No Jy No Jy Fe Je Ja	895 107 1,254 268 35 272 424 418	Ja Au Ja Fe Se Fe Ap	445 89 252 215 24 236 292 367	806 102 1,061 269 34 258 366 382	806 25 1,059 244 31 162 154 275	77 2 3 3 83 210 93	20 11 4	2 2 2 10	1, 355, 708 1, 079, 869 13, 399, 315 516, 820 140, 092 1, 074, 787 2, 465, 944 499, 990
32	specified. Poultry, killing and dressing, not done in slaughtering and most	6	185	2	9	20	6 12	142	De No	276 195	Ap Mh	215 85	276 189	256 136	20 53	· · · · · ·		455, 805 534, 107
33	specified. Poultry, killing and dressing, not done in slaughtering and meatpacking establishments. Printing and publishing, book and job.	460	7, 910	391	508	741	404	5, 866					6, 406	4, 254	2, 006	121	25	15, 117, 837
34 35 36	Job printing Book publishing and printing Book publishing without print-	417 8 19	7, 241 257 246	367 2 7	446 15 34	619 17 103	309 20 66	5, 500 203 36	De No Jy	6, 033 235 50	Ja Mh 4 No 4	5, 163 188 2	6, 017 222 27	3, 988 134 9	1, 893 83 15	117 2	19 3 3	13, 930, 040 600, 703 301, 262
37 38 39	Linotype work and typesetting. Printing and publishing, music. Printing and publishing, newspapers and periodicals.	16 7 774	166 71 8,095	15 2 714	13 6 538	2 18 1,566	9 33 1,094	127 12 4,183	No De	142 17	Ja Se	112 2	140 17 4,381	123 8 3,397	15 9 754	2 211	 19	285, 832 488, 244 15, 273, 683
40 41	Printing and publishing Printing, publishing, and job printing.	56 571	4, 141 3, 384	31 609	233 193	1,122 259	615 315	2,140 2,008	De De	2, 266 2, 117	Ja Ja	1,938 1,897	2,237 2,110	2,065 1,310	155 588	9 201	8 11	7, 960, 032 6, 452, 382
42 43 44 45	Publishing without printing. Printing materials. Refrigerators Regalia, and society badges and em- blems.	147 4 7 6	570 25 283 91	74 1 1 4	112 4 19 5	185 1 39 6	164 4 17 12	35 15 207 64	Mh (3) No Jy	38 15 235 76	Ja 4 (3) Ja Ap	33 15 164 57	34 16 228 61	22 16 225 27	11 3 29	3	····· 2	861, 269 118, 545 952, 983 121, 399
46	Rubber tires tubes and rubber	7	715	1	35	31	27	621	Fe	670	Му	539	629	391	234	3	1	2,580,742
47 48	goods, not elsewhere specified. Saddlery and harness. Sausage, not made in slaughtering and meat-packing establishments.	88 13	1,663 100	85 13	106 7	202 4	55 5	1,215 71	De De 4	1,345 74	Mh Jy	1,103 66	1,344 74	$1,231 \\ 64$	109 9	4 1		5,064,798 319,466
49 50 51 52 53 54 55	Shirts Show cases Signs and advertising novelties Slaughtering and mest packing. Soap. Stamped ware, not elsewhere specified. Statuary and art goods	19 8 21 49 7 7	3, 050 345 398 10, 281 943 892 82	3 9 15 28 1 4	52 26 28 386 29 20	187 15 54 1,249 139 145	93 11 7 328 122 61 2	2,715 284 294 8,290 652 662	De Je No Ja Jy Oc	3,099 324 377 9,805 804 831	Ap Ja Fe Oc Mh Ja	2,506 238 223 7,654 448 401	3,102 285 313 8,126 687 777	285 225 7,500 379 586	2,864 84 620 291 174		9	5, 145, 773 719, 628 537, 556 98, 958, 695 3, 952, 212 3, 471, 571 85, 397
56	Steam fittings and steam and hot- water heating apparatus. Stereotyping and electrotyping	6	682	13	4 17	34	9	63 622	De No	82 920	Fe4 Ap	50 400	82 895	76 889	6 6			2, 213, 478
57 58 59	Stereotyping and electrotyping	5 19 35	160 2, 905 1, 349	14	12 118 115	18 269 130	56 27	125 2,462 1,063	De No De	130 2,852 1,239	Je Ja Mh	2,035 899	130 2,819 1,230	129 2,798 1,225	15 1	1 6 4		177, 606 11, 887, 580 4, 728, 036

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.

			EXP	enses.									POWE	R.		
Sal	laries and	wages.		Renta	nd taxes.	For ma	terials.				Prin	nary h	orsepov	ver.		
Meials.	Clerks,	Wage earners.	For contract work.	Rent of factory.	Taxes, Foderal, state, county, and local.	Principal materiāls.	Fueland rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Owner Steam turbines.	Inter-	Wa- ter pow- er,1	Rent-ed.2	Electric horse power generated in establishments report ing.
	<u> </u>	1	THE ST	ATE—A	LL INDU	STRIES CO	MBINED	AND SPEC	 FIED IND	 USTRII	 ES—Con	tinued.	-			
00llars. 61, 708 195, 699 62, 655 133, 014	Dollars. 16, 453 92, 055 44, 357 47, 698	Dollars. 148, 677 1, 017, 639 306, 723 710, 916	Dollars. 140 30, 936 22, 391 8, 545	Dollars. 7, 764 30, 731 14, 228 16, 503	Dollars. 4, 044 23, 180 8, 379 14, 801	Dollars. 184, 075 1, 605, 641 777, 525 828, 116	Dollars. 6, 609 117, 074 21, 718 95, 356	Dollars. 434, 999 3, 802, 903 1, 615, 822 2, 187, 081	Dollars. 244, 315 2, 080, 188 816, 579 1, 263, 609	211 5, 185 760 4, 425	1,045	110	268 216 52		211 3, 762 544 3, 218	40 5 35
80, 583 462, 359	72, 068 238, 238	376, 765 1, 132, 970	100 2, 395	28, 833 86, 046	25, 264 67, 610	1, 379, 811 4, 127, 325	21, 153 19, 247	2, 406, 894 7, 434, 271	1, 005, 930 3, 287, 699	769 189	250 20		15		504	
12, 414 03, 055 46, 890	1, 300 212, 131 24, 807	64, 991 909, 392 158, 587	75 2, 320	5, 775 64, 951 15, 320	2, 518 61, 478 3, 614	72, 559 3, 676, 571 378, 195	2, 079 13, 900 3, 268	196, 081 6, 544, 377 693, 813	121, 443 2, 853, 906 312, 350	21 135 33	20				169 21 115 33	
17, 223 59, 772	152, 309 14, 064	399, 449 374, 930	2, 210 210	37, 629 10, 137	131, 641 13, 422	1, 505, 000 542, 002	36, 771 105, 097	3, 597, 605 1, 337, 598	2, 055, 735 690, 409	1, 098 2, 371	299 1,081	200	219 335	1	579 755	16 103
12, 681 32, 302	3, 047 8, 695	60, 486 235, 391	1, 627	6, 995 12, 197	456 2, 434	184, 382 92, 565	3, 849 6, 947	328, 619 543, 935	140, 388	130 197			14	• • • • • •	130 183	
28, 420 4, 200	8, 303	37, 142 5, 621		10, 290 758	4, 031 159	340, 971 10, 720	2, 964 184	530, 667 27, 372	180, 732 16, 468	106	4				102 3	
59, 469 57, 936	61, 092 135, 018	107, 782 150, 644	10, 247	2, 040 3, 000	160, 407 159, 637	2, 925, 900 3, 652, 554	19, 106 34, 703	4, 175, 151 4, 414, 888	1, 230, 145 727, 631	309 903	230 840		57		22 63	27 301
84, 753 07, 864 98, 182 78, 808	58, 029 618, 312 1, 147, 376 931, 779	192, 826 1, 182, 022 886, 379 774, 218	200 10, 565 10, 565	18, 885 55, 706 104, 501 85, 112	42, 913 199, 431 1, 574, 892 1, 545, 431	647, 759 9, 500, 015 5, 145, 822 4, 560, 060	6, 140 218, 087 44, 996 35, 259	1, 404, 244 14, 531, 437 14, 590, 676 13, 154, 905	750, 345 4, 813, 335 9, 399, 858 8, 559, 586	153 3, 905 895 738	2, 210 267 265				153 1, 695 573 418	1,011 103 103
19, 374	215, 597	112, 161		19, 449	29, 461	585, 762	9, 737	1, 435, 771	840, 272	157	2				155	•••••
91, 666 52, 174 51, 866 41, 976 17, 475 69, 037 63, 120 51, 206 71, 275	33, 061 160, 983 115, 986 91, 639 7, 334 73, 213 116, 221 15, 470 35, 468 32, 541	673, 464 60, 954 1, 388, 663 423, 135 31, 176 221, 115 256, 296 239, 036 287, 198	19, 354 1, 314 5, 478	17, 754 10, 088 2, 898 27, 690 6, 859 3, 145 8, 546 1, 500 8, 249 4, 537	10,070 27,872 123,978 4,480 986 32,770 39,152 42,094 37,605	192, 595 589, 734 19, 620, 118 142, 574 95, 432 731, 212 4, 001, 712 366, 013 382, 780 2, 934, 264	107, 486 6, 067 1, 494, 934 9, 265 1, 351 22, 027 18, 411 11, 388 32, 291 14, 039	1, 379, 062 1, 902, 228 24, 610, 532 1, 133, 049 193, 707 1, 356, 827 4, 817, 855 943, 340 983, 113 3, 307, 749	1, 078, 981 1, 306, 427 3, 495, 480 981, 210 96, 924 603, 588 797, 732 565, 939 568, 042 359, 446	5, 401 103 2, 545 170 27 516 450 384 463	2,876 1,140 513 91 225 250 210	1,390	206		2, 319 103 170 27 3 359 159 178 102	1,273 103 50 5 61
	1, 439, 194	6, 235, 986	694, 285	434, 756	531, 313	9, 020, 807	217, 587	25, 880, 461	16, 641, 977	6, 194	870	٠,	24		5, 300	150
56, 948 96, 922	1, 220, 042 38, 057 173, 484	5, 857, 085 176, 755 19, 000	305, 365 40, 544 347, 276	400, 132 15, 460 12, 171	521, 494 4, 315 3, 838	8, 735, 215 182, 025 82, 567	199, 883 10, 083 234	23, 927, 561 667, 660 926, 172	14, 992, 463 475, 552 843, 371	5,903 245 9	820 50		24		5,059 195 9	150
	7, 611 97, 502 3, 129, 680	ľ	1, 100 6, 641 1,128,253	6, 993 3, 992 370, 786	1, 666 1, 391 526, 676	21, 090 31, 765 11, 594, 122	7, 387 787 265, 451	359, 068 285, 303 30, 011, 808	330, 591 252, 751 18, 152, 235	37 10 7, 014	1, 868		731	6	37 10 4, 409	1,168
13, 447	553, 762	2, 602, 007 1, 781, 649	156, 915 175, 450	175, 110 155, 573	433, 054 79, 481	9, 065, 727 2, 208, 495	159, 548 105, 426	19, 817, 677 7, 445, 532	10, 592, 402 5, 131, 611	1, 277 2, 736	1, 825 43		51 680	6	2, 401 2, 007	999 169
46, 901 26, 037 64, 525 16, 668	484, 675 5, 984 105, 951 17, 302	26, 953 21, 741 273, 683 43, 209	795, 888 800	40, 103 4, 240 7, 432 4, 170	14, 141 18, 364 26, 134 994	319, 900 39, 168 705, 241 88, 207	477 2, 459 10, 685 1, 347	2,748, 599 198, 384 1,527, 256 202, 562	2, 428, 222 156, 757 811, 330 113, 008	1 38 605 36	2				36 605 36	*******
86, 018 16, 884 17, 775	63, 448 279, 681	541, 079 1, 250, 103	6,000	14, 321 74, 624	16, 905 183, 239	2, 423, 297	55, 466	3, 865, 296	1, 386, 533	2, 168	250				1,918	
17, 775 76, 445 57, 180	9, 988 520, 399	1, 250, 103 75, 132 1, 839, 753 307, 949	8, 447	18, 178	15, 441 250, 674	6, 260, 481 633, 420 7, 226, 120	77, 633 13, 677 38, 692	9, 449, 706 866, 714 11, 704, 712	3, 111, 592 219, 617 4, 439, 900	1, 082 247 1, 229	292 81 740	125			773 166	55
77, 431 77, 431 36, 071 23, 725 22, 029 10, 778 17, 038	42, 588 62, 922 257, 040 246, 651 316, 718 1, 716 31, 875	307, 949 242, 930 10, 377, 515 564, 498 673, 677 72, 816 854, 494	12, 293 45, 583 591, 050	45, 586 12, 690 14, 086 24, 785 38, 970 91, 467 7, 071	8, 381 18, 828 251, 955 301, 229 295, 486 590	7, 226, 120 537, 251 472, 485 226, 464, 734 5, 588, 494 2, 929, 290 39, 623 1, 108, 572	38, 692 15, 377 7, 026 1, 544, 642 70, 270 43, 857 1, 581	11, 704, 712 1, 177, 071 1, 044, 371 246, 610, 195 8, 555, 927 5, 427, 284 172, 226 2, 597, 264	4, 439, 900 624, 443 564, 860 18, 600, 819 2, 888, 154 2, 454, 128 131, 022 1, 379, 820	1,229 743 119 19,966 1,617 1,277 72		2,096	92		349 743 117 2,669 224 239 72	5, 668 883 30
33, 847 11, 015 50, 693	22,610 744,048 229,440	174, 997 2, 976, 649 1, 287, 590	26, 223 41, 796	9, 800 18, 894 23, 538	13, 991 11, 727 587, 814 333, 780	1, 108, 572 123, 651 5, 945, 178 2, 868, 871	108, 872 11, 946 120, 114 78, 450	2, 597, 264 539, 688 15, 339, 544 5, 544, 496	1, 379, 820 404, 091 9, 274, 252 2, 597, 175	1, 122 351 2, 994 3, 306	1,770 749		12		351 1,224 2,545	1, 092 285

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

MANUFACTURES—MISSOURI.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

	l			PERSO	NS EN	AGED	IN THE	INDUSTRY.		WAGE NEARES	EARNEI T REPRE	RS DEC	. 15, TIVE	OR DAY.	
				Sala-	Clerks	, etc.		Wage earne	ers.		16 and	over.	Und	er 16.	İ
INDUSTRY AND CITY.	Num- ber of estab- lish- ments	Total.	and firm mem- bers.	ried offi- cers, super- in- tend-	Male.	Fe- male.	Average number.	Number, 16 Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	Capital.

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

					4.0			100		171	T- 9	9.7	110					Dollars.
1	Surgical appliances	17	195	10	19 58	11 55	53 35	102 1,516	Je De	111 1,760	Ја, ³ Је	86 1,394	110 1.766	1,217	55 527	15	ا مو	532, 867
2	Tinware, not elsewhere specified Tobacco, chewing and smoking, and	10	1,664 3,320	ا-در	85	471	99	2,752	Ja	3,292	Mh	2,391	2,846	1,376	1 412	15	49	5, 245, 362
3	snuff,	11	! '							•		- 1	'	l * :		. "	*20	12, 213, 931
4	Tobacco, eigars	279	1,278	287	35	19	5	932	Ďe	1,178	Mh	718	1,159	568	574	13	4	883, 902
5	Tools, not elsewhere specified	23	500	25	29	16	27	403	De	504	Jе	336	433	414	12	7		1,537,543
6	Toys and games	12	177	10	9	_1	9	148	Qc	228	Ap	84	182	73	109			191,550
7	Trunks and valises	20	1,026	15	38	71	25	877	ွှင	989	์ โ	775	932	792	134	5	1	2,092,393
- 8	Umbrellas and canes	4	41] 3	4	7	1	26	De	34	Ja Mh	18	34	10 79	23	1	<u>-</u> -	129, 104
9	Varnishes	7	141	Ĭ Ť:	16	26	ō,	93	Je	108	WIII.	71	106	19	26		1 1	807,625
10	Vinegar and cider	13	100	8	17	Ď.	5	64	****				66	63 50	3			889, 838
11	Vinegar	7	78	1 4	13	3	4	54	Qe a	92	Ap	35	53	13	3			769, 791
12	Cider	6	22	4	4	3	i	1.0	Oc 8	13 211	Ja 8 Ja	9	13 180	169	10			120,047
13	Washing machines and clothes wringers.	8	188	8	4	12	8	156	No	211	181	104	180	109	10	1		634,975
14	Window and door screens and	9	117	5	12	15	1	84	Je 8	110	Ja.	55	85	85				326,712
	weather strips.			l				1 1	il									'
15	Wirework, including wire rope and	24	1,212	15	34	119	34	1,010	Mh	1,069	Oc	823	1,039	939	99	1		5, 808, 781
	cable, not elsewhere specified.	1]]	1 .				. 1	1 _		1 _	1	11	i	ì	1	1	1 ' ' 1
16	Wood, turned and carved	23	272	25	17	7	4	219	De	244	Jе	203	244	237	7			310,721
17	All other industries *	223	12,734	115	576	930	413	[10, 700		• • • • • • •		• • • • • • •		[65, 948, 882
- 1		1							I		1			1				i l

	1 1	ii			<u> </u>			
*All other industries embrace— Aeropianes, seaplanes, and airships, and parts. Aluminum manufactures. 4 Artificial flowers. 3 Artists' materials. 2 Asbestos products, not including steam packing. 1 Babbitt metal and solder. 3 Baking powders. 1 Baskets, and rattan and willow ware. 1 Bells. 2 Betting, woven, other than rubber. 1 Billlard tables and accessories. 2 Bluing.	Butter, re- Cars, elect operation Cash regis chines. Cheese Chewing g China dece done in 1 Cloth, spon Clothing, r Cond-tar p Condensed Cordage at Cordials at	working ric-rallroad, n ns of railroad co sters and cale rrating, not in potteries nging and refin nen's, buttonh oducts i milk id twine nd flavoring sir	ot including mpanies ulating ma- cluding that dishing oles	1 7 2 3 2 1 2 5 3 2 5	Corsets. Cotton goods. Cutlery and edge tools. Dairymen's and apiarists' supplies. Dyeing and finishing textiles, exclusive of that done in textile mills. Emery and other abrasive wheels. Enameling. Engravers' materials. Feathers and plumes. Felt goods. Fertilizers. Fire extinguishers, chemical. Fireworks Fuel, briquetted.	1 5 4 2 1 3 2 2 1 3 2 1 1	Furs, dressed Gas machines Glucose and starch Glue, not elsewhere specified. Gold and silver, reducing and ing, not from the ore. Hat and cap materials. Ink, printing. Iron and steel, blast furnaces. Iron and steel, bolts, nuts, w and rivets, not made in rolling Iron and steel, doors and shutt Iron and steel forgings, not n steel works or rolling mills.	refin- rashers, g mills.
					TORTATED CONTACTOR LATE OFFI			

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

													,					
1	KANSAS CITY—All industries.	997	29,230	777	1,546	3,095	1,675	22, 137	No	24,154	Fe	20, 255	23,897	16,885	6,892	81	39	83,009,137
2 3 4 5 6 7	Agricultural implements	6 15 34 8 131 4	173 242 288 654 3,277 240	2 14 40 4 141 1	12 13 10 28 49 9	17 9 7 75 378 12	9 8 10 67 137 5	133 198 221 480 2,572 213	Jø Ap Oc Dø Dø My	185 212 230 708 3,016 241	Mh Ja Ap My Jy Ja	96 176 211 291 2,351 146	114 209 227 708 3,046 230	114 203 226 292 1,612 230	6 1 414 1,434	2		1, 232, 000 404, 273 359, 303 1, 676, 254 6, 863, 455 609, 865
8 9 10	Brooms. Butter Cars and general shop construction and repairs by steam-railroad commanies.	9 4 5	55 387 1,757	9	2 30 70	177 42	1 27 13	41 153 1,632	De Je De	63 204 1,751	Ap De Jy	31 120 1,530	63 120 1,722	62 77 1,694	1 43 28			47, 691 1, 089, 489 1, 753, 955
11 12 13 14 15	Chemicals Cleansing and polishing preparations. Clothing, men's. Coffee, roasting and grinding. Coffins, burial cases, and under-	5 3 13 9 5	118 22 1,179 369 102	1 6	14 4 39 17 13	43 8 22 101 7	17 1 27 24 3	$\begin{array}{c} 44\\9\\1,090\\221\\79\end{array}$	Se Se ⁸ De Au Fe	53 11 1,180 240 100	Fe Ja Ap My Je	35 6 997 207 64	50 9 1,174 226 77	45 1 187 102 58	987 120 19	3	i	577, 504 32, 937 2, 407, 288 1, 479, 667 204, 944
16 17 18 19 20 21	takers' goods. Confectionery and ice cream Confectionery Ice cream Copper, tin, and sheet-iron work Druggists' preparations. Engraving, steel and copper plate,	25 19 6 23 6 7	443 232 211 615 82 108	27 22 5 30	13 8 5 25 15 9	47 30 17 48 5	16 12 4 16 5 7	340 160 180 496 57 88	No Jy Au Oc ⁵ De	276 250 613 63 119	Au Fe Fe Fe Ja	99 140 369 50 69	391 239 152 553 58 119	250 99 151 551 31 50	138 137 1 2 27 68	1 1	2 2	1,300,788 563,789 736,997 1,197,882 276,591 101,761
22 23	i ncluding plate printing. Flour-mill and gristmill products Food preparations, not elsewhere specified.	8 21	287 432	3 13	20 41	32 63	6 22	226 293	Ja Ap	296 327	Au Se	150 270	230 327	190 245	40 82			2, 293, 082 1, 795, 141
24	Foundry and machine-shop prod-	45	626	39	44	49	37	457	No	574	Mh	330	548	532	12	1	3	1,952,151
$\frac{25}{26}$	ucts. Furnishing goods, men's Furniture. House-furnishing goods,not elsewhere specified.	3 12 8	83 231 120	 11 6	7 15 10	11 13 17	6 5 5	59 187 82	No Je De	68 198 92	Ap.	50 167 69	64 192 100	188 71	60 4 20	5	4	171, 485 631, 019 752, 133
2 8	Specified. Lithographing	4	107	1	8	18	4	76	No	85	Ja	68	81	64	17		 	246, 239

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).

