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MANUFACTURES: 1919

KANSAS

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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.

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

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

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

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

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

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

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

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

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 18 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# KANSAS.

## GENERAL STATISTICS.

**General character of the state.**—Kansas has a gross area of 82,158 square miles, of which 81,774 represent land surface. The inhabitants of the state in 1900 numbered 1,470,495; in 1910, 1,690,949; and in 1920, 1,769,257. In total population Kansas ranked twenty-fourth among the states in 1920. The number of inhabitants per square mile in 1910 was 20.7, the corresponding figure for 1920 being 21.6, Kansas ranking thirty-third in this respect among the states.

In 1920 there were 17 cities in the state—Arkansas City, Atchison, Chanute, Coffeyville, El Dorado, Emporia, Fort Scott, Hutchinson, Independence, Kansas City, Lawrence, Leavenworth, Parsons, Pittsburg, Salina, Topeka, and Wichita—having more than 10,000 inhabitants. The combined population of these 17 cities in that year was 417,749, and formed 23.6 per cent of the total for Kansas, and in 1919 they reported 72.1 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 the value of products, from 1914 to 1919, as presented in Table 1, are in a great measure due to the changes in industrial conditions brought about by the World War. The increases, however, in average number of wage earners and horsepower are significant of the growth of manufacturing activities in the state. The addition of the Federal income tax since 1914 accounts for the large increase in "Rent and taxes."

**Statistics for the state, by counties** (Table 2).—Figures are not available for comparison of county totals for 1919 with those for prior censuses. Wyandotte County, which includes Kansas City, is far the most important of the 105 counties in the state, reporting 38.4 per cent of the average number of wage earners in the state, and 51.9 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 conclusive as indicating their importance from a manufacturing standpoint. In many instances their ranking would change materially if based upon the average number of wage earners or value added by manufacture.

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

age. Figures for individual industries will be found in Table 30.

**Average number of wage earners for selected industries** (Table 5).—The industries covered by this table are those which employed 300 or more wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

**Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more** (Table 6).—During the census period 1914-1919, all cities show increases in value of products, due largely to the increased value of commodities at the later period. Kansas City is by far the most important city in the state and shows an increase during this five-year period of 9,744, or 74.4 per cent, in the average number of wage earners, and \$308,986,255, or 193.5 per cent, in value of products. This city in 1919 reported 37.4 per cent of the total average number of wage earners in the state and 51.3 per cent of the value of products.

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

**Wage earners, by months, for selected industries and for cities** (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined and also for the 17 cities in the state having 10,000 or more inhabitants. 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 Kansas. In that year only 17.4 per cent of the wage earners were reported in the group "48 and under" as against 55.7 per cent in 1919. In 1914 the "60" and "over 60" groups constituted 51.6 per cent of the total wage earners, as compared with 13.1 per cent in 1919.

**Size of establishments, by average number of wage earners, for selected industries and for cities** (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 97.5 per cent were in the several classes having less than 101 wage earners, while such establishments employed but 33.3 per cent of the total number of wage

earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 2.5 per cent of the total manufacturing establishments in the state, but reported 66.7 per cent of the total number of wage earners.

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

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

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

**Character of ownership (Table 14).**—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 22.5 per cent of the number of establishments in the state in 1919, they reported 86.2 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 corporations increased 18,660, or 54.9 per cent, and the value of products \$561,374,224, or 195.1 per cent.

**Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).**—This table shows that the combined number of establishments in the 17 cities in 1919 represented 36.5 per cent of the total in the state. They reported in that year 68.8 per cent of the average number of wage earners and 72.1 per cent of the value of products.

**Principal industries in Kansas City, Topeka, and Wichita, with per cent of total for the state (Table 16).**—This table includes all industries in these three cities having products of \$500,000 and over for which figures can be shown without disclosing the operations of individual establishments. Of the industries shown in Table 16, the value of the products of the slaughtering and meat-packing industry was the most important in 1919, forming 81.4 per cent of the total for all industries in Kansas City, in which city it was chiefly located.

**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 54,964 horsepower, or 30.7 per cent. Of this increase, 10,213 horsepower, or 18.6 per cent, was for owned power, and 44,751 horsepower, or 81.4 per cent, was for rented power. During the five-year period, owned power increased 6.7 per cent, and rented power 161.5 per cent.

**Fuel consumed (Table 18).**—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. The four industries, slaughtering and meat packing, cement, cars and general shop construction and repairs by steam-railroad companies, and salt manufacture, consumed 57.2 per cent of the bituminous coal in 1919. Petroleum refining consumed 49.1 per cent of the fuel oils, and 35.2 per cent of the coke was used in the chemical industry.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	3,474	3,136	3,435	2,475	2,290	10.8	-8.7	38.8	
Persons engaged.....	77,009	52,032	54,649	42,057	( <sup>2</sup> )	48.0	-4.8	29.9	
Proprietors and firm members.....	3,562	3,247	3,571	2,766	( <sup>2</sup> )	9.7	-9.1	28.1	
Salaried employees.....	12,398	7,526	6,721	3,721	3,612	64.7	9.7	84.4	3.0
Wage earners (average number).....	61,049	41,259	44,215	35,570	27,119	48.0	-6.7	24.3	31.2
Primary horsepower.....	234,110	179,146	213,141	99,441	68,242	30.7	-15.9	114.3	45.7
Capital.....	\$357,534,129	\$163,789,752	\$156,000,067	\$88,680,117	\$59,458,256	118.3	4.9	76.0	49.1
Salaries and wages.....	94,855,672	34,982,745	33,255,308	22,575,562	15,925,317	171.1	5.2	47.3	41.8
Salaries.....	21,795,653	9,013,208	7,351,348	3,692,491	3,123,221	141.8	22.6	99.1	18.2
Wages.....	73,060,019	25,969,537	25,903,960	18,883,071	12,802,096	181.3	0.3	37.2	47.5
Paid for contract work.....	506,473	235,490	310,603	180,988	( <sup>2</sup> )	115.1	-24.2	66.1	
Rent and taxes.....	9,928,878	2,030,762	1,555,991	3,799,816	( <sup>2</sup> )	387.5	30.9		
Cost of materials.....	750,087,987	261,147,990	258,883,706	156,569,949	120,737,677	187.2	0.9	65.4	29.6
Value of products.....	913,667,094	323,234,194	325,104,002	198,244,992	154,008,544	182.7	-0.6	64.0	28.7
Value added by manufacture.....	163,579,107	62,086,204	66,220,296	41,736,043	33,270,867	163.5	-6.2	58.7	25.4

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

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

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

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



## MANUFACTURES—KANSAS.

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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
The state.....	3,474	61,049	\$73,060,019	\$9,928,878	\$750,087,987	\$913,667,094	\$163,579,107	234,110
Allen.....	42	1,321	1,563,747	116,763	5,027,408	9,230,109	3,602,701	12,982
Anderson.....	17	120	97,445	4,520	164,919	373,121	208,202	358
Atchison.....	61	995	1,031,381	108,582	5,897,750	8,784,920	2,887,164	5,675
Barber.....	20	65	78,316	7,280	570,489	728,880	158,391	908
Barton.....	49	537	654,906	116,749	8,177,967	9,747,325	1,509,358	3,077
Bourbon.....	38	645	681,695	129,863	3,546,193	5,019,064	1,472,871	2,322
Brown.....	35	722	975,414	11,185	707,727	1,925,267	1,217,540	606
Butler.....	71	865	1,275,574	208,800	13,174,412	16,834,748	3,660,336	3,571
Chase.....	6	12	15,681	1,570	17,103	49,693	32,500	332
Chautauque.....	31	39	41,370	4,918	96,247	186,642	91,395	212
Cherokee.....	49	280	351,620	69,904	2,939,679	3,798,450	858,771	1,733
Cheyenne.....	4	10	8,594	1,123	119,533	146,227	26,694	37
Clark.....	8	11	9,350	1,565	20,418	48,319	27,901	220
Clay.....	29	125	115,527	14,222	2,886,703	3,321,760	435,057	1,608
Cloud.....	32	136	128,424	55,622	3,096,173	3,852,762	750,589	1,227
Coffey.....	29	52	45,649	6,613	595,779	759,579	163,791	511
Comanche.....	9	12	9,802	1,419	49,641	82,603	32,062	67
Cowley.....	98	736	818,733	314,645	19,129,159	22,797,152	3,667,093	5,488
Crawford.....	119	1,797	2,016,635	130,677	4,802,014	7,549,421	3,287,407	4,061
Decatur.....	7	14	8,077	1,295	149,672	202,676	53,004	60
Dickinson.....	62	696	923,711	228,308	9,714,891	12,653,468	2,338,577	3,860
Doniphan.....	18	23	19,692	226,677	296,727	2,999	70,050	378
Douglas.....	66	524	836,381	62,391	3,619,178	4,754,614	1,135,430	3,587
Edwards.....	11	18	14,819	2,022	35,045	85,793	50,748	108
Elk.....	23	28	25,805	3,438	128,431	184,234	55,803	271
Ellis.....	15	159	226,628	51,536	2,128,325	2,583,602	455,337	1,349
Ellsworth.....	20	222	269,754	156,308	1,851,500	2,641,752	790,162	2,000
Finney.....	15	137	147,128	10,843	494,753	767,487	272,734	5,473
Ford.....	400	400	654,133	31,648	2,076,410	2,943,206	806,796	875
Franklin.....	30	270	287,113	29,631	2,143,250	3,015,052	872,093	913
Geary.....	24	181	251,527	30,015	1,393,336	1,936,065	542,729	1,768
Gove.....	5	3	1,705	273	3,553	10,623	7,070	16
Graham.....	3	3	1,695	642	1,684	7,251	5,567	7
Gray.....	3	4	1,096	615	4,072	15,304	11,232	14
Greenwood.....	17	15	16,194	2,173	78,844	128,728	40,684	293
Hamilton.....	6	21	30,263	1,422	37,750	83,112	45,062	31
Harper.....	35	125	136,468	53,392	2,988,873	3,455,955	467,082	1,159
Harvey.....	52	1,465	2,150,893	89,045	7,805,235	11,128,337	3,323,102	3,498
Haskell.....	3	2	1,700	643	4,835	13,271	8,436	3
Jackson.....	22	38	35,250	4,390	443,707	539,852	96,055	217
Jefferson.....	18	19	18,135	3,750	102,551	163,850	61,308	136
Jewell.....	17	21	10,878	3,028	81,004	137,535	55,631	102
Johnson.....	40	168	180,332	20,725	1,033,451	1,437,931	404,480	1,125
Kearny.....	4	3	2,000	557	77,015	88,670	11,004	311
Kingman.....	22	57	65,022	68,340	1,720,918	2,014,800	203,891	554
Kiowa.....	19	11	13,053	2,374	91,967	137,764	45,707	117
Labette.....	52	1,200	1,449,549	40,358	3,554,307	5,574,798	2,020,486	5,225
Leavenworth.....	75	1,367	1,208,097	174,314	9,749,071	13,093,690	3,344,619	4,081
Lincoln.....	17	25	29,103	5,128	307,161	400,260	99,099	513
Linn.....	16	20	24,126	30,264	630,102	769,715	139,613	317
Logan.....	6	14	20,905	1,607	26,704	65,241	38,537	16
Lyon.....	50	131	154,898	21,155	956,616	1,381,484	424,068	1,282
McPherson.....	63	180	205,602	56,692	5,850,880	6,901,830	1,110,950	2,465
Marion.....	32	72	78,752	14,808	1,040,473	1,289,879	240,406	667
Marshall.....	63	291	352,943	38,423	1,014,616	1,790,946	776,330	2,884
Meade.....	9	12	12,606	494	12,778	33,381	20,603	113
Miami.....	25	55	57,482	5,030	207,315	362,654	155,330	464
MITCHELL.....	26	62	75,568	14,064	1,521,020	1,758,065	287,936	871
Montgomery.....	137	3,648	4,976,667	890,781	27,845,775	38,119,598	10,273,793	18,444
Morris.....	14	102	70,136	2,070	778,071	926,054	147,983	269
Nemaha.....	34	66	57,567	8,586	102,638	253,555	150,017	430
Neosho.....	40	867	1,212,795	56,326	2,461,826	4,777,355	2,315,529	5,029
Ness.....	7	7	5,489	444	8,187	23,462	15,275	71
Norton.....	16	34	33,422	6,789	513,414	610,067	103,553	312
Osage.....	28	47	31,554	2,698	123,514	208,945	85,431	216
Osborne.....	19	33	32,777	5,861	208,056	313,035	104,979	372
Ottawa.....	13	25	32,515	5,292	701,731	835,935	134,204	706
Pawnee.....	23	54	56,201	10,651	1,084,738	1,325,473	240,735	880
Phillips.....	15	10	9,562	2,402	95,524	138,472	42,948	258
Pottawatomie.....	20	26	24,394	3,947	204,465	397,091	102,626	263
Pratt.....	27	270	349,721	78,341	1,549,864	2,188,294	638,430	947
Rawlins.....	5	7	8,462	520	62,729	84,635	21,936	61
Reno.....	137	2,032	2,373,633	731,995	18,030,065	26,183,862	7,503,297	12,267
Republic.....	19	33	34,609	3,947	148,410	231,325	82,615	197
Rice.....	43	301	226,981	61,647	3,417,381	4,435,219	1,017,888	3,087
Riley.....	59	162	100,339	21,108	1,143,998	1,554,741	410,743	1,025
Rooks.....	14	24	19,385	3,329	574,923	666,151	91,228	476
Rush.....	14	14	15,071	1,092	480,504	507,109	20,005	236
Russell.....	17	34	30,628	4,680	1,136,622	1,225,118	88,490	263
Saline.....	71	604	770,470	300,448	16,120,085	18,925,484	2,805,899	4,575
Scott.....	4	4	3,338	525	9,675	20,694	11,019	9
Sedgwick.....	206	4,432	4,877,980	1,110,435	61,182,258	76,502,679	15,320,421	10,605
Seward.....	9	35	42,394	5,737	558,068	716,329	158,261	344
Shawnee.....	174	5,632	6,463,264	502,561	31,264,086	45,812,624	14,548,528	14,682
Sheridan.....	3	3	1,600	105	9,740	16,419	6,679	37
Sherman.....	12	264	377,971	3,097	181,318	622,623	444,305	249
Smith.....	21	20	24,015	3,900	248,939	333,267	84,328	414
Stafford.....	22	99	109,381	13,213	2,853,677	3,350,085	496,408	986
Stevens.....	3	6	5,000	553	3,821	14,854	11,033	34
Sumner.....	58	500	800,924	192,686	10,460,224	12,601,628	2,144,404	2,615

## MANUFACTURES—KANSAS.

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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
Thomas.....	7	4	\$3,378	\$1,039	\$9,489	\$32,200	\$22,711	15
Trego.....	6	8	8,878	1,426	18,121	36,408	18,287	44
Wabaunsee.....	11	11	12,416	1,472	24,084	61,881	37,797	109
Wallace.....	3	57	98,130	1,092	31,938	152,926	120,988	151
Washington.....	20	20	17,319	2,395	246,898	323,840	76,042	135
Wilson.....	60	1,356	1,699,090	904,206	9,382,106	15,142,362	5,760,256	9,682
Woodson.....	14	26	23,363	1,977	36,631	78,174	41,543	151
Wyandotte.....	238	23,442	27,904,576	2,385,086	421,576,984	474,287,364	52,690,380	50,757
All other counties <sup>1</sup> .....	9	8	8,563	1,124	70,465	96,440	25,975	71

<sup>1</sup> All other counties comprise Grant, Greeley, Hodgeman, Lane, Morton, Stanton, and Wichita.

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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	3,474	61,049	100.0	\$913,667	100.0	\$163,579	100.0	Glass.....	5	584	1.0	\$2,133	0.2	\$1,527	0.9
Slaughtering and meat packing.....	28	17,805	29.2	427,863	46.8	39,804	24.3	Lumber, planing-mill products, not including planing mills connected with sawmills.....	55	436	0.7	2,107	0.2	853	0.5
Flour-mill and gristmill products.....	385	3,493	5.7	206,881	22.6	24,548	15.0	Paper and wood pulp.....	3	201	0.5	1,779	0.2	658	0.4
Petroleum, refining.....	29	2,221	3.6	63,786	7.0	12,450	7.6	Clothing, men's.....	11	487	0.8	1,743	0.2	817	0.5
Cars and general shop construction and repairs by steam-railroad companies.....	32	11,196	18.3	28,231	3.1	17,796	10.9	Saddlery and harness.....	88	181	0.3	1,490	0.2	525	0.3
Butter.....	59	740	1.2	24,444	2.7	3,288	2.0	Furniture.....	20	503	0.8	1,305	0.1	713	0.4
Foundry and machine-shop products.....	151	2,935	4.8	15,023	1.6	8,153	5.0	Cooperage.....	10	216	0.4	1,319	0.1	411	0.3
Bread and other bakery products.....	452	1,307	2.1	10,100	1.1	3,642	2.2	Cars, steam-railroad, not including operations of railroad companies.....	5	393	0.6	1,257	0.1	770	0.5
Printing and publishing, newspapers and periodicals.....	590	2,414	4.0	9,775	1.1	5,776	3.5	Marble and stone work.....	58	158	0.3	1,161	0.1	623	0.4
Cement.....	8	1,034	1.8	6,700	0.7	3,388	2.0	Mattresses and spring beds, not elsewhere specified.....	12	196	0.3	1,069	0.1	455	0.3
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	20	374	0.6	6,657	0.7	855	0.5	Coffee, roasting and grinding.....	11	58	0.1	1,040	0.1	183	0.1
Salt.....	12	1,072	1.8	6,193	0.7	3,986	2.4	Engines, steam, gas, and water.....	5	186	0.3	1,022	0.1	576	0.4
Smelting and refining, zinc.....	3	717	1.2	6,038	0.7	1,374	0.8	Food preparations, not elsewhere specified.....	8	87	0.1	996	0.1	232	0.1
Structural ironwork, not made in steel works or rolling mills.....	8	536	0.9	4,643	0.5	1,221	0.8	Explosives.....	4	66	0.1	955	0.1	449	0.3
Confectionery and ice cream.....	115	584	1.0	3,886	0.4	1,493	0.9	Copper, tin, and sheet-iron work.....	47	194	0.3	949	0.1	539	0.3
Druggetts' preparations.....	17	184	0.3	3,695	0.4	932	0.6	Tobacco, cigars.....	83	239	0.4	771	0.1	412	0.3
Ice, manufactured.....	137	822	1.3	3,509	0.4	2,390	1.5	Agricultural implements.....	14	129	0.2	770	0.1	317	0.2
Brick and tile, terra-cotta, and fire-clay products.....	29	1,136	1.9	3,407	0.4	2,208	1.4	Brooms, from broom corn.....	46	149	0.2	720	0.1	358	0.2
Automobile repairing.....	325	870	1.4	3,288	0.4	2,013	1.2	Mineral and carbonated waters.....	68	127	0.2	718	0.1	396	0.2
Printing and publishing, book and job.....	143	624	1.0	2,926	0.3	1,908	1.2	Paving materials.....	25	318	0.5	676	0.1	501	0.3
Condensed milk.....	6	187	0.3	2,810	0.3	563	0.3	Artificial stone products.....	77	118	0.2	555	0.1	313	0.2
								Wall plaster and composition flooring.....	4	131	0.2	545	0.1	352	0.2
								Patent medicines and compounds.....	27	41	0.1	513	0.1	325	0.2
								All other industries <sup>1</sup> .....	244	5,460	8.9	48,359	5.3	13,553	8.3

<sup>1</sup> Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Boxes, set-up paper boxes and shipping containers"; "boxes, wooden packing, except cigar boxes"; "brass and bronze products"; "chemicals"; "fertilizers"; "lamps"; "paints"; "smelting, lead"; and "soap."