			EXPE	NSES.								P	OWER.			
Sal	aries and v	vages.		Rent a	nd taxes.	For mat	erials.				Prir	nary h	orsepo	wer.		7710-
			For		Marros			Value of products.	Value added by manufac-			Own	ed.			Elec- tric horse- power
)Moinls.	Clerks, etc.	Wage earners.	contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.		ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	generated in establishments report ing.
			THE ST	ATE—A	LL INDU	STRIES CO	MBINED	AND SPEC	FIED IND	USTRIE	S—Con	tinued.	•		<u>'</u>	
0ollars. 68, 604 180, 044 228, 452	Dollars. 77,595 119,532 739,889	Dollars. 91, 626 1, 238, 674 2, 102, 237	Dollars. 1,345	Dollars. 8,611 29,006 5,940	Dollars, 19, 287 207, 616 11,602,281	Dollars. 399, 192 3, 640, 286 25, 360, 572	Dollars. 4, 911 57, 657 134, 465	Dollars. 1, 050, 562 6, 124, 186 44, 022, 230	Dollars. 655, 459 2, 426, 243 19, 421, 193	112 918 2,533	411 2,260				112 507 273	710 1,638
52,990 123,337 17,510 114,105 13,488 73,458 57,481 48,450 9,031 15,279	28, 271 41, 041 8, 786 156, 886 18, 498 70, 046 10, 847 8, 830 2, 017 22, 274	688, 250 513, 248 91, 812 855, 187 22, 463 104, 916 71, 274 62, 633 8, 641 155, 633	347 3,000 300 240 240 1,010	39, 394 13, 172 6, 077 53, 648 2, 254 2, 580 6, 253 5, 265 988 4, 047	334,010 22,040 7,850 186,963 1,042 17,646 20,663 17,735 2,028 12,496	1, 280, 378 563, 358 101, 028 2, 369, 500 188, 095 1, 344, 122 536, 086 476, 029 60, 057 623, 198	7, 973 38, 885 3, 855 27, 122 1, 259 10, 427 16, 027 14, 182 1, 845 4, 460	2, 829, 604 1, 521, 655 437, 210 4, 278, 561 230, 736 2, 027, 338 1, 022, 673 916, 516 106, 157 1, 053, 043	1,541,253 919,412 272,327 1,881,939 91,382 672,789 470,560 426,305 44,255 425,385	27 858 86 530 8 483 1,001 435 566 372	239 290 255 440 420 20 300			500 500	27 598 78 240 8 228 57 11 46 25	225 420 420
31,000	16,980	70,084		3,090	4, 369	116, 972	4, 651	384, 133	262, 510	202	100		36	100	56	52
286, 227	240, 454	729, 425	1,500	11, 488	1, 192, 812	4, 777, 798	40, 100	7, 789, 617	2, 971, 719	1,743	350		27		1, 366	250
33, 630 842, 424	16, 284 1, 536, 808	176, 714 10, 658, 499	239, 135	3,611 209,087	8, 477 2, 693, 470	374, 705 42, 380, 348	6, 193 1, 114, 751	762, 253 70, 975, 017	381, 355 27, 479, 918	828 32,578	411 15,876	4,175	60 133		357 12, 394	6,045
te goods mps and pidary v rd, not neat-pac sts, ad, bar, quors, vi bricatin usical ins sedles, p its and s l and cal per goo	d instrumed reflectors work	ent cases	3 1 1 1 and 1 1 2 2 1 2 2 2 2 2 5 1 1 1 1 1 1 1 1 1	and she Pencils, I Pens, fou Phonogra Pockethe Pottery, Pumps, s Roofing I Safes Saws Scales an Screws, m Sewing m	allingead .	coasting, clear stylographic, aphophones, d stone ware, ng power pun other power.	3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Shipbuilding, building Smelting and a smelting and a smelting and a state of the state of th	efining, lead refining, m ceified paratus. thletic goods car and car ceel works ds, not elsew rums, and ta	netals, no rriage, no or rollin	ot 1	goods Theatri Fin foil Fype fo Uphols Vault li Wall pl Waste, Whips. Windo Wire Wood o Woode fied	ical see, not eo oundin tering ights a laster a cotton w shad listilla oreserv n good	nery les wheels wheels materind ver and correct and co	and class ore specificals, excentilators, imposition fixtures	led

5,088,640	5, 822, 647	23,741,756	883,378	1,154,445	6,390,341	122,150,470	2, 159, 434	192, 815, 052	68, 505, 148	44, 287	19,775	302	1,344		22, 866	7,784	1
29,728 43,862 17,628 93,315 141,883 23,084	28, 499 23, 701 18, 671 205, 139 733, 972 26, 277	152, 042 225, 898 313, 251 427, 356 2, 465, 756 238, 627	1,000 544 1,773 879	4,780 20,766 45,301 17,772 53,573 3,832	11, 286 10, 240 3, 988 30, 915 1, 149, 462 6, 196	472, 521 262, 349 329, 845 918, 127 8, 652, 465 127, 228	19, 288 10, 114 12, 199 8, 191 221, 132 127, 716	902, 396 733, 364 929, 192 1, 982, 150 15, 762, 836 680, 114	410, 587 460, 901 587, 148 1, 055, 832 6, 889, 239 425, 170	196 243 188 286 2,694 865	50 1,545 675	122	77 -		105 219 111 286 980 190	1,936	2 3 4 5 6 7
2,150 91,548 192,344	2,601 127,248 72,507	57, 266 146, 044 2, 124, 654			980 40,658 8,121	145, 990 7, 332, 928 1, 327, 094	1,562 31,001 116,371	227, 300 7, 879, 726 3, 840, 304	79, 748 515, 797 2, 396, 839	41 742 1,343	105 757	55			41 637 531	1, 107	8 9 10
46, 482 14, 800 165, 497 49, 322 27, 420	91, 593 17, 568 113, 563 217, 243 15, 879	50, 788 5, 273 779, 528 178, 974 102, 788	133,111		17, 501 3, 517 29, 376 71, 871 5, 310	104, 041 44, 343 3, 858, 136 4, 815, 744 304, 383	47, 115 355 23, 536 19, 854 2, 326	456, 586 108, 381 6, 048, 192 6, 393, 929 478, 277	305, 430 63, 683 2, 166, 520 1, 558, 331 171, 568	252 7 905 463 145	100 330				152 7 575 463 145	15	11 12 13 14 15
51, 540 18, 740 32, 800 71, 064 42, 481 19, 782	93, 771 58, 165 35, 606 54, 747 38, 934 6, 759	315, 792 109, 862 205, 930 635, 813 25, 552 75, 197		37,716 22,441 15,275 16,175 3,264 6,304	44,559 2,939 41,620 13,550 16,932 717	1, 179, 283 498, 220 681, 063 1, 825, 191 518, 319 61, 956	44, 434 14, 352 30, 082 12, 732 3, 996 1, 178	2, 197, 935 808, 874 1, 389, 061 3, 226, 533 746, 832 216, 387	974, 218 296, 302 677, 916 1, 388, 610 224, 517 153, 253	834 198 636 260 32 40	160 160		18		674 38 636 242 22 40	103	16 17 18 19 20 21
75, 460 188, 198	64,157 130,762	280, 667 279, 543		3,550 24,622	25, 271 213, 200	6, 784, 777 4, 023, 267	56, 182 51, 250	7, 611, 780 5, 839, 526	770, 821 1, 765, 009	4,440 1,393	2,225 568	<u>-</u>			2, 215 825	32	22 23
106,634	97,459	560, 177	5,330	39, 439	19,971	776, 926	40, 321	1, 948, 324	1,131,077	928	240		153 .	· · · · ·	535		24
25, 815 40, 506 47, 090	22,897 24,739 37,211	36,713 220,205 69,855	21,415	5, 405 18, 513 8, 592	2,714 7,095 5,055	194, 943 428, 664 839, 071	1,572 8,105 9,688	352, 034 876, 888 1, 161, 828	155, 519 440, 119 313, 069	20 376 303	210		12 60		8 106 303		25 26 27
39,159	27,503	86,150		3,750	8, 470	164, 465	3,216	387, 302	219,621	108	,	108		28

³ Same number reported for one or more other months.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERSO	NS EN	AGED	IN THE	INDUSTRY.		WAGI NEARES	E EARNE: ST REPRE	RS DEC	2. 15, o	OR DAY.	
	ıtis.			Sala-	Clerks	, etc.		Wage earne	rs.		16 and	over.	Und	er 16.	
INDUSTRY AND CITY.	Number of establishments	Total.	Pro- prie- tors and firm mem- bers.	ried offi- cers, super- in- tend-	Male.	Fe- male.	Average num- ber.	Number, 15 Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	Capita

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

,																		
	KANSAS CITY—Continued.					l						ļ						Dollars.
1	Lumber, planing-mill products, not including planing mills connected	13	614	7	22	60	21	504	Se	536	Ja	423	530	496	•••••	34	•••••	2, 732, 683
2 3	with sawmills. Marble and stone work Mattresses and spring beds, not else-	7 9	132 169	2 7	7 14	4 10	4 7	115 131	No Au	128 148	Ja Fe	90 118	123 132	118 110	4 22			383,774 338,154
4 5	where specified. Mineral and soda waters Models and patterns, not including	9 6	127 38	11 9	10	12	4	90 28	Jy Au ³	109 31	No Ja	68 20	85 29	64 29	21			302,310 51,671
6 7 8	paper patterns. Patent medicines and compounds Patent and proprietary medicines. Patent and proprietary compounds, not elsewhere speci-	28 17 11	344 275 69	19 10 9	36 21 15	180 161 19	36 30 6	73 53 20	Oc De	58 29	Ap ⁸ My	50 16	76 53 23	53 35 18	22 17 5	1		711, 815 579, 149 132, 666
9 10 11	fied. Paving materials. Photo-engraving. Printing and publishing, book and	7 4 133	175 108 2,022	3 2 122	12 9 122	6 13 120	1 8 82	153 76 1, 576	Oc Ap No	199 85 1,672	Ја Ја Ја	100 67 1,452	165 80 1,629	165 77 1,126	485	 3 17	 ₁	168, 033 153, 020 3, 805, 017
12	job. Printing and publishing, newspapers and periodicals.	58	2,348	35	131	604	534	1,044					1,068	931	137		ļ	3,439,335
$\frac{13}{14}$	Printing and publishing Printing, publishing, and job	9 15	1,764 352	2 11	61 31	485 30	356 113	860 167	Je De	926 179	Ја Му	750 160	873 179	802 116				2,450,160 723,497
15 16	printing. Publishing without printing Sausage, not made in slaughtering	34 6	232 72	22 5	39 5	89 1	65 4	17 57	Mh De 8	20 59	Oc 3 Mh	15 54	16 59	13 51	3 8			. 265,678 284,754
17 18	and meat-packing establishments. Signs and advertising novelties. Structural ironwork, not made in	9 6	57 131	9 6	4 9	1 16	4	39 96	Oc 3	47 137	Ap Ja	32 52	38 106	30 106	7	1		86,372 298,287
19 20 21 22	steel works or rolling mills. Tobacco, cigars. Toys and games. Trunks and valiess. Washing machines and clothes	16 4 7 4	108 22 108 53	13 4 9 5	4 1 4 1	2 6 3	1 1 4 2	88 16 85 42	De Au Oc De	97 28 103 60	Fo s Ja s	75 7 72 30	94 19 90 6	53 10 77 6	41 9 13			67, 625 28, 869 149, 532 165, 827
23 24	wringers. Wirework, not elsewhere specified All other industries*	9 249	69 10,536	5 152	5 633	2 852	3 476	54 8,423	De	58	Mh	50	57 8,873	38 6,266	19 2,570	9	28	114,736 40,270,428

				!	1				<u> </u>				1	l	1				
Ari Au Aw Ba Ba Be Blu Bo Bo Bo Bo	*All other industries embrace— tificial limbs. tificial stone products. tificial stone products. tificial stone products. titists' materials. tomobiles. rinings, tents, and sails. bbitt metal and solder. gs, other than paper, not including pags made in textile mills. lting, leather. ting, woven, other than rubber. acking, stains, and dressings. obs and shoes. xes, paper and other, not elsewhere specified. xes, wooden packing, except cigar poxes. ass and bronze products. ushes.	431131 31132 3332	Carpe Carrie Carrie only Cars and pan Cars, ope Cash chin Chew China don Cloth Coal- Cordi	or, rework tis, rag age and wages and wages and wages and wages and wages and wages are steam-right or registers as the ing sum a decoration ing, wom tar produals and iry and ecory	wagon i wagon eral sh by elect ailroad of railro ; and ing, no teries nen's lets	material ns, repe op cons ric-railr , not it pad com calculat t include	is struction of the comment of the c	2 1 1 2 1 1 2 1 1 2 1 3 1 1 2 1 3 1 1 2 1 3 1 1 2 1 1 1 2 1 1 1 2 1	Electron Enamel Engines Engravi Envelor Flavori Fled., m Fur goo Gas and Gas ma Glass Glass	al macles clating ing , stean ng, wo les articles articles articles ds l electr chines.	n, gas, a od , not e acts turcd ic fixtu	apparand wa	atus, an	d . 3	Gloves an cluding mills	glove nd star elsewh silver, from i mps d caps nd wo felt w infactur ting tteel, st	s me rch lere sp reduche ore s, oth ol ed	ecified eing a her th	i fextile ind refin-
1	ST. JOSEPH—All industries		219	7,316	152	392	571	258	5,943	Se	6,615	Ja	5,379	6,510	4,128	2,357	19	в	25, 065, 798
2	Automobile bodies and parts		4	22	4				18	Mh 3	19		16	20	19				53,658 81,026

_	1			1 4								 ,						r i
1	ST. JOSEPH—All industries	219	7,316	152	392	571	258	5,943	Se	6,615	.Ja	5,379	6,510	4,128	2,357	19	ß	25, 065, 798
23 4 5 6 7 8 9	Automobile bodies and parts Automobile repairing. Boots and shoes. Bread and other bakery products. Clothing, men's. Confectionery and ice cream Cooperage, hogsheads and barrels. Copper, tin, and sheet-fron work.	11 3 30 4 8 4 5	166 402 1,112 32 53	4 17 28 5 4 4	2 19 8 6 23 3	1 14 16 49 139 1	1 9 8 1 33 1 2	18 40 364 106 346 912 23 43	Mh ³ Se De De Au No Oo	46 425 112 422 1,030 47 54	Fe 8 Mh Mh Mh Jy My Je Ja	35 331 98 328 809 6 29	20 43 423 116 404 1,006 43 35	43 35	1 139 22 372 592		2	53,658 81,026 1,433,861 521,002 746,021 3,120,342 78,228 119,932 6,726,990
10 11 12	Flour-mill and gristmill products Foundry and machine-shop products. Lumber, planing-mill products, not including planing mills connected with sawmills.	10	619 244 119	7 4 1	24 21 11	39 8 18	34 8 8	515 203 81	Se De 3 No	869 227 100	Jy Mh Fe	389 173 64	500 227 97	455 225 95	2			454,377 427,875
13	Printing and publishing, book and job.	20	273	20	13	22	5	213	Dø	229	Au	202	233	131	100	2		500,757