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

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.						Male.	Female.
All classes.....	1919	77,009	68,137	8,872	88.5	11.5	Clerks and other subordinate salaried employees.....	1919	8,878	6,471	2,407	72.9	27.1
	1914	52,032	47,462	4,570	91.2	8.8		1914	5,894	4,852	1,042	82.3	17.7
	1909	54,649	50,156	4,493	91.8	8.2		1909	4,928	3,970	958	80.6	19.4
Proprietors and officials.....	1919	7,082	6,846	236	96.7	3.3		1919	61,049	54,820	6,229	89.8	10.2
	1914	4,879	4,733	146	97.0	3.0		1914	41,269	37,877	3,392	91.8	8.2
	1909	5,506	5,348	158	97.1	2.9	Wage earners (average number).....	1909	44,215	40,838	3,377	92.4	7.6
Proprietors and firm members.....	1919	3,562	3,405	157	95.6	4.4		1919	60,012	54,697	5,315	91.3	8.7
	1914	3,247	3,122	125	96.2	3.8	16 years of age and over.....	1914	41,083	37,718	3,365	91.8	8.2
	1909	3,571	3,440	131	96.3	3.7		1909	43,980	40,643	3,337	92.4	7.6
Salaried officers of corporations...	1919	838	808	30	96.4	3.6		1919	137	123	14	89.8	10.2
	1914	526	514	12	97.7	2.3	Under 16 years of age.....	1914	176	159	17	90.3	9.7
	1909	559	544	15	97.3	2.7		1909	235	195	40	83.0	17.0
Superintendents and managers...	1919	2,682	2,633	49	98.2	1.8							
	1914	1,106	1,097	9	99.2	0.8							
	1909	1,376	1,364	12	99.1	0.9							

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

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				16 years of age and over.		Un- der 16 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries .....	1919	61,049	89.6	10.2	0.2	Glass.....	1919	584	99.8	0.2	.....
	1914	41,250	91.4	8.2	0.4		1914	364	98.6	1.4	.....
	1909	44,215	91.9	7.5	0.5						
Automobile repairing.....	1919	870	99.4	0.6	.....	Ice, manufactured.....	1919	822	98.5	0.6	0.9
	1914	10	100.0	.....	.....		1914	634	99.7	0.3	.....
Bread and other bakery products .....	1919	1,307	73.6	25.2	1.2	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919	436	98.9	1.1	.....
	1914	1,001	82.0	16.9	1.1		1914	480	100.0	.....	.....
Brick and tile, terra-cotta, and fire-clay products.	1919	1,136	99.7	0.3	.....	Paving materials.....	1919	318	100.0	.....	.....
	1914	1,216	99.9	.....	0.1		1914	179	100.0	.....	.....
Butter.....	1919	740	74.2	25.8	.....	Petroleum, refining.....	1919	2,221	100.0	.....	.....
	1914	716	82.1	17.9	.....		1914	890	100.0	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.	1919	11,196	99.5	0.5	.....	Poultry, killing and dressing, not done in slaughtering and meat-packing establish- ments. <sup>2</sup>	1919	374	54.8	44.4	0.8
	1914	8,885	100.0	( <sup>1</sup> )	( <sup>1</sup> )						
Cars, steam-railroad, not including opera- tions of railroad companies. <sup>2</sup>	1919	393	98.0	2.0	.....	Printing and publishing, book and job.....	1919	624	66.5	32.7	0.8
							1914	551	72.0	27.6	0.4
Cement.....	1919	1,084	99.4	0.6	.....	Printing and publishing, newspapers and periodicals.	1919	2,414	59.5	37.0	3.5
	1914	1,002	99.9	0.1	.....		1914	2,226	70.1	27.1	2.8
Clothing, men's.....	1919	487	8.4	91.6	.....	Salt.....	1919	1,072	95.0	5.0	.....
	1914	377	6.4	93.6	.....		1914	467	95.5	4.5	.....
Confectionery and ice cream.....	1919	584	52.7	47.1	0.2	Slaughtering and meat packing.....	1919	17,895	87.4	12.6	.....
	1914	342	60.0	30.1	0.9		1914	9,884	91.9	8.1	0.1
Flour-mill and gristmill products.....	1919	3,493	98.4	1.6	.....	Smelting and refining, zinc.....	1919	717	100.0	.....	.....
	1914	2,357	99.4	0.6	.....		1914	811	100.0	.....	.....
Foundry and machine-shop products <sup>3</sup> .....	1919	2,939	99.5	0.3	0.1	Structural ironwork, not made in steel works or rolling mills.	1919	536	99.8	0.2	.....
	1914	1,533	99.8	0.2	.....		1914	449	100.0	.....	.....
Furniture.....	1919	503	92.4	7.2	0.4	All other industries.....	1919	8,394	85.3	14.6	0.2
	1914	413	99.6	0.5	.....		1914	6,486	83.9	14.7	1.4

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

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

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

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.		
	Total.			16 years of age and over.						Under 16 years of age.					
				Male.			Female.								
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Arkansas City	276			226			50						\$8,721,549		
Atchison	862	684	824	732	588	682	129	93	135	1	3	7	8,276,677	\$3,898,620	\$4,404,813
Chanute	195	131		175	89		17	19		3	23		1,089,575	495,638	
Coffeyville	1,225	497	895	1,160	480	855	46	17	40	10			16,654,662	3,788,260	3,831,858
El Dorado	181			129			1			1			1,438,706		
Emporia	106			80			17						1,031,851		
Fort Scott	596	422	209	490	320	201	97	101	65		1		4,251,006	1,530,275	1,010,033
Hutchinson	1,766	1,006	667	1,506	785	620	170	210	44		5	3	10,433,163	5,609,497	3,613,960
Independence	169	123	224	143	119	183	25	4	39	1		2	1,045,617	341,596	699,753
Kansas City	22,839	13,095	12,204	20,103	12,076	11,268	2,736	953	975		66	51	468,680,423	159,700,168	164,080,607
Lawrence	494	478	422	368	350	277	122	118	141	4	1	4	4,631,036	2,909,962	1,653,488
Leavenworth	1,319	1,233	1,305	1,171	1,128	1,162	145	102	130	3	3	13	11,330,465	4,776,223	4,659,289
Parsons	1,145	1,040	1,130	1,052	951	1,074	69	88	56	24	1		4,854,031	2,372,301	1,026,272
Pittsburg	1,594	1,078	972	1,519	1,048	952	71	20	19	4	1	1	5,271,125	2,168,880	1,816,866
Salina	630	420		558	302		72	118					17,939,239	3,761,652	
Topeka	5,597	4,828	4,244	4,730	4,325	3,743	847	490	488	14	13	13	45,707,711	20,684,520	17,820,761
Wichita	3,045	1,795	1,790	2,516	1,418	1,455	530	287	332			3	38,580,182	11,668,331	10,267,114

## MANUFACTURES—KANSAS.

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

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	62,187	40,351	47,337	94.1	94.4	88.6	July.....	60,242 <sup>2</sup>	42,361	44,075	91.2	99.1	94.4
February.....	58,723	39,743	41,621	88.9	93.0	89.2	August.....	61,956	41,834	44,817	93.8	97.9	96.0
March.....	58,037	39,986	42,554	87.8	93.5	91.2	September.....	62,762	42,288	46,105	95.0	98.9	98.3
April.....	58,503	40,170	42,697	85.5	94.0	91.5	October.....	63,411	42,760	46,679	96.0	100.0	100.0
May.....	58,334	40,681	43,462	88.3	95.2	93.1	November.....	66,669	42,290	46,594	100.0	98.9	99.8
June.....	59,551	41,295	44,411	90.1	96.6	95.1	December.....	64,813	41,354	46,228	98.1	96.7	99.0

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

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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	61,049	62,187	58,723	58,037	58,503	58,334	59,551	60,242	61,956	62,762	63,411	66,669	64,813	85.5
Males.....	54,820	54,977	52,154	52,143	51,013	52,654	53,681	54,341	56,088	56,828	57,349	58,631	57,931	87.0
Females.....	6,229	7,210	6,569	5,894	5,490	5,680	5,870	5,901	5,868	5,934	6,062	7,438	6,882	73.8
Automobile repairing.....	870	814	816	852	848	858	875	898	897	926	902	882	872	87.9
Bread and other bakery products.....	1,307	1,211	1,214	1,227	1,260	1,280	1,321	1,330	1,347	1,359	1,386	1,375	1,374	87.4
Brick and tile, terra-cotta, and fire-clay products.....	1,186	630	713	822	1,049	1,120	1,304	1,337	1,409	1,398	1,374	1,358	1,118	44.7
Butter.....	740	593	575	613	736	800	885	837	848	791	712	746	682	65.0
Cars and general shop construction and repairs by steam-railroad companies.....	11,190	11,031	11,231	11,303	10,905	10,833	10,810	10,787	11,041	11,154	11,667	11,737	11,853	91.0
Cars, steam-railroad, not including operations of railroad companies.....	393	441	437	445	381	401	393	360	355	368	379	368	368	79.8
Cement.....	1,084	766	855	907	1,045	1,145	1,048	1,123	1,101	1,087	1,377	1,355	1,119	55.6
Clothing, men's.....	487	525	527	495	441	466	472	486	483	496	484	490	479	83.7
Confectionery and ice cream.....	584	479	506	532	502	606	652	687	632	644	678	677	563	72.9
Flour-mill and gristmill products.....	3,493	3,349	3,074	3,055	3,075	3,189	3,048	3,181	3,871	4,053	4,051	3,999	3,971	75.2
Foundry and machine-shop products.....	2,935	2,672	2,672	2,714	2,711	2,807	2,804	2,906	3,019	3,119	3,223	3,189	3,390	78.8
Furniture.....	503	501	501	488	482	501	505	515	514	500	504	506	519	92.9
Glass.....	584	396	650	699	717	669	194	199	370	812	821	789	686	23.6
Ice, manufactured.....	822	468	487	561	685	875	1,097	1,206	1,309	1,151	841	617	517	35.0
Lumber, planing-mill products, not including planing mills connected with sawmills.....	436	588	380	403	421	441	443	440	430	464	482	474	448	80.5
Paving materials.....	318	212	203	235	320	375	389	363	360	383	399	368	169	49.9
Petroleum, refining.....	2,221	2,273	2,276	2,222	2,190	2,362	2,160	2,220	2,182	2,242	2,092	2,189	2,274	88.6
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	374	293	215	178	277	345	378	355	410	491	532	542	472	32.8
Printing and publishing, book and job.....	624	611	618	622	598	606	607	616	623	626	641	652	668	89.5
Printing and publishing, newspapers and periodicals.....	2,414	2,336	2,364	2,379	2,399	2,408	2,403	2,403	2,398	2,433	2,455	2,477	2,513	93.0
Salt.....	1,072	1,051	1,081	1,079	1,088	1,041	1,048	1,021	1,127	1,123	1,154	1,082	986	85.4
Slaughtering and meat packing.....	17,805	21,617	18,156	17,249	18,686	16,056	17,075	16,988	17,081	16,801	17,007	20,000	19,974	72.4
Smelting and refining, zinc.....	717	723	842	786	722	719	701	714	698	706	637	668	688	75.7
Structural ironwork, not made in steel works or rolling mills.....	536	575	552	470	534	499	521	488	465	480	567	616	665	69.0
All other industries.....	8,398	8,240	7,763	7,611	7,421	7,869	8,408	8,758	8,987	9,145	9,137	9,022	8,416	81.1
<i>Industries showing large proportion of females.</i>														
Bread and other bakery products.....	332	307	302	306	315	325	338	344	345	340	358	351	344	84.4
Butter.....	191	143	127	146	194	232	232	223	227	209	193	193	173	54.7
Clothing, men's.....	446	483	484	454	405	427	433	444	440	455	442	440	436	83.7
Confectionery and ice cream.....	275	243	257	267	261	274	280	272	263	290	290	308	295	78.9
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	168	117	65	49	134	181	189	177	189	223	242	248	202	19.8
Printing and publishing, book and job.....	205	205	202	205	193	203	202	205	206	200	206	211	222	86.9
Printing and publishing, newspapers and periodicals.....	895	886	883	880	899	905	896	905	881	893	899	909	904	96.8
Slaughtering and meat packing.....	2,238	3,337	2,819	2,235	1,831	1,831	1,871	1,830	1,727	1,672	1,828	3,106	2,769	50.1
Total for cities.....	41,989	44,052	40,675	39,887	38,296	39,551	41,026	41,511	42,678	42,621	42,979	45,698	44,894	83.8
Males.....	36,838	37,900	35,082	34,954	33,870	34,907	36,246	36,721	37,919	37,827	38,041	39,444	39,205	85.7
Females.....	5,151	6,152	5,593	4,933	4,426	4,644	4,780	4,790	4,759	4,794	4,938	6,254	5,689	71.7
ARKANSAS CITY.....	276	278	261	241	243	263	284	280	284	298	295	298	287	80.9
Males.....	226	244	224	201	207	214	226	219	235	239	238	234	231	82.4
Females.....	50	34	37	40	36	49	58	61	49	59	57	64	56	53.1
ATCHISON.....	862	880	835	811	828	810	808	860	892	951	902	896	871	85.0
Males.....	733	761	719	694	705	697	683	714	757	801	769	755	741	85.3
Females.....	129	119	116	117	123	118	125	146	135	150	133	141	130	75.3
CHANUTE.....	195	169	176	178	179	187	204	215	214	213	210	197	193	78.6
Males.....	177	156	160	161	166	178	184	195	195	191	186	177	180	80.0
Females.....	18	13	16	17	13	14	20	20	19	22	24	20	13	54.2
COFFEYVILLE.....	1,225	1,165	1,185	1,167	1,163	1,207	1,234	1,266	1,270	1,301	1,273	1,227	1,242	89.4
Males.....	1,179	1,123	1,141	1,124	1,118	1,160	1,187	1,217	1,219	1,256	1,224	1,182	1,197	89.0
Females.....	46	42	44	43	45	47	47	49	51	45	49	45	45	82.4
EL DORADO.....	131	108	106	111	114	123	123	145	148	144	144	149	162	63.6
Males.....	130	103	106	111	114	123	123	144	147	143	141	146	159	44.8
Females.....	1							1	1	1	3	3	3	33.3

# MANUFACTURES—KANSAS.

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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
EMPORIA.....	106	<i>81</i>	92	94	98	105	118	116	125	117	114	103	109	64.8
Males.....	99	<i>70</i>	75	77	81	89	101	99	106	99	96	85	90	66.0
Females.....	17	<i>11</i>	17	17	17	16	17	17	19	18	18	18	19	57.9
FORT SCOTT.....	596	<i>497</i>	542	533	543	595	620	635	677	637	628	628	617	73.4
Males.....	499	<i>404</i>	449	439	447	494	524	536	580	538	530	530	517	69.7
Females.....	97	<i>93</i>	93	94	96	101	96	99	97	99	98	98	100	92.1
HUTCHINSON.....	1,766	<i>1,682</i>	1,678	1,694	1,726	1,754	1,763	<i>1,616</i>	1,792	1,839	1,920	1,927	1,801	83.9
Males.....	1,596	<i>1,515</i>	1,533	1,539	1,570	1,590	1,598	<i>1,464</i>	1,695	1,645	1,725	1,740	1,628	84.1
Females.....	170	<i>167</i>	145	155	156	164	165	152	187	194	195	187	173	74.4
INDEPENDENCE.....	169	<i>148</i>	150	153	157	165	170	181	197	183	182	171	171	75.1
Males.....	144	<i>125</i>	127	129	132	139	145	156	171	157	156	145	146	73.1
Females.....	25	<i>23</i>	23	24	25	26	25	25	26	26	26	26	25	88.5
KANSAS CITY.....	22,830	<i>26,009</i>	22,611	21,875	<i>19,962</i>	20,667	21,908	22,357	22,842	22,517	22,705	25,605	25,010	76.8
Males.....	20,103	<i>22,181</i>	19,285	19,201	<i>17,811</i>	18,440	19,535	19,989	20,530	20,240	20,318	21,924	21,782	80.3
Females.....	2,736	<i>3,828</i>	3,326	2,674	<i>2,151</i>	2,227	2,373	2,368	2,312	2,277	2,387	3,681	3,228	56.2
LAWRENCE.....	494	535	505	382	415	453	518	543	525	548	543	514	447	69.7
Males.....	372	406	389	279	305	327	385	406	401	425	417	392	332	65.6
Females.....	122	129	116	703	110	126	133	137	124	123	126	122	115	75.2
LEAVENWORTH.....	1,319	<i>1,324</i>	1,302	<i>1,279</i>	1,287	1,320	1,269	1,317	1,344	1,309	1,324	1,353	1,370	93.4
Males.....	1,173	<i>1,158</i>	1,140	<i>1,125</i>	1,159	1,180	1,173	1,179	1,200	1,171	1,178	1,193	1,220	92.2
Females.....	146	<i>166</i>	162	154	128	140	126	138	144	138	146	160	150	75.9
PARSONS.....	1,145	<i>1,179</i>	1,137	1,144	1,168	1,163	1,156	1,125	1,154	1,126	1,136	1,133	<i>1,119</i>	94.9
Males.....	1,076	<i>1,123</i>	1,070	1,076	1,095	1,087	1,080	<i>1,044</i>	1,080	1,057	1,065	1,062	1,064	93.0
Females.....	69	<i>56</i>	58	68	73	76	70	81	74	69	71	71	55	67.9
PITTSBURG.....	1,594	<i>1,615</i>	1,582	1,639	1,561	1,553	1,548	<i>1,533</i>	1,583	1,621	1,633	1,627	1,630	93.5
Males.....	1,523	<i>1,547</i>	1,513	1,571	1,489	1,481	1,474	<i>1,463</i>	1,520	1,549	1,561	1,553	1,555	93.1
Females.....	71	<i>68</i>	69	68	72	72	74	70	63	72	72	74	75	88.0
SALINA.....	630	<i>526</i>	538	574	576	607	618	636	702	713	701	690	679	73.8
Males.....	558	<i>460</i>	469	499	513	544	547	567	637	633	621	606	600	72.2
Females.....	72	<i>66</i>	69	75	63	63	71	69	65	80	80	84	79	75.0
TOPEKA.....	5,597	<i>5,230</i>	5,288	5,310	5,511	5,625	5,588	5,580	5,646	5,714	5,896	5,866	5,910	88.5
Males.....	4,745	<i>4,400</i>	4,496	4,517	4,651	4,765	4,753	4,745	4,773	4,853	4,997	4,968	5,022	87.6
Females.....	852	<i>830</i>	792	793	860	860	835	835	873	861	899	898	888	88.1
WICHITA.....	3,045	<i>2,631</i>	2,687	2,702	2,765	2,954	3,067	3,106	3,280	3,390	3,373	3,314	3,271	77.6
Males.....	2,615	<i>2,124</i>	2,177	2,211	2,247	2,404	2,528	2,584	2,703	2,830	2,819	2,752	2,741	75.1
Females.....	530	<i>507</i>	510	491	518	550	539	522	517	560	554	562	530	87.4

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	61,049	1,650	1,060	31,266	2,208	6,023	10,858	5,437	2,547
	1914	41,259	(2)	(2)	7,194	1,315	3,583	4,893	13,957	7,347
	1909	44,215	(2)	(2)	4,218	3,520	6,079	3,148	20,124	6,526
Automobile repairing.....	1919	870	(2)	(2)	112	3	334	67	327	27
	1914	10	(2)	(2)	1				7	2
Bread and other bakery products.....	1919	1,307	8	1	544	20	247	216	225	46
	1914	1,001	(2)	(2)	151	8	239	41	460	102
Brick and tile, terra-cotta, and fire-clay products.....	1919	1,136	48	25	96		458	43	466	
	1914	1,216	(2)	(2)	78		80	36	1,022	
Butter.....	1919	740			113	5	60	14	265	283
	1914	716	(2)	(2)	24		176	15	150	361
Cars and general shop construction and repairs by steam-railroad companies.....	1919	11,196			3,819			7,374	3	
	1914	8,805	(2)	(2)	2,778	145	70	2,504	487	2,881
Cars, steam-railroad, not including operations of railroad companies <sup>2</sup> .....	1919	393			177	77	139			
Cement.....	1919	1,084					42	246	135	661
	1914	1,002							27	976
Clothing, men's.....	1919	487	282		205					
	1914	377	(2)	(2)	135	196	1	45		
Confectionery and ice cream.....	1919	584	6	31	87	44	210	39	42	125
	1914	342	(2)	(2)	11		45	6	172	108
Flour-mill and gristmill products.....	1919	3,493	7	9	1,612	3	116	158	1,118	470
	1914	2,357	(2)	(2)	61	1	34	2	1,377	882

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

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

<sup>3</sup> Not shown separately in 1914.

## MANUFACTURES—KANSAS.

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Foundry and machine-shop products <sup>2</sup> .....	1919	2,939	9	44	342	284	1,354	204	702	.....
	1914	1,533	( <sup>3</sup> )	( <sup>3</sup> )	65	25	444	141	858	.....
Furniture.....	1919	503	.....	.....	21	176	264	42	.....	.....
	1914	413	( <sup>3</sup> )	( <sup>3</sup> )	18	.....	85	.....	310	.....
Glass.....	1919	584	155	.....	76	.....	283	70	.....	.....
	1914	364	( <sup>3</sup> )	( <sup>3</sup> )	90	142	07	35	.....	.....
Ice, manufactured.....	1919	822	6	3	176	.....	80	116	161	280
	1914	634	( <sup>3</sup> )	( <sup>3</sup> )	9	.....	21	.....	106	498
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	436	.....	.....	71	10	279	7	69	.....
	1914	486	( <sup>3</sup> )	( <sup>3</sup> )	18	5	271	.....	187	5
Paving materials.....	1919	318	37	.....	73	12	43	.....	153	.....
	1914	179	( <sup>3</sup> )	( <sup>3</sup> )	5	61	.....	.....	34	79
Petroleum, refining.....	1919	2,221	.....	.....	1,200	.....	.....	954	36	31
	1914	890	.....	.....	.....	.....	.....	.....	278	612
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments. <sup>4</sup>	1919	374	.....	.....	86	.....	64	.....	224	.....
Printing and publishing, book and job.....	1919	624	1	.....	545	8	69	1	.....	.....
	1914	551	( <sup>3</sup> )	( <sup>3</sup> )	431	5	69	16	30	.....
Printing and publishing, newspapers and periodicals.....	1919	2,414	54	68	1,792	100	359	8	29	4
	1914	2,226	( <sup>3</sup> )	( <sup>3</sup> )	1,412	142	508	32	130	2
Salt.....	1919	1,072	.....	.....	3	.....	.....	284	503	285
	1914	467	( <sup>3</sup> )	( <sup>3</sup> )	.....	.....	.....	.....	328	136
Slaughtering and meat packing.....	1919	17,805	.....	.....	17,366	343	22	.....	74	.....
	1914	9,884	( <sup>3</sup> )	( <sup>3</sup> )	739	.....	3,384	2	5,759	.....
Smelting and refining, zinc.....	1919	717	.....	.....	304	.....	.....	413	.....	.....
	1914	811	.....	.....	.....	272	.....	285	.....	254
Structural ironwork, not made in steel works or rolling mills.....	1919	536	.....	.....	.....	3	464	69	.....	.....
	1914	449	( <sup>4</sup> )	( <sup>4</sup> )	70	.....	45	7	327	.....
All other industries.....	1919	8,394	1,037	879	2,449	1,120	1,136	533	905	335
	1914	6,486	( <sup>3</sup> )	( <sup>3</sup> )	1,095	313	1,014	1,696	1,908	460
Total for cities.....	1919	41,980	1,307	954	25,620	1,761	3,573	5,539	2,302	924
	1914	26,740	( <sup>3</sup> )	( <sup>3</sup> )	4,589	494	5,249	3,925	9,869	2,614
ARKANSAS CITY.....	1919	276	1	.....	45	5	92	12	118	3
ATCHISON.....	1919	862	31	.....	162	88	308	52	128	3
	1914	684	( <sup>3</sup> )	( <sup>3</sup> )	91	76	167	161	86	100
CHANUTE.....	1919	195	3	.....	90	.....	3	.....	85	14
	1914	131	( <sup>3</sup> )	( <sup>3</sup> )	46	11	11	.....	41	22
COFFEYVILLE.....	1919	1,225	.....	.....	605	2	231	182	180	25
	1914	497	( <sup>3</sup> )	( <sup>3</sup> )	52	.....	21	35	264	125
EL DORADO.....	1919	131	.....	.....	14	.....	21	.....	71	25
EMPORIA.....	1919	106	1	.....	34	.....	28	1	28	14
FORT SCOTT.....	1919	596	78	.....	123	.....	122	237	36	.....
	1914	422	( <sup>3</sup> )	( <sup>3</sup> )	148	.....	40	.....	28	206
HUTCHINSON.....	1919	1,766	15	.....	585	2	106	442	237	379
	1914	1,006	( <sup>3</sup> )	( <sup>3</sup> )	112	27	19	176	380	292
INDEPENDENCE.....	1919	169	.....	.....	71	6	23	5	60	4
	1914	123	( <sup>3</sup> )	( <sup>3</sup> )	30	.....	34	.....	44	15
KANSAS CITY.....	1919	22,839	854	868	18,586	362	522	1,239	231	127
	1914	13,095	( <sup>3</sup> )	( <sup>3</sup> )	772	197	3,801	687	6,231	1,407
LAWRENCE.....	1919	494	30	25	122	.....	46	18	231	22
	1914	478	( <sup>3</sup> )	( <sup>3</sup> )	123	28	41	16	254	16
LEAVENWORTH.....	1919	1,319	8	3	192	303	637	99	60	17
	1914	1,233	( <sup>3</sup> )	( <sup>3</sup> )	120	9	40	205	831	28
PARSONS.....	1919	1,145	37	.....	1,034	.....	26	9	.....	39
	1914	1,040	( <sup>3</sup> )	( <sup>3</sup> )	854	.....	47	35	85	19
PITTSBURG.....	1919	1,594	30	2	1,002	.....	244	27	231	49
	1914	1,078	( <sup>3</sup> )	( <sup>3</sup> )	628	.....	49	.....	344	57
SALINA.....	1919	630	.....	31	290	16	101	84	108	.....
	1914	420	( <sup>3</sup> )	( <sup>3</sup> )	51	58	82	.....	133	96
TOPEKA.....	1919	5,597	79	15	1,493	451	388	2,850	194	118
	1914	4,828	( <sup>3</sup> )	( <sup>3</sup> )	1,017	38	545	2,550	540	138
WICHITA.....	1919	3,045	131	10	1,181	526	585	273	254	85
	1914	1,705	( <sup>3</sup> )	( <sup>3</sup> )	545	50	352	60	608	90

<sup>1</sup> Includes "48 and under" for 1914 and 1909.  
<sup>2</sup> Includes "iron and steel, welding."

<sup>3</sup> Corresponding figures not available.  
<sup>4</sup> Not shown separately in 1914.



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

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																	
	Establishments.	Wage earners (average number).	No wage earners.		1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
			Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
All Industries.....	3,474	61,049	671	1,974	3,950	484	5,160	181	5,880	70	5,342	49	7,096	21	6,922	11	8,059	7	18,640	
Automobile repairing.....	325	870	43	254	528	25	230	2	48	1	64	2	270							
Bread and other bakery products.....	452	1,307	166	300	623	42	351	2	63											
Brick and tile, terra-cotta, and fire-clay products.....	29	1,136	1	1	2	6	90	14	530	6	384	1	130							
Butter.....	59	740		35	73	12	106	8	221	3	239	1	101							
Cars and general shop construction and repairs by steam-railroad companies.....	32	11,196		2	8	6	64			5	363	5	883	7	2,517	5	3,623	2	3,738	
Cars, steam-railroad, not including operations of railroad companies.....	5	393																		
Cement.....	1	1,084						1	21	3	105	1	177							
Clothing, men's.....	11	487		2	4	1	13	5	165	1	91	6	951							
Confectionery and ice cream.....	115	584	17	80	175	10	84	7	236	1	76	2	220							
Flour-mill and gristmill products.....	385	3,493	82	174	315	81	947	36	1,077	8	547	4	607							
Foundry and machine-shop products.....	151	2,935	24	60	103	35	371	14	462	11	833	6	845	1	321					
Furniture.....	20	503	3	6	20	5	38	3	137	1	61	2	247							
Glass.....	5	584								4	301									
Ice, manufactured.....	137	822	5	94	216	31	319	6	182	1	75			1	283					
Lumber, planing-mill products, not including planing mills connected with sawmills.....	55	436	6	29	56	14	140	5	165	1	75									
Paving materials.....	25	318	1	8	25	10	103	6	190											
Petroleum, refining.....	29	2,221		4	15	12	146	5	173	2	136	2	252	3	863	1	636			
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	20	374	1	7	29	8	121	2	51	1	52	1	121							
Printing and publishing, book and job.....	143	624	37	79	159	23	251	2	60	2	145									
Printing and publishing, newspapers and periodicals.....	590	2,414	164	365	701	45	469	14	435			1	111			1	698			
Salt.....	12	1,072				1	11	2	68	5	314	3	405	1	274					
Slaughtering and meat packing.....	28	17,805	1	5	18	6	50	5	171	1	70	1	164	2	716	2	1,702	5	14,902	
Smelting and refining, zinc.....	3	717										1	137	2	580					
Structural ironwork, not made in steel works or rolling mills.....	8	536		3	13	2	36	2	65					1	422					
All other industries.....	827	8,398	180	466	867	109	1,184	39	1,310	18	1,225	10	1,466	3	946	2	1,400			
Total for cities.....	1,267	41,989	169	623	1,424	260	2,931	110	3,644	43	3,054	31	4,400	9	3,092	6	4,705	7	18,640	
ARKANSAS CITY.....	42	276	7	24	47	8	97	2	77	1	55									
ATCHISON.....	52	862	4	24	50	13	153	8	280	2	145	1	210							
CHANUTE.....	23	195	1	13	26	7	74	1	31	1	64									
COFFEYVILLE.....	49	1,225	1	24	52	11	130	5	158	5	353	2	247	1	285					
EL DORADO.....	25	131		19	53	5	53	1	25											
EMPORIA.....	36	106	10	20	38	6	68													
FORT SCOTT.....	33	596	3	16	48	8	82	3	98	2	131	1	237							
HUTCHINSON.....	96	1,766	9	54	118	18	210	8	232	1	66	4	505	2	635					
INDEPENDENCE.....	32	169	1	21	66	10	103													
KANSAS CITY.....	196	22,839	37	83	173	27	276	17	585	10	758	10	1,542	3	1,242	3	2,288	6	15,975	
LAWRENCE.....	49	494	7	25	47	10	101	6	188			1	158							
LEAVENWORTH.....	60	1,319	6	36	100	10	80	10	341	3	221	4	562							
PARSONS.....	27	1,145		10	35	6	50	3	99	1	55					1	897			
PITTSBURG.....	67	1,594	8	37	87	13	122	4	152	2	170	2	241							
SALINA.....	64	630	8	31	94	15	173	9	207	1	66					1	822			
TOPEKA.....	169	5,597	17	77	164	43	491	21	660	7	479	1	121	1	319	1	698	1	2,665	
WICHITA.....	238	3,015	50	103	208	50	650	12	412	7	488	5	670	2	611					

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

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	3,474	3,136	3,435	61,049	41,259	44,215	\$913,667,094	\$323,234,104	\$325,104,002	\$163,579,107	\$62,086,204	\$66,220,296
Less than \$5,000.....	1,136	1,494	1,645	640	1,320	1,084	2,800,511	3,624,546	3,867,954	1,798,200	12,273,678	2,380,459
\$5,000 to \$20,000.....	1,200	951	1,002	2,612	3,106	3,425	12,255,265	9,292,496	9,809,793	6,600,440	4,958,789	5,083,622
\$20,000 to \$100,000.....	639	401	401	5,021	5,036	7,411	28,142,681	17,421,473	21,493,918	11,889,467	7,874,522	9,590,074
\$100,000 to \$500,000.....	289	208		10,127	13,993	15,475	66,111,849	47,662,897	55,547,057	25,056,257	20,326,426	22,039,748
\$500,000 to \$1,000,000.....	72	51	263	5,374			51,751,227	30,966,585		13,474,328		
\$1,000,000 and over.....	138	41	34	37,275	17,204	16,220	752,515,561	208,536,197	204,385,280	104,760,409	26,652,789	26,514,393
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	32.7	47.3	47.9	1.0	3.2	3.8	0.3	1.1	1.2	1.1	3.7	3.6
\$5,000 to \$20,000.....	34.5	30.3	29.2	4.3	7.5	7.7	1.3	2.9	3.0	4.0	8.0	7.7
\$20,000 to \$100,000.....	18.4	12.8	14.3	8.2	13.7	16.8	3.1	5.4	6.6	7.3	12.7	14.5
\$100,000 to \$500,000.....	8.3	6.6		16.6	33.9	35.0	7.2	14.7		15.3		
\$500,000 to \$1,000,000.....	2.1	1.6		8.8			5.7	11.4	26.3	8.2	32.7	34.2
\$1,000,000 and over.....	4.0	1.3	1.0	61.1	41.7	36.7	82.4	64.5	62.9	64.0	42.9	40.0

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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.				
	1919 1914		Per cent distribution.		1919 1914		Per cent distribution.		1919 1914		Per cent distribution.		1919 1914		Per cent distribution.		
			1919	1914			1919	1914			1919	1914			1919	1914	
AUTOMOBILE REPAIRING.....	325	6	100.0	100.0	870	10	100.0	100.0	\$3,288,214	\$24,890	100.0	100.0	\$2,012,793	\$16,349	100.0	100.0	
Less than \$5,000.....	142	3	43.7	50.0	111	6	12.8	60.0	397,048	7,890	12.1	31.7	287,787	5,010	14.3	30.6	
\$5,000 to \$20,000.....	158	3	48.6	50.0	471	4	54.1	40.0	1,445,573	17,000	44.0	68.3	1,024,607	11,339	50.9	69.4	
\$20,000 to \$100,000.....	21	—	6.5	—	156	—	17.9	—	603,467	—	20.2	—	402,187	—	20.0	—	
\$100,000 to \$500,000.....	4	—	1.2	—	132	—	15.2	—	782,126	—	23.8	—	298,212	—	14.8	—	
BREAD AND OTHER BAKERY PRODUCTS.....	452	472	100.0	100.0	1,307	1,001	100.0	100.0	10,099,615	3,914,365	100.0	100.0	3,641,892	1,693,659	100.0	100.0	
Less than \$5,000.....	81	263	17.9	55.7	28	168	2.1	16.8	231,711	752,989	2.3	19.2	91,992	367,329	2.5	21.7	
\$5,000 to \$20,000.....	255	185	57.1	39.2	371	474	28.4	47.4	2,792,500	1,810,319	27.6	46.2	1,066,219	781,595	29.3	46.1	
\$20,000 to \$100,000.....	104	21	23.0	4.4	494	195	37.8	19.5	4,101,023	770,773	40.6	19.7	1,306,321	293,447	35.9	17.3	
\$100,000 and over.....	9	3	2.0	0.6	414	164	31.7	16.4	2,974,381	580,284	29.4	14.8	1,177,360	251,288	32.3	14.8	
BRICK AND TILE, TERRAZZOTA, AND FIRE-CLAY PRODUCTS.....	29	29	100.0	100.0	1,136	1,216	100.0	100.0	3,407,019	1,953,307	100.0	100.0	2,208,192	1,318,328	100.0	100.0	
Less than \$5,000.....	—	5	—	17.2	—	10	—	0.8	—	10,906	—	0.6	—	7,623	—	0.6	—
\$5,000 to \$20,000.....	—	3	—	10.3	—	28	—	2.3	—	30,031	—	1.5	—	22,396	—	1.7	—
\$20,000 to \$100,000.....	13	15	44.8	51.7	1,253	531	22.3	43.7	1,553,132	806,003	16.2	41.3	1,383,001	543,938	17.3	41.3	
\$100,000 to \$500,000.....	16	6	55.2	20.7	883	647	77.7	53.2	2,853,887	1,105,767	83.8	56.6	1,825,191	744,371	82.7	56.5	
BUTTER.....	50	58	100.0	100.0	740	716	100.0	100.0	24,443,067	9,556,878	100.0	100.0	3,287,715	1,341,146	100.0	100.0	
Less than \$5,000.....	—	6	—	10.3	—	2	—	0.3	—	16,757	—	0.2	—	4,140	—	0.3	—
\$5,000 to \$20,000.....	7	17	11.9	29.3	9	28	1.2	3.9	94,005	228,890	0.4	2.4	18,527	62,455	0.6	4.7	
\$20,000 to \$100,000.....	27	19	45.8	32.8	74	72	10.0	10.1	1,206,230	546,692	5.3	5.7	211,284	128,270	6.4	9.6	
\$100,000 to \$500,000.....	10	10	16.9	17.2	74	614	10.0	85.8	1,939,945	2,479,740	7.9	25.9	332,736	1,146,275	10.1	85.5	
\$500,000 to \$1,000,000.....	6	6	10.2	10.3	152	—	20.5	—	4,628,897	6,284,799	18.9	65.8	384,766	—	11.7	—	
\$1,000,000 and over.....	9	—	15.3	—	431	—	58.2	—	16,484,590	—	67.4	—	2,340,412	—	71.2	—	
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.....	32	37	100.0	100.0	11,196	8,865	100.0	100.0	28,230,850	12,889,361	100.0	100.0	17,795,761	9,592,122	100.0	100.0	
\$5,000 to \$20,000.....	4	6	12.5	16.2	23	72	0.2	0.8	18,836	67,303	0.2	0.5	35,237	49,309	0.2	0.7	
\$20,000 to \$100,000.....	4	10	12.5	27.0	49	401	0.4	4.5	159,777	411,721	0.6	3.2	113,450	251,898	0.6	3.8	
\$100,000 to \$500,000.....	9	13	28.1	35.1	1,006	8,392	9.0	94.7	2,324,641	2,954,390	8.2	22.9	1,674,999	2,290,915	9.4	95.4	
\$500,000 to \$1,000,000.....	6	8	18.8	21.6	1,981	—	17.7	—	4,743,697	9,455,947	16.8	73.4	3,091,858	—	17.4	—	
\$1,000,000 and over.....	9	—	28.1	—	8,137	—	72.7	—	20,953,899	—	74.2	—	12,880,217	—	72.4	—	
CONFECTIONERY AND ICE CREAM.....	115	73	100.0	100.0	584	342	100.0	100.0	3,886,336	1,251,985	100.0	100.0	1,492,097	520,497	100.0	100.0	
Less than \$5,000.....	27	24	23.5	32.9	16	16	2.7	4.7	77,729	58,780	2.0	4.7	33,875	33,151	2.3	6.4	
\$5,000 to \$20,000.....	48	35	41.7	47.9	96	95	16.4	27.8	546,447	363,034	14.1	29.0	230,185	174,258	15.4	33.5	
\$20,000 to \$100,000.....	32	11	27.8	15.1	168	156	28.8	45.6	1,346,392	481,608	34.6	38.5	440,928	192,341	29.9	37.0	
\$100,000 to \$500,000.....	8	3	7.0	4.1	304	75	52.1	21.9	1,918,768	348,503	49.3	27.8	781,709	120,747	52.4	23.2	
DRUGGISTS' PREPARATIONS.....	17	19	100.0	100.0	184	125	100.0	100.0	3,694,847	958,686	100.0	100.0	932,313	432,066	100.0	100.0	
Less than \$5,000.....	3	—	17.6	—	—	—	—	—	4,302	—	0.1	—	2,401	—	0.3	—	
\$5,000 to \$20,000.....	5	47	29.4	36.8	8	31	4.3	24.8	63,989	459,850	1.7	6.2	35,947	430,940	3.9	9.2	
\$20,000 to \$100,000.....	—	9	—	47.4	—	63	—	50.4	414,511	484,625	43.2	—	205,548	—	47.6	—	
\$100,000 and over.....	9	3	52.9	15.8	176	31	95.7	24.8	3,626,556	484,325	98.1	50.5	893,965	186,618	95.9	43.2	
FLOUR-MILL AND GRISTMILL PRODUCTS.....	385	360	100.0	100.0	3,493	2,357	100.0	100.0	206,881,360	72,894,736	100.0	100.0	24,547,822	8,652,564	100.0	100.0	
Less than \$5,000.....	73	69	19.0	19.2	11	32	0.3	1.4	182,279	182,174	0.1	0.2	32,986	49,275	0.1	0.6	
\$5,000 to \$20,000.....	74	92	19.2	25.6	33	90	0.9	4.2	773,905	1,020,181	0.4	1.4	118,397	201,254	0.5	2.3	
\$20,000 to \$100,000.....	87	84	22.6	23.3	194	206	5.6	8.7	4,023,310	3,661,824	1.9	5.0	559,955	580,929	2.3	6.7	
\$100,000 to \$500,000.....	55	69	14.3	19.2	381	1,269	10.9	53.8	12,815,761	19,170,577	6.2	26.3	1,726,148	4,392,155	7.0	50.8	
\$500,000 to \$1,000,000.....	27	30	7.0	8.3	343	—	9.8	—	18,664,055	21,943,115	9.0	30.1	1,897,370	—	7.7	—	
\$1,000,000 and over.....	60	16	17.9	4.4	2,581	751	72.5	31.9	170,421,990	26,916,865	82.4	36.9	20,212,966	3,428,951	82.3	39.6	
FOUNDRY AND MACHINE-SHOP PRODUCTS.....	154	100	100.0	100.0	2,939	1,533	100.0	100.0	15,049,782	4,356,679	100.0	100.0	8,167,317	2,159,740	100.0	100.0	
Less than \$5,000.....	50	34	32.5	34.0	22	30	0.7	2.0	134,588	92,008	0.9	2.1	97,044	68,186	1.2	3.2	
\$5,000 to \$20,000.....	37	31	24.0	31.0	94	138	3.2	9.0	363,871	299,621	2.4	6.9	235,534	194,403	2.9	9.0	
\$20,000 to \$100,000.....	29	23	18.8	23.0	343	497	11.7	32.4	1,452,883	1,169,909	9.7	26.9	818,230	610,462	10.0	28.3	
\$100,000 to \$500,000.....	32	12	20.8	12.0	1,536	888	52.3	56.6	6,238,676	2,794,241	41.5	64.1	3,590,203	1,286,689	44.0	59.6	
\$500,000 and over.....	6	—	3.9	—	944	—	32.1	—	6,869,764	—	45.6	—	3,420,306	—	41.9	—	
ICE, MANUFACTURED.....	137	101	100.0	100.0	822	634	100.0	100.0	3,509,107	1,794,797	100.0	100.0	2,390,079	1,287,357	100.0	100.0	
Less than \$5,000.....	36	20	26.3	19.8	31	29	3.8	4.6	104,174	66,955	3.0	3.7	69,561	47,160	2.9	3.7	
\$5,000 to \$20,000.....	51	53	37.2	52.5	131	190	15.9	30.0	566,751	544,483	16.2	30.3	368,398	380,184	15.4	29.5	
\$20,000 to \$100,000.....	47	28	34.3	27.7	521	415	63.4	65.5	2,249,765	1,183,359	64.1	65.9	1,479,727	860,013	61.9	66.8	
\$100,000 to \$500,000.....	3	—	2.2	—	139	—	16.9	—	588,417	—	16.8	—	472,393	—	19.8	—	
PETROLEUM, REFINING.....	29	13	100.0	100.0	2,221	890	100.0	100.0	63,785,520	8,922,718	100.0	100.0	12,449,751	1,737,757	100.0	100.0	
\$100,000 to \$500,000.....	18	9	27.6	69.2	175	136	3.4	15.3	2,143,150	3,072,176	3.4	34.4	716,872	617,157	1.3	35.5	
\$500,000 to \$1,000,000.....	7	—	24.1	—	158	—	7.1	—	4,520,257	—	7.1	—	566,523	—	4.6	—	
\$1,000,000 and over.....	14	4	48.3	30.8	1,988	754	89.5	84.7	57,122,113	5,850,542	89.6	65.6	11,717,350	1,120,600	94.1	64.5	
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	590	633	100.0	100.0	2,414	2,226	100.0	100.0	9,774,647	5,479,833	100.0	100.0	5,776,120	3,650,504	100.0	100.0	
Less than \$5,000.....	345	457	58.5	72.2													