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

OWRIL	(ED AN	D BLEGI				1919—Con	omued.			<u> </u>							=
_			EXPE	NSES.								P	OWER				
Sala	aries and w	ages.		Rent ar	d taxes.	For mate	orials.				Prim	ary ho	rsepov	ær.		Elec-	
			For contract		Taxes, Federal,		Fuel and	Value of products.	Value added by manufac- ture.			Own				tric horse- power gener- ated in	
)Mcials.	Clerks, etc.	Wage earners.	work.	Rent of factory.	state, county, and local.	Principal materials.	rent of power.			Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed.2	estab- lish- ments report- ing.	
	CITII	ES OF 50,00	AHMI 0	BITANT	s or mo	RE—ALL II	NDUSTR1	ES COMBIN	ED AND S	SPECIFI	ED IN	DUST	RIES	–Conti	nued.		_
Dollars. 74, 249	Dollars. 152, 295	Dollars. 531,958	Dollars. 832	Dollars. 38, 432	Dollars. 40,910	Dollars. 1,522,495	Dollars. 18,085	Dollars. 2,653,164	Dollars. 1, 112, 584	1,334	920	75	97		242	95	1
19, 171 18, 400	7, 294 22, 316	171, 439 175, 357	17,522 100	4, 210 15, 255	2,533 11,462	207, 961 564, 067	14,666 9,148	460, 994 989, 134	238, 367 415, 919	544 440	250		74		470 190		2 3
22,790	22,677 600	81,759 37,679	1,560 1,200	4, 182 2, 422	23,708 797	245, 379 16, 142	8,218 1,518	550, 808 89, 045	297, 211 71, 385	119 74			20 14	· · · · · ·	99 60	•••••	4 5
107, 829 74, 839 32, 990	366, 096 318, 046 48, 050	75,058 47,683 27,375		14, 164 8, 850 5, 314	134,970 121,052 13,918	597, 328 459, 720 137, 608	5, 461 4, 480 981	1,666,712 1,282,134 384,578	1,063,923 817,934 245,989	90 88 2	2		53 53		35 35		6 7 8
27,620 41,636 432,957	9, 080 27, 504 265, 456	174, 500 170, 898 1, 695, 113	10,000 5,478 124,347	8, 223 8, 581 141, 863	782 1,644 72,223	39, 051 22, 715 2, 728, 906	16,655 2,936 66,551	320, 794 418, 437 6, 715, 257	265, 088 392, 786 3, 919, 800	710 35 1,695	140		20		570 35 1,675		9 10 11
145,098 267,803	783,050 84,589	1,187,585 996,938 174,253	104,092 127,508	84,660 10,253	43,279 33,086 6,821	5,049,469 4,630,212 289,021	74,752 67,194 7,494	10,592,983 8,501,482 918,508	5,468,762 3,804,076 621,993	1,900 1,728 172	1,275 1,275		31 31		594 422 172	894 894	12 13 14
89,915 87,380 9,375	201,606 4,788	16,394 56,838	254,762	13, 130 16, 105	3,372 14,773	130,236 432,603	64 11,417	1,172,993 603,429	1,042,693 159,409	158					158		15 16
10,400 18,023	3,572 23,462	43,416 136,521	914	4,966 4,040	1,001 2,538	48,095 430,416	536 5,380	141,816 679,492	93,185 243,696	13 182			_{i2}		13 170		17 18
5,557 1,850 12,900 5,277	5,304 306 7,106 8,796	65,636 19,090 77,298 44,597	300 810	3,377 1,990 11,250 1,434	30,680 204 4,540 177	175,341 13,196 161,578 310,340	441 797 3,367 726	333, 189 54, 412 318, 806 444, 434	157,407 40,419 153,861 133,368	2 15 62 27			5 27		2 10 62		19 20 21 22
25,520 ,165,196	6,414 1,526,936	44,483 9,098,622	69,901	7,120 342,232	1,044 4,255,521	173,420 63,919,912	2,602 1,042,744	295, 484 94, 498, 546	119,462 29,535,890	78 19,705	10, 213	50	27 532	 	51 8,910	3,430	23 24
ewelry Ard Ard Ard Adquors, 1 Aoking-g ubricati umber a dillinery where 8 dillinery, elsowhe ducilage, not elso fusical in not else Dil, not Dilcal g Paints	nalt lass and pi ng greases. Ind timber and laco pecified ramed and re specified paste, and where spec struments where spec elsewhere oods	oture frames products. goods, not of unframed, other adhesified and mater flied specified. specified. where specified.	8 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and shi Pens, fou Perfume Petroleu Phonogra Photogra Pickles, Plumber specific Poultry, done i packin Printing Printing Refrigera Regalla,	elling intain and ry and cosm, refining aphs and g phic appar phic mate preserves, s s' supplic d killing an n slaughte g establish and publi materials and soci	oasting, cloan stylographic. notics. raphophones. ratus. rials and sauces. s, not elsew ad dressing, aring and m ments. shing, music. ety badges	1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 and	Roofing mate Rubber tires goods, not ex- saddlery and Safes and van Shirts	studes, and steam to the condition of th	ecified s	3 1 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Stereot Stoves Surgice Suspen wove Theatr Tinwa Tools, Umbro Uphols when Varnis Vinege Windo	typing and hal applicates, and so re, no not elbellas at stering e specification and the stering e specification and the stering e specification and the stering e specification and the stering end end the stering end end the stering end end the stering end end end end end end end end end end	and elot-air fiances. garte: lances. garte: lenery. t elsow sewher id cand mate ified cider d do	rs, and here specific	elastic	3 1 4 3 1 1 1 3
13, 200 51, 181 8, 682 18, 522 99, 793 3, 491	40, 377 17, 786 388, 684 711	29, 761 65, 334 342, 837 114, 552 195, 604 621, 020 26, 563	54, 793 280 50 2, 242	. 1,096 8,343 12,648 7,052 3,920 16,300	1, 454, 548 247 736 12, 342 15, 068 68, 590 556, 954 402	32, 445, 427 37, 064 37, 704 1, 457, 075 582, 739 930, 378 2, 695, 307 81, 825	906, 065 1, 035 2, 578 9, 753 21, 432 6, 553 44, 894 574	2,020,617 912,518 1,565,460 5,550,754	17, 345, 706 40, 614 124, 657 553, 789 308, 347 619, 529 2, 810, 553 31, 577	13,591 35 41 358 152 109 908 57	100 5	395	234		8, 194 35 41 258 147 109 305 35	677	1 2 3 4 5 6 7
14, 565 126, 389 53, 085 24, 400	111,375 21,285 21,112	62, 764 585, 762	635	2, 229 1, 080 20, 412 8, 502	1, 133 98, 439 23, 611 7, 843	123, 829 15, 503, 014 231, 981 185, 752	910 176, 828 21, 294 3, 831	226, 788	102,049 3,426,997 456,281 242,910	4,353 382 280	125		42 50		35 3 4,228 340 230		. 1
49,685	40,660	197, 445		. 12,065	14, 497	257, 864	7, 151	761, 536	496, 521	113		· ·····		· ·····	113		. 1

⁸ Same number reported for one or more other months.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

=		11																STRIES
ļ					PERSO	NS ENG	AGED	IN THE I	NDUSTRY				WAGE NEARES	EARNER T REPRES	S DEC.	15, c	OR DAY,	
		nts.			Sala-	Clerks	s, etc.		Wage e	arner	s.			16 and	over.	Undo	er 16.	
	INDUSTRY AND CITY.	establishments		Pro-	ried offi- cers,				Numbe	er, 15t	h day	of						
	INDUSTRI AND CITI.	stabli	Total.	tors and firm	super- in- tend-		773-	Aver-					Total.					Capital,
		ا ت ا		mem- bers.	ents, and man-	Male.	Fe- male.	age num- ber.	Maxim: month		Minin		ļ	Male.	Fe- male.	Male	Fe- male	
		Number			agers.													
	CITIES OF 50,000 INHAI		NTS OR	MOR	E-AL	L IND	USTR	IES CO	MBINET) AN	D SP	ECIFI	ED IND	USTRIE	l ES—Co	ntinu	ed.]
	ST. JOSEPH—Continued.															1		
1	Printing and publishing, newspapers and periodicals.	13	297	7	29	54	40	167 166	 De	l			189	153	28	7	1	Dollars, 429,352
2 3	Printing, publishing, and job printing. Publishing without printing Saddlery and harness	7	289 8 /	3	27 2	54	39 1 3	1	(3)	1	Ja (³) Ja	154	188	152	28	7	1	426,027 3,325
4 5 6	Saddlery and harness. Tobacco, eigars. All other industries*	7 6 83	152 31 3,327	4 6 41	14 3 213	10 199	105	121 22 2,769	No De 4	134 23	Ja Mh 4	105 21	130 5 3, 039	123 2 1,987	6 3 1,044	1 5	3	505, 203 41, 025 9, 826, 549
-	*All other industries embrace	Brick	, building				2	Cars_ar	d gener	al sh	op cor	nstruct	ion F	ertilizers				
Bo	wnings, tents, and sails	Broom Butte Carpe	, building ns, from l rts, rag gesand w	oroom	corn	. .	. 2 . 3 . 1	panies Cars, st	pairs by eam-rail tions of r	stear road,	n-railr not i	oad cor neludir	n- 1 17	ood pre specified	paratio	ns,	not el	sewhere 4
.Bo	oxes, paper, shipping containers and set-up paper boxes	Carria Cars :	gesand w and gene repairs	agons, ral sh	includir op con electric	ig repai structio zrailros	rs 2	Coffee, 1	tions of r roasting a burial	ailroa ind gi cases	d com indin	panies. g	1 F	urniture, and will	, wood	, othe	ore at	ı rattan
-	boxés 2	com	panies			••••••	1	takers Druggis	roasting a burial 'goods ts' prepai	ration	s		. 1 4 G	nxtures.				2 ng 1
1	ST. LOUIS—All industries		135, 425	2,204	6,394	13,017	5, 891	107,919	De 116	,033	Mh 1	01,948	118,062	84,086	32,452	703	731	575, 937, 752
· 2 3 4	Artificial limbs	5 45 117	36 1,432 684	3 29 118	91 91	6 168	, 24	16 1,120	(3) De 1	16 ,338	(8) Fe	16 894	16 1,339	15 1,312	1 19	2	6	37, 297 2, 592, 558
5 6	Awnings, tents, and sails Bags, other than paper, not includ-	12	290 1,599	3 4	49 31 37	34 29 147	28 10 103	455 217 1,308	Se 4 Oc No 1	484 273 438	Jа Ja Mh	400 164 1,172	477 258 1,381	474 66 426	190 917	1 1 4	1 34	1,165,470 1,620,883 12,596,653
7 8	Artificial limbs. Automobile bodies and parts. Automobile repairing. Awnings, tents, and sails. Bags, other than paper, not including bags made in textile mills. Blacking, stains, and dressings. Bookbinding and blank-book making	10 27 7	53 574	13 31	3 30	5 14	4	28 486	Au Oc 4	39 516	Ja Fe	6 454	36 563	13 235	21 298	1 15	1 15	113,065
9 1 0	Boot and shoes cut stock. Boots and shoes, not including rubber boots and shoes.	27 27	1,898 11,662	3 2	84 249	1,107	170		No 1	,850 ,323	Ja Ja	1,303 9,060	1,727 10,372	235 1,248 5,836	463 4,390	13 80	66	672,189 12,582,161 31,105,951
11	Boxes, paper and other, not else- where specified.	33	2,318	8	112	109		2,016	il	2,252	Ja	1,831	2,189	il	1,243	9	50	3,817,380
12 13	boxes.	21 16	1,405	8	65 37	31		1 1	Ja 1 De	668	Se My	1,150 529	1,280	1,112	141	27	1	3,662,108 2,348,473
14 15	Bread and other bakery products Brick and tile, terra-cotta, and fire-clay products.	1	3,628 2,411	461	117 67	234 123	143	2,673 2,177	No 2 Oc 2	2,843 2,765	Ja Mh	2,505 1,380	2,848 2,376	1,816 2,367	946	22		2,348,473 7,885,656 11,613,797
16 17	Carriages and wagons, including repairs.	15 45	154 713	12 48	17	25			De	137	Jа.	114	140 642	138 637	1 5	1		80,277 2,032,445
18 19 20	Repair work only	21 24 11	603 110 2, 569	15 33		- 24 1 73		. 76	No De No 2	579 78 2,603	Fe Ap Ap	497 73 2,248	564 78 2,563	559 78 2,547	5 16			1,938,090 94,355 2,087,745
21 22 23 24	Cleansing and polishing preparations.	13 19 12	1,523 96	5 8 4 4	85 16	16	10	46		1,100	Mh	1,052*	1,078 43	858 27	214 15	4	2	7,427,746 135,145
23 24 25	ing propagations	7	68 28 4,922	62	1 -	6	3	12	Mh Oc	54 16	De Ja	26 7	30 13	21 6	9 6 3,473		1 46	94, 267 40, 878 13, 822, 493
26 27	Clothing, men's Regular factory products Men's, youths', and boys' All other	43 29 14	4,582 3,159	24 19	163 132	439 370	$176 \\ 122$	3,780 2,516	De 2	2,869 1,420	Λp	2,065 1,126	4,621 4,298 2,884 1,414	1,097 964 744	$\begin{vmatrix} 3,283 \\ 2,114 \end{vmatrix}$	5 3	46 23	13,759,619 10,259,713
26 27 28 29 30 31	Contract work. Men's and youths'	29 24	1,423 340 251	38 29 9	1 7	. 1	54	1,264 299 219	No I	1,420 237	My Oc	1,126 192	1,414 323 234	220 133 91	1,169 190 143	2		3,499,906 62,874 30,438
31 32 33 34	Contract work Men's and youths' All other Clothing, women's Suits, skirts, and cloaks Shirt waists and dresses, except	102 47	89 3,784	11 72	200	281	126	. 80 3,105	Se	102	De	64	3,251	603	$\frac{47}{2,617}$	3		32,436 6,201,422 3,186,402
	Shirt waists and dresses, except house dresses.	24		H	46	76	5 21	661	Se	1,475 732	Ja Ja	1,070 567	1,397 655	432 70	578	1	1	1,155,080
35 30 37	Wrappers and house dresses.	10 9 12	430 246	10	11	21	l 12	370		593 393 221	Ja. Mh Je	539 346 158	595 389 215	47 37 17	532 347 195	1	. 4	1,079,266 498,291 282,383 8,437,384
38 39	Coffee, roasting and grinding Coffins, burial cases, and undertakers' goods.	21 8	1,083 663	1	84 38	879 80	113	500 525	De Fe	524 561	Fe My	477 500	512 511	318 400	186 110	···i	8	2,227,612
40 41 42	Ice cream	21	2,540 2,156 384	18	74 38	149	3 46	1,805	No Jy	2,090 352	Jy Fe	1, 597 248	2,301 2,044 257	971 724 247	1,301	2	17	6,645,800 4,797,639 1,848,161
48 44 41	i Dental goods	115	782	108	61	16	3 8	548 563	No Oc	573 668 29	Jy Ja	527 471	578 650 29	541 636	10 2	27 12		1,536,504 2,451,444 69,006
46	B Druggists' preparations	12 30	782	5	62	123	3 60	532	Ìré	549 4,023	Jy Ja 4	29 499 3, 254	533 3,839	287	244	1	1	2,625,892 10,732,392
48 49	Electroplating	12 5		11 6			2	84	- 11	102 1	Ja. (3)	65 1	101	96	2	3		105,496 6,375
	1 Includes water wheels and turbine	s (irres	spective o	of own	archin c	faratar	eum nl	77\ 030 d 2							nina)			

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

CUTTER OF 50,805 INSLABITANTS OR MORR—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Constitued. Part	OMIDIT	1111111111														
Company Control Cont				EXPEN	ises,			-					POWER.			·
Correct Part Salı	ries and v	ages.		Rent aı	nd taxes.	For mat	erials.				Primary 1	ıorsepowe	er.	Elec-		
Contract Contract				For		m	· · · · · · · · · · · · · · · · · · ·			added by		Own	ed.		tric horse- power	
Deliver Deli	Officials.			contract		Federal, state, county, and	Principal materials.	rent of			Total.	en- gines (not tur- bines.	nal- com- bus- tion en-	ed.2	ated in estab- lish- ments report-	
Section 11,750 1,950 1		CITII	ES OF 50,00	O INELAI	BITANTS	OR MO	RE—ALL II	NDUSTRI	ES COMBIN	ED AND S	PECIFI	ED INDUST	RIES—C	ontinued.		
1		90, 358	117, 270	25, 257	5,652	60, 640	193,628	9,629	893, 733	690, 476	\\			111	••••	-
## ## ## ## ## ## ## ## ## ## ## ## ##	2,320	480		1	622	25	· ·		25, 398	24, 380						3
Matterses and spring beels, not obey where specified. Matterses and spring beels, not obey where specified. Matterses and spring beels, not obey where specified. Matterses and spring beels, not obey where specified. Matterses and spring beels, not obey where specified. Matterses and spring beels. Matterses and spring bee	29, 137 4, 550 604, 585		21, 172	20, 329	1,518	9,940	35,091	337	88,026	347, 571 52, 598 7, 041, 237	2]]	2	465	4 5 6
7, 88 14, 070 32, 613 3, 070 32, 613 3, 070 3, 081 37, 377 32, 381 3, 070 3, 081	menting. Hand stam Hats and co and wool ce, manufa	ps. aps, other i	than felt, str	aw, 3	Mattresse: where sp Millinery, frames Mineral an	s and sprin pecified trimmed	g beds, not el hats and l	se- nat 2 II 2 II 3 S	not elsewhere atent medicin aving materia hoto-engravin ickles and sau hirts.	specified es and comp lsg ces	ounds	1 fied 3 Structur 1 steel v 1 Trunks:	al ironw vorks or ro and valise and cider ymachines	ork, not polling mills.	nade in wringers.	1 3 2 2 1 1
28, 217				2,490,668							(l == ==	105,329 6, 885	4, 387	100 78,996	57, 419	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7, 830 257, 409 90, 660 107, 491 289, 217	161, 264 46, 881 46, 271	557, 010 205, 090	42, 335	3,096 61,068 77,923 29,847 41,978	178, 367 9, 393 52, 236	20, 312 4, 380, 253 565, 924 2, 489, 805 24, 313, 626	38, 493 27, 193 7, 122	108, 178 8, 326, 287 1, 788, 894 3, 315, 234 27, 970, 073	86, 887 3, 907, 541 1, 195, 777 818, 247 3, 624, 542	1,664 429 125		21	1, 160 408 125	375	3 4 5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	195, 967	27, 405	21,007 387,378 1,565,344 8,496,113		23, 578	6,623 109,676	360, 917 26, 181, 553	12,794 294,230	281,096 1,160,813 28,696,415		227 1,309	310		227 999		7 8 9 10
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			\	1	,	ļ		,	1		11	<u> </u>	1 .	1 '	11	\
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	174, 395 326, 125	119,663 562,116	634, 220 2, 809, 989	4,488	6, 355 213, 836	248,626 303,940	5, 675, 771 12, 457, 059	103,044 334,199	8,051,089 21,047,650	2,272 274 8,256,392	840	753		840 1.908	397	ŀ
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7,063 125,668	7, 880 45, 480	79, 683 678, 173	9, 232	3, 443 28, 402	1,437 65,121		1,643 21,472		107, 500 1, 308, 892	43	275				16 17
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		256	130,041	7,973 1,259	8,139	1,504	80,788	5,876	275, 558	188,894	129			129	25	19
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	34,502	405, 595 37, 887 23, 166 14, 721	102, 193 27, 870	36	10, 620 6, 918	1, 036, 301 4, 736 4, 170 566	315, 941 265, 612	213, 035 3, 613 3, 263 350	11, 978, 475 550, 827 426, 714 124, 113	4, 983, 504 231, 273 157, 839 73, 434	70 65			70 65	1,000	21 22 23 24
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	126, 292	887, 492 173, 482 1, 200	1 1.957,052	1 245, 268	150, 682 104, 821 45, 861 11, 225	997, 543 669, 633 327, 910	12, 216, 408 8, 029, 021	1 27 579	21, 135, 292 20, 713, 017 14, 191, 025 6, 521, 992 422, 275	8, 821, 445 8, 428, 825 6, 124, 432 2, 304, 393 392, 620	1,344 816 528	II cio i		000	292 100 192	26 27 28
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	775,683 418,950	542, 464 233, 591	2, 762, 480	8,011	8, 221 3, 004 142, 621 71, 534	159 69 155, 204 59, 547	16,045 10,827,347 5,371,260	2, 155 43, 242 19, 286	II 122, 421	288, 309 104, 221 6, 544, 982 3, 178, 859 1, 395, 246	38 19 481 184			38 19 481 184 79		30 31 32
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1	1	22, 181 10, 940 8, 837 87, 374	44, 694 23, 757 13, 994 394, 523	1	6, 419 3, 785 5, 027 72, 317	2,959,610 1,648,008 810,599	989, 526 628, 692	103 58 57 2,022					35 36 37 38 39
		484,286 432,578 51,708 43,251 63,079 9,258 272,597 733,902	1,637,619 1,242,293 395,326 703,998 667,814 40,379 255,419	313 313 3,010	158, 985 134, 245 24, 740 10, 714 46, 812 3, 860 14, 068	960,756 939,228 21,528 185,393 69,624 1,511 78,252	7,292,116 5,539,760 1,752,356 2,453,272 1,849,271 178,437 1,689,538	143,364 86,344 57,020 16,906 23,949 713 16,649	13,432,819 10,424,005 3,008,814 4,096,704 3,602,110 324,653 3,526,348		11 '			1,360 862 498 225 520 10	949 703 246 45	40 41 42 43 44 . 44
		2,016 524	102,269 1,128		8 578	711	73,188	6,825 85	251, 583 17, 703			<u> </u>	<u> </u> -			. 48

⁸ Same number reported throughout the year.
4 Same number reported for one or more other months.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

				PERSO	ns en	3AGED	IN THE	INDUSTRY.		WAGE NEARES	EARNE T REPRE	RS DEC	. 15, TIVE	OR DAY.	
				Sala-	Clerk	s, etc.		Wage earne	ers.		16 and	over.	Und	er 16.	<u>'</u>
INDUSTRY AND CITY.	Num- ber of estab-		Pro- prie-	ried offi- cers,				Number, 18	5th day of-						Capital.
	lish- ments	Total.		super- in-	Male.	Fe- male.	Average number.	Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	