<sup>1</sup> Includes the groups "Less than \$5,000" and "\$5,000 to \$20,000."

<sup>2</sup> Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

<sup>3</sup> Includes the group "\$1,000,000 and over."

<sup>4</sup> Includes the group "Less than \$5,000."

<sup>5</sup> Includes the group "\$500,000 to \$1,000,000."

<sup>6</sup> Includes "iron and

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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
SALT.....	12	9	100.0	100.0	1,072	467	100.0	100.0	6,192,693	1,334,269	100.0	100.0	3,986,174	673,395	100.0	100.0
Less than \$100,000.....		6		66.7		160		34.3		341,505		25.6		216,500		32.2
\$100,000 to \$500,000.....	19	23	75.0	33.3	1,495	2,307	46.2	65.7	12,073,235	992,761	33.5	74.4	1,425,259	2,456,829	35.8	67.8
\$500,000 and over.....	3		25.0		577		53.8		4,119,458		66.5		2,560,915		64.2	
SLAUGHTERING AND MEAT PACKING.....	28	26	100.0	100.0	17,805	9,884	100.0	100.0	427,663,145	151,647,123	100.0	100.0	39,894,434	15,095,58	100.0	100.0
Less than \$100,000.....	5	8	17.9	30.8	14	35	0.1	0.4	296,885	343,908	0.1	0.2	33,635	67,812	0.1	0.4
\$100,000 to \$500,000.....	8	9	28.6	34.6	84	216	0.5	2.2	1,931,643	2,614,053	0.5	1.7	220,980	2,486,600	0.6	3.1
\$500,000 to \$1,000,000.....	3		10.7		100		0.6		2,076,157		0.5		236,997		0.6	
\$1,000,000 and over.....	12	9	42.9	34.6	17,007	9,633	98.9	97.5	423,358,460	148,680,162	99.0	98.0	39,312,822	15,141,150	98.8	96.5
STRUCTURAL IRONWORK, NOT MADE IN STEEL WORKS OR ROLLING MILLS.....	8	9	100.0	100.0	536	449	100.0	100.0	4,643,478	2,518,777	100.0	100.0	1,220,900	518,403	100.0	100.0
Less than \$100,000.....	3	4	37.5	44.4	13	34	2.4	7.6	138,268	65,315	3.0	2.6	30,621	34,072	2.5	6.6
\$100,000 and over.....	5	5	62.5	55.6	523	415	97.6	92.4	4,505,210	2,453,462	97.0	97.4	1,190,279	484,331	97.5	93.4

Includes the group "\$20,000 to \$100,000."

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

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

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ARKANSAS CITY.....	42	276	100.0	\$8,721,549	100.0	\$1,423,672	100.0	KANSAS CITY.....	196	22,839	100.0	\$408,686,423	100.0	\$51,167,968	100.0
Less than \$5,000.....	16	8	2.9	48,350	0.6	28,387	2.0	Less than \$5,000.....	36	12	0.1	100,136	(?)	61,322	0.1
\$5,000 to \$20,000.....	11	22	8.0	128,455	1.5	55,193	3.9	\$5,000 to \$20,000.....	64	100	0.4	659,497	0.1	320,706	0.6
\$20,000 to \$100,000.....	10	95	34.4	421,264	4.8	217,265	17.4	\$20,000 to \$100,000.....	30	372	1.6	1,774,942	0.4	484,155	0.9
\$100,000 and over.....	5	151	54.7	8,123,480	93.1	1,092,227	76.8	\$100,000 to \$500,000.....	20	1,220	5.4	7,131,050	1.5	2,850,472	5.6
ATCHISON.....	52	802	100.0	8,276,677	100.0	2,527,071	100.0	\$500,000 to \$1,000,000.....	6	731	3.2	4,405,317	0.9	1,610,374	3.1
Less than \$20,000.....	21	40	4.6	104,754	2.4	100,290	4.0	\$1,000,000 and over.....	22	20,395	80.3	44,615,481	97.0	45,831,030	89.9
\$20,000 to \$100,000.....	17	162	18.8	780,284	9.4	308,717	15.8	LAWRENCE.....	49	494	100.0	4,631,036	100.0	1,070,772	100.0
\$100,000 to \$500,000.....	11	344	30.9	2,952,861	35.7	937,037	37.1	Less than \$5,000.....	12	6	1.2	37,100	0.8	23,066	2.1
\$500,000 and over.....	3	316	39.7	4,348,778	52.5	1,091,327	43.2	\$5,000 to \$20,000.....	17	58	11.7	161,710	3.5	108,984	10.8
CHANUTE.....	23	195	100.0	1,089,575	100.0	504,768	100.0	\$20,000 and over.....	20	430	87.0	4,432,226	95.7	947,722	87.1
Less than \$5,000.....	4	3	1.5	8,811	0.8	4,064	1.0	LEAVENWORTH.....	69	1,319	100.0	11,330,465	100.0	3,154,911	100.0
\$5,000 to \$20,000.....	9	26	13.3	109,970	10.1	54,063	10.8	Less than \$5,000.....	6	2	0.2	12,455	0.1	6,726	0.2
\$20,000 to \$100,000.....	7	52	26.7	395,794	36.3	163,334	32.4	\$5,000 to \$20,000.....	20	84	6.4	352,082	3.1	188,335	6.0
\$100,000 to \$500,000.....	3	114	58.5	575,000	52.8	281,807	55.8	\$20,000 to \$100,000.....	17	150	11.4	736,763	6.4	356,188	11.3
COFFEYVILLE.....	49	1,225	100.0	16,654,662	100.0	4,304,089	100.0	\$100,000 to \$500,000.....	13	784	59.4	2,601,305	25.6	1,277,906	40.5
Less than \$5,000.....	6	3	0.2	22,943	0.1	10,460	0.2	\$500,000 and over.....	4	299	22.7	7,333,860	64.7	1,325,756	42.0
\$5,000 to \$20,000.....	13	31	2.5	154,660	0.9	81,917	1.9	PARSONS.....	27	1,145	100.0	4,854,031	100.0	1,735,832	100.0
\$20,000 to \$100,000.....	17	107	13.6	818,409	4.9	412,293	9.6	Less than \$20,000.....	14	32	2.8	121,367	2.5	68,144	3.9
\$100,000 to \$500,000.....	10	491	40.1	2,006,732	17.5	1,177,820	27.4	\$20,000 to \$100,000.....	8	71	6.5	430,192	8.9	170,379	9.8
\$1,000,000 and over.....	3	533	43.5	12,751,028	76.6	2,021,089	90.9	\$100,000 and over.....	5	1,039	90.7	4,302,472	88.6	1,497,309	85.3
EL DORADO.....	25	131	100.0	1,438,706	100.0	506,023	100.0	PITTSBURG.....	67	1,594	100.0	5,271,125	100.0	2,757,048	100.0
Less than \$5,000.....	3	2	1.5	5,970	0.4	4,792	0.9	Less than \$5,000.....	18	9	0.6	41,092	0.8	28,006	1.0
\$5,000 to \$20,000.....	9	32	24.4	118,701	8.3	75,466	14.9	\$5,000 to \$20,000.....	23	61	3.8	240,440	4.6	135,034	4.0
\$20,000 to \$100,000.....	9	65	49.6	361,264	25.1	182,343	36.0	\$20,000 to \$100,000.....	15	187	11.7	796,152	15.1	370,418	13.4
\$100,000 and over.....	4	32	24.4	952,771	66.2	243,422	48.1	\$100,000 and over.....	11	1,337	88.9	4,192,541	79.5	2,223,590	80.7
EMPORIA.....	36	106	100.0	1,031,851	100.0	364,573	100.0	SALINA.....	64	630	100.0	17,939,239	100.0	2,649,072	100.0
Less than \$5,000.....	15	9	8.5	33,882	3.3	19,602	5.4	Less than \$5,000.....	10	8	1.3	17,851	0.1	13,143	0.5
\$5,000 to \$20,000.....	12	20	18.9	130,062	13.3	72,607	19.9	\$5,000 to \$20,000.....	19	37	9.0	239,115	1.3	140,038	5.3
\$20,000 and over.....	9	77	72.6	861,007	83.4	272,364	74.7	\$20,000 to \$100,000.....	23	222	35.2	1,172,517	6.5	502,907	21.2
FORT SCOTT.....	33	506	100.0	4,251,006	100.0	1,268,195	100.0	\$100,000 to \$500,000.....	7	172	27.3	1,822,408	10.2	451,657	17.0
Less than \$5,000.....	6	4	0.7	15,287	0.4	8,037	0.7	\$1,000,000 and over.....	5	171	27.1	14,687,348	81.9	1,481,397	55.9
\$5,000 to \$20,000.....	7	21	3.5	87,552	2.1	51,616	4.1	TOPEKA.....	169	5,597	100.0	45,707,711	100.0	14,474,647	100.0
\$20,000 to \$100,000.....	14	165	27.7	556,971	13.1	291,152	23.0	Less than \$5,000.....	32	28	0.5	95,448	0.2	67,006	0.5
\$100,000 and over.....	6	406	68.1	3,591,196	84.5	910,700	72.3	\$5,000 to \$20,000.....	49	124	2.2	488,724	1.1	277,519	1.9
HUTCHINSON.....	96	1,766	100.0	19,433,103	100.0	6,416,366	100.0	\$20,000 to \$100,000.....	49	409	8.4	1,948,474	4.3	1,161,219	8.0
Less than \$5,000.....	16	7	0.4	41,403	0.2	22,268	0.3	\$100,000 to \$500,000.....	20	791	14.1	5,777,053	12.6	2,320,352	16.1
\$5,000 to \$20,000.....	37	89	5.0	383,444	2.0	210,017	3.3	\$500,000 to \$1,000,000.....	3	88	1.6	2,010,223	4.4	401,011	2.8
\$20,000 to \$100,000.....	21	136	7.7	973,218	5.0	348,576	5.4	\$1,000,000 and over.....	10	4,097	73.2	35,387,779	77.4	10,238,540	70.7
\$100,000 to \$500,000.....	12	383	21.7	2,431,200	12.5	1,030,248	16.1	WICHITA.....	238	3,045	100.0	38,580,182	100.0	11,234,212	100.0
\$500,000 to \$1,000,000.....	3	311	17.6	2,244,943	11.6	1,060,041	16.5	Less than \$5,000.....	62	23	0.8	136,988	0.4	87,577	0.8
\$1,000,000 and over.....	7	840	47.6	13,358,895	68.7	3,745,216	58.4	\$5,000 to \$20,000.....	71	146	4.8	760,626	2.0	427,062	3.8
INDEPENDENCE.....	32	169	100.0	1,045,617	100.0	499,254	100.0	\$20,000 to \$100,000.....	64	473	15.5	2,507,367	7.8	1,455,242	13.0
Less than \$20,000.....	15	41	24.3	168,986	16.2	98,783	19.8	\$100,000 to \$500,000.....	28	908	28.8	8,114,373	15.8	2,775,519	24.7
\$20,000 and over.....	17	128	75.7	876,631	83.8	400,471	80.2	\$500,000 to \$1,000,000.....	5	497	16.3	3,600,191	9.4	965,617	8.6
								\$1,000,000 and over.....	8	998	32.8	25,151,037	65.2	5,517,195	40.1

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

Less than one-tenth of 1 per cent.

## MANUFACTURES—KANSAS.

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.				
All industries.....	1919	1,939	781	754	61,049	5,163	52,651	3,235	8.5	86.2	5.3	\$913,667,094	\$29,292,754	\$849,071,270	\$35,303,070	3.2	92.9	3.9				
	1914	1,007	639	590	41,259	4,835	33,991	2,433	11.7	82.4	5.9	323,234,194	18,455,306	287,697,026	17,081,862	5.7	89.0	5.3				
	1909	2,006	723	706	44,215	5,755	35,938	2,522	13.0	81.3	5.7	325,104,002	22,694,827	285,637,061	16,772,114	7.0	87.9	5.2				
Automobile repairing....	1919	211	15	99	870	429	161	280	49.3	18.5	32.2	3,288,214	1,463,262	781,832	1,043,120	44.5	23.8	31.7				
	1914	4	.....	2	10	110	.....	.....	100.0	.....	.....	24,800	1,24,800	.....	.....	100.0	.....	.....				
Bread and other bakery products.	1919	360	11	81	1,307	670	387	250	51.3	29.6	19.1	10,099,615	5,246,718	2,605,985	2,246,912	51.9	25.8	22.2				
	1914	402	6	64	1,001	674	179	148	67.3	17.9	14.8	3,914,365	2,634,665	652,696	627,004	67.3	16.7	16.0				
Brick and tile, terra-cotta, and fire-clay products.	1919	4	23	2	1,130	1,206	930	.....	18.1	81.9	.....	3,407,019	1,552,696	2,854,323	.....	16.2	83.8	.....				
	1914	5	21	3	1,216	1,175	1,041	.....	14.4	85.6	.....	1,953,307	1,725,930	.....	.....	11.6	88.4	.....				
Butter.....	1919	17	27	15	740	34	630	67	4.6	86.3	9.1	24,443,667	644,057	21,137,547	2,662,063	2.6	86.5	10.9				
	1914	19	23	10	716	33	624	59	4.6	87.2	8.2	9,566,878	263,395	8,235,252	1,058,231	2.8	86.2	11.1				
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	32	.....	11,196	.....	11,196	.....	100.0	.....	.....	28,230,850	.....	28,230,850	.....	100.0	.....	.....				
	1914	.....	37	.....	8,865	.....	8,865	.....	100.0	.....	.....	12,889,361	.....	12,889,361	.....	100.0	.....	.....				
Cement.....	1919	.....	7	1	1,084	.....	1,084	.....	100.0	.....	.....	6,699,799	.....	6,699,799	.....	100.0	.....	.....				
	1914	1	8	.....	1,002	.....	1,002	.....	100.0	.....	.....	3,161,900	.....	3,161,900	.....	100.0	.....	.....				
Confectionery and ice cream.	1919	61	18	36	584	119	285	180	20.4	48.8	30.8	3,886,336	874,835	1,919,214	1,092,287	22.5	49.4	28.1				
	1914	52	9	12	342	113	141	88	33.0	41.2	25.7	1,251,985	416,483	484,509	350,993	33.3	38.7	28.0				
Druggists' preparations.....	1919	4	11	2	184	5	179	.....	2.7	97.3	.....	3,694,847	139,802	3,655,045	.....	1.1	98.9	.....				
	1914	2	15	2	126	112	113	.....	9.6	90.4	.....	958,686	111,000	847,686	.....	11.6	88.4	.....				
Flour-mill and gristmill products.	1919	110	167	108	3,493	176	2,962	355	5.0	84.8	10.2	208,881,300	3,994,058	187,284,398	15,002,844	1.9	90.5	7.5				
	1914	142	119	99	2,357	260	1,767	330	11.0	75.0	14.0	72,894,736	5,211,923	58,562,532	9,120,281	7.1	80.3	12.5				
Foundry and machine-shop products. <sup>1</sup>	1919	69	50	35	2,639	215	2,427	297	7.3	82.6	10.1	15,049,782	852,443	12,432,927	1,764,412	5.7	82.6	11.7				
	1914	45	33	22	1,533	256	1,189	88	16.7	77.6	5.7	4,356,679	565,420	3,791,259	254,209	13.0	81.2	5.8				
Ice, manufactured.....	1919	39	64	34	822	74	656	92	9.0	79.8	11.2	3,509,107	309,870	2,821,105	378,132	8.8	80.4	10.8				
	1914	19	66	16	634	52	519	63	8.2	81.9	9.9	1,794,797	159,430	1,507,100	128,267	8.9	84.0	7.1				
Petroleum, refining.....	1919	.....	28	1	2,221	.....	2,221	.....	100.0	.....	.....	63,785,520	.....	63,785,520	.....	100.0	.....	.....				
	1914	.....	12	1	890	.....	890	.....	100.0	.....	.....	8,922,718	.....	8,922,718	.....	100.0	.....	.....				
Printing and publishing, newspapers and periodicals.	1919	440	48	102	2,414	1,648	517	249	68.3	21.4	10.3	9,774,647	6,643,637	2,120,134	1,010,876	68.0	21.7	10.3				
	1914	478	52	103	2,226	1,497	476	253	67.2	21.4	11.4	5,479,833	3,641,847	1,271,810	566,176	66.5	23.2	10.3				
Salt.....	1919	1	11	.....	1,072	.....	1,072	.....	100.0	.....	.....	6,192,693	.....	6,192,693	.....	100.0	.....	.....				
	1914	1	8	.....	467	.....	467	.....	100.0	.....	.....	1,334,269	.....	1,334,269	.....	100.0	.....	.....				
Slaughtering and meat packing.	1919	5	17	6	17,805	39	17,729	37	0.2	99.6	0.2	427,663,145	688,664	425,683,369	1,291,112	0.2	99.5	0.3				
	1914	6	15	5	9,884	28	9,808	48	0.3	99.2	0.5	151,647,123	331,031	150,606,933	709,169	0.2	99.3	0.5				
Structural ironwork, not made in steel works or rolling mills.	1919	1	5	2	536	.....	507	29	94.6	5.4	.....	4,643,478	.....	4,476,321	2167,157	96.4	3.6	.....				
	1914	2	6	1	449	.....	422	27	94.0	6.0	.....	2,518,777	.....	2,464,332	54,445	97.8	2.2	.....				
Total for cities.....	1919	580	387	294	41,989	2,061	37,304	1,724	7.1	88.8	4.1	658,943,018	16,101,168	624,232,018	18,609,837	2.4	94.7	2.8				
	1914	544	305	206	26,740	2,577	22,836	1,327	9.6	85.4	5.0	223,755,922	8,184,211	207,662,998	8,009,013	3.7	92.8	3.6				
ARKANSAS CITY.....	1919	21	10	11	276	58	205	13	21.0	74.3	4.7	8,721,549	322,870	8,306,548	92,131	3.7	95.2	1.1				
ATCHISON.....	1919	21	22	9	802	93	719	50	10.8	83.4	5.8	8,276,677	376,782	6,081,754	1,818,141	4.6	79.5	22.0				
	1914	32	18	10	684	112	515	57	16.4	75.3	8.3	3,898,620	279,813	2,705,669	913,138	7.2	69.4	23.4				
CHANUTE.....	1919	9	5	9	195	19	119	57	9.7	61.0	29.2	1,089,575	73,474	448,969	567,132	6.7	41.2	52.1				
	1914	16	5	6	131	26	80	25	19.8	61.1	19.1	495,638	88,064	305,224	102,360	17.8	61.6	20.7				
COFFEYVILLE.....	1919	19	18	12	1,225	68	1,085	72	5.6	83.6	5.9	16,654,662	394,181	15,959,334	301,147	2.4	95.8	1.8				
	1914	21	13	11	497	55	410	32	11.1	82.5	6.4	3,788,259	167,001	3,461,416	159,842	4.4	91.4	4.2				
EL DORADO.....	1919	9	7	9	131	25	67	39	19.1	51.1	29.8	1,438,706	124,864	1,023,661	290,181	8.7	71.2	20.2				
EMPORIA.....	1919	26	6	4	106	67	29	10	63.2	27.4	9.4	1,031,851	764,156	150,678	117,017	74.1	14.6	11.3				
FORT SCOTT.....	1919	10	13	10	596	39	488	69	6.5	81.9	11.6	4,251,006	201,768	3,853,877	195,361	4.7	90.7	4.6				
	1914	12	12	9	422	43	334	45	10.2	79.1	10.7	1,580,275	235,402	1,217,903	126,970	14.0	77.1	8.0				
HUTCHINSON.....	1919	43	33	20	1,766	120	1,548	98	6.8	87.7	5.5	19,433,163	734,091	17,811,378	887,694	3.8	91.7	4.6				
	1914	32	24	15	1,006	93	835	78	9.2	83.0	7.8	5,609,497	313,498	4,878,469	417,530	5.6	87.0	7.4				
INDEPENDENCE.....	1919	16	6	10	169	62	68	39	36.7	40.2	23.1	1,045,617	338,023	364,002	343,592	32.3	34.8	32.9				
	1914	12	7	4	123	30	79	5	31.7	64.2	4.1	341,696	104,656	214,426	22,614	30.6	62.8	6.6				
KANSAS CITY.....	1919	93	66	37	22,839	286	22,371	182	1.3	97.9	0.8	468,686,423	2,349,854	463,857,167	2,479,402	0.5	99.0	0.5				
	1914	103	66	32	13,095	368	12,549	178	2.8	95.8	1.4	159,700,168	1,582,858	157,466,359	650,951	1.0	98.6	0.4				
LAWRENCE.....	1919	24	11	14	494	91	151	252	18.4	30.6	51.0	4,631,036	423,448	448,161	3,759,427	9.1	9.7	81.2				
	1914	26	6	9	478	143	88	247	29.9	18.4	51.7	2,909,962	303,046	197,694	2,409,222	10.4	6.8	82.8				
LEAVENWORTH.....	1919	33	21	15	1,319	170	1,014	135	12.9	76.9	10.2	11,330,465	756,775	9,851,353	722,337	6.7	86.9	6				

# MANUFACTURES—KANSAS.

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

	Cen- sus year.	Aggregate	CITIES HAVING A POPULATION OF 10,000 OR OVER.								THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.
Number of places.....	1919 1914 1909		17 14 12		14 11 9		2 3 3		1			
Population <sup>1</sup> .....	1920 1915 1910	1,700,257 1,781,897 1,690,949	417,740 368,628 303,843	23.6 20.7 18.0	194,333 162,283 125,378	11.0 9.1 7.4	122,239 206,345 178,465	6.9 11.6 10.6	101,177	5.7	1,351,508 1,416,269 1,357,106	76.4 79.3 82.0
Number of establishments.....	1919 1914 1909	3,474 3,136 3,435	1,267 1,055 1,038	36.5 33.6 30.2	664 494 448	19.1 15.8 13.0	407 561 590	11.7 17.9 17.2	196	5.6	2,207 2,081 2,397	63.5 66.4 69.8
Average number of wage earners.....	1919 1914 1909	61,040 41,259 44,215	41,080 29,740 26,033	68.8 64.8 59.6	10,508 7,112 6,705	17.2 17.2 15.2	8,642 19,628 18,328	14.2 47.6 41.4	22,830	37.4	19,090 14,519 19,182	31.2 35.2 43.4
Value of products.....	1919 1914 1909	\$913,607,094 323,234,191 325,104,002	\$958,943,018 223,755,922 215,484,804	72.1 69.2 69.3	\$105,968,702 31,702,003 23,316,322	11.6 9.8 7.2	\$81,287,893 192,053,019 192,108,482	9.2 59.4 59.1	\$168,686,423	51.3	\$251,724,076 99,478,272 109,610,198	27.9 30.8 33.7
Value added by manufacture.....	1919 1914 1909	163,579,107 62,086,204 60,220,206	108,068,373 39,183,104 36,942,479	64.8 63.1 55.8	29,191,546 9,406,550 8,184,585	17.8 15.2 12.4	25,708,850 20,776,554 28,757,894	15.7 48.0 43.4	51,167,968	31.3	37,510,734 22,003,100 20,277,817	35.2 36.9 44.2

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

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

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase over 1914.			Amount, 1919.	Per cent of total for the state.	Increase over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
KANSAS CITY.					TOPEKA—Continued.				
Slaughtering and meat packing.....	\$381,694,618	89.3	\$247,868,280	185.2	Printing and publishing, book and job...	\$981,097	33.5	\$459,959	88.3
Flour-mill and gristmill products.....	20,092,423	14.1	23,539,522	423.9	Bread and other bakery products.....	683,568	6.8	351,738	106.0
Foundry and machine-shop products.....	3,338,968	22.2	180,469	5.7	Brass and bronze products.....				
Druggists' preparations.....	2,508,638	67.0	( <sup>1</sup> )		Cars and general shop construction and repairs by steam-railroad companies...				
Butter.....	1,447,278	5.0	1,304,894	2,062.8	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Cooperage.....	1,090,227	83.3	684,418	105.0	Slaughtering and meat packing.....				
Bread and other bakery products.....	772,996	7.7	379,180	90.3					
Ice, manufactured.....	585,021	16.7	320,655	126.4					
Boxes, paper, shipping containers.....					WICHITA.				
Boxes, wooden packing, except cigar boxes.....					Flour-mill and gristmill products.....	20,443,650	9.9	13,955,664	215.1
Cars and general shop construction and repairs by steam-railroad companies.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	Bread and other bakery products.....	1,546,942	15.3	1,105,615	250.5
Fertilizers.....					Printing and publishing, newspapers and periodicals.....	1,443,652	14.8	937,457	185.2
Petroleum, refining.....					Printing and publishing, book and job...	850,758	20.1	591,761	228.5
Soap.....					Foundry and machine-shop products.....	631,235	4.2	302,162	91.8
Structural ironwork, not made in steel works or rolling mills.....					Confectionery and ice cream.....	608,308	15.7	( <sup>1</sup> )	
TOPEKA.					Butter.....				
Flour-mill and gristmill products.....	11,665,480	5.6	7,109,919	156.1	Cars and general shop construction and repairs by steam-railroad companies.....		( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Butter.....	4,588,739	18.8	1,397,693	43.8	Druggists' preparations.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Printing and publishing, newspapers and periodicals.....	3,370,070	34.5	1,597,358	90.1	Lamps.....				
Foundry and machine-shop products.....	1,281,039	8.5	925,631	200.4	Rubber tires, tubes, and rubber goods, not elsewhere specified.....				

<sup>1</sup> Figures can not be shown without disclosing individual operations.

## MANUFACTURES—KANSAS.

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

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	8,940	5,246	4,038	234,110	179,146	213,141	100.0	100.0	100.0
Owned.....	1,952	2,025	2,438	161,667	151,444	200,579	69.0	84.5	94.1
Steam.....	1,078	997	1,244	129,589	123,075	170,293	55.4	68.7	79.9
Engines.....	1,018	( <sup>2</sup> )	( <sup>2</sup> )	112,591	( <sup>2</sup> )	( <sup>2</sup> )	48.1	7.3	—
Turbines.....	60	( <sup>2</sup> )	( <sup>2</sup> )	10,998	( <sup>2</sup> )	( <sup>2</sup> )	4.5	—	—
Internal-combustion engines.....	798	956	1,080	25,781	22,041	22,580	11.0	12.3	10.6
Water.....	76	72	109	6,337	6,328	7,708	2.7	3.5	3.6
Water wheels and turbines.....	63	66	89	5,987	6,313	7,484	2.6	3.5	3.5
Water motors.....	13	6	20	350	15	222	0.1	( <sup>2</sup> )	0.1
Rented.....	6,988	3,221	1,603	72,453	27,702	12,562	30.9	15.5	5.9
Electric.....	6,988	3,221	1,603	72,288	26,802	11,809	30.9	15.0	5.5
Other.....	—	—	—	165	900	753	0.1	0.5	0.4
Electric.....	9,532	5,396	3,384	120,568	64,482	46,921	100.0	100.0	100.0
Rented.....	6,988	3,221	1,603	72,288	26,802	11,809	60.0	41.6	25.0
Generated by establishments reporting.....	2,544	2,175	1,781	48,280	37,680	35,112	40.0	58.4	74.8

<sup>1</sup> Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.  
<sup>2</sup> Less than one-tenth of 1 per cent.

<sup>3</sup> Not reported separately.

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

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oil (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	6,213	1,403,043	60,523	3,168,330	21,408	13,022,876
Per cent of increase <sup>1</sup> .....	10,318 —61.9	1,138,712 23.2	32,332 87.2	1,820,948 75.2	( <sup>1</sup> ) ( <sup>1</sup> )	16,590,302 —21.5
Bread and other bakery products.....	605	7,041	1,050	4,689	508	123,095
Brick and tile, terra-cotta, and fire-clay products.....	—	88,392	—	10,474	—	1,154,527
Butter.....	35	18,037	—	2,386	31	20,411
Cars and general shop construction and repairs by steam-railroad companies.....	105	153,297	824	328,933	82	29,248
Cement.....	—	195,432	2,500	144,160	49	1,796,222
Chemicals.....	—	8,990	21,321	6,621	—	100
Condensed milk.....	—	7,532	—	667	163	76,583
Flour-mill and gristmill products.....	3,845	72,324	9	293,650	14,210	137,723
Foundry and machine-shop products.....	53	5,764	18,677	5,365	458	62,012
Gas, illuminating and heating.....	—	8,713	643	12,405	5	—
Ice, manufactured.....	8	94,086	725	79,735	883	343,426
Paints.....	—	32,635	—	—	1	66
Paper and wood pulp.....	—	15,250	—	27,085	10	—
Petroleum, refining.....	—	58,352	—	1,555,484	—	3,102,277
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	—	5,703	—	606	19	6,715
Salt.....	—	128,085	533	31,538	—	35,927
Slaughtering and meat packing.....	—	325,831	—	562,089	1,432	33,266
Smelting, lead.....	—	9,000	—	—	—	888
Smelting and refining, zinc.....	—	10,390	11,200	234	—	5,251,309
Soap.....	—	80,841	—	—	—	—
Sulphuric, nitric, and mixed acids.....	—	17,330	—	—	—	—
Wall plaster and composition flooring.....	—	4,476	—	17,860	158	—
All other industries.....	1,562	46,583	3,032	84,349	3,399	848,241
Total for cities.....	1,787	867,438	42,256	1,198,914	3,038	703,745
ARKANSAS CITY.....	—	67	45	30,195	1	25,578
ATCHISON.....	—	12,324	2,923	57	88	6,088
CHANUTE.....	—	276	90	13,150	—	18,316
COFFEYVILLE.....	7	42,864	162	265,132	69	374,381
EL DORADO.....	—	17	200	21,550	218	3,323
EMPORIA.....	46	6,601	83	1,255	1	588
FORT SCOTT.....	—	16,194	2,507	—	153	2,698
HUTCHINSON.....	2	103,135	22,251	50,816	3	60,573
INDEPENDENCE.....	6	30	250	—	35	56,237
KANSAS CITY.....	187	506,674	10,363	459,286	2,100	40,496
LAWRENCE.....	—	19,955	25	29	9	6,697
LEAVENWORTH.....	13	23,761	593	684	—	5,639
PARSONS.....	—	16,797	420	66,037	17	9,230
PITTSBURG.....	10	55,077	387	10,049	29	6,884
SALINA.....	19	10,388	238	24,032	15	151
TOPEKA.....	11	40,353	809	184,600	29	19,289
WICHITA.....	1,486	12,935	850	72,042	271	66,977

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

<sup>2</sup> A minus sign (—) denotes decrease.



## SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for six of these industries in Kansas 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; the cost of all other materials, which includes the cost of poultry, dressed meat purchased for curing and for making lard compounds and substitutes, and oleo oil, cottonseed oil, refrigeration, seasoning, curing materials, fuel, rent of power, mill supplies, and freight; and the quantity and value of the principal products that can be shown without disclosing the operations of individual establishments. Under "All other products" is included the value of canned sausage, oils (other than oleo), oleo stearin, meat puddings, head cheese, etc., hoofs, horns, horntips, strips and waste, skins (other than cattle, calf, and sheep), hog and cattle hair, cattle switches, beef extract, stock food, ice, serum, and virus.

Since the 1914 census, the cost of materials increased \$251,907,168, or 185.3 per cent, and the value of products \$276,016,022, or 182 per cent. The actual production increase is noted by the number of animals slaughtered in 1919 and 1914. The increase in beefs was 489,617, or 49.4 per cent; calves 256,869, or 197.4 per cent; and hogs 1,712,288, or 60.6 per cent. The only decrease was 358,748, or 23 per cent, in sheep, lambs, goats, and kids.

This state is second in rank in the slaughtering and meat-packing industry in value of products for the United States, and has held that rank since 1904. Of the total value of products of the industry in the state, \$381,694,618, or 89.2 per cent, was produced in Kansas City.