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

	CITIES OF 50,000 INHAI	ATIE	TS OR	MORI	C-ALI	INDU	JSTRI	ES COM	(BINI	ED AN	ID SP	ECIFI	ED· IND	USTRIE	S—Co	ntinu	ed.	
	ST. LOUIS-Continued.																	
1	Engraving, steel and copper plate, including plate printing.	8	94	8	5	2	2	77	De	92	Ap 8	72	89	42	42	1	4	Dollars, 86,777
2 3 4	Envelopes. Flour-mill and gristmill products Food preparations, not elsewhere specified.	4 8 42	346 375 1,494	1 22	15 38 69	13 47 244	18 23 178	300 266 981	De Au My	338 288 1,272	Fe Mh & Au	273 253 613	333 267 1,245	129 267 504	191 	9	11 4	873,263 6,164,630 4,498,892
5 6 7	Foundry and machine-shop products Boiler shops Foundries	146 9 14	7, 528 611 1, 595	67 2 1	434 35 68	694 36 50	236 19 14	6,097 519 1,462	Ja De	587 1,746	My Mh	479 1,248 2,836	7,115 549 1,746	6,969 549 1,734	113	12	9	24,783,065 1,938,240 4,038,862
8 9 10	Machine shops Machine shop and foundry combined, Fur goods	118 5 6	4, 818 504 76	61 3 4	308 23 6	540 68	190 13	3,719 397 51	No Ja No	4,873 530 69	Ja My Ap	2,830	4,464 356 66	4, 334 352 23	113 	8 4	9	15, 856, 260 2, 949, 703 383, 112
11 12 13	Furnishing goods, men's Furniture	9 59 36	420 3, 469 1, 588	6 18 9	18 204 94	59 253 65	22 98 27	315 2,896 1,393	No No De	407 1,488	Fe Fe	255 1,306	400 4,110 1,487	3,832 1,353	337 255 126	6 18 8	1Î 5	1,141,789 8,603,432 3,247,716
14	tan and willow. Metal furniture, and store and	23	1,881	9	110	188	71	1,503	De	1,623	Ja	1,372	2,623	2,479	129	10	5	5, 355, 716
15	office fixtures. Grease and tallow, not including lubricating greases.	4	73	3	8	1	1	65	Ja	78	Oc 8	56	59	59		••••		163,637
16	Hats and caps, other than felt, straw,	17	427	18	31	54	40	284	No	343	Fe	253	339	114	221	1	3	681,288
17	House-furnishing goods, not else- where specified.	6	34	6	8	2	3	20	Oc 3	24	Ja 3	16	26	17	9		••••	72,995
18 19	Ice, manufactured Iron and steel, tempering and welding Jewelry	8 9	330 75	$\left \begin{array}{c}1\\7\end{array}\right $	33 8	16 11	3 4	277 45	Au Oc	329 48	De 3	229 43	279 43	279 42		···i		5,652,780 101,962
20 21	Leather goods, not elsewhere specified	19 8 7	357 126	22 4	19 13 82	19 11	22 5	275 93	De No	288 103	Jу Му	267 83	292 101	238 51	40 47	12 2	2	542,010 299,995
22 23 24	Liquors, malt'. Lithographing. Lumber, planing-mill products, not i neluding planing mills connected	7 11 43	3, 136 278 2, 217	8 19	20 111	444 47 93	36 16 34	2,574 187 1,960	Au De Jy	3,000 195 2,083	No Ja Fe	2,092 176 1,741	2,827 176 2,086	2,769 134 2,005	58 33 61	6 16	3 4	41,525,120 694,737 5,881,831
25 26	with sawmills. Marble and stone work. Mattresses and spring beds, not elsewhere specified.	35 11	350 179	24 3	53 17	20 21	9 6	244 132	De 8 Oc	312 141	Jy Ja	167 118	109 139	108 116	1 23			1,069,608 439,426
27	Millinery and lace goods, not else- where specified.	30	1,520	15	80	77	79	1,269	Mh	1,366	Je	1,076	1,387	208	1,138	8	33	1,874,319
28 29	Mineral and carbonated waters Minerals and earths, ground or other- wise treated.	39 5	314 172	34 3	31 8	57 4	18 1	174 156	Au No	234 218	Ja Ap	136 121	161 151	154 147	7			698,888 841,954
30	Models and patterns, not including paper patterns.	20	186	22	7	11	3	143	No	154	Ja.	135	153	153		••••	••••	167,484
31	Ofeomargarine and other butter sub- stitutes.	4	296		11	67	21	197	No	229	Je	173	209	142	67		••••	1,421,256
32 33 34 35	Paints. Patent medicines and compounds. Patent and proprietary medicines Patent and proprietary compounds, not elsewhere specified.	18 95 71 24	796 1,675 1,472 203	3 49 31 18	56 164 138 26	147 316 256 60	66 211 183 28	524 935 864 71	No De	584 926 82	Ja Jy Je	443 781 63	557 998 915 83	504 353 299 54	53 608 579 29	12 12	25 25	4,326,484 6,887,278 6,397,319 489,959
36 37	Paring materials	9 18 13	213 275 219	1 12 4	23 17 28	12 30 23	118 10	177 98 154	Au ^a No No	249 103 172	Ja Au Ja	87 87 132	189 100 174	189 24 153	76	16	₂	358, 197 1, 065, 194 333, 409
38 39 40	Photo-engraving Pickles, preserves, and sauces Printing and publishing, book and job	235	4,988	175	15 328	58 569	274	338 3,642	Ĵe	412	Fe	290	350 4,058	144 2,703	204 1,243	93	19	2,441,439 9,433,066
41 42	Book publishing, with and with-	16	4,689 231	161 7	294 31	474 93	215 56	3, 545 44	De Ap 8	3, 957 60	Ja No a	3,329 11	3,963 35	2,635	1, 222	91	15	9,166,203 160,810
43 44	out printing. Linotype work and typesetting . Printing and publishing, newspapers and periodicals.	7 112	68 2,910	7 46	3 225	2 775	3 382	53 1, 482	De	58	Je	49	60 1,551	54 1,376	4 145	2 19	11	106,053 7,051,581
45 46	Printing and publishing Printing, publishing, and job printing.	13 23	1,744 865	9	112 47	494 186	180 114	957 509	De No	1,062 547	Ja Ja	875 463	1,013 522	960 409	39 98	7 11	7 4	4,398,907 2,080,213
47 48 49	Publishing without printing Saddlery and harness Sausage, not made in slaughtering and meat-packing establishments.	76 18 7	301 655 28	36 12 8	66 35 2	95 96 3	88 30 1	16 482 14	(4) De No		Ap Jy2	16 413 13	16 546 15	7 464 13	79 1	1 3 1		572,461 1,878,139 34,712
50 51 52 53 54 55	Shirts Show cases Signs and advertising novelties Slaughtering and meat packing Stoves and hot-air furnaces Structural ironwork, not made in	11 5 8 38 13 23	2,224 277 247 3,756 2,403 980	2 4 2 23 7	38 18 20 181 91 66	143 14 10 550 255 96	79 9 1 136 46 19	1,962 232 214 2,866 2,011 792	De Je No Ja De De	2, 184 271 268 3, 232 2, 306	Fo Ap Ja	1,866 187 169 2,683 1,668	2, 184 234 219 2, 915 2, 284 888	99 234 178 2,737 2,267 888	2, 024 38 172 15	3 6 2	60	
56 57	Steel works or rolling mills. Surgical appliances	13	160 985	8	16 41	10 30	51	792 75 897	Je a	895 79 1,018	Jas	719 69 830	76 1,024	35 652	40 351	1 14	7	457, 167
58 59 60 61	Tobacco manufactures. Tools, not elsewhere specified Trunks and vallses. Vinegar and cider.	168 13 8 4	3,868 426 854 32	167 11 1 1	94	476 15	7 23	3, 124 353 743	Ja De Oc	3, 587 453 819 32	Mh Je Ja	2, 591 296 669	3,318 346 781	1,701 331 667 19	1,557 8 109	12	48	12,446,811

I 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.

			EXPI	enses.							10-10-11	P	OWER.				
Sal	aries and	wages.		Renta	nd taxes.	For mat	erials.				Prin	nary h	orsepo	wer.			-
Officials.	Cierks,	Wage earners.	For contract work.	Rent of factory.	Taxes, Foderal, state, county, and local.	Principal materials,	Fueland rent of power.	Value of products,	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Ow Steam tur- bines	bus-	Wa- ter pow- er.1	Rent- ed.2	Elec- tric horse- power gener- ated in estab- lish- ments report- ing.	
	CIŢ	ES OF 50,0	00 INHA	BITANT	s or mo	RE-ALL II	NDUSTRI	ES COMBIN	ED AND S	PECIFI	ED IN:	DUST	RIES-	-Conti	nued.	!!	
Dollars. 22,969 53,530	Dollars. 3,082 117,625 86,303	Dollars. 66,379 211,836 310,426	Dollars. 2,100	Dollars. 4,876	Dollars. 763	Dollars. 56,442	Dollars. 851	Dollars, 188,695 1,307,650	Dollars. 131,402 714,767	30 394	245				30 149	150	1
156,955 289,182 1,574,595 153,538 289,712	309,441 1,368,172 100,278	7,491,627 577,204 2,059,121	14,324 11,655	6,120 66,860 160,253 20,022 9,628	36,689 208,319 1,349,740 377,537 409,554	584,282 11,460,135 12,335,827 11,639,515 1,182,173 2,355,668 7,365,828 735,846	52,280 79,368 588,318 32,520	12,928,163 15,239,112 31,309,271 2,924,409	1,415,748 2,823,917	2,105 2,280	1,710 1,169 2,210 190	1,650	25 54		395 1,086 7,681 1,024	20 318 1,055	3 4 5 6
22,695 96,030	78,100 1,091,533 98,261 14,730 447,253	4,396,836 458,466 58,193 241,131	2,669	120,355 10,248 13,435 14,762	377,537 409,554 512,296 50,353 14,015 16,239 188,435	7,365,828 735,846 208,854 1,591,451 7,194,392	32,520 332,479 168,732 54,587 1,426 2,760	6,395,372 19,850,703 2,138,787 515,968 2,540,760	1,709,716 3,707,225 12,316,143 1,348,354 305,688 946,558	1,214 2,278 5,088 3,015 28 40	520 1,500	1,650	47 7		1,758 3,541 1,358	244 811	5 6 7 8 9
260, 124 341, 573	447,253 475,529 123,487 352,042	2,948,981 1,371,169 1,577,812	1,122 1,122	94,034 61,898 32,136	71,138	2,513,680 4,680,712	1,426 2,760 107,784 36,128 71,656	2,540,760 13,958,300 5,415,128 8,543,172	6,656,124 2,865,320 3,790,804	5,913 2,842 3,071	3,755 2,505 1,250		40 40		2,118 337 1,781	607 390 217	11 12 13 14
8,180 76,463 4,120	780 47,405 3,850	66,220 253,561 14,848	600	20,546 1,796	1,992 2,745 829	214,616 880,596 107,838	19,593 6,218 1,827	360, 135 1, 483, 510 190, 856	125,926 596,696 81,191	147 43 110	73	•••••			74 43 110		15 18 17
120,682 13,540 58,191 39,085 438,084 129,789 288,438	23,851 17,807 35,533 14,720 875,428 106,632 118,160	398,724 52,419 326,540 81,934 3,048,600 246,912 1,898,082	5,766 5,628 804	11,084 2,790 26,322 6,152 3,800 18,175 54,058	112,050 959 20,703 3,374 4,420,273 5,714 101,698	168,214 63,058 528,070 337,003 2,596,493 410,907 3,950,750	490,741 2,352 1,255 5,288 479,117 6,829 70,474	2,588,112 184,607 1,161,027 574,996 20,591,404 1,084,938 7,434,254	1,929,157 119,197 631,702 232,105 17,515,794 658,202 3,413,030	10,103 41 102 419 21,187 221 6,410	7,735 18,679 3,576	750 550	1,940		1,618 41 102 419 18 221 2,834	972 12,083 250	18 19 20 21 22 23 24
101,339 50,374 363,795	27,965 30,405 149,998	357,348 139,191 854,752	3,972 2,395	15,898 11,380 67,369	10,741 7,493 54,091	520,344 554,585 2,605,679	25,517 7,057 17,431	1,269,193 920,773	717,332 359,131	1,081 220	300	•••••	11		770 220	••••••	25 26
51,963 24,921 32,302	106,702 3,819 8,095	168,046 160,750 197,712	427	17,070 6,547 9,775	74, 158 5, 935	742,815 362,573 76,423	10,226 43,053 5,429	5,069,774 1,856,905 810,404 454,890	2,446,664 1,103,864 404,778 373,038	173 328 587 123	20 150 280	•••••			153 178 307	30	27 28 29
57,936 233,395	135,018 323,188	150,644	10,247 200	3,000	159,637	3,652,554	34,703	4, 414, 888	727,631	903	840	•••••			123 63	301	30 31
674, 739 602, 544 72, 195	715, 323 604, 917 110, 406	661, 100 782, 593 722, 093 60, 500	10, 342 10, 342	12, 692	143, 709 1, 436, 491 1, 423, 955 12, 536	7, 256, 201 4, 400, 114 4, 082, 076 318, 038	109, 167 33, 747 30, 552 3, 195	10, 864, 510 12, 575, 220 11, 808, 666 766, 554	3, 499, 142 8, 141, 359 7, 696, 038 445, 321	2, 292 749 644 105	1,720 265 265	•••••			572 484 379 105	944 103 103	32 33 34 35
51, 999 94, 229 60, 790 135, 450 1055, 170 78, 380	160, 638 60, 048 115, 971 , 051, 277 900, 150 149, 567	190, 370 59, 690 227, 210 252, 605 3, 958, 769 3, 848, 456 24, 798	1, 284 559, 769 194, 079 364, 590	5, 373 9, 046 17, 089 7, 500 249, 006 234, 589 11, 693	5, 942 27, 804 1, 834 38, 876 423, 180 419, 091 3, 556	40, 599 583, 460 112, 974 3, 986, 918 5, 512, 919 5, 422, 989 81, 446	44, 558 6, 033 5, 604 17, 865 121, 347 117, 967 471	465, 607 1, 886, 970 652, 236 4, 794, 168 16, 868, 498 15, 789, 304 930, 092	380, 450 1, 297, 477 533, 658 589, 385 11, 234, 232 10, 248, 348 848, 175	1, 357 103 109 359 3, 977 3, 945	760 820 820				597 103 109 359 3, 157 3, 125	150 150	36 37 38 39 40 41 42
1	1,580 ,745,670 ,087,744	85, 515 1, 972, 984 1, 295, 332	1, 100 535, 013	2,724 151,674	539 381, 604	8, 484 5, 112, 558	2, 909 85, 844	149, 102 13, 832, 301	137, 709 8, 633, 899	17 2,774	585				2, 189	267	43 44
085, 497 124, 317 151, 081 112, 913 8, 400	277, 419 169, 230	8,779 557,323	42, 753 30, 058 462, 202	68, 620 58, 454 24, 600	328, 486 42, 479 10, 639	3, 920, 917 1, 005, 862 185, 779	65, 438 20, 079	9, 331, 435 3, 047, 615 1, 453, 251	5, 345, 080 2, 021, 674 1, 267, 145	2, 124 649 1	550 35				1, 574 614 1	105 162	45 46 47
8, 400 215, 185 35, 640 57, 431 523, 419 419, 910	5, 200 450, 125 38, 298 13, 243	18, 294 1, 426, 765 244, 407 172, 933	8, 447	24,600 48,057 2,073 40,086 9,990 8,730	96, 940 668 132, 018 6, 886 17, 228 133, 110	185, 779 2, 543, 336 200, 817 5, 209, 808 445, 079	11, 005 2, 260 28, 052 12, 720 5, 658	1, 453, 251 4, 086, 496 263, 285 8, 686, 657 959, 810 639, 785	1, 267, 145 1, 532, 155 60, 208 3, 388, 797 502, 011 312, 881	216 89 890 563	81 660	125			212 8 105 563	469	48 49 50 51
211, 700	,067,920 702,808 173,520	3, 670, 295 2, 381, 935 962, 046	45, 583 26, 223 7, 959	24, 521 18, 804 17, 083	320, 324	5, 209, 808 445, 079 321, 246 87, 195, 782 5, 391, 045 1, 819, 256	409, 711 90, 559 51, 277	96, 044, 220 13, 569, 872 3, 745, 668	8, 438, 727 8, 088, 268 1, 875, 135	98 8,164 2,372 2,677	7,430 1,705 519	345			96 389 667 2, 158	3, 072 1, 092 285	52 53 54 55
60, 745 130, 304 231, 361 94, 017 96, 705 21, 067	74, 412 72, 022 732, 417 28, 468 146, 156 3, 142	672, 339 2, 438, 340 415, 891 739, 409 16, 553	745 347 240	5, 356 24, 060 20, 096 9, 855 40, 073 4, 344	17, 795 192, 372 1,682,690 14, 636 180, 871 7, 676	370, 784 1, 846, 894 25, 787, 944 444, 517 2, 074, 727 149, 319	2, 395 32, 107 136, 008 27, 496 22, 025 2, 233	983, 449 3, 531, 417 45, 947, 990 1, 162, 944 3, 725, 246 356, 846	610, 320 1, 652, 416 20, 024, 038 690, 931 1, 628, 494 205, 294	26 653 2,486 549 423 81	2,235 225 290				26 428 251 324 133 21	270 1,638 225	56 57 58 59 60 61
						umber report umber report								·			

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

					PERSO	NS EN	GAGED 1	IN THE I	NDUSTRY.		WAG NEARE	E EARNE ST REPRI	ERS DEC	. 15, o	R DAY.	
					Sala-	Clerk	s, etc.	,	Wage earners			16 and	over.	Unde	er 16.	
	INDUSTRY AND CITY.	Num- ber of estab- lish-		Pro- prie- tors	ried offi- cers, super-				Number, 1	5th day of—						Capital.
•		ments	Total.	and firm mem- bers.	in- tend- ents, and man- agers.	Male.	Fe- male.	Average number.	Maximum menth.	Minimum month.	Total.	Male.	Fe- male.	Male	Fe- male	
	CITIES OF 50,000 INHA	ВІТА	NTS OR	MOR	E-AL	L IND	USTRI	ES COM	BINED A	ND SPECIF	IĖD IN	DUSTR	IES-C	ontin	ied.	
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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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			For		Taxes.			Value of products.	Value added by manufac-			Own	ed.			tric horse- power	
Officials.	Clerks, etc.	Wago earners.	contract work.	Rent of factory.	Federal, state, county, and local.	Principal materials.	Fuel and rent of power.		ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	gener- ated in estab- lish- ments report- ing.	1
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361,071 108,018 144,855 530,432	484,096 190,349 188,005 345,735	1,580,512 431,413 1,328,690 2,960,317	24,112 4,456 30,257	55,100 11,652 20,208 42,145	323, 108 59, 964 76, 709 287, 057	9, 275, 404 3, 158, 217 3, 366, 261 12, 216, 558	338, 671 94, 497 121, 697 380, 126	14, 219, 935 4, 496, 894 5, 561, 865 18, 812, 549	4,605,860 1,244,180 2,073,907 6,215,865	4,719 1,250 3,099 6,423	1,104 800 1,651 2,932	Б	23		3,275 450 1,425 3,360	173 247 50 967	7 8 9 10

³ Same number reported for one or more other months.

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DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES MANUFACTURES: 1919

MONTANA

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

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WASHINGTON
GOVERNMENT PRINTING OFFICE

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 hearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the

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 night 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.

of products.

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

Gomparisons with previous consuses,—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 consuses. At the census of 1809 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. ment 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.

influential the figures fall 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, olerks, 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 carlier 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 16th 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 employees of this class does not ordinarily vary much from month to month. In the max 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 of wage earners of the year has been calculated by dividing the sum of the number of wage earners for the year has been calculated by dividing the sum of 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

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 earner for the year in that industry to determine the average numbers 19 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 earlier country. entire country.

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 soxes, of all ages, and of widely varying degrees of still. 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.

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:

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 realed, 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 outcoprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The date 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 Tederal taxes and state, county, and local taxes. Under "Tederal 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.

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, factory measure 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. Cost of manufacture."

Ost of manufacture and profits.—The census data do not show the entirecest 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 building other than factory or works, insurance, ordinary repairs, advertising, and other sunday appears. sundry expenses.

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

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

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MONTANA.

GENERAL STATISTICS.

General character of the state.—Montana has a gross area of 146,997 square miles, of which 146,131 represent land surface. The inhabitants of the state in 1900 numbered 243,329; in 1910, 376,053; and in 1920, 548,889. In total population Montana ranked thirty-ninth among the states in 1920. The average number of inhabitants per square mile in 1910 was 2.6, the corresponding figures being 3.8 for 1920.