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

MATERIALS.	1919	1914	1909
Total cost.....	\$387,858,711	\$135,951,543	\$147,645,000
Animals slaughtered, cost.....	\$335,002,508	\$119,006,102	\$127,959,029
Beef—			
Number.....	1,479,805	990,188	1,362,572
Cost.....	\$135,490,811	\$61,624,924	\$63,452,070
Calves—			
Number.....	386,971	130,102	209,357
Cost.....	\$9,444,901	\$1,897,440	\$2,202,653
Sheep and lambs, goats and kids—			
Number.....	1,201,150	1,559,898	1,153,303
Cost.....	\$12,584,632	\$7,754,246	\$5,261,352
Hogs—			
Number.....	4,538,052	2,825,704	4,191,927
Cost.....	\$177,542,104	\$45,629,492	\$57,042,048
All other materials, cost.....	\$52,796,203	\$16,045,441	\$19,686,061

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

PRODUCTS.	1919	1914	1909
Total value.....	\$427,663,145	\$151,647,123	\$165,360,516
Fresh meat, value.....	\$161,521,664	\$76,746,849	\$73,293,288
Beef—			
Pounds.....	506,203,758	474,292,677	686,615,803
Value.....	\$102,543,726	\$53,055,007	\$52,129,824
Veal—			
Pounds.....	45,030,726	14,797,191	25,731,826
Value.....	\$7,264,133	\$1,685,249	\$2,343,974
Mutton and lamb, goat and kid—			
Pounds.....	43,392,645	58,814,735	43,884,755
Value.....	\$9,425,850	\$6,878,662	\$4,418,666
Pork—			
Pounds.....	137,022,776	116,002,775	150,199,802
Value.....	\$33,291,363	\$13,309,953	\$13,757,643
Edible offal and other fresh meat—			
Pounds.....	77,662,283	28,467,808	8,465,481
Value.....	\$8,996,583	\$1,757,018	\$583,181
Cured meat, value.....	\$134,188,488	\$36,562,746	\$41,416,085
Beef, pickled and other cured—			
Pounds.....	11,243,674	7,592,670	7,318,060
Value.....	\$1,870,183	\$997,754	\$491,896
Pork, pickled and other cured—			
Pounds.....	442,962,131	269,884,018	304,998,559
Value.....	\$132,318,305	\$35,564,992	\$40,924,196
Canned goods:			
Pounds.....	67,443,442	12,012,553	17,891,713
Value.....	\$21,740,342	\$2,429,247	\$1,870,568
Sausage:			
Pounds.....	39,325,972	17,706,704	30,000,707
Value.....	\$7,720,842	\$2,004,456	\$2,858,090
Lard:			
Pounds.....	108,754,230	83,753,215	148,408,252
Value.....	\$33,190,657	\$9,050,020	\$16,748,155
Lard compounds and substitutes:			
Pounds.....	46,615,693	40,987,740	( <sup>1</sup> )
Value.....	\$11,038,742	\$3,431,621	( <sup>1</sup> )
Oleo oil:			
Gallons.....	2,262,164	1,913,087	3,590,372
Value.....	\$4,746,646	\$1,208,808	\$2,995,219
Tallow and oleo stock:			
Pounds.....	28,036,704	<sup>2</sup> 13,253,821	21,794,761
Value.....	\$3,728,904	<sup>2</sup> \$854,605	\$1,050,288
Oleomargarine:			
Pounds.....	19,873,546	10,400,870	9,094,584
Value.....	\$5,782,568	\$1,485,536	\$1,187,779
Grease and soap stock:			
Pounds.....	10,709,936	5,517,805	( <sup>1</sup> )
Value.....	\$1,001,599	\$224,397	( <sup>1</sup> )
Casings:			
Pounds.....	10,041,550	8,265,030	( <sup>1</sup> )
Value.....	\$1,242,561	\$945,388	( <sup>1</sup> )
Fertilizers and fertilizer materials:			
Tons.....	36,304	<sup>3</sup> 30,437	62,515
Value.....	\$1,052,638	<sup>3</sup> \$953,029	\$1,383,390
Glue:			
Pounds.....	4,743,306	3,408,265	<sup>4</sup> 3,107,025
Value.....	\$640,470	\$234,444	<sup>4</sup> \$171,689
Hides and pelts:			
Cattle—			
Number.....	1,479,805	990,188	
Pounds.....	78,202,014	54,524,910	
Value.....	\$24,603,340	\$8,943,073	
Calf—			
Number.....	315,079	84,941	
Pounds.....	5,305,550	1,330,010	
Value.....	\$2,696,362	\$229,423	
Sheep—			
Number.....	1,199,374	1,559,141	
Pounds.....	\$3,328,567	\$1,527,343	
Value.....			
All other products, value.....	\$8,469,740	\$4,725,238	\$9,561,162

<sup>1</sup> Not reported separately.<sup>2</sup> No oleo stock reported.<sup>3</sup> No fertilizers manufactured.<sup>4</sup> Includes gelatin.

**Flour-mill and gristmill products** (Table 20).—This table shows the details as to quantity and value of products of the industry in Kansas, for 1919, 1914, and 1909.

Wheat flour was the chief product of the industry in the state in 1919 and in 1914, its value forming 82.9 per cent and 77.5 per cent, respectively, of the

total value reported for the industry in those years. In 1919 the value of bran and middlings formed 12.1 per cent of the total value of products and feed and offal 3.3 per cent. The corresponding percentages in 1914 were 13.3 and 6.4 per cent, respectively. From 1914 to 1919 the value of wheat flour increased \$115,050,183, or 203.6 per cent, but the quantity increased only 26.4 per cent, or 3,379,639 barrels. During this five-year period, similar conditions apply to bran and middlings, which increased 157.3 per cent in value and 22.6 per cent in quantity, while feed and offal, although showing an increase of 48.9 per cent in value, shows a loss of 29 per cent in quantity.

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

	1919	1914	1909
Total value.....	\$206,881,300	\$72,804,736	\$68,476,410
Wheat flour:			
Barrels.....	16,157,221	12,777,582	10,887,744
Value.....	\$171,564,543	\$56,514,360	\$52,589,013
Rye flour:			
Barrels.....	17,450	9,950	5,745
Value.....	\$153,524	\$35,871	\$25,938
Corn meal and corn flour:			
Barrels.....	241,247	388,756	570,941
Value.....	\$1,860,184	\$1,371,077	\$1,767,903
Buckwheat flour:			
Pounds.....	118,000	108,600	407,855
Value.....	\$7,350	\$5,585	\$11,708
Barley meal:			
Pounds.....	1,200,900		
Value.....	\$38,200		
Bran and middlings:			
Tons.....	596,119	480,245	
Value.....	\$24,972,803	\$9,704,239	620,946
Feed and offal:			
Tons.....	123,724	174,220	\$13,446,894
Value.....	\$6,026,772	\$4,651,355	
Alfalfa meal:			
Tons.....	25,659		
Value.....	\$792,054		
Hominy and grits:			
Pounds.....	1,422,306	36,755,200	22,900,765
Value.....	\$60,447	\$557,828	\$332,836
All other cereal products, value.....	\$495,802	\$15,293	\$108,396
All other products, value.....	\$9,441	\$0,108	\$192,262

**Butter, cheese, and condensed milk (Table 21).—**This table shows the chief products of the industry in Kansas for 1919, 1914, and 1909.

TABLE 21.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$27,253,811	\$10,219,813	\$6,070,634
Butter:			
Pounds.....	36,567,263	29,278,717	18,712,568
Value.....	\$20,369,842	\$7,773,147	\$4,997,903
Packed solid—			
Pounds.....	21,051,042	12,770,193	10,659,510
Value.....	\$11,483,817	\$3,357,537	\$2,799,381
Prints or rolls—			
Pounds.....	15,510,221	16,508,524	8,053,058
Value.....	\$8,886,025	\$4,415,610	\$2,198,522
Condensed and evaporated milk:			
Pounds.....	21,831,821	(2)	(2)
Value.....	\$2,760,970	(2)	(2)
Cream sold:			
Pounds.....	634,455	605,423	520,802
Value.....	\$100,440	\$56,930	\$83,233
All other products, value.....	\$3,972,559	\$2,359,736	\$989,498

<sup>1</sup> Excludes statistics for 2 establishments manufacturing cheese, to avoid disclosure of individual operations.

<sup>2</sup> Included in "All other products," to avoid disclosure of individual operations

Of the total value of products of the industry in the state in 1919, butter represented 74.7 per cent, of

which 42.1 per cent was "packed solid," and 32.6 per cent in "prints or rolls." From 1914 to 1919, the total value of butter increased \$12,596,695, or 162.1 per cent, and the quantity 7,288,546 pounds, or 24.9 per cent. There was an increase during this period in the value of both kinds of butter, but while the quantity of that packed solid increased 64.8 per cent, there was a decrease of 6 per cent in the quantity of that in prints or rolls.

**Petroleum, refining (Table 22).—**This table shows the quantity and cost of the principal materials and the quantity and value of the chief products of the petroleum-refining industry in Kansas in 1919, 1914, and 1909. Measured by value of products, the state ranked tenth among the states in 1919, eleventh in 1914, and tenth in 1909.

The total production of refined oils in 1919, including gasoline and naphthas, fuel oils, illuminating oils, and lubricating oils, was 13,010,844 barrels of 50 gallons, value \$61,974,502; as compared with 4,926,717 barrels in 1914, value \$8,324,198; and 3,246,525 barrels in 1909, value \$3,999,956. The figures show a quantity increase from 1914 to 1919 of 164 per cent, with an increase in value of 645 per cent, or in terms of unit values an increase from an average of \$1.69 per barrel in 1914 to \$4.76 in 1919.

TABLE 22.—PETROLEUM, REFINING: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$51,335,769	\$7,184,961	\$2,816,710
Crude petroleum:			
Barrels (42 gallons).....	16,562,812	6,656,170	4,063,270
Cost.....	\$43,202,821	\$6,180,177	\$2,085,202
Distillates, purchased and rerun:			
Barrels.....	279,793	(1)	(1)
Cost.....	\$588,232		
Casing-head gasoline purchased:			
Barrels.....	151,971	(1)	(1)
Cost.....	\$1,433,110		
Sulphuric acid:			
Tons (net).....	18,117		
Cost.....	\$332,424		
Caustic soda:			
Pounds.....	1,985,500	\$85,522	\$58,336
Cost.....	\$81,801		
Other chemicals, cost.....	\$87,183		
Fuller's earth:			
Tons.....	5,285		
Cost.....	\$170,540	(1)	(1)
Other filtering material, cost.....	\$5,958		
Containers and materials therefor, cost.....	\$325,107	\$121,728	\$64,121
All other materials, including fuel, cost.....	\$5,107,511	\$788,534	\$609,057
<b>PRODUCTS.</b>			
Total value.....	\$63,785,520	\$8,922,718	\$4,077,225
Naphthas and lighter products:			
Gasoline—			
Gallons.....	220,694,130	49,016,300	
Value.....	\$37,481,281	\$3,670,641	19,393,700
Naphtha and benzine—			
Gallons.....	2,307,310	4,122,400	\$1,206,832
Value.....	\$948,890	\$229,768	
Illuminating oils:			
Gallons.....	110,279,170	63,275,150	35,242,250
Value.....	\$9,284,192	\$1,773,420	\$1,176,209
Fuel oils:			
Distillates—			
Gallons.....	3,337,590	1,228,850	
Value.....	\$225,773	\$33,856	
Gas oils—			
Gallons.....	36,413,500	20,654,400	103,500,500
Value.....	\$1,481,725	\$407,110	\$1,289,262
Residual fuel oils—			
Gallons.....	250,517,190	99,150,700	
Value.....	\$8,584,453	\$1,513,649	

<sup>1</sup> Included with "All other materials."

TABLE 22.—PETROLEUM, REFINING: 1919, 1914, AND 1909—Con.

	1919	1914	1909
<b>PRODUCTS—continued.</b>			
Lubricating oils:			
Gallons.....	26,993,330	8,888,050	4,129,800
Value.....	\$4,568,188	\$695,754	\$237,653
Lubricating greases:			
Gallons.....	436,100	206,150	97,250
Value.....	\$104,064	\$32,514	\$9,755
Paraffin wax:			
Gallons.....	1,617,880	483,050	158,550
Value.....	\$677,405	\$72,500	\$17,813
All other products, value.....	\$1,028,949	\$493,506	\$49,701
<b>EQUIPMENT.</b>			
Stills:			
Steam—			
Number.....	78	37	29
Capacity.....gallons..	1,401,578	704,802	429,786
Fire—			
Number.....	284	188	76
Capacity.....gallons..	6,055,534	3,283,728	1,337,490
Pressure—			
Number.....	153	(1)	(1)
Capacity.....gallons..	873,120	41	31
Agitators:			
Number.....	70		
Capacity.....gallons..	2,418,003		
Chilling houses for paraffin:			
Number.....	9	(1)	(1)
Capacity.....gallons..	527,740		
Filter houses:			
Number.....	10	(1)	(1)
Capacity.....gallons..	373,075		
Hydraulic or other presses:			
Number.....	39	(1)	(1)
Capacity.....gallons..	118,637		
Storage tanks for:			
Crude petroleum—			
Number.....	203	42	184
Capacity.....gallons..	80,598,504	12,016,000	8,504,000
Refined petroleum—			
Number.....	831	416	438
Capacity.....gallons..	66,341,344	40,277,000	16,658,000
Fuel oil—			
Number.....	137	61	(1)
Capacity.....gallons..	28,037,755	13,486,000	
Other storage tanks—			
Number.....	233	416	(1)
Capacity.....gallons..	7,904,362	32,315,000	

<sup>1</sup> Figures not available.

Of the total production of refined oils in 1919, fuel oils constituted 44.6 per cent, gasoline and naphthas 34.3 per cent, illuminating oils 17 per cent, and lubricating oils 4.1 per cent. In 1914 the distribution percentages were fuel oils 49.1 per cent, illuminating oils 25.7 per cent, gasoline and naphthas 21.6 per cent, and lubricating oils 3.6 per cent; and in 1909, 63.8 per cent, 21.7 per cent, 12 per cent, and 2.5 per cent, respectively.

**Printing and publishing** (Table 23).—This table shows the number and aggregate circulation per issue of the various classes of publications in Kansas in 1919, 1914, and 1909.

Of the dailies, 53, with a circulation of 193,289, were published in the afternoon. The increase shown in this circulation during the five-year period from 1914 to 1919 is 35,264, or 22.3 per cent, and for the decade 39,369, or 25.5 per cent.

The increase in circulation of the Sunday newspapers for the five-year period 1914 to 1919 was 42,270, or 48.6 per cent, and for the decade 40,953, or 46.5 per cent.

The decrease in number of weekly newspapers accounts for the decrease in total number of publications.

The foreign-language publications in 1919 numbered 9 with a circulation of 22,725. In 1914 there were 15 such publications and their circulation was reported as 24,767, a decrease of 9 per cent in circulation for the five-year period. All except 3 of the 9 foreign-language publications were weeklies; of these exceptions, 1 in English and German and 1 in English and Swedish were published once a month, and the third was a German quarterly. There was 1 weekly each in the Armenian, Italian, and Swedish language and 3 weeklies in German.

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

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	662	709	736	3,876,384	3,818,403	2,703,594
Daily.....	70	69	78	333,573	267,463	250,050
Sunday.....	11	5	6	128,997	86,727	88,044
Semiweekly.....	0	8	11	11,195	8,308	15,155
Weekly.....	540	593	605	1,084,134	1,053,639	1,403,032
Monthly.....	22	30	30	1,928,635	1,584,540	932,288
All other classes.....	10	4	6	389,850	212,726	15,025

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

**Ice, manufactured** (Table 24).—This table shows the quantity and value of ice manufactured in Kansas in 1919, 1914, and 1909, and also the equipment of ice plants in 1919 and 1914. In 1919, as compared with 1914, there was an increase of \$1,626,445, or 97.6 per cent, in the value of ice manufactured in the state, and 75,439 tons, or 15.5 per cent, in quantity.

The 137 establishments reporting in 1919 used 162,064 pounds of ammonia, valued at \$54,785, and 1,428 pounds of carbon dioxide, valued at \$200. The compressor system was used by 124 plants, the absorption by 9, and both systems by 4 plants.

TABLE 24.—ICE, MANUFACTURED: 1919, 1914, AND 1909.

	1919	1914	1909
Number of establishments.....	137	101	86
Products, total value.....	\$3,599,107	\$1,794,797	\$1,450,842
Can ice:			
Tons.....	2563,202	487,763	492,685
Value.....	\$3,292,601	\$1,066,156	\$1,311,156
All other products, value.....	\$216,506	\$128,641	\$148,686
Machines used.....	189	148	(3)
Ice-making capacity per day (24 hours) (tons).....	5,914	3,239	(3)
Storage space for ice (cubic feet).....	3,859,846	4,812,742	(3)
Storage space for general cold storage (cubic feet).....	3,796,166	2,276,516	(3)

<sup>1</sup> Does not include 20 establishments manufacturing 93,583 tons of ice, valued at \$531,095 in 1919, as a subsidiary product, nor 17 similar establishments in 1914 manufacturing 107,068 tons of ice, valued at \$245,876.<sup>2</sup> Includes 1 establishment manufacturing a small quantity of plate ice.<sup>3</sup> Not reported.

**Laundries** (Table 25).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 25, however, summarizes the statistics for such laundries in the state of Kansas for 1919 and 1914.

TABLE 25.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919.
	1919	1914	
Number of establishments.....	136	150	-8.3
Persons engaged.....	2,270	1,853	22.5
Proprietors and firm members.....	165	180	-8.3
Salaried employees.....	146	66	21.9
Wage earners (average number).....	1,959	1,607	4.5
Primary horsepower.....	2,785	2,604	67.9
Capital.....	\$1,982,927	\$1,181,164	98.1
Salaries and wages.....	1,472,623	743,410	221.2
Salaries.....	191,778	59,707	87.3
Wages.....	1,280,845	683,703	-50.8
Paid for contract work.....	910	1,850	165.2
Rent and taxes.....	137,105	51,736	180.6
Cost of materials.....	912,059	325,076	98.0
Amount received for work done.....	3,358,336	1,665,799	

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

Dyeing and cleaning (Table 26).—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 26.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	60
Persons engaged.....	301
Proprietors and firm members.....	86
Salaried employees.....	12
Wage earners (average number).....	203
Primary horsepower.....	264
Capital.....	\$250,397
Salaries and wages.....	224,920
Salaries.....	5,644
Wages.....	216,276
Paid for contract work.....	2,023
Rent and taxes.....	27,457
Cost of materials.....	138,655
Amount received for work done.....	608,974

Custom gristmills and sawmills (Tables 27 and 28).—Statistics for custom gristmills and custom sawmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914. Tables 27 and 28, however, summarize the statistics for gristmills for 1919 and 1909 and sawmills for 1919. The value of products for custom gristmills represents the selling value of the grain milled, and that for custom sawmills the amount charged for the work performed.

TABLE 27.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	28	39	-28.4
Persons engaged.....	30	170	-82.1
Proprietors and firm members.....	24	161	-85.1
Salaried employees.....	1	5	22.1
Wage earners (average number).....	5	9	32.1
Primary horsepower.....	679	911	-25.5
Capital.....	\$157,938	\$129,366	22.1
Salaries and wages.....	4,324	3,046	42.0
Salaries.....	300	3,046	32.1
Wages.....	4,024	3,046	108.3
Rent and taxes.....	1,825	876	27.0
Cost of materials.....	185,531	146,087	30.4
Value of products <sup>2</sup> .....	234,955	180,117	

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

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

TABLE 28.—CUSTOM SAWMILLS: 1919.

	Number or amount.
Number of establishments.....	4
Persons engaged.....	7
Proprietors and firm members.....	6
Wage earners (average number).....	1
Primary horsepower.....	118
Capital.....	\$4,795
Wages.....	625
Rent and taxes.....	42
Cost of materials.....	106
Value of products <sup>1</sup> .....	2,510

<sup>1</sup> Amount received for work done.

## 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 the cities of Kansas City and Wichita; and for Topeka and cities having from 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined.

Table 30 presents, for 1919, for the state as a whole and for Kansas City, Topeka, and Wichita, 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 29.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	3,474	61,049	234,110	\$73,090	\$750,088	\$613,607	Flour-mill and gristmill prod- ucts.	1919	385	3,493	59,829	\$4,146	\$182,333	\$206,881
	1914	3,136	41,259	179,146	25,970	261,148	323,234		1914	300	2,357	46,015	1,680	64,242	72,805
	1909	3,435	44,215	213,141	25,904	258,884	325,104		1909	501	2,360	46,218	1,448	60,439	68,476
Agricultural implements.....	1919	14	120	268	117	453	770	Food preparations, not else- where specified.	1919	8	87	879	91	764	906
	1914	11	94	233	40	154	315		1914	16	103	1,046	50	369	623
	1909	18	126	434	74	162	369		1909	46	193	3,017	92	1,222	1,747
Artificial stone products.....	1919	77	118	487	124	241	555	Foundry and machine-shop products. <sup>2</sup>	1919	498	4,556	10,664	6,053	12,147	24,240
	1914	92	114	288	71	132	293		1914	120	2,633	5,030	1,373	4,265	7,027
	1909	207	307	349	162	297	688		1909	137	2,110	4,364	1,343	3,634	5,919
Automobile bodies and parts..	1919	28	90	176	93	179	416	Furniture.....	1919	20	503	1,158	444	652	1,365
	1914	5	6	29	3	11	25		1914	16	413	1,170	224	349	679
	1909	5	6	29	3	11	25		1909	17	357	960	215	236	616
Awnings, tents, and sails.....	1919	9	45	41	40	114	279	Gas, illuminating and heating.	1919	7	52	557	64	155	400
	1914	10	35	21	23	69	130		1914	12	62	1,644	37	66	225
	1909	8	43	15	18	59	104		1909	12	36	276	22	57	208
Bread and other bakery prod- ucts.	1919	452	1,307	1,504	1,732	6,458	10,100	Glass.....	1919	5	584	313	1,196	607	2,133
	1914	472	1,001	1,003	609	2,221	3,914		1914	6	364	195	367	202	729
	1909	435	900	508	483	1,989	3,433		1909	23	1,435	1,031	986	672	2,037
Brick and tile, terra-cotta, and fire-clay products.	1919	29	1,136	8,472	1,222	1,199	3,407	Ice, manufactured.....	1919	137	822	16,506	938	1,119	3,599
	1914	29	1,216	7,239	723	635	1,953		1914	101	634	17,228	436	507	1,795
	1909	55	1,810	9,827	911	531	2,336		1909	86	593	14,636	380	342	1,460
Brooms, from broom corn.....	1919	46	149	175	136	382	720	Lumber and timber products <sup>3</sup>	1919	62	884	3,220	853	2,517	4,357
	1914	42	183	142	82	240	449		1914	63	767	3,026	463	1,380	2,441
	1909	45	116	276	58	165	316		1909	73	982	2,947	540	2,072	3,244
Butter, cheese, and condensed milk.	1919	165	927	3,463	912	23,408	27,254	Marble and stone work.....	1919	58	158	560	184	538	1,161
	1914	61	761	2,752	407	8,710	10,220		1914	82	101	605	156	376	842
	1909	60	348	2,544	211	4,061	6,071		1909	82	288	576	184	385	954
Cars and general shop con- struction and repairs by electric-railroad companies.	1919	11	162	827	182	145	360	Mattresses and spring beds, not elsewhere specified.	1919	12	196	708	195	614	1,009
	1914	15	86	1,272	73	51	139		1914	8	140	302	85	244	447
	1909	5	46	80	33	32	70		1909	14	158	297	79	218	462
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	32	11,196	11,928	15,987	10,435	28,231	Mineral and carbonated wa- ters.	1919	68	127	312	100	321	718
	1914	37	8,865	9,984	5,874	6,267	12,889		1914	93	160	469	79	220	522
	1909	23	7,686	10,390	5,173	5,210	11,193		1909	92	166	312	78	204	543
Cement.....	1919	8	1,084	21,247	1,327	3,362	6,700	Paper and wood pulp.....	1919	3	261	2,007	286	1,121	1,779
	1914	9	1,002	22,037	673	1,399	3,162		1914	3	239	2,344	122	493	610
	1909	12	2,143	61,754	1,359	1,550	4,682		1909	3	97	920	46	120	218
Clothing, men's, including shirts.	1919	15	605	129	367	1,122	2,129	Patent medicines and com- pounds and druggists' prep- arations. <sup>4</sup>	1919	44	225	152	206	2,948	4,208
	1914	16	540	186	173	532	887		1914	54	241	198	129	716	1,432
	1909	16	408	130	118	392	629		1909	39	63	96	34	245	619
Coffee, roasting and grinding..	1919	11	58	140	50	856	1,040	Paving materials.....	1919	25	318	1,867	321	175	676
	1914	6	42	118	19	291	396		1914	4	179	960	123	254	492
Confectionery and ice cream...	1919	115	584	1,263	446	2,394	3,885	Petroleum, refining.....	1919	29	2,221	10,950	3,065	51,336	63,786
	1914	73	342	945	293	731	1,262		1914	13	890	4,423	732	7,185	8,923
	1909	73	342	945	293	731	1,262		1909	18	324	1,150	186	2,817	4,077
Cooperage.....	1919	10	216	481	232	998	1,319	Printing and publishing <sup>5</sup> .....	1919	738	3,043	7,578	2,818	5,021	12,717
	1914	7	147	245	80	317	443		1914	760	2,784	3,305	1,615	2,308	6,882
	1909	12	162	447	78	333	504		1909	798	3,232	4,898	1,650	2,200	7,009
Copper, tin, and sheet-iron work.	1919	47	194	219	215	410	949	Saddlery and harness.....	1919	83	181	156	218	966	1,490
	1914	62	167	98	130	239	329		1914	111	261	197	174	694	1,174
	1909	76	222	98	151	412	749		1909	68	326	145	194	800	1,333
Explosives.....	1919	4	66	616	89	506	955	Salt.....	1919	12	1,072	8,719	1,145	2,207	6,193
	1914	3	87	905	75	424	624		1914	9	467	4,791	274	661	1,334
	1909	3	87	905	75	424	624		1909	10	451	3,387	188	519	1,106

<sup>1</sup> Excludes statistics for 2 establishments to avoid disclosure of individual operations.

<sup>2</sup> Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines"; "hardware"; "iron and steel, welding"; "machine tools"; and "structural ironwork, not made in steel works or rolling mills," in all years; and "plumbers' supplies, not elsewhere specified" and "steam fittings and heating apparatus" in 1914 and 1909.

<sup>3</sup> Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills," in all years; and "window and door screens," in 1919 and 1914.

<sup>4</sup> Includes "perfumery and cosmetics" in 1914.

<sup>5</sup> Includes "bookbinding and blank-book making."

## MANUFACTURES—KANSAS.

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

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Slaughtering and meat pack- ing.	1919	28	17,805	34,663	\$20,863	\$387,850	\$427,663	Vinegar and cider.....	1919	7	34	545	\$30	\$136	\$220
	1914	26	9,884	24,376	5,908	135,952	151,647		1914	5	6	114	3	10	33
	1909	35	10,591	24,560	5,862	147,646	165,361		1909	9	31	113	13	128	193
Smelting and refining, zinc...	1919	3	717	3,523	886	4,664	6,038	Wall plaster and composition flooring.	1919	4	131	1,099	133	193	545
	1914	5	811	3,474	633	4,213	5,259		1914	4	132	1,321	96	128	297
	1909	12	1,821	5,298	1,136	8,877	10,857		1909	6	170	1,030	118	83	287
Tobacco, cigars.....	1919	83	239	36	156	360	771	All other industries.....	1919	182	5,244	15,965	5,338	38,768	51,673
	1914	117	300	26	165	287	663		1914	189	3,117	9,480	1,868	13,657	18,643
	1909	141	415	30	180	262	682		1909	241	3,690	9,969	2,101	10,178	10,552

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

<b>KANSAS CITY</b> .....								<b>WICHITA</b> .....							
All industries.								All industries.							
	1919	196	22,839	46,023	\$27,130	\$417,518	\$468,686		1919	238	3,045	7,754	\$3,231	\$27,346	\$38,580
	1914	201	13,095	33,472	8,176	130,267	150,700		1914	199	1,705	7,447	1,089	8,029	11,608
	1909	165	12,294	31,885	7,027	144,390	164,081		1909	223	1,700	5,328	972	6,762	10,267
Bread and other bakery prod- ucts.	1919	41	80	195	98	448	773	Artificial stone products.....	1919	12	36	244	36	53	147
	1914	38	87	46	65	219	394		1914	11	33	102	25	36	99
	1909	33	65	23	39	143	245		1909	17	84	83	54	76	185
Butter.....	1919	6	44	160	67	1,241	1,447	Bread and other bakery prod- ucts.	1919	20	260	256	221	887	1,547
	1914	4	8	20	5	37	52		1914	22	129	203	56	244	441
	1909	6	54	290	41	193	262		1909	26	193	158	88	384	624
Confectionery and ice cream..	1919	3	31	55	34	87	135	Copper, tin, and sheet-iron work.	1919	9	52	76	60	114	231
	1914	4	54	290	41	193	262		1914	8	24	1	21	35	81
	1909	4	122	390	65	299	443		1909	11	65	75	45	202	322
Cooperage.....	1919	4	183	348	193	781	1,099	Flour-mill and gristmill prod- ucts.	1919	10	273	2,985	288	17,757	20,444
	1914	4	126	245	71	300	415		1914	12	181	3,095	121	5,339	6,488
	1909	4	122	390	65	299	443		1909	15	115	1,838	73	3,388	3,801
Foundry and machine-shop products. <sup>1</sup>	1919	23	1,054	2,939	1,401	4,385	7,179	Foundry and machine-shop products. <sup>2</sup>	1919	40	226	485	296	514	1,224
	1914	14	624	1,165	457	2,319	3,153		1914	11	83	266	78	180	329
	1909	17	573	1,345	347	1,095	1,881		1909	15	136	249	91	160	402
Ice, manufactured.....	1919	5	140	1,619	166	142	585	Ice, manufactured.....	1919	3	27	374	31	64	178
	1914	6	82	2,948	63	67	258		1914	4	49	849	38	48	161
	1909	7	119	2,565	80	67	257		1909	5	77	1,149	51	46	212
Printing and publishing.....	1919	23	45	62	52	68	306	Lumber, planing-mill prod- ucts, not including plan- ing mills connected with sawmills. <sup>4</sup>	1919	5	108	239	66	269	434
	1914	20	58	61	41	40	140		1914	9	137	525	99	430	655
	1909	18	72	100	40	58	174		1909	8	212	369	106	785	1,134
Slaughtering and meat pack- ing.	1919	12	16,071	29,754	18,964	349,057	381,695	Mattresses and spring beds, not elsewhere specified.	1919	4	41	145	50	184	287
	1914	11	8,792	19,898	5,226	120,169	133,826		1914	3	23	66	15	43	87
	1909	14	9,201	21,589	5,167	133,564	148,459	Patent medicines and com- pounds and druggists' pre- parations. <sup>5</sup>	1919	11	78	67	95	850	1,409
All other industries.....	1919	79	5,191	11,791	6,155	61,309	75,467		1914	13	51	18	23	112	303
	1914	98	3,264	8,799	2,207	15,926	21,195		1909	16	32	15	19	165	456
	1909	72	2,082	5,873	1,280	9,174	12,622	Printing and publishing.....	1919	37	359	302	350	987	2,294
<b>TOPEKA</b> <sup>2</sup> .....	1919	169	5,597	14,546	6,424	31,233	45,708		1914	31	220	452	153	216	765
All industries.	1914	161	4,828	9,494	2,760	14,981	20,685		1909	30	345	273	185	297	963
	1909	202	4,244	9,435	2,521	12,259	17,821	All other industries.....	1919	87	1,579	2,581	1,738	5,667	10,385
									1914	75	775	1,870	460	1,346	2,259
									1909	71	531	1,119	260	1,259	2,163

<sup>1</sup> Includes "automobile repairing"; "structural ironwork, not made in steel works or rolling mills," in all years and "hardware" in 1919.<sup>2</sup> Comparative statistics by industries for 1914 and 1909 not available.<sup>3</sup> Includes "gas machines"; "machine tools"; and "structural ironwork, not made in steel works or rolling mills," in all years and "engines, steam, gas, and water," in 1919.<sup>4</sup> Includes "boxes, wooden packing, except cigar boxes" in 1914.<sup>5</sup> Includes "perfumery and cosmetics."



# MANUFACTURES—KANSAS.

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

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.															
ATCHISON.....	1919	52	862	5,199	\$883	\$5,749	\$8,277	LAWRENCE.....	1919	49	494	3,351	\$810	\$3,551	\$4,631
	1914	60	684	2,609	403	2,081	3,899		1914	41	478	3,911	263	2,136	2,910
	1909	68	824	2,726	458	3,137	4,405		1909	49	422	2,540	195	1,155	1,653
CHANUTE.....	1919	23	195	737	224	585	1,090	LEAVENWORTH.....	1919	69	1,319	3,608	1,249	8,170	11,330
	1914	27	131	764	69	262	496		1914	73	1,233	2,901	708	3,321	4,776
	1909	45	497	2,632	356	2,697	3,788		1909	79	1,305	3,005	696	3,021	4,659
COFFEYVILLE.....	1919	49	1,225	5,978	1,487	12,351	10,655	PARSONS.....	1919	27	1,145	4,135	1,387	3,118	4,854
	1914	45	497	2,632	356	2,697	3,788		1914	28	1,040	2,635	578	1,542	2,372
	1909	45	895	2,710	588	2,645	3,832		1909	25	1,130	2,093	722	735	1,626
FORT SCOTT.....	1919	33	596	1,553	622	2,983	4,251	PITTSBURG.....	1919	67	1,594	3,059	1,811	2,514	5,271
	1914	33	422	817	247	1,084	1,580		1914	45	1,078	2,363	714	973	2,169
	1909	36	266	657	130	670	1,010		1909	49	972	2,268	633	724	1,817
HUTCHINSON.....	1919	96	1,766	9,312	2,101	13,017	19,433	SALINA.....	1919	64	630	4,073	734	15,290	17,939
	1914	71	1,006	5,618	584	4,111	5,609		1914	48	420	3,075	244	3,052	3,762
	1909	67	667	3,396	320	2,673	3,614								
INDEPENDENCE.....	1919	32	169	637	189	546	1,046								
	1914	23	123	541	98	139	342								
	1909	30	224	870	129	371	700								

## MANUFACTURES—KANSAS.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

																Dollars.
1	All industries.....	3,474	77,009	3,562	3,520	6,471	2,407	61,049	No 66,069	Ap 50,503	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	357,534,129
2	Agricultural implements.....	14	182	14	16	14	9	129	Je 150	Ja 108	140	140				1,223,922
3	Artificial stone products.....	77	235	80	7	28	2	118	Je 191	Fe 60	161	161				375,820
4	Automobile bodies and parts.....	28	145	43	5	3	4	90	De 118	Fe 74	119	116	3			421,693
5	Automobile repairing.....	325	1,392	424	33	33	32	870	Se 926	Ja 814	945	938	7			1,855,890
6	Awnings, tents, and sails.....	9	67	7	5	6	4	45	Jy 57	Ja 29	54	25	25	1		218,624
7	Bookbinding and blank-book making.....	5	11	6				5	No 4	Ja 4	6	1	5			8,209
8	Bread and other bakery products.....	452	2,022	544	37	55	79	1,307	Je 1,386	Fe 1,211	1,375	1,074	281	16	4	3,073,758
9	Brick and tile, terra-cotta, and fire-clay products.....	29	1,267	8	60	43	20	1,136			1,324	1,322	2			4,242,497
10	Building brick.....	19	783	5	44	20	5	709	Se 869	Ja 358	824	824				2,956,596
11	Sewer pipe, drain tile, and terra-cotta products.....	10	484	3	16	23	15	427	Au 545	Fe 265	500	498	2			1,285,901
12	Brooms, from broom corn.....	46	245	56	12	23	5	149	No 102	Ap 139	162	134	28			536,610
13	Butter.....	59	1,049	46	77	101	85	740	Je 885	Fe 575	666	482	184			4,089,106
14	Carpets, rag.....	14	55	15				40	Oc 42	Ja 37	42	38	9			27,340
15	Carriages and wagons, including repairs.....	10	21	13				8			8	8				46,273
16	Carriages and wagons.....	4	12	6				6	( <sup>a</sup> ) 6	( <sup>a</sup> ) 6	6	6				25,050
17	Repair work only.....	6	9	7				2	( <sup>a</sup> ) 2	( <sup>a</sup> ) 2	2	2				21,223
18	Cars and general shop construction and repairs by electric-railroad companies.....	11	183		8	9	4	162	Au 172	Fe 152	170	168	2			292,531
19	Cars and general shop construction and repairs by steam-railroad companies.....	32	12,033		449	290	98	11,196	De 11,853	Jy 10,787	11,852	11,806	46			10,414,420
20	Cars, steam-railroad, not including operations of railroad companies.....	5	430		17	13	7	393	Mh 445	Au 355	331	330	1			1,039,262
21	Cement.....	8	1,241	2	34	92	29	1,084	Oc 1,377	Ja 766	1,303	1,294	9			8,690,142
22	Cleansing and polishing preparations.....	4	23	6	3	3	6	5	Jy 6	Ja 4	6	5	1			430,259
23	Clothing, men's.....	11	529	4	13	16	9	487	Fe 527	Ap 441	479	41	438			700,700
24	Coffee, roasting and grinding.....	11	53	13	6	3	3	53	Au 60	Ja 54	58	24	34			331,057
25	Condensed milk.....	6	217	6	11	7	6	187	My 220	Ja 159	180	160	20			1,289,233
26	Confectionery and ice cream.....	115	845	140	44	47	30	584	No 404	Ja 334	632	323	308	1		1,921,276
27	Confectionery.....	54	508	60	24	38	12	368	Ja 404	Ja 334	415	132	282	1		1,003,444
28	Ice cream.....	61	337	74	20	9	18	216	Au 200	Ja 145	217	191	26			917,832
29	Cooperage.....	10	246	9	13	6	2	216	Oc 237	Fe 204	225	225				439,774
30	Copper, tin, and sheet-iron work.....	47	287	60	16	13	4	194	Au 252	Fe 143	187	185	2			603,874
31	Druggists' preparations.....	17	285	9	60	20	12	184	Jy 236	De 123	144	137	7			1,401,906
32	Engines, steam, gas, and water.....	5	254	1	15	9	43	186	Mh 210	No 151	180	181	8			702,212
33	Explosives.....	1	115		30	14	5	60	Mh 86	Oc 41	54	54				1,402,974
34	Flour-mill and gristmill products.....	385	5,288	341	567	629	258	3,493	Se 4,053	Je 3,048	4,066	3,094	71	1		73,137,213
35	Food preparations, not elsewhere specified.....	8	120	9	14	9	1	87	Oc 165	Je 23	94	30	55			243,105
36	Foundry and machine-shop products.....	151	3,547	141	192	199	80	2,935			3,428	3,415	9	4		11,037,226
37	Boiler shops.....	10	190	9	15	8	1	163	De 186	Ja 142	187	187				404,426
38	Foundries.....	8	603	2	22	34	11	594	De 655	Jy 526	674	673		1		2,055,968
39	Machine shops.....	112	1,520	114	95	93	55	1,163	Oc 1,283	Ja 1,020	1,253	1,243	9	1		5,716,638
40	Machine shop and foundry combined.....	21	1,168	10	60	64	13	1,015	De 1,314	Mh 842	1,314	1,312		2		3,400,194
41	Furniture.....	20	572	19	25	15	10	503			512	475	35	2		960,936
42	Wood, other than rattan and willow.....	14	449	11	19	14	6	399	De 425	Fe 381	420	389	29	2		728,671
43	All other.....	6	123	8	6	1	4	104	Fe 120	De 94	92	86	6			232,265
44	Gas, illuminating and heating.....	7	79		14	9	4	52	Se 56	No 48	51	51				1,402,848
45	Glass.....	5	626		22	10	10	584	Oc 821	Je 194	875	874	1			976,904
46	Ice, manufactured.....	137	1,098	113	105	25	33	822	Au 1,309	Ja 458	894	881	5	8		5,463,771
47	Lumber, planing-mill products, not including planing mills connected with sawmills.....	55	556	57	24	27	12	436	Oc 482	Ja 388	465	460	5			1,160,362
48	Marble and stone work.....	58	252	86	4	2	2	158			179	179				802,493
49	Monuments and tombstones.....	50	224	75	4	2	2	141	My 161	Fe 123	153	153				714,019
50	Other marble and stone work, except slate.....	8	28	11				17	My 26	Fe 9	26	26				85,474
51	Mattresses and spring beds, not elsewhere specified.....	12	236	10	13	12	5	196	Au 207	Fe 177	202	165	36	1		647,871
52	Mineral and carbonated waters.....	68	238	89	11	4	7	127	Jy 220	Ja 61	141	133	3	5		560,551
53	Models and patterns, not including paper patterns.....	3	3	3												5,900
54	Optical goods.....	4	30	2	6		4	18	My 19	Fe 15	20	16	4			42,510
55	Paper and wood pulp.....	3	350	7	18	29	5	291	Ja 376	Mh 193	278	247	31			1,451,895
56	Patent medicines and compounds.....	27	122	23	15	21	22	41	Fe 41	My 34	42	17	23		2	1,089,563
57	Patent and proprietary medicines.....	21	111	17	14	21	21	38	De 5	Ja 2	37	12	23		2	1,075,950
58	Patent and proprietary compounds, not elsewhere specified.....	6	11	6	1		1	3			5	5				13,603
59	Paving materials.....	25	383	35	11	17	2	318	Je 399	De 199	417	417				380,214
60	Petroleum, refining.....	29	2,654	2	150	190	91	2,221	My 2,362	Oc 2,092	2,402	2,401		1		51,628,201
61	Photo-engraving.....	5	21	5	1	1	2	12	( <sup>a</sup> ) 12	( <sup>a</sup> ) 12	12	12				20,322
62	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	20	441	9	24	16	18	374	No 542	Mh 178	489	281	204	2	2	1,724,189
63	Printing and publishing, book and job.....	143	977	168	53	55	72	624			663	440	218	4	1	2,194,319
64	Job printing.....	138	964	161	58	53	70	622	De 663	Ap 595	660	438	218	3	1	2,175,619
65	All other.....	5	13	7		2	2	2	Ap 3	No 1	3	2		1		18,700