In 1920 there were six cities in the state—Anaconda, Billings, Butte, Great Falls, Helena, and Missoula—having more than 10,000 inhabitants. The cities, with an aggregate population of 117,205, formed 21.4 per cent of the total population for Montana in that year, and in 1919 reported 15.7 per cent of the value of the state's manufactured products.

Importance and growth of manufactures (Table 1).— The large increases in wages, cost of materials, and the value of products, as presented in this table, are principally due to the change in industrial conditions brought about by the World War, and therefore can not properly be used to measure the growth of manufactures during the census period 1914 to 1919. However, the increases in average number of wage earners and horsepower evidence the growth of the manufacturing activities of the state.

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for previous censuses with those for 1919. Separate data for Deer Lodge, Lewis and Clark, and Treasure Counties can not be shown without the possibility of disclosing the operations of individual establishments.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is often misleading as to their real importance from a manufacturing standpoint. For instance, of the industries shown in this table, flour-mill and grist-mill products ranked first in value of products, sixth in average number of wage earners, and fourth in value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 27.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table

are those which employed more than 130 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).—Increases are shown in practically all of the details for the six cities from 1914 to 1919.

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

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, for selected industries, similar data are given for males and females for all industries combined for the state and for each city having 10,000 inhabitants or more. There were few industries in the state in 1919 where the number of female wage earners predominated.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in Montana. In that year 18.6 per cent of the wage earners were included in the group "48 and under," as against 57.9 per cent in 1919. In 1914 the "60" and "over 60" groups constituted 20.5 per cent of the total wage earners, as compared with 11.3 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 97.5 per cent were in the several classes having less than 101 wage earners, while such establishments employed but 34.4 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at \$100,000 to \$1,000,000 constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for 1909 and in the case of average number of wage earners and value added by manufacture for 1914.

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

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

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations controlled but 27.4 per cent of the number of establishments in the state in 1919, they reported 86.5 per cent of the average number of wage earners and 92.1 per cent of the total value of products. During the five-year period 1914 to 1919 the average number of wage earners in corporations increased 2,660, or 21.8 per cent, and the value of products \$74,170,685, or 93.5 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the number of establishments in these six cities in 1919 represented but 29.5 per cent of the total in the state. They reported in that year 25.5 per cent of the wage earners and 15.7 per cent of the value of products.

Number and horsepower of types of prime movers (Table 16).—The total horsepower shows an increase of 78,535, or 85.7 per cent, from 1914 to 1919. The increase for rented power was much greater than that for owned power, being 74,114 horsepower, or 266.6 per cent, as compared with 4,421 horsepower, or 6.9 per cent, for owned power.

Fuel consumed (Table 17).—This table shows the quantity of the 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 the quantity of fuel used in the six cities. Decreases are shown in all kinds of fuel from 1914 to 1919, except in gas.

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

	1 - 1 - 1 - 1	MANUE	ACTURING INF	OUSTRIES.		PEI	CENT OF	INCREASE	2.1
	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904- 1900	1899- 1904
Number of establishments	1,290	. 939	677	382	395	37. 4	38.7	77.2	-3, 3
Persons engaged. Proprietors and firm members. Salvried employees. Wage earners (average number).	20,692 1,200 2,332 17,160	16,363 832 1,827 13,704	13,694 659 1,380 11,655	10, 198 334 905 8, 957	(2) (2) 508 9,854	26. 5 44. 2 27. 6 25. 2	19 5 26.3 32.4 17.6	34. 3 97. 3 52. 5 30. 1	78.1 —9.1
Primary horsepower	170,206 \$137,476,277	91,671 \$79,246,396	90,402 \$44,588,368	46,736 \$52,589,810	43,679 \$38,224,915	85.7 73.5	1. 4 77. 7	93. 4 15. 2	7. 0 37. 6
Salaries and wages	29, 484, 017	15,779,858 2,778,653 13,001,205	12,955,474 2,054,022 10,901,452	10,158,425 1,506,208 8,652,217	8, 162, 559 785, 737 7, 376, 822	86. 8 70. 6 90. 3	21. 8 35. 3 19. 3	27. 5 36. 4 26. 0	24. (01. 7 17. 3
Paid for contract work Rent and taxes. Cost of materials Value of products L Value added by manufacture 1.	555, 842 2, 212, 765 122, 151, 924 166, 664, 518 44, 512, 594	789, 361 1,597,778 46,743,986 84,446,136 37,702,150	322,110 2,307,144 49,180,239 73,271,793 24,091,554	224,330 3 1,677,872 40,930,060 66,415,452 25,485,392	(2) (2) 30 068, 101 52, 744, 997 22, 676, 896	29. 6 38. 5 161. 3 97. 4 18. 1	145. 1 30. 7 5. 0 15. 3 56. 5	20. 2 10. 3 —5. 5	25.9

¹ A minus sign (—) denotes decrease. ² Figures not available.

xclusive of internal revenue. Value of products less cost of materials.

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

	Num- ber of	WAGE	EARNEE9.	Don't and	0-4-1		Value added	Primary
COUNTY.	estab- lish- ments.	Average number.	Wages.	Rent and taxes.	Cost of materials.	Value of products.	by manufacture.	horse- power.
The state	1,290	17,160	\$24,742,562	\$2,212,765	\$122,151,924	\$166,664,518	\$44 , 5 12 , 594	170,206
Beaverhead	23 22 10 5 47	61 22 14 16 146	78, 661 28, 966 15, 902 18, 621 231, 502	12,722 4,948 2,679 12,733 19,059	147,062 66,159 118,924 621,488 306,847	343,181 148,733 163,011 771,103 761,218	196,119 82,574 44,087 149,615 454,371	219 109 179 150 562
Carter Cascado Chouteau Custer	11 86 10 19 11	2, 129 12 682 205	10,594 8,124,539 15,947 1,078,738 334,466	969 349,212 2,916 14,261 9,929	20,624 53,625,907 97,103 883,157 309,985	52,523 59,443,547 110,252 2,209,804 706,126	31,899 5,817,640 43,149 1,326,647 396,141	52,619 163 760 172
Fallon: Fergus Fighead Gallatin Garfeid	8 84 64 55 5	319 1,248 236 3	9,621 487,610 1,368,596 406,493 4,500	5,999 41,696 118,045 74,017 420	66,970 943,510 1,814,153 3,190,673 13,774	126,132 1,802,493 4,286,317 4,368,359 33,770	59,162 \$58,983 2,472,164 1,177,686 19,996	62 2,510 3,573 5,407 43
Glacier	4 9 25 10 3	2 17 414 48 1	4, 485 20, 738 620, 476 52, 437 625	2,695 3,677 21,906 2,718 728	12,983 46,477 363,940 71,554 6,627	29,882 131,081 1,060,142 150,469 14,110	16,899 85,504 696,202 78,915 7,483	54 104 620 226 30
Lincoln	117	1,008 3 17 43 167	1,457,960 2,758 21,316 53,284 233,850	140,911 492 4,381 1,757 3,664	1,292,429 45,050 38,005 21,933 50,103	3,798,067 61,305 89,244 105,204 332,246	2,505,638 16,255 50,339 83,271 282,143	6,944 51 306 255 706
Missoula Missoula Missolsholl. Park Phillips. Poudera.	61 42 46 13 7	1,888 135 741 98 4	2,516,975 196,533 832,845 102,605 4,764	122,985 10,357 34,770 8,726 1,477	3,271,629 310,309 766,319 64,144 17,090	6,857,815 625,645 1,856,050 203,229 40,488	3,580,186 315,336 1,089,731 139,085 23,398	4,493 441 1,953 160 17
Powder River	15 4	440 6 124 41	4,396 813,409 5,972 132,375 46,147	357 2,892 747 5,352 9,220	19,064 252,302 13,328 430,827 709,354	30, 654 1, 180, 626 27, 738 699, 916 847, 965	11,590 928,324 14,410 269,089 138,611	70 1,104 17 490 305
Rossevelt Rosebud Sanders Sheridau Silver Bow	15 22 30	39 63 192 182 1,238	49,961 106,921 235,291 207,314 1,717,471	19,543 4,920 5,070 11,669 183,405	795, 911 425, 544 526, 280 255, 460 9, 808, 493	940, 849 778, 996 894, 830 542, 809 13, 979, 782	144,938 353,452 368,544 287,349 4,171,289	415 202 524 359 5,785
Stillwater Sweet Grass	16 9 5	19 24 147 3 35	30,400 31,323 154,686 4,200 43,743	2,408 3,257 4,922 658 7,688	34,041 72,941 104,347 11,827 301,584	93, 153 135, 212 283, 826 25, 912 412, 614	59, 112 62, 271 179, 479 14, 085 111, 030	139 123 127 12 230
Wheatland Wibaux Yellowstone. ,All other counties ¹	15 3 105 83	173 4 1,184 3,445	277,778 6,040 1,681,864 5,856,804	22,900 1,567 382,261 513,071	1, 131, 185 7, 761 5, 514, 117 33, 131, 724	1,430,565 21,294 9,064,815 44,560,516	299, 380 13, 533 3,550, 698 11,428, 792	519 6 5,674 70,892

¹ All other counties include Deer Lodge, Lewis and Clark, and Treasure.

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

	establish-	WAG EARN)		VALUE PRODU		VAL ADDEI MANU TUR	FAC-		of establish- tents.	WAG EARNI		VALUE PRODUC		VALU ADDED MANUF TURI	BY AC-
industry.	Number of e ments.	Average. number.	Per cent dis- tribution.	Amount (expressed in thousands).	Per cent dis- tribution.	Amount (expressed in thousands).	Per cent dis- tribution.	industry.	Number of men	Average number.	Per cent dis- tribution.	Amount (expressed in thousands).	Per cent dis- tribution.	Amount (expressed in thousands).	Per cent dis- tribution.
All industries Flour-mill and gristmill products. Lumber and timber products. Cars and general shop construction and repairs by steam-railroad companies. Slaughtering and meat packing. Butter.	30	360 3,693	100. 0 2, 1 21. 5 31. 0 1. 2 1, 1	\$166, 665 16, 386 10, 992 10, 957 6, 859 4, 219	100. 0 9. 8 6. 6 6. 6 4. 1 2. 5	\$44, 513 2, 294 7, 785 8, 067 1, 035 756	100. 0 5. 2 17. 5 18. 1 2. 3 1. 7	Lumber, planing-mill products, not including planing mills connected with sawmills Printing and publishing, book and job. Confectionery and icc cream. Copper, tin, and sheet-iron work. Brick. Gas, illuminating and heating.	22	176 182 134 70 145 63	1.1 0.8 0.4 0.8 0.4	\$1, 205 850 810 565 505 487	0. 7 0. 5 0. 5 0. 3 0. 3 0. 3	\$426 573 358 272 305 290	1, 0 1, 3 0, 8 0, 6 0, 7 0, 6
Batter. Pinting and publishing, nowspapers and periodicals. Bread and other bakery products. Automobile repairing. Foundry and machine-shop products.	225 119 255 22	829 384 520 359	4.8 2.2 3.0 2.1	3,913 3,124 2,039 1,495	2.4 1.9 1.2 0.9	2, 863 1, 190 1, 434 923	6.4 2.7 3.2 2.1	Mineral and carbonated waters. Liquors, cereal boverages. Saddlery and harness. All other industries 1	31 7 11 166	48 46 36 4, 403	0.3 0.3 0.2 25.7	377 355 319 101, 208	0. 2 0. 2 0. 2 60. 7	180 221 114 15, 427	0. 4 0. 5 0. 3 34. 7

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: Brass, bronze, and copper products; cement; explosives; smelting and refining, copper; smelting, lead; and sugar, beet.

MANUFACTURES—MONTANA.

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

:	Cen-			Fe-	PER (CLASS.	Cen-	Total.	Male.	Fe-	PER OF TO	CENT TAL,
CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.	GUAGS.	year.	TOTAL.	Maio.	male.	Male.	Fe- male.
All classes	1919 1914 1909	20,692 16,363 13,694	19,664 15,820 13,387	1,028 543 307	95.0 96.7 97.8	5.0 3.3 2.2	Clerks and other subordinate sala- ried employees.	1919 1914 1909	1,509 1,307 896	1,096 1,133 796	413 174 100	72.6 86.7 88.8	13.8
Proprietors and officials	1919 1914 1909	2,023 1,352 1,143	1,962 1,313 1,126	61 39 17	97.0 97.1 98.5	3.0 2.9 1.5	Wage earners (average number)	1919 1914 1909	17,160 13,704 11,655	16,608 13,374 11,465	552 330 190	96.8 97.6 98.4	2.4
Proprietors and firm members	1919 1914 1909	1,200 832 059	1,161 799 645	39 33 14	96.8 96.0 97.9	3.2 4.0 2.1	16 years of age and over	1919 1914 1909	17,096 13,641 11,625	16,545 13,323 11,436	551 318 189	96.8 97.7 98.4	2.3
Salaried officers of corporations	1919 1914 1909	184 129 89	178 124 88	6 5 1	96.7 96.1 98.9	3.3 3.9 1.1	Under 16 years of age	1919 1914 1909	64 63 30	63 51 29	1 12 1	98.4 81.0 96.7	19.0
Superintendents and managers	1919 1914 1909	639 391 395	623 390 393	16 1 2	97.5 99.7 99.5	2.5 0.3 0.5							

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

and the second of the second o							
			PER CE	NT OF T	OTAL.	PER CENT OF T	IATOT
industry.	Cen- sus year.	Wage earners (aver- age num-	16 years		Un- der 16	Cen- sus year. Wage carners 16 years of age and over. 16 years of age and over.	Ui de
		ber).	Male.	Fe- male.	years of age.	ber). Male. Fe-male.	yes o ag
All industries.	1919 1914 1909	17,160 13,704 11,655	96.4 97.2 98.1	3.2 2.3 1.6	0.4 0.5 0.3	Foundry and machine-shop products 1	
Automobile repairing	1919 1914	520 18	100.0 100.0			Lumber and timber products. 1919 3,693 99.7 0.2 1914 2,873 99.9 0.1 Lumber, planing-mill products, not included 1919 176 98.9 1.1	1
Bread and other bakery products	1919 1914	384 274	67.2 67.9	32.3 24.1	0.5 8.0	ing planing mills connected with sawmills 1914 92 97.8 1.1 Printing and publishing, book and job 1919 182 78.6 21.4	i
Brick	1919 1914	145 191	99.3 99.0	0.7	1.0	1914 116 77.6 19.8 Printing and publishing, newspapers and 1919 829 83.7 9.7	7
Butter	1919 1914 1919	190 71	87.9 91.5 98.3	12.1 8.5		periodicals. 1914 784 86.9 11.0	2
Cars and general shop construction and repairs by steam-railroad companies. Confectionery and ice cream	1919	5,312 3,611	99. 9 41. 8	56.7	0.1	All other industries 1919 4,608 98.0 1.9	9
Flour-mill and gristmill products	1914 1919 1914	130 360	31.5 98.3	67.7 1.7 1.2	0.8		

¹ Includes "iron and steel, welding."

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.

		AVER	AGE NUA	IBER OF	WAGE E	arners	in man	UFACTU	RING I	dustri	ES.				
Alma-		Total			16 ye	ars of age	and ov	er.		Une	ier 16 y	ears	AYLı	JE OF PRODUC	CTS.
CIFT.	CITY. Total,				Male.			Female.		 	of age.				
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1009
Anaconda Billings Butte Great Falls Holenn Missoula	272 573 930 1,157 539 908	251 329 659 1 706 495 447	97 226 622 420 428	265 537 772 1,107 449 873	239 305 550 1 687 400 432	88 212 558 360 428	7 31 110 49 89 35	8 20 101 1 19 72 8	8 10 59 60	5 48 1 1	4 4 8 23 7	1 4 5	\$1, 340, 695 5, 417, 140 5, 261, 592 6, 850, 837 3, 016, 238 4, 296, 371	\$753, 516 1, 633, 741 2, 900, 495 1 3, 382, 094 1, 481, 932 1, 112, 792	2, 463, 780

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

² Less than one-tenth of 1 per cent.

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

MONTH,		NUMBER.1		PER CEI	NT OF MA	XIMUM,	MONTH.		NUMBER,1		PER CE	NT OF MA	AXIMUM.
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January February Aarch April May June June Mare May June May May May May May May May May May May	16,239 17,062	14, 260 13, 154 13, 187 14, 395 15, 172 15, 280	10,873 10,772 10,900 10,874 11,202 11,195	96. 2 92. 7 91. 1 89. 1 93. 6 97. 2	91. 0 83. 9 84. 1 91. 8 96. 8 97. 5	83. 0 82. 8 86. 0	July	16,906 16,973 17,421	15, 677 13, 232 12, 386 12, 920 12, 368 12, 417	11,550 11,841 12,435 13,127 12,996 12,003	96. 3 92. 7 93. 1 95. 6 100. 0 92. 1	100. 0 84. 4 79. 0 82. 4 78. 9 79. 2	88. 0 90. 2 94. 7 100. 0 99. 0 91. 4

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,

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.]

	Aver- age num-		UMBER	EMPLOYI	ED ON 18	TH DAY	OF THE	MONTH	ÖR NEAR	EST REP	RESENTA	TIVE DA	Υ.	Per
INDUSTRY AND CITY.	ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August	Sep- tember.	Octo- ber.	November.	December.	mini- mum is of maxi- mum.
All industries. Males. Famales.	552	17, 539 17, 016 523	16, 890 16, 389 501	16,603 16,113 490	16, 239 15, 719 520	17, 062 16, 529 533	17, 719 17, 187 532	17, 554 16, 972 582	16, 906 16, 326 580	16, 973 16, 413 560	17, 421 16, 810 611	18, 228 17, 584 644	16, 786 16, 238 548	89, 1 89, 4 76, 1
Automobile repairing Bread and other bakery products Brick Brick Catsand general shop construction and repairs by	520 384 145 190	413 382 76 134	426 <i>369</i> 68 136	448 809 104 146	500 378 161 181	556 392 191 205	603 386 225 236	623 395 261 238	621 401 195 232	593 390 137 218	527 384 138 200	471 387 118 180	459 375 66 174	66. 3 92. 0 25. 3 56. 3
Steam-railroad companies.	5, 312	5, 317	5, 388	5, 116	5,043	5, 135	5, 139	5, 130	5, 309	5, 393	5, 583	5, 662	5, 529	89, 1
Confectionery and ice cream. Flour-mill and gristmill products. Flouring and machine-shop products. Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with sawmills.	134 360 359 3,693	107 397 446 3,489	115 399 422 3, 677	119 405 414 3, 449	127 398 385 3, 128	128 361 386 3,601	-133 347 383 3,899	138 244 391 3, 613	144 327 267 3, 634	146 348 <i>267</i> 3,771	153 356 269 4,001	147 368 394 4,071	151 370 284 3, 983	69. 9 60. 2 59. 9 76. 8
	176 182	130 180	132	129	151	169	202	210	213	213	195	192	176	60.6
Printing and publishing, book and job Printing and publishing, newspapers and periodicals	829	801	799	181 809	183	179	181	182	181	183	183	186	188	94.1
Slaughtering and meat packing	210 4,666	219 5, 448	217 4, 565	207 4, 707	829 204 4, 571	831 203 4, 725	836 209 4, 940	843 222 5, 064	829 222 4, 331	830 210 4, 274	840 216 4, 376	861 198 4, 993	840 193 3, 998	92, 8 86, 9 73, 4
Industries showing large proportion of females. Bread and other bakery products	-0-											•		İ
Cassand general shop construction and repairs by	125 23 80	127 22 121	117 17	113	121 21	132 29	124 28	131 27	132 27	126 24	127 22	129 20	121 21	85. 6 58. 6
Printing and publishing, book and job	76 39	56 36	66 38	98 67 38	92 72 45	85 71 38	. 73 38	80 74 39	81 78 40	82 83 40	82 93 40	80 88 37	80 91 39	66.1 60.2 80,0
cals	80	73	75	71	77	81	82	87	81	82	84	85	82	81.6
Total for cities	4, 379 4, 058 321	4, 332 4, 022 310	4, 286 3, 980 300	4, 193 3, 898 295	4, 315 4, 003 312	4, 282 3, 958 324	4, 383 4, 065 318	4, 427 4, 108 319	4, 508 4, 179 329	4, 435 4, 105 330	4, 526 4, 190 336	4, 523 4, 181 342	4, 338 4, 001 337	92.6 93.0
ANACONDA. Males. Females.	272 205 7	328 321 7	319 312 7	312 305 7	298 291 7	311 304 7	301 294 7	282 275 7	246 239 7	210 203 7	223 216 7	250 243 7	184 177	56.1 55,1
BILINGS. Males. Females.	573 542 31	513 485 30	521 494 27	525 497 28	543 514 29	574 545 29	594 565 29	626 597 29	616 581 35	612 581 31	597 565 32	592 555 37	563 527	81. 9 80. 9
BUTTE Males Females	930 820 110	899 791 108	875 768 107	892 791 101	928 820 108	909 802 107	929 822 107	971 870 101	950 844 106	960 842 118	957 840 117	964 843 121	926 807	73.0 90.1 88.3
GREAT FALLS. Males. Females.	1, 157 1, 108 49	1, 275 1, 232 43	1, 229 1, 188 41	1, 107 1, 065 42	1, 155 1, 112 43	1,054 1,007 47	1, 111 1, 058 53	1, 079 1, 027 52	1, 153 1, 101 52	1, 128 1, 075 53	1, 202 1, 147 55	1, 215 1, 161	1,176 1,123	83.5 82.7 81.7
HELENA. Males. Females.	539 450 89	528 438 90	527 440 87	523 441 82	537 447 90	551 455 96	539 454 85	540 448 92	552 462 90	541 457 84	546 455 91	54 534 443 91	53 550 460	74.5 94.7 94.8
Missoula Males Famales	908 873 35	789 757 32	815 784 31	834 799 35	854 819 35	883 845 38	909 872 37	929 891 38	991 952 39	984 947 37	1,001 967 34	968 936 32	90 939 907 32	78.8 78.3 79.5

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

	Census		IN EST	ablishmen	TS WHERE	THE PREV	AILING HO	OURS OF LA	BOR PER	WEEK
INDUSTRY AND CITY.	year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries	1919 1914 1909	17, 160 13, 704 11, 655	272 (2) (2)	2, 056 (²) (²)	7,603 2,552 1,607	216 2, 598 154	1, 358 2, 531 3, 285	3, 719 3, 220 4, 195	1, 390 2, 429 1, 966	540 374 448
Automobile repairing	1919 1914	520 18	(2)	(2)	158 11	6	273 7	11	37	18
Bread and other bakery products	1919 1914	384 274	····(²)	70 (²)	241 84	· 2	33 132	16 7	21 29	18
3rick	1919 1914	145 191	16 (*)	(2)	9 <u>4</u> 131	3	10	26 18	4 29	
Butter	1919 1914	190 71	(2)	(2)	58 5	2	24 36	76 1	20 16	13
Carsand general shop construction and repairs by steam-railroad companies.	1919 1914	5,312 3,611	(2)	1,858 (²)	3,448 445	385	1,001	1,656	•••••	12
Confectionery and ice cream	1919 1914	134 130	(2)	(2)	47 22	3 45	5 52	44 4	11 4	
Flour-mill and gristmill products	1919 1914	360 256	(2)	(²)	210 96		97 95		46 63	
Foundry and machine-shop products *	1919 1914	365 384	(2)	(2)	351 331	4	13 43		5	
Lumber and timber products	1919 1914	3, 693 2, 873	(2) 8	(2)	1, 718 35	6	682 941	5 36	1, 192 1, 795	6
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919 1914	176 92	(2) 37	(2)	96 34		10 31	33	27	
Printing and publishing, book and job	1919 1914	182 116	(3)	(2)	182 116					
Printing and publishing, newspapers and periodicals	1919 1914	829 784	(2) 4	94	506 595	143 28	15 98	59 59	8	
Slaughtering and meat packing.	1919 1914	210 96	(2)	(2)	5 35	54	145 12		6 49	
All other industries	1919 1914	4,660 4,808	160 (²)	1	489 612	2, 129	61 73	3, 449 1, 439	45 408	43 14
Total for cities.	1919 1914	4,379 2,887	209 (2)	447 (2)	2, 703 1, 543	183 57	523 373	244 815	20 73	5
Anaconda	1919 1914	272 251	(2)	(2)	162 175			65	2	4
BILLINGS	1919 1914	573 329	(2)	150 (2)	236 132	57 6	90 54		10 32	
BUTTE	. 1919 1914	930	109	157	467 408	126 26	2 72	69	12	
GREAT FALLS	. 1919 1914	1, 157 706	(2) 61	1	957 560		37 53	47	1 10	
HELENA	. 1919 1914	539 495	16	1	360 183		33 104	34	2 12	
MISSOULA	. 1919 1914	908 447	3		521 85		361 19	16	7 5	

¹ Includes 48 and under for 1914 and 1909.

^{*} Corresponding figures not available.

³ Includes "iron and steel, welding."

MANUFACTURES—MONTANA.

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

	тот	PAL.							ESTABL	ISHMI	ENTS I	EMPLO	YING						
INDUSTRY AND CITY.	nts.		No wage earn- ers.	w ear	to 5 age ners, usive.	ear	o 20 age ners, usive.	ear	to 50 age ners, usive.	W	o 100 age aers, asive.	ear	to 250 age ners, usive.	ear	to 500 vage rners, usive.	ear	to 1,000 vage rners, lusive.	I OVE	r 1,000 rage ners.
	Establishments.	Wage carne numl	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wago earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
All industries	1,290	17, 160	203	854	1,647	139	1,526	50	1, 859	12	878	15	2,117	11	3,657	5	3,325	1	2, 151
Automobile repairing	255 119 14 47	520 384 145 190	32 31 4	210 71 7 36	400 152 21 77	13 16 6 5	120 162 84 41	1 2	40 72	1 	70								
Cars and general shop construction and repairs by steam-railroad companies. Confectionery and ice cream. Flour-mill and gristmill products. Foundry and machine-shop products. Lumber and timber products.	37	5, 312 134 360 359	 7 6 1	25 48 12	62 64 22	5 4 11 4	62 49 119 55 227	6 1 3 4	272 23 115 106	4 1	304 62 191	7 1	1,009 176 556	5	1,754		1,911		
Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with sawmills. Printing and publishing, book and job Printing and publishing, newspapers and	153 30 22	3,693 176 182	3 3 3	105 19 7	198 45 13	18 6 10	59 99	15 2 2	535 72 70	3	191				1,366				
periodicals Slaughtering and meat packing. All other industries.	225 12 255	829 210 4,666	65 48	141 6 167	250 17 326	10 3 28	116 36 297	8 2 4	340 84 130	1 2	73 178	2	123 253	2	537	i	794	1	2, 151
Total for cities.	381	4,379	56	220	516	70	762	21	699	7	445	4	537	2	716	1	704		
ANACONDA BILLINGS BUTTE GREAT FALLS HELENA MISSOULA	22 85 115 73 52 34	272 573 930 1,157 539 908	5 4 18 14 9 6	12 62 64 37 24 21	30 146 149 81 52 58	1 15 20 16 15 3	9 141 215 190 173 34	11 5 1	81 31 338 182 25 42	2 2 2 1		1 2 1	144 228 165	2	716	î	704		

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

						VAL	UE OF PRODU	CTS.	VALUE AD	DED BY MAN	JFACTURE.
1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
1,290	939	677	17, 160	13,704	11,655	\$166,664,518	\$84,446,136	\$ 73, 271, 793	\$44 , 512, 594	\$37, 702, 150	\$24,091,554
445 474 247 86 17 21	421 309 135 57 8 9	261 236 118 } 56 6	289 1,008 1,942 3,738 1,717 8,466	348 955 1,742 4,739 5,920	227 754 1,708 4,836 4,130	1, 238, 673 4, 752, 545 10, 696, 909 { 18, 010, 547 12, 150, 756 119, 815, 088	1,021,532 2,921,890 5,905,385 13,024,271 5,168,755 56,404,303	649, 143 2, 437, 212 5, 092, 318 } 15, 221, 904 49, 871, 216	876, 019 2, 871, 270 5, 151, 393 { 8, 461, 388 4, 410, 262 22, 742, 262	729, 553 1, 795, 281 3, 041, 045 } 8, 899, 240 23, 237, 031	457,008 1,535,283 3,108,691 8,024,645 10,965,927
						PER CENT DI	TRIBUTION.				
100.0	100.0	100. 0	100.0	100. 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
34. 5 36. 7 19. 1 6. 7 1. 3 1. 6	44. 8 32. 9 14. 4 6. 1 0. 9 1. 0	38. 6 34. 9 17. 4 8. 3 0. 9	1.7 5.9 11.3 21.8 10.0 49.3	2. 5 7. 0 12. 7 34. 6 43. 2	1.9 6.5 14.7 41.5 35.4	0.7 2.9 6.4 10.8 7.3 71.9	1. 2 3. 5 7. 0 15. 4 6. 1 66. 8	0, 9 3, 3 6, 9 20, 5 68, 1	2.0 6.5 11.6 19.0 9.9 51.1	1. 9 4. 8 8. 1 23. 6 61. 6	1.9 6.4 12 9 33.3 45 5
	1919 1,200 445 474 247 86 17 21 100.0 34.5 36.7 19.1 6.7	1919	1,200 939 677 445 421 261 474 309 236 247 135 118 80 57 17 8 21 9 6 100.0 100.0 100.0 34.5 44.8 38.6 36.7 32.9 34.9 19.1 14.4 6.7 6.1 1.3 0.9 83	1919 1914 1909 1919 1,200 939 677 17,160 445 421 261 474 309 236 1,008 1,942 56 57 17 5 56 17 7 8,466 17 36,7 32,9 34,9 5,9 19,1 14,4 17,4 6,7 6,7 6,1 8,3 17,4 11,3 6,7	ESTABLISHMENTS. WAGE EARNI 1919 1914 1909 1919 1914 1,200 939 677 17,160 13,704 445 421 261 289 348 47 135 118 1,008 955 17 8 56 1,742 3788 1,742 86 57 8 3,738 4,739 4,739 21 9 6 8,466 5,920 100.0 100.0 100.0 100.0 100.0 34.5 44.8 38.6 1.7 2.5 36.7 32.9 34.9 5.9 7.0 19.1 14.4 17.4 11.3 12.7 6.7 6.1 8.3 21.8 34.6	1919 1914 1909 1919 1914 1909 1,200 939 677 17,160 13,704 11,655 445 421 261 289 348 227 474 309 236 1,008 955 754 247 135 118 1,942 1,742 1,708 86 57 17 8 4,739 4,836 17 8 6 8,466 5,920 4,130 100.0 100.0 100.0 100.0 100.0 100.0 34.5 44.8 38.6 1.7 2.5 1.9 30.7 32.9 34.9 5.9 7.0 6.5 19.1 14.4 17.4 11.3 12.7 14.7 6.7 6.1 8.3 4.15 10.0 34.6 41.5	1919	ESTABLISHMENTS. WAGE EARNERS. VALUE OF PRODU 1919 1914 1909 1919 1914 1909 1919 1914 1,200 939 677 17,160 13,704 11,655 \$166,664,518 \$84,446,136 445 421 261 289 348 227 1,238,673 1,021,532 474 309 236 1,008 955 754 4,752,545 2,921,890 247 135 118 1,942 1,742 1,708 10,096,909 5,905,385 86 57 56 3,738 4,739 4,836 18,010,547 13,024,271 17 8 6 8,466 5,920 4,130 119,815,088 56,404,303 FER CENT DISTRIBUTION. ** The Control of the Contr	1919	1919	1919 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1914 1909 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1914 1909 1919 1914 1909 1910 1914 1909 1910 1914 1919 1914 1909 1914 1909 1914 1914 1909 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1914 1914 1909 1919 1914 1914 1909 1914 1919 1914 1914 1909 1914 1914 1919 1914 1914 1919 1914 1919 1914 1914 1914 1909 1914 1914

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

	Е		BER OF			RAGE N			V.A.	LUE OF PROD	ucts.		VALUE AD	DED BY MAI	TUFACTI	dre.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914	Per distrib		1919	1914	Per distrib	cent oution.	1919	1914	Per distrik	cent oution.	1919	1914	Per distrib	cent oution
			1919	1914			1919	1914			1919	1914		in nyn∓n y I	1919	1914
AUTOMOBILE REPAIRING	255	8	100.0	100.0	520	18	100.0	100, 0	\$2,038,836	\$ 35, 505	100.0	100, 0	\$1,433,551	\$31,772	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000	115 123 17	5 3	45.1 48.2 6.7	62, 5 37, 5	102 297 121	6 12	19. 6 57. 1 23. 3	33. 3 66. 7	365, 906 1, 183, 473 489, 457	14, 404 21, 101	17. 9 58. 0 24. 0	40.6 59.4	270, 055 \$12, 834 350, 662	11, 491 20, 281	18, 8 56, 7 24, 5	36, 2 63. 8
BREAD AND OTHER BAKERY PRODUCTS	119	105	100.0	100.0	384	274	100.0	100.0	3, 124, 232	1,311,259	100.0	100.0	1, 189, 547	600, 680	100.0	
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000.	25 57 32 5	37 50 1 18	21. 0 47. 9 26. 9 4. 2	35. 2 47. 6 17. 1	2 78 178 126	15 91 1 168	0. 5 20. 3 46. 4 32. 8	5. 5 33. 2 61. 3	73, 646 625, 835 1, 443, 033 981, 718	98, 150 468, 210 1 744, 899	2. 4 20. 0 46. 2 31. 4	7. 5 35. 7 56. 8	29, 157 244, 589 518, 222 397, 579	46, 914 231, 869 321, 897	2, 5 20, 6 43, 6 33, 4	53.8
BUTTER		32	100, 0	100, 0	190	71	100.0	100.0	4, 219, 316	1, 217, 683	100.0	100.0	755, 865	206, 661	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 and over.	7 29 11	14 11 3	14.9 61.7 23.4	12. 5 43. 8 84. 4 9. 4	55 131	1 14 35 21	2. 1 28. 9 68. 9	1.4 19.7 49.3 29.6	87, 930 1, 414, 732 2, 716, 654	11, 497 178, 190 424, 862 603, 134	2, 1 33, 5 64, 4	0. 9 14. 6 34. 9 49. 5	16, 589 208, 644 530, 632	2,802 29,087 75,193 99,519	2, 2 27, 6 70, 2	1.4 14.1 36.4 48.2
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COM- PANIES.	30	16	100.0	100.0	5,312	3,611	100.0	100.0	10, 957, 439	5, 833, 618	100, 0	100.0	8,060,892	3, 291, 662		
Less than \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	8 14 3 5	4 9 8 3	26, 7 46, 7 10, 0 16, 7	25. 0 50. 3 18. 8	172 1,550 851 2,739	137 23,474	3. 2 29. 2 16. 0 51, 6	3.8 96.2	304, 944 2, 988, 575 1, 991, 792 5, 672, 128	203, 091 2, 031, 711 3 3, 598, 816	2. 8 27. 3 18. 2 51. 8	3. 5 34. 8 61. 7	238, 052 2, 246, 241 1, 355, 279 4, 226, 420	140, 414 2 3, 151, 248	3.0 27.8 16.8 52,4	4.3 95.7
FLOUR-MILL AND GRISTMILL PRODUCTS	69	33	100.0	100.0	360	256	100.0	100.0	16, 386, 055	4, 890, 275	100.0.	100.0	2, 293, 799	988, 343	100.0	100.0
Less than \$5,000 \$5,000 to \$0,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$5,000 \$1,000,000 and over.	6 22 19 11 7 4	3 10 11 6 8 3	8.7 31.9 27.5 15.9 10.1 5.8	9. 1 30. 3 33. 3 18. 2 9. 1	3 14 29 55 82 177	1 8 35 2 212	0. 8 3. 9 8. 1 15. 3 22. 8 49. 2	0. 4 3. 1 13. 7 82. 8	16, 245 274, 061 770, 639 2, 349, 919 4, 944, 048 8, 031, 143	6, 872 115, 744 576, 179 1, 722, 654 2, 468, 826	0. 1 1. 7 4. 7 14. 3 30. 2 49. 0	0, 1 2, 4 11, 8 35, 2 50, 5	5, 287 60, 019 144, 164 269, 352 626, 548 1, 188, 429	2, 020 29, 230 95, 982 2 861, 111	0, 2 2, 6 6, 3 11, 7 27, 3 51, 8	0.2 3.0 9.7 87.1
LUMBER AND TIMBER PROD- UCTS.	153	145	100.0	100.0	3, 693	2,873	100.0	100.0	10,091,632	6, 206, 473	100.0	100.0	7,784,854	4, 157, 705	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	70 41 23 13 6	82 34 17 9 3	45. 8 26. 8 15. 0 8. 5 3. 9	56. 6 23. 4 11. 7 6. 2 2, 1	67 163 436 925 2,102	126 277 565 21,905	1. 8 4. 4 11. 8 25. 0 56. 9	4.4 9.6 19.7 66.3	169, 216 377, 439 1, 073, 371 2, 516, 539 6, 855, 067	172, 815 337, 839 793, 430 2, 569, 375 2, 333, 008	1. 5 3. 4 9. 8 22. 9 62. 4	2.8 5.4 12.8 41.4 37.6	137, 465 310, 258 867, 393 1, 960, 773 4, 508, 965	143, 707 269, 258 560, 591 2 3, 184, 149	1.8 4.0 11.1 25.2 57.9	3.5 6.5 13.5 76.6
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODI- CALS	225	221	100.0	100.0	820	784	100.0	100.0	3, 912, 779	2, 460, 911	100.0	100.0	2, 862, 718	1, 874, 298	100.0	
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000.	86	142 59 13 7	51.1 38.2 7.1 3.6	64.3 26.7 5.9 3.2	58 177 166 428	102 181 135 366	7. 0 21. 4 20. 0 51. 6	13. 0 23. 1 17. 2 46. 7	310, 291 805, 716 762, 129 2, 034, 643	341, 320 524, 549 401, 428 1, 193, 614	7. 9 20. 6 19. 5 52. 0	13. 9 21. 3 16. 3 48. 5	241, 514 597, 690 590, 462 1, 433, 052	286, 475 423, 271 322, 686 841, 866	8. 4 20. 9 20. 6 50. 1	
SLAUGHTERING AND MEAT PACKING	. 12	8	100.0	100.0	210	96	100.0	100, 0	6, 858, 703	2, 119, 539	100.0	100.0	1, 034, 559	402,818	100.0	
Less than \$100,000. \$100,000 to \$500,000. \$500,000 and over	3 6 3	18	25. 0 50. 0 25. 0	100.0	6 48 156	4 96	2. 9 22. 9 74. 3		225, 033 1, 608, 360 5, 025, 310	4 2, 119, 536	3. 3 23. 4 73. 3	100.0	38, 480 220, 053 776, 026	4 402, 818	3, 7 21, 3	

¹ Includes the group "\$100,000 to \$500,000." ² Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

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 estab-	WAGE E	ARNERS.	VALUE OF PI	RODUCTS.	VALUE ADDED BY MANUFACTURE.		
	lish- ments.	Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.	
Anaconda		272	100.0	\$1,340,695	100.0	\$851,538	100.0	
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. BILLINGS.	85	13 25 234 573	4. 8 9. 2 86. 0	16, 042 67, 093 191, 901 1, 065, 659 5, 417, 140	1, 2 5, 0 14, 3 79, 5	10, 675 40, 054 87, 822 712, 987 1, 855, 077	1.3 4.7 10.3 83.7	
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 and over.	16 38 23 8	11 102 138 322	1. 9 17. 8 24. 1 56. 2	47, 147 432, 655 785, 964	0. 9 8. 0 14. 5 76. 6	33, 359 286, 965 392, 205	1.8 15.5 21.1 61.0	

² Includes the group "\$1,000,000 and over." ⁴ Includes the groups "Less than \$100,000" and "\$500,000 and over."

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

	VALUE OF			Standard Communication	Number of estab-	11	CARNERS.	VALUE OF P	RODUCTS.	VALUE AD MANUFAC	
		<u> </u>	·	and the American Advanced	ments.	Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
BUTTELess than \$5,000	en i en eg Historia		·			930	100.0	\$5, 261, 592	100.0	\$2,439,055	100, 0
Less than \$2,000 \$2,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over.			• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	37 37 12	10 76 361 483	1, 1 8, 2 38, 8 51, 9	69, 011 430, 839 1, 711, 185 3, 050, 557	1. 3 8. 2 32. 5 58. 0	49, 598 238, 826 870, 194 1, 280, 437	2. 0 9. 8 35. 7 52. 5
						1, 157	100, 0	6,850,837	100.0	2, 795, 116	100.0
Less than \$5,000. \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over.					15 30 19 9	52 177 924	0.3 4.5 15.3 79.9	34, 684 312, 219 962, 002 5, 541, 932 3, 016, 238	0. 5 4. 6 14. 0 80. 9	20, 828 196, 101 541, 190 2, 036, 997	0.7 7.0 19.4 72.9
Lass than \$5,000. \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000.					13 10	2 39 142 356	0. 4 7, 2 26, 3 66, 0	23, 203 209, 758 643, 280 2, 139, 997 4, 296, 371	0.8 7.0 21.3 70.9	1,483,778 15,615 141,872 353,589 972,702	100. 0 1, 1 9, 6 23. 8 65. 6
Less than \$5,000 \$5,000 to \$22,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over.					9 6	2 11 60 76 759	0. 2 1. 2 6. 6 8. 4 83. 6	23, 833 63, 472 444, 961 794, 251 2, 969, 854	0.6 1.5 10.4 18.5 69.1	1, 844, 140 14, 332 31, 595 192, 366 255, 242 1, 350, 605	0.8 1.7 10,4 13.8 73.2

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

			MBER		Α.	VERAGI	E NUMB	ER OF	WAGE	EARN	ERS.		,	ALUE OF PRO	DUCTS,	·		
INDUSTRY AND CITY.	Cen- sus year.		NED B			In est	ablishm ned by	nents	Perc	ent of	total.		Of estal	olishments ow	ned by—	Perc	ent of	total.
201 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Indi- vid- uals.	Cor- pora- tions.	All oth- ors.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals,	Cor- pora- tions.	All oth- ers.
All industries	1919 1914 1909	697 531 352	353 266 203	240 142 122	17,160 13,704 11,655	1,662 1,105 1,108	14,839 12,179 10,041	659 420 506	9.7 8.1 9.5	86. 5 88. 9 86. 2	3.8 3.1 4.3	\$166, 664, 518 .84, 446, 136 73, 271, 793	\$8,372,148 3,637,211 3,265,067	\$153, 484, 858 79, 314, 173 68, 458, 197	\$4,807,512 1,494,752 1,548,529	5. 0 4. 3 4. 5	92. 1 93. 9 93. 4	2.9 1.8 2,1
Automobile repairing	1919 1914	146 2	33 3	76 3	520 18	282	111 11	127	54.2	21, 3 61, 1	24. 4 38. 9	2,038,836 35,505	1,113,809	347,326 17,615	577, 701 1 17, 890	54.6	17. 0 49. 6	28.3 50.4
Bread and other bakery products.	1919 1914	86 85	13 6	20 14	384 274	157 150	163 97	64 27	40.9 54.7	42. 4 35. 4	16.7 9.9	3, 124, 232 1, 311, 259	1,307,938 792,594	1,234,076 336,818	582, 218 181, 847	41. 9 60. 4	39. 5 25. 7	18.6 13.9
Butter	1919 1914	14 10	25 19	8 3	190 71	20 18	146 49	24 4	10. 5 25. 4	76.8 69.0	12.6 5.6	4, 219, 316 1, 217, 683	630, 939 185, 776	2,951,898 874,204	636, 479 157, 703	15.0 15.3	70. 0 71. 8	15.1 13.0
Carsand general shop con- struction and repairs by steam-railroad com- panies.	1919 1914		30 16		5,312 3,611		5,312 3,611			100.0 100.0	,	10, 957, 439 5, 833, 618		10, 957, 439 5, 838, 618			100. 0 100. 0	
Flour-mill and gristmill products.	1919 1914	17 8	43 22	9	360 256	. 26 13	316 237	18 6	7. 2 5. 1	87.8 92.6	5.0 2.3	16, 386, 055 4, 890, 275	852, 151 208, 925	14, 415, 056 4, 570, 000	1, 118, 848 111, 350	5. 2 4. 3	88. 0 93. 4	6.8 2.3
Lumber and timber prod- ucts.	1919 1914	91 81	20 32	42 32	3,693 2,873	664 381	2,780 2,282	249 210	18.0 13.3	75.3 79.4	6. 7 7. 3	10, 991, 632 6, 206, 473	1,569,014 451,566	8,863,087 5,455,440	559, 531 299, 467	14.3 7.3	80. 6 87. 9	5. 1 4. 8
Printing and publishing, newspapers and period- ieals.	1919 1914	143 139	57 46	25 36	829 784	161 180	648 562	20 42	19. 4 23. 0	78.2 71.7	2.4 5.4	3,912,779 2,460,911	761, 476 566, 301	3,026,980 1,750,744	124, 323 143, 866	19. 5 23. 0	77. 4 71. 1	3. 2 5. 8
Slaughtering and meat packing.	1919 1914	1 2	10 5	1 1	210 96		² 210 ² 96			100.0 100.0		6, 858, 703 2, 119, 539		² 6, 858, 703 ² 2, 119, 539			100. 0 100. 0	
Total for cities	1919 1914	160 146	142 121	73 42	4,379 2,887	409 262	3,795 2,512	175 113	9.3 9.1	86.7 87.0	4.0 3.9	26, 182, 873 11, 264, 570	2,417,349 1,189,666	22, 255, 493 9, 489, 300	1,510,031 585,604	9. 2 10. 6	85. 0 84. 2	5.8 5.2
ANACONDA	1919 1914	12 12	6	4	272 251	28 27	242 223	2 1	10.3 10.8	89. 0 88. 8	0.7 0.4	1, 340, 695 753, 516	215, 071 112, 457	1,108,712 638,809	16,912 2,250	16.0 14.9	82. 7 84. 8	1.3
Billings.	1919 1914	36 17	25 18	24 7	573 329	107 31	408 293	58 5	18.7 9.4	71. 2 89. 1	10.1 1.5	5, 417, 140 1, 633, 741	487, 893 150, 858	4,577,099 1,430,948	352, 148 51, 935	9.0 9.2	84. 5 87. 6	6.5 3.2
BUTTE.	1919 1914	54 53	43 40	18 14	930 659	120 74	758 545	52 40	12. 9 11. 2	81.5 82.7	5.6 6.1	5, 261, 592 2, 900, 495	657, 699 305, 451	4,202,398 2,388,371	401, 495 206, 673	12. 5 10. 5	79. 9 82. 3	7.6 7.1
GREAT FALLS	1919 1914	31 21	31 26	11 7	1, 157 706	59 51	1,072 612	26 43	5. 1 7. 2	92.7 86.7	2.2 6.1	6, 850, 837 3, 382, 094	324, 215 259, 470	6,302,093 3,024,573	224, 529 98, 051	4.7. 7.7	92.0 89.4	3.3
HELENA.	1919 1914	20 23	22 20	10 10	539 495	64 51	446 424	29 20	11. 9 10. 3	82.7 85.7	5.4 4.0	3, 016, 238 1, 481, 932	516, 335 206, 334	2,067,290 1,070,394	432, 613 205, 204	17. 1 13. 9	68. 5 72. 2	14, 3 13, 8
	1919 1914	13 20	15 11	6 3	908 447	31 28	869 415	8	3. 4 6. 3	95. 7 92. 8	0.9	4, 296, 371 1, 112, 792	216, 136 155, 096	3,997,901 936,205	82, 334 21, 491	5. 0 13. 9	93.1 84.1	1.9 1.9

¹ Includes the group "Individuals."

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

No. of the second second			CITIE	S HAVING	A POPULATIO	N OF 10,6	000 or over.		THE STATE O	UTSIDE
	Cen-	Aggregate.	Total		10,000 to 25	,000.	25,000 to 10	0,000.	OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
	year.	- 65 - 5	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggre- gate.
Number of places	1919 1914 1909		6 6 5		5 5 4		1 1 1			
Population 1.	1920	548, 889	117, 205	21. 4	75, 594	13. 8	41, 611	7. 6	431, 684	78.6
	1915	482, 614	108, 923	25. 2	67, 142	15. 5	41, 781	9. 7	323, 691	74.8
	1910	376, 053	84, 714	22. 5	45, 549	12. 1	89, 165	10. 4	291, 339	77.5
Number of establishments	1919	1, 290	381	29. 5	266	20. 6°	115	8. 9	909	70.5
	1914	939	309	32. 9	202	21. 5	107	11. 4	630	67.1
	1909	677	186	27. 5	120	17. 7	66	9. 7	491	72.5
Average number of wage carners	1919	17, 160	4, 379	25. 5	3, 449	20. 1	930	5. 4	12, 781	74.5
	1914	13, 704	2, 887	21, 1	2, 228	16. 3	659	4. 8	10, 817	78.9
	1909	11, 655	1, 793	15. 4	1, 171	10. 0	622	5. 3	9, 862	84.6
Value of products	1919	\$166, 664, 518	\$26, 182, 873	15.7	\$20, 921, 281	12. 6	\$5, 261, 592	3. 2	\$140, 481, 045	84.3
	1914	84, 446, 136	11, 264, 570	13.3	8, 364, 075	9. 9	2, 900, 495	3. 4	73, 181, 566	86.7
	1909	73, 271, 793	6, 772, 158	9.2	4, 308, 378	5. 9	2, 463, 780	3. 4	66, 499, 635	90.8
Value added by manufacture	1919	44, 512, 594	11, 268, 704	25, 3	8, 829, 649	19, 8	2, 439, 055	5. 5	33, 243, 890	74.7
	1914	37, 702, 150	5, 774, 766	15, 3	4, 188, 592	11, 1	1, 586, 174	4. 2	31, 927, 384	84.7
	1909	24, 091, 554	4, 035, 122	16, 7	2, 491, 313	10, 3	1, 543, 809	6. 4	20, 056, 432	83.3

¹ Population of 1020, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

TABLE 16.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

	MININE PRO	PAGINES O	P Momone						
POWER,	NUMBER OF ENGINES OR MOTORS.				Amount.		Per cent distribution.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	4, 295	2, 152	1, 291	170, 206	91,671	90, 402	100.0	100, 0	100.0
Owned. Steam. Engines Turbines. Internal-combustion engines. Water Water wheels and turbines. Water motors.	314 307 7 224 42 21	527 368 (¹) (¹) 131 28 22 6	503 412 (1) (1) 54 37 26 11	68, 294 42, 099 38, 865 3, 234 1, 484 24, 711 7, 992 16, 719	63, 873 52, 918 (1) (1) (1) 820 10, 135 10, 102	63, 523 49, 654 (1) (1) 223 13, 646 13, 583 63	40. 1 24. 7 22. 8 1. 9 0. 9 14. 5 4. 7 9. 8	69. 7 57. 7 0. 9 11. 1 11. 0 (2)	70. 3 54. 9 0. 2 15. 1 15. 0 0. 1
Rented Electric. Other.	3, 715 3, 715	1, 625 1, 625	788 788	101, 912 101, 910 2	27, 798 27, 798	26, 879 26, 504 375	59. 9 59. 9 (2)	30. 3 30. 3	29.7 29.3 0.4
Electric. Rented. Generated by establishments reporting.	1 8.715	1, 802 1, 625 177	834 788 46	106, 207 101, 910 4, 297	38, 109 27, 798 10, 311	27, 301 26, 504 797	100, 0 96, 0 4, 0	100. 0 72, 9 27. 1	100, 0 97, 1 2, 9

¹ Not reported separately.

TABLE 17.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

			• '				
	co.	AL.		:	Gasoline	GAS (1,000	cubic feet).
INDUSTRY AND CITY.	Anthracite (tons 2,240 pounds).	(tons 2,240 (tons 2,000		Fuel oils (barrels).	and other volatile oils (barrels).	Natural.	Manufac- tured.
All industries. 1919-1914. Per cent of increase * 1914.		539, 302 578, 234 —6. 7	64,795 196,481 —67.0	22, 517 39, 036 —37. 9	1,739 (1)	90, 421 11, 211 768. 9	6,989 (2)
Automobile repairing. Bread and other bakery products. Brick. Cars and general shop construction and repairs by steam-railroad	135	3,671 3,983 14,931	870	8 12	407 37 76	1,820 608	1,796 2,324
companies		103,073 26,449	200	1,251			
Explosives. Flour-mill and gristmill products Foundry and machine-shop products.	1 1	4,800 16,560 3,523	3,700 330 1,756	478 415	373 90	602	
Gas, illuminating and heating. Liquors, cereal beverages. Lumber and timber products		17,072 7,567	1,730	7,984			
Slaughtering and meat packing.		6,943 8,065			76 28		

¹ Included in figures for fuel oils.

² Less than one-tenth of 1 per cent.

Included in figures for natural gas.

^{*} A minus sign (-) denotes decrease.

TABLE 17.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

	COAL.		Challes (4		Gasoline	GAS (1,000	cubic feet).
INDUSTRY AND CITY.	Anthracite (tons 2,240 pounds).	Bituminous (tons 2,000 pounds).	Coke (tons 2,000 pounds).	Fuel oils (barrels).	and other volatile oils (barrels).	Natural.	Manufac- tured.
Smelting and refining, copper. Smelting, lead. Sugar, beet. All other industries. Total for cities.			39,963 15,366 729 151 3,535	3,708 1,715 6,946 8,015	38 614 170	87,391	2,866 6,627
ANACONDA BILINGS. BUTTE GREAT FALLS HELENA. MISSOULA	10	4,899 17,819 13,826 24,289 9,319 4,360	44 1,137 811 617 727 199	4,050 3,028 937	14 74 47 26 9		2,391 1,306 1,414 96 1,420

SPECIAL STATISTICS.

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

Flour-mill and gristmill products (Table 18).— Wheat flour, the chief product of the industry, represented 84.2 per cent of the total value in 1919, 80.1 per cent in 1914, and 85.5 per cent in 1909. As illustrative of the high prices of commodities in 1919, as compared with 1914; the quantity of wheat flour increased 45.9 per cent during that five-year period, while the value shows a gain of 252 per cent.

Table 18.—Flour-Mill and Gristmill Products (Merchant Mills): 1919, 1914, and 1909.

	1919	1914	1909
Total value	\$16,386,055	\$4,890,275	\$2, 175, 236
Wheat flour:			
Barrels	1,271,861	871,918	375, 440
TAMO	\$13, 794, 193	\$3,919,318	\$1,860,681
Rye flour:		, ,	
BarrelsValue	138 \$ 1,494	799	850
Corn meal and corn flour:	41,40 ±	\$2,836	\$4,794
Barrels	10	318	l
Value Buckwheat flour:	\$100	\$1,509	
Polyment nour:	0.005	<u> </u>	
A WILLE	2, 325 \$186		
Bran and middlings:	\$100		
Tons	46, 202	34, 543) _Y
Value. Feed and offal:	\$1,689,705	\$663,076	14,036
Tons.	7,427	8,771	\$266, 82
	\$439,920	\$214, 252	
Hominy and grits:	•	V ,	ľ
PoundsValue.	1,000		
Oatmeal:	\$100		
Pounds	6, 995, 200	334, 200	
Value Breakfast foods:	\$342,709	\$14,725	
Pounde			
Pounds Value	1,867,746	606,448	
	\$117,378	\$15 , 059	(1)
All other cereal products, value	\$270	l	
All other products, value		\$59,500	\$42,93

¹ Not reported separately.

Lumber and timber products (Table 19).—The production of western yellow pine lumber reported for 1919 was 108,548 M feet board measure, or 37.8 per cent, of the total for the state. Larch was next in importance, contributing 101,714 M feet, or 35.4 per cent. The cut of Douglas fir was 40,675 M feet, or 14.2 per cent, and spruce 34,064 M feet, or 11.9 per cent. Other species, which combined, represented less than 1 per cent of the total, were cottonwood, white fir, Idaho white pine, lodge-pole pine, cedar, and hemlock.

Table 19.—Lumber, Lath, and Shingles: 1919, 1914, and 1909.

	77.07.77		QUANTITY.						
1990 - 19	PRODUCT.		1919	1914	1909.				
Lath		M feet b. mthousandsthousands	287, 378 21, 362 253	1 317, 842 (2) (2)	308, 582 35, 430 525				

¹ Does not include data for custom mills.

Slaughtering and meat packing (Table 20).—This table gives the quantity and value of the principal products of the industry reported at the censuses of 1919, 1914, and 1909.

The product was largely fresh meat, only a small proportion having been cured. There has been, however, a very large increase in cured pork during the periods for which statistics are presented in the table. In 1909 the value of cured pork represented only 1.6 per cent of the total value of products; in 1914, 4.7 per cent; while in 1919 it formed 12 per cent.

All products show increases in the last census period except mutton and lamb. This class shows a decrease of 959,190 pounds in meat production, but an increase of \$31,592 in value, while the pelts decreased 22,193 in number, but increased \$35,444 in value.

² Not reported.

Table 20.—Slaughtering and Meat Packing: 1919, 1914, and 1909.

	1919	1914	1909 1
Products, total value	\$6,858,703	\$2,119,539	\$2,053,600
Fresh meat:			
Beef-			
Pounds	16, 962, 467	10, 111, 419	12, 253, 54
Value	\$2, 890, 636	\$1,063,814	\$1,043,864
Veal— Pounds	1, 597, 812	186, 206	1 015 000
Value.	\$284,650	\$23,689	1, 815, 825 \$175, 256
Mutton and lamb-	@201, 000	φευ, σου	10, 200
Pounds	1,622,989	2, 582, 179	2, 365, 440
Value.	\$304,805	\$273, 213	\$240, 720
Pork-			
Pounds	4, 739, 542	2, 308, 259	2, 171, 894 \$246, 118
Value.	\$1,058,018	\$266, 426	\$2 46, 118
Edible offal, and all other fresh meat 2— Pounds	#C# #00	120 020	
	586, 720	170, 953	52, 500
Value Pork, pickled and other cured:	\$ 96, 586	\$10, 129	\$3, 148
Pounds	2, 440, 720	685, 800	214, 000
Value	\$822, 434	\$99,023	\$33, 081
Sausage:	4 0==, 2 0 0	¥00,020	450, 50.
Pounds	1,090,379	234, 700	446, 738
Value	\$200, 930	\$22,080	\$36, 969
Lard:			
Pounds	924, 625	455, 971	145, 319
Value	\$248,679	\$38, 321	\$21, 122
Fallow: Pounds	1 000 100	000 000	024 044
Value	1,008,128 \$114,690	636, 906 \$39, 047	874, 310
Hides and polts:	9111,000	φου, 0±1	\$38, 773
Cattle			
Number	31, 363	15, 358	1
Pounds	1, 877, 597	1,005,015	1
Value	\$555, 499	\$147, 511	31, 02
Calf—		'	1,505,93
Number	8, 573	950	\$149,77
Pounds	130, 710	11, 976	1 .
Value	\$51,406	\$2, 103	1
Sheep— Number	94 010	F# 010	10.01
Value	34, 019 \$96, 259	56, 212	48, 61
Y 241UG	φυυ, 200	\$60, 815	\$48, 663
All other products, value *	\$134, 111	\$73, 368	\$16, 123
21000000, 10000	4.0., 211	W10, 500	@10, 12e

¹ Includes data for 1 establishment manufacturing sausage, to avoid disclosure of individual operations.

² Includes dressed poultry. ³ Includes value of cured beef, lard compounds, meat puddings, sausage casings, fertilizer materials, and wool.

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

The large decrease in the reported circulation of weekly newspapers since 1914 is due almost wholly to the reduction in circulation, as reported, of one weekly agricultural periodical established in 1913. It is probable that the circulation figures given for this establishment at the census of 1914 represented, in part, copies sent broadcast to aid in firmly establishing the new enterprise. Of the daily newspapers, 11, with a circulation of 44,397, were published in the afternoon. All publications were printed in the English language.

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

PERIOD OF ISSUE.	NUMBER OF AGGREGATE CIRCULA PUBLICATIONS. PER ISSUE.					
en en en 1900 en en en en en en en en en en en en en	1919	1914	1909	1919	1914	1909
Total	248	248	139	431, 919	507, 892	246, 798
Daily Sunday Semiweekly Weekly Monthly ¹	22 10 3 201 12	21 7 4 203 13	17 7 8 101 6	111, 518 88, 093 3, 200 186, 202 42, 906	87, 113 60, 321 6, 762 292, 746 60, 950	70, 203 48, 088 13, 180 92, 027 23, 300

¹ Includes 2 semimonthly publications in 1919 and 1914 and 1 in 1909.

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

TABLE 22.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER O	R AMOUNT.	Per
	1919	. 1914	cent of in- crease, 1 1914- 1919,
Number of establishments Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number) Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Paid for contract work Rent and taxes. Cost of materials. Amount received for work done.	1, 092 34 87 971 1, 463 \$1, 373, 349 1, 003, 662 163, 801 839, 771 839, 771 473, 180	42 920 37 64 810 999 \$954,412 688,234 88,745 599,489 1,600 33,829 226,350 1,266,562	18.7 18.6 46.4 43.9 45.9 84.7 40.1 -93.8 53.1 109.1 49.6

 $^{^{1}\,\}mathrm{A}$ minus sign (—) denotes decrease; percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 23).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 23.—Dyeing and Cleaning: 1919.

			Number of amount.
	 	 <u></u>	-
umber of establishments			100
ersons engaged			
Proprietors and firm members			
Salaried employees	 		
Salaried employees. Wage earners (average number) rimary horsepower	 		
rimary horsepower	 	 	1 25
111111111			3 1/0,
liaries and wages	 	 	120,
Salaries	 	 	. 9,
Wages		 	115,
ent and taxes	 	 	19,
ost of materials	 	 	59,
mount received for work done	 	 	312,

Custom sawmills and gristmills (Tables 24 and 25).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914. Tables 24 and 25, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for the work performed, and that for custom gristmills the selling value of the grain milled.

TABLE 24.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER O	R AMOUNT.	Per cent
	1919	1909	crease, 1 1909-1019.
Number of establishments. Persons engaged. Proprietors and firm members. Wage carners (average number). Primary horsepower. Capital. Wages. Rent and taxes. Cost of materials. Value of products 8	7 15 10 5 269 \$19,400 4,254 141 485 10,792	14 43 10 24 534 \$32,600 8,741 (2) 670 24,249	-49. 6 -40. 5 -51. 3 -27. 6 -55. 5

¹A minus sign (--) denotes decrease. Percentages are omitted where base is less than 100.

1 Figures not available.
1 Amount received for work done.

TABLE 25.—Custom Gristmills: 1919 and 1909.

	NUMBER O	Per cent	
	1919	1909	crease,1 1909–1919.
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees Wage carners (average number). Primary horsepower. Salaries and wages. Salaries. Wages Rent and taxes.	236 \$59,554 6,930 1,200 5,730	2 4 3 811,600 595 (2)	413.4 1,064.7 863.0
Cost of materials ³	95,954 116,073	13, 190 14, 175	627. 8 718 9

Percentages are omitted where base is less than 100.
 Figures not available.
 Includes estimate of all grain ground.

GENERAL TABLES.

Table 26 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the state, and for cities having 10,000 inhabitants or more similar data for all industries combined. Certain kindred industries

are combined in some instances for comparison with 1909.

Table 27 presents, for 1919, statistics in detail for the state as a whole and for each industry for which figures can be shown without the disclosure of individual operations, and for all industries combined in the six cities of 10,000 or more inhabitants.

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

INDUSTRY.	Cen- sus year.	Num- bor of estab- lish-	Wage onrn- ers (aver- age	Pri- mary horse- power.	Wagos.	mate- rials.	Value of products.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish-	Wage earn- ers (aver- age	Pri- mary horse- power.	Wages.	mate- rials.	Value of products,
		ments.	num- ber).		11	xpressed thousand	l in ls.			ments.	num- ber).	power.	Expressed in thousands.		
All industries	1919 1914 1909	1, 290 939 677	13,704	91,671	13, 001	\$122, 152 46, 744 49, 180	84, 446	Mineral and carbonated waters.	1919 1914 1909	31 22 22	48 29 28	115 62 105	\$67 26 28	\$197 49 51	\$377 150 159
Bread and other bakery products.	1919 1914 1909	119 105 71	384 274 214	488 234 109	437 222 165	1, 935 711 618	3, 124 1, 311 1, 096	Printing and publishing	1919 1914 1909	247 238 135	1, 011 900 691	1, 489 908 679	1, 344 929 685	1,327 700 403	4,763 2,795 2,111
Brick	1919 1914 1909	14 17 21	145 191 189	2, 139 1, 488 1, 135	194 183 166	200 150 83	505 474 371	Saddlery and harness	1919 1914 1909	11 16 15	38 42 35	22 66 (8)	45 51 30	205 168 84	319 274 190
Butter	1919 1914 1909	47 32 20	190 71 29	1,200 509 235	254 69 24	3,463 1,011 354	4, 219 1, 218 419	Slaughtering and meat pack- ing.	1919 1914 1909	12 8 8	210 96 105	1,714 299 (⁸)	274 101 92	5, 824 1, 717 1, 781	6, 859 2, 120 2, 053
Cars and general shop con- struction and repairs by steam-railroad companies.	1919 1914 1909	30 16 12	5, 312 3, 611 1, 913	5, 689 5, 376 2, 670	7,477 3,000 1,538	2,891 2,542 1,086	10, 957 5, 834 2, 811	Tobacco, cigars	1919 1914 1909	29 70 53	44 82 91	4 4	57 69 85	145 118 132	285 306 320
Confectionery and ice cream	1919 1914	37 27	134 130	218 95	130 67	452 272	810 495	All other industries	1919 1914 1909	120 98 83	4, 308 4, 172 4, 430	129, 281 53, 631 65, 349	7, 333 4, 743 4, 898	85, 540 31, 437 39, 848	100,609 53,176 51,250
Copper, tin, and sheet-iron work.	1919 1914 1909	34 20 9	70 78 31	22 21 5	122 87 35	203 161 65	565 335 137	CITY.			7		3, 200	30,013	02,200
Flour-mill and gristmill products.	1919 1914 1909	69 33 12	360 256 105	6, 572 4, 078 2, 313*	475 209 105	14,092 3,902 1,693	16, 386 4, 890 2, 175	Anaconda	1919 1914 1909	22 19 13	272 251 97	1,068 770 258	504 285 134	489 260 157	1,341 754 501
Foundry and machine-shop products.1	1919 1914 1909	281 32 14	885 402 316	2,613 1,308 741	1, 348 438 354	1, 181 508 381	3, 551 1, 270 986	BILLINGS	1919 1914 1909	85 42 37	573 329 226	1,602 1,397 661	768 296 229	3,562 902 765	5,417 1,634 1,243
Gas, illuminating and heat- ing.	1919 1914 1909	6 6 5	63 59 48	170 172 129	99 58 41	197 95 77	487 206 190	BUTTE	1919 1914 1909	115 107 66	930 659 622	2,017 1,226 1,217	1, 204 671 649	2,823 1,314 920	5, 262 2, 900 2, 464
Liquors, malt, including cereal beverages.	1919 1914 1909	7 19 21	46 278 246	1,002 2,276 2,472	80 391 359	134 776 602	355 2, 567 2, 440	GREAT FALLS	1919 1914	73 54	1, 157 706	3, 345 2, 145	1, 485 675	4,056 1,899	6, 851 3, 382
Lumber and timber prod- ucts.	1919 1914 1909	183 164 155	3, 869 2, 965 3, 106	17, 220 20, 978 14, 337	4, 930 2, 270 2, 185	3, 987 2, 356 1, 865	12, 197 6, 721 6, 334	HELENA	1919 1914 1909	52 53 44	539 495 420	658 691 788	685 402 362	1, 532 709 493	3, 016 1, 482 1, 303
Marble and stone work	1919 1914 1909	13 16 21	45 68 78	248 166 123	77 79 102	89 71 57	297 244 230	Missoula	1919 1914 1909	34 34 26	908 447 428	1, 580 684 594	1, 245 382 403	2,452 405 402	4, 296 1, 113 1, 171

¹Includes "Automobile ropairing" and "Iron and steel, welding." ²Includes "Lumber, planing-mill products, not including planing mills connected with sawmills." ³Figures not available.

MANUFACTURES-MONTANA.

TABLE 27.—DETAILED STATEMENT OF ALL INDUSTRIES

			PERSO	IS ENGAGE	WAC NÉARE	WAGE EARNERS DEC.,15, OR NEAREST REPRESENTATIVE DAY.						
	ents.		Sala-	Clerks, et	Wage carner	s.	-	16 and	l over.	Unde	er 16.	
INDUSTRY AND CITY.	Number of establishmen	Total. Proprietors and firm members.	ried offi- cers, super- in- tend- ents,		Maximum.	h day of— Minimum. month.	Total.	Male.	Fe- male.	Male.	Fe- male	Capital.

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

										1 1	1					
1	All industries	1, 290	20, 692	1, 200	823	, 096	413	17, 160	No 18, 228	Ap 16, 239	(8)	(3)	(a)	(8)	(8)	Dollars. 137, 476, 277
2 3 4 4 5 6 7 8 9 10 11 12 13 144 156 167 188 199 212 22 23 24 25 26 27 28 29 30 31 32	Artificial stone products Automobile bodies and parts Automobile repairing. Awnings, tents, and sails Bread and other bakery products. Brick. Butter. Carriages and wagons, repair work only Cars and general shop construction and repairs by electric-railroad companies. Cars and general shop construction and repairs by steam-railroad companies. Confectionery and ice cream. Confectionery and ice cream. Confectionery. Ice cream. Copper, tin, and sheet-iron work. Flour-mill and gristmill products. Food preparations. Sweetening strups, other than cane. All other. Fur goods. Furs dressed. Gas, illuminating and heating. Ice, manufactured. Iron and steel, welding. Jewelry. Liquors, cereal beverages. Lumber, planing-mill products, not in cluding planing-mills connected with	5 255 119 14 47 47 4 47 5 30 6 37 119 18 34 6 69 111 10 6 6 6 6 9 10 11	17 12 427 127 300 32 5 89 24 11 6 6 6 4,107	10 7 309 6 127 9 24 3 3 	1	21 25 9 36 36 2 36 5 3 3 67 1 1 15 3 12 2 14 2 2 5 141 7	28 27 1 23 48 48 29 2 1 1 5 5 2 2 16 5 5 5	19 4 520 6 84 145 190 7 50 5, 812 5 134 74 60 70 360 13 8 595 264 20 2 2 6 3 6 3, 693 176	Jy 31 Je4 6 Jy 623 Je 11 Au 401 Jy 281 Jy 238 So 9 Ja 60 No 5,662 Fe 8 De 94 Au 70 Se4 77 Ja 14 Jy 100 Ja 3556 Je 18 Mh 7 (6) 2 Au 68 Je 18 Mh 47 (6) 3 Se4 62 No 4,071 Au 4 213	Ja 52 Pe 51. Fe 58. Jy 244 Fe 3 3 Oc 5 Ja 4 91 Au 170 Jo 15 (6) 2 Mh 59 Ja 4 10 Ja 5 (5) 3 Mh 4 23 Ab 3,128	29 4 524 6 390 155 187 49 5,340 6 153 94 59 79 9 384 15 6 9 291 100 191 24 2 6 3 6 6 6 6 7 9 291 100 100 100 100 100 100 100 1	29 3 524 5 529 154 105 49 5, 251 5 60 277 33 378 9 6 3 201 100 191 63 34, 983 191	15 1	1 2 1 1		176, 957 223, 222 9, 727, 396 71, 779 51, 925 19, 884 1, 695 461, 437 41, 176, 605 68, 720 11, 605 11,
38 36 36 36 36 36 40 41 42 43 44	sawmills. Marble and stone work, other than slate Mineral and carbonated waters. Patent medicines and compounds. Printing and publishing, book and job Printing and publishing, newspapers and periodicals Printing and publishing.	131 4 222 5 225 - 13 199	95 13 253 1,336 202 1,113 21 57 305	10 192 7 176 9 10 3 33	5 5 26	9 10 6 21 134 35 95 4 6 47	27 59 8	36- 210 44-	Jy 4 40 Jy 4 223 Ja 4 4	De 38 Jy 1 3 Fe 177 2 Ja 107 2 Fe 691 1 Ja 25 2 De 193	212	48 46 8 149 712 120 592 37 196 40	87 4 83	56		21, 392 794, 187 2, 841, 772 456, 805 2, 303, 955 21, 012 260, 993

* All other industries embrace-	
Artificial limbs	.1
Bone and carbon black	1
Boxes, wooden packing, except cigar	٠,
boxes.	2
Brass, bronze, and copper products	. 2

1	Brooms, from broom corn	1
1	Canning and preserving, vegetables	1
.	Carpets, rag	1
1	Cement	2
2	Chemicals.	2

ı	Cleansing preparations	
ı	Clothing, men's	
-	Coffee, roasting and grinding	
ı	Cutlery, scissors, shears, and clippers.	
ł	Dairymen's and apiarists' supplies	
1	Druggists' preparations	

	Electrical machinery, apparatus, and
;	Explosives
	Fertilizers. Furniture, store and office fixtures
	Hand stamps

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

1 2 3 4 5 6	ANACONDA BILLINGS BUTTE GREAT FALLS HELENA MISSOULA	115 73	360 792 1, 232 1, 418 668 1, 018	10 49 70 65 39 38	45 52 80 93 27 25	12 31 57 48 22 21	272 573 930 1, 157 539 908	Jy Jy Ja Au	328 626 971 1, 275 552 1, 001	De Ja Fe My Mh Ja	184 513 875 1,054 523 789	186 578 970 1, 193 552 891	176 534 800 1, 136 459 857	39 121 56 92	5 49 1	3, 388, 168 4, 018, 888 6, 083, 379 2, 138, 495 3, 678, 651

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

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

COMBINED AND SPECIFIED INDUSTRIES: 1919.

			EXPI	enses.				,				1	POWER.			
Salaries and wages.				Rent and taxes.		For materials.				Primary horsepower.						Floo
Officials.			For contract work.					Value of products.	Value added by manufac- ture.	Total.	Owned.					Elec- tric horse- power
	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.				Steam engines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Water pow- er.1	Rent- ed.²	gener ated in estab- lish- ments report ing.
		1	TH	E STAT	E-ALL	INDUSTRI	ES COMI	BINED AN	D SPECIF	ED IND	USTRII	es.				
Dollars 316,01		Dollars. 24,742,562	Dollars. 555,842	Dollars. 410,640	Dollars. 1,802,125	Dollars. 117,594,952	Dollars. 4,556,972	Dollars. 166, 664, 518	Dollars. 44, 512, 594	170, 206	38,865	3,234	1,484	24,711	101,912	4,297
2,400 45,24 39,25 36,06 60,900 8,470	40,596 69,647 15,339 70,495	31,402 6,430 774,973 5,898 436,626 194,459 254,197 10,312 53,032	177 21 1,309 393 8,647	2,080 98,655 2,202 56,960 1,135 10,094 300	419 175 22,280 332 15,976 13,212 19,641 1,309 5,322	23,928 14,892 544,688 23,336 1,866,552 115,608 3,416,583 33,193 46,465	2,228 592 60,597 232 68,133 84,314 46,868 837 4,426	79, 220 33, 893 2,038, 836 42,851 3,124,232 505,053 4,219,316 65,135 121,052	53,064 18,409 1,433,551 19,283 1,189,547 305,131 755,865 31,105 71,061	144 18 1,187 9 488 2,139 1,200 27 153	19 85 360 260	1	113 291 12 14 3	5	31 18 872 9 391 1,779 925 24 153	3 42
355,74	116,348	7,477,056 6,617		•••••	83, 234 227	2,673,637 93,455	216,910	10,957,439 107,110	8,066,892	5,689 27	3,078				2,611	2,056
17, 260 3, 590 13, 670 18, 673 150, 600 80, 595 29, 550 51, 049 4, 900 22, 857 3, 000	0,200 7,132 141,556 2,598 350 2,248 0,40,228 5,400 34,828 1,071	120,690 61,648 68,042 122,210 474,533 15,281 6,665 8,616 565,178 117,106 448,072 20,906 2,531 98,570 8,570 8,683	1,250 1,250 50 50	25,048 11,553 13,405 12,341 15,332 3,538 5,755 3,775 1,980 5,080 914 1,556 1,781	7,057 2,840 4,208 4,718 183,840 1,075 250 32,287 8,561 23,726 23,726 22 28,556 1,113	35, 150 207, 978 227, 172 289, 700 13, 936, 735 41, 797 9, 240 32, 557 508, 974 121, 363 387, 611 29, 932 10, 602 42, 906 3, 661 3, 561	1,655 17,052 5,337 11,715 3,405 155,521 1,403 787 616 62,697 13,555 49,142 570 384 154,203 13,465	809,950 392,523 417,427 565,318 16,386,055 96,156 38,921 57,234 1,494,658 414,754 1,079,904 78,563 29,014 486,767 56,662	12,000 357,748 179,208 178,540 272,153 2,293,799 52,955 28,804 24,061 922,987 270,836 643,151 48,061 18,028 289,568 30,536	218 53 165 22 6,572 28 8 20 1,412 239 1,173 5 4 170 264	1,720		12 5 2 3 529 8 8 16 16	250	3 213 51 162 22 4,073 20 20 1,396 1,173 5 4	125
28, 401 258, 890 34, 637	ŀ	8,160 80,332 4,666,716 263,420	409, 768 437	1,380 950 3,415 4,420	32,638 292,646 6,091	7,485 105,715 3,153,597 766,001	341 28,752 53,181 13,843	17,948 27,064 355,140 10,991,632 1,205,349	19, 238 220, 673 7, 784, 854 425, 505	14 6 1,002 16,067 1,153	525 14,673 134	13 995	126 17	187	14 6 464 86 1,002	1,586
12,700 12,780 2,100 63,470 223,942 51,020	117.045	77,000 66,848 2,675 223,458 1,120,993 165,877 955,116	3,000 373 54,862	810 6,435 90 17,186 99,718 16,274 82,126	5,239 5,832 212 20,892 54,054 19,429 34,576	84,547 190,034 15,317 268,004 988,924 149,437 839,447	4,462 7,040 226 8,564 61,137 9,341 51,790	296,534 377,474 34,943 849,810 3,912,779 817,315 3,017,805	207, 525 180, 400 19, 400 573, 242 2,862,718 658,537 2,126,568	248 115 8 183 1,306 202 1,104	24 25 25		2 7 248 6 242	3	246 90 1 183 1,030	
8,878 12,388 71,234 749,492	9, 269 121, 885	45,155 273,955 57,341 7,143,355	40,210 74,182	1,318 4,388 7,470 8,525 12,589	49 4,906 30,784 22,381 904,941	203,376 5,774,590 143,662	1,633 49,554 1,814 3,430,008	77,659 318,734 6,858,703 285,338	77,613 113,725 1,034,559 139,862 14,666,403	1,714 1,714 4 128,588	330	2,225	6 15	24, 265	16 1,369 4 84,608	472
aeoking-g ttresse terals (lass and pic sand spring and earths.	ture frames beds. ground or o	2	paper j Optical g Paving r Perfume Phonogr	patterns goods, lens naterials ry and cos aphs and g	rns, not inces	1 2 1 1 81	Shipbuilding building smelting as Smelting, le	sauces ig, wooden, id refining, ead	including copper	boat 1 3	Struct	uraliro ks or ro	nwork,	obile not made lls	in ste
	,		, C:	ITIES O	F 10,000 '	TO 50,000 I	NHABITA	ANTS—ALL	INDUSTI	RIES CO	MBINEI).				
54,929 115,508 180,815 159,192	190 376	504,418 767,705 1,204,213 1,485,197	96, 613 6, 697 2, 883 13, 912	4,322 52,214 73,323 48,296	17,157 58,164 67,858	450, 264 3, 464, 471 2, 683, 828 3, 915, 126	38,893 97,592 138,709	1,340,695 5,417,140 5,261,592 6,850,837	851,538 1,855,077 2,439,055 2,795,116	1,068 1,602 2,017 3,345	46 742 270 285			22	1,000 860 1,747	75 12

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

Same number reported for one or more other months.

Same number reported throughout the year.