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

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

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[illegible]

Dollars. 10, 073, 649	Dollars. 11, 722, 004	Dollars. 73, 060, 010	Dollars. 506, 473	Dollars. 000, 615	Dollars. 8, 962, 393	Dollars. 734, 546, 932	Dollars. 15, 541, 055	Dollars. 913, 667, 094	Dollars. 163, 670, 107	234, 110	112, 591	16, 998	25, 731	0, 337	72, 453	43, 280	1	
40,800	26,599	117,451	1,083	2,300	5,460	146,101	6,902	769,014	316,011	268			63		205		2	
16,805	35,186	123,894	500	2,240	4,061	231,824	0,372	554,691	313,408	487			136		310		3	
7,533	6,246	93,045		6,680	6,910	172,612	5,891	115,962	237,459	176			2		149		4	
56,503	40,487	1,171,005	18,980	90,800	22,131	1,211,041	63,480	3,288,214	2,012,793	2,129			522		1,507	0	5	
14,055	11,605	39,632	200	3,642	1,413	112,698	1,251	279,278	105,329	41			5		30		6	
		3,125		060	49	4,476		15,770	12,038	4					4		7	
89,649	193,011	1,731,900	3,035	132,289	101,376	0,226,362	231,361	10,099,616	3,641,802	1,594			69		1,459	1	8	
103,382	81,310	1,222,475	8,144	2,480	70,237	410,870	787,048	3,407,019	2,208,102	8,472			2,481		1,494	150	9	
107,928	20,188	702,798	7,033	530	40,171	210,648	532,086	2,143,635	1,400,001	5,802			150		1,781	1,429	10	
55,454	52,122	459,777	1,111	1,050	21,066	200,231	254,902	1,263,384	808,101	2,610			1,645		700	265	11	
33,150	48,634	136,077	65	2,104	6,525	375,548	6,432	719,940	337,060	175			28	3	144		12	
261,501	211,266	728,280	51,988	14,307	200,150	21,007,748	148,204	24,443,667	3,287,715	2,955			275		1,205	207	13	
		31,931	50	1,819	464	12,725	2,293	66,140	51,122	71			24		47	3	14	
		11,134		803	739	19,004	1,053	53,783	33,726	33					33		15	
		7,070		185	333	9,821	480	30,085	19,784	11							16	
		3,404		618	406	9,183	573	23,698	13,942	22							17	
18,637	6,890	182,147			4,252	138,426	6,506	360,154	215,222	827			375		452		18	
1,178,654	403,957	15,987,475	3,064		142,565	9,482,878	952,211	28,230,850	17,795,761	11,928			740		250	1,355	8,949	19
33,473	31,091	478,226	252	0,000	9,816	401,097	20,152	1,257,225	769,076	775					780		20	
													45					
110,608	235,520	1,326,076	26,447	2,202	117,764	2,049,878	1,311,800	6,099,799	3,338,121	21,247			400			10,503	21	
6,607	5,899	4,281		1,504	622	28,236		40,174	20,376	85					35		22	
28,687	44,296	305,105																

<sup>4</sup> Same number reported for one or more other months.

<sup>6</sup> Same number reported throughout the year.

## MANUFACTURES—KANSAS.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	Printing and publishing, newspapers and periodicals.	590	3,709	611	205	222	257	2,414		2,579	1,578	910	88	3	Dollars. 6,971,807
2	Printing and publishing.	25	386	23	31	57	34	241	No <sup>3</sup> 252 Ja 198	251	165	42	44		527,543
3	Printing, publishing, and job printing.	520	3,206	568	154	151	188	2,145	De 2,232 Fe 2,109	2,298	1,886	866	44	3	6,389,956
4	Publishing without printing.	45	117	20	20	14	35	28	Oc <sup>3</sup> 29 Au 26	30	27	3			54,368
5	Saddlery and harness.	83	304	89	11	16	7	181	Mh 192 Au 172	190	185	5			969,661
6	Salt.	12	1,331	1	60	142	56	1,072	Oc 1,154 De 986	994	939	55			5,807,406
7	Shirts.	4	143	1	7	13	4	118	Je 136 Ja <sup>3</sup> 103	112	10	102			108,770
8	Signs, other than electric.	4	32	1	2		4	25	Ap <sup>3</sup> 27 Ja <sup>3</sup> 21	25	23	2			131,831
9	Slaughtering and meat packing.	28	22,621	19	684	3,894	719	17,805	Ja 21,617 Ap 15,656	17,323	15,634	1,688	1		96,067,119
10	Smelting and refining, zinc.	3	775		29	18	11	717	Oc 842 Oc 637	688	688				4,372,328
11	Structural ironwork, not made in steel works or rolling mills.	8	696	9	25	89	37	536	De 665 Au 465	667	666	1			3,447,449
12	Surgical appliances.	3	44	1	5	4	11	23	(4) 23 (4) 23	23	14	0			118,750
13	Tobacco, cigars.	83	341	90	5	5	2	239	De 258 Ja 227	260	85	174	1		455,941
14	Vinegar and cider.	7	47	5	7		1	84	So <sup>3</sup> 60 Ja 20	42	41	1			428,169
15	Wall plaster and composition flooring.	4	161	2	10	14	4	131	De 173 Fe 92	173	173				904,047
16	Windmills.	3	25	3	2	2	2	16	Ja 18 Jy <sup>3</sup> 15	16	15	1			111,032
17	Wirework, not elsewhere specified.	6	8	7				1	Mh <sup>3</sup> 2 Ja <sup>3</sup> 0	1	1				17,465
18	All other industries*.	117	5,717	98	223	434	150	4,806							30,165,468

* All other industries embrace—	Boxes, wooden packing, except cigar boxes.	4	Cordials and flavoring sirups.	2	Gas machines.	2
Automobiles.	Brass and bronze products.	1	Cutlery and edge tools.	1	Glass, cutting, staining, and ornamenting.	1
Baking powders and yeast.	Buttons.	2	Dairymen's and poultrymen's supplies.	2	Gloves and mittens, cloth, not including gloves made in textile mills.	1
Baskets, and rattan and willow ware.	Canning, vegetables.	2	Electrical machinery, apparatus, and supplies.	2	Grease and tallow, not including lubricating greases.	4
Boof and shoe cut stock.	Carriage and wagon materials.	2	Engraving, steel and copper plate, including plate printing.	1	Hand stamps.	2
Boots and shoes, not including rubber boots and shoes.	Carriages and sleds, children's.	1	Fertilizers.	4	Hardware.	4
Boxes, cigar.	Cheese.	2	Flavoring extracts.	2		
Boxes, set-up paper boxes and shipping containers.	Chemicals.	4	Furs, dressed.	1		
	Coffins, burial cases, and undertakers' goods.	3				

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

1	KANSAS CITY—All industries.	196	23,412	172	963	3,579	859	22,839	Ja 26,000 Ap 19,962	22,171	19,950	2,210	2		132,109,610
2	Automobile bodies and parts.	5	22	10				12	No <sup>3</sup> 23 Ja 8	21	21				46,535
3	Automobile repairing.	0	25	10				15	Fe <sup>3</sup> 16 Au 13	16	15	1			20,855
4	Bread and other bakery products.	41	142	47	3	9	3	80	No <sup>3</sup> 89 Ja 68	91	80	11			322,859
5	Butter.	6	75	10	5	16		44	Jy 59 Fe 32	36	34	2			431,713
6	Confectionery and ice cream.	3	36	2	1	1	1	31	Je <sup>3</sup> 42 Ja 17	35	34	1			132,894
7	Cooperage.	4	199	3	7	4	2	183	Se 197 Jy 173	185	185				392,355
8	Copper, tin, and sheet-iron work.	4	12	5				7	Oc 10 Fe <sup>3</sup> 5	6	6				9,115
9	Druggists' preparations.	8	184	1	31	18	10	124	Ap 157 No 73	76	69	7			886,748
10	Flour-mill and gristmill products.	7	696	3	36	119	48	490	Oc 575 Ap 412	77	68	9			11,429,200
11	Foundry and machine-shop products.	14	704	10	31	37	12	614		603	602	1			2,083,945
12	Machine shops.	8	194	10	12	9	4	159	Jy <sup>3</sup> 198 Ja 106	153	152	1			591,830
13	All other.	6	510		19	28	8	455	De 510 Ja 417	510	510				1,492,015
14	Ice, manufactured.	5	158	1	12	3	2	140	Au 200 Ja 86	136	136				707,467
15	Lumber, planing-mill products, not including planing mills connected with sawmills.	3	5	2				3	No <sup>3</sup> 4 Ja 1	4	4				9,690
16	Printing, job.	13	49	17	1	1	1	20	De 37 Ja <sup>3</sup> 25	35	23	11	1		291,654
17	Printing and publishing, newspapers and periodicals.	10	31	6	2	1	5	16		19	14	5			42,700
18	Printing, publishing, and job printing.	7	25	5	2	1	1	16	Au <sup>3</sup> 19 Ja <sup>3</sup> 14	19	14	5			37,225
19	All other.	3	6	1	1		4								5,475
20	Saddlery and harness.	3	4	3				1	Ja <sup>3</sup> 2 Jy <sup>3</sup> 0	2	2				7,800
21	Slaughtering and meat packing.	12	20,339	7	663	2,970	638	16,071	Ja 19,622 Ap 14,126	15,482	13,896	1,586			83,388,329
22	Wirework, not elsewhere specified.	3	3	3											2,365
23	All other industries*.	49	5,728	32	180	400	137	4,979		5,287	4,701	585	1		31,922,986

*All other industries embrace—	Boxes, wooden packing, except cigar boxes.	3	Cars and general shop construction and repairs by steam-railroad companies.	2	Clothing, men's.....	1
Artificial stone products.....	Brick and terra-cotta products.....	1	Cars, steam-railroad, not including operations of railroad companies.....	1	Coffins, burial cases, and undertakers' goods.....	2
Awnings, tents, and sails.....	Brooms, from broom corn.....	1	Chemicals.....	1	Cordials and flavoring sirups.....	1
Boxes, paper and other, shipping containers.....	Carriage and wagon materials.....	1			Engraving, steel and copper plate, including plate printing.....	1
	Carriages and wagons.....	2				

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

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

## MANUFACTURES—KANSAS.

27

## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 445,914	Dollars. 503,638	Dollars. 2,219,400	Dollars. 173,624	Dollars. 114,777	Dollars. 101,020	Dollars. 3,877,492	Dollars. 121,035	Dollars. 9,774,647	Dollars. 5,770,120	6,897	61	505	3	6,328	167	1
87,801	105,490	234,579	2,160	8,471	36,144	361,461	10,720	1,177,350	805,169	306	61	20	3	283	167	2
341,924	369,082	1,957,060	27,702	104,129	63,906	3,482,721	108,040	8,201,429	4,610,068	6,574	61	485	3	6,025	167	3
15,189	32,066	27,152	143,762	2,177	889	33,310	1,675	395,868	360,883	17				17		4
40,103	35,766	217,058	20,524	26,850	956,871	8,779	1,490,428	524,778	150					152		5
235,071	255,114	1,144,736	24,000	610	500,067	1,540,197	666,322	6,192,093	3,986,174	8,710	6,533	744	4	1,442	845	6
15,147	27,673	61,752	2,600	10,940	195,451	1,180	389,530	189,890	24					24		7
5,170	8,352	25,901	2,494	652	18,172	433	84,457	65,852	1							8
1,729,093	5,519,005	20,802,027	74,008	7,158	1,223,645	385,173,208	2,685,503	427,063,145	39,804,434	34,063	10,661	2,955	5	12,042	10,955	9
82,148	33,821	885,584	15,000	50,052	3,066,232	667,339	6,037,920	1,374,340	3,523	1,190	625	1,190		518	70	10
132,641	141,189	605,700	4,000	1,640	70,227	3,363,304	50,274	4,643,478	1,220,900	1,755	137	85		1,533	70	11
8,008	12,166	14,803			2,383	53,231	1,182	143,415	89,002	21				15	6	2
6,636	14,057	155,893	300	12,177	98,220	355,507	4,320	771,404	411,628	36				15	21	12
15,920	500	29,955	350	450	5,405	127,000	8,576	220,250	84,674	545	377			31	137	13
31,656	32,702	132,630			10,158	142,290	50,023	545,311	352,380	1,090	825			74	800	14
3,280	5,061	17,004			1,546	34,670	933	80,820	45,217	31				12	19	15
		644			222	4,485	320	13,150	8,845	13				10	3	17
805,551	859,333	4,865,126	30,735	100,645	746,093	32,635,673	1,012,498	46,012,410	11,064,248	15,357	6,820	4,800	349	3,379	6,148	18

House-furnishing goods, mops and dusters.....	2	Mirrors, framed and unframed, not elsewhere specified.....	1	Sausage, not made in slaughtering and meat-packing establishments..	1	Stoves and ranges.....	2
Instruments, medical and surgical...	1	Oil, composite.....	1	Scales and balances.....	1	Sugar, beet.....	1
Iron and steel, welding.....	2	Oil, linseed.....	1	Show cases.....	1	Sulphuric, nitric, and mixed acids..	1
Jewelry.....	1	Paints.....	5	Smelting, lead.....	1	Tinware, not elsewhere specified....	1
Lamps.....	1	Perfumery and cosmetics.....	2	Soap.....	3	Toys and games.....	1
Lubricating greases.....	1	Pickles and sauces.....	2	Springs, steel, automobile.....	1	Trunks and valises.....	3
Lumber and timber products.....	2	Pumps, not including power pumps..	2	Stamped ware, not elsewhere speci- fied.....	1	Type founding.....	1
Machine tools.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	3	Stencils and brands.....	1	Varnishes.....	1
Millinery and lace goods, trimmed hats and hat frames.....	1					Washing machines and clothes wring- ers.....	1
						Window and door screens.....	3

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

2,851,856	5,952,418	27,130,310	120,755	101,417	2,188,943	413,342,055	3,675,500	468,686,423	51,167,968	46,923	25,506	2,785	147	18,485	13,877	1
		13,735	550	480	12,884	904	38,652	24,864	20					29		2
		18,042	840	292	11,994	1,080	50,825	37,771	15					15		3
7,366	18,636	98,050	9,592	7,543	423,753	24,726	772,096	324,516	195		30			165		4
9,100	23,454	67,272	5,160	10,277	1,227,475	18,050	1,447,278	200,153	180			6		154		5
1,200	2,460	33,937	743	497	70,850	7,557	134,524	47,117	55					55		6
19,577	8,246	102,835	3,000	4,117	775,937	4,588	1,060,227	318,702	348	300		30		18	60	7
		8,807	420	117	12,143	242	28,357	10,472								8
134,367	31,950	149,045	685	12,334	35,040	1,046,896	0,871	2,508,638	554,871	63	10	6		47		9
175,460	264,565	630,403	1,080	400,422	25,557,043	216,287	20,062,423	3,310,093	4,030	1,250				3,380	235	10
128,918	60,277	806,285	5,821	123,240	1,360,194	162,620	3,338,068	1,807,148	1,613	175		40		1,398	218	11
49,374	14,968	200,964	731	10,358	380,927	7,081	1,050,916	671,308	414			40		374		12
77,544	45,309	605,301	5,090	112,882	988,267	154,045	2,279,052	1,135,840	1,109	175				1,024	218	13
33,757	8,543	166,497	1,742	21,683	48,582	93,051	585,021	443,388	1,619	1,611				8	190	14
		3,900	200	144	133	6,100	1,106	18,015	10,710	63				63		15
1,633	1,160	33,717	2,900	8,597	783	48,510	1,244	140,586	90,832	42	5		12	25		16
10,900	7,889	18,014	38,672	1,740	680	17,770	827	165,362	146,756	20			5	15		17
7,600	3,000	18,014	6,880	1,140	680	17,654	827	55,371	36,890	20			5	15		18
3,300	4,889					125		109,991	100,866							19
		2,160				360		9,120	5,444	1						20
1,621,771	4,819,698	18,964,426	73,508	5,703	1,015,896	346,815,819	2,240,977	381,694,618	32,637,822	29,754	17,129	2,555	5	10,065	9,406	21
709,777	710,534	5,923,006	4,790	47,811	501,558	35,483,901	899,340	47,554,198	11,170,897	8,316	5,026	200	43	3,047	3,768	22

Fertilizers.....	3	Hardware, locks.....	1	Paints.....	1	Scales and balances.....	1
Flavoring extracts.....	1	Lumber and timber products.....	1	Patent and proprietary compounds, not elsewhere specified.....	1	Soap.....	3
Furniture.....	2	Marble and stone work.....	2	Paving materials.....	1	Structural ironwork, not made in steel works or rolling mills.....	2
Gas, illuminating and heating.....	1	Mineral and carbonated waters.....	2	Petroleum refining.....	3	Varnishes.....	1
Grease and tallow, not including lu- bricating greases.....	1	Models and patterns, not including paper patterns.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified....	1		

<sup>1</sup> Same number reported for one or more other months.<sup>2</sup> Same number reported throughout the year.<sup>3</sup> None reported for one or more other months.

## MANUFACTURES—KANSAS.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	TOPEKA—All industries.....	160	6,581	167	302	335	183	5,597	De	5,910	Ja	5,230	5,928	5,030	885	8	5	Dollars. 19,130,273
2	Artificial stone products.....	4	13	4	1	1	1	6	Jy	11	Ja	1	8	8	1	1	1	21,763
3	Automobile repairing.....	22	135	30	1	6	5	93	Se	108	Fe	83	100	99	17	1	1	191,356
4	Bread and other bakery products.....	14	104	17	6	14	4	63	No	73	Ja	56	69	52	17	1	1	210,183
5	Butter.....	5	126	3	13	6	12	92	Je	124	Fe	76	81	62	19	1	1	1,249,860
6	Carpets, rag.....	3	32	3	1	1	1	29	(*)	29	(*)	29	29	22	7	1	1	8,900
7	Confectionery and ice cream.....	6	65	9	2	1	1	53	No	65	Au	44	62	22	10	1	1	140,250
8	Flour-mill and gristmill products.....	10	270	7	30	27	13	193	Oc	221	Au	163	207	204	2	1	1	2,464,184
9	Foundry and machine-shop products.....	11	321	9	28	48	14	222	De	279	Ja	180	281	280	1	1	1	1,180,882
10	Lumber, planing-mill products, not including planing mills connected with sawmills.....	4	70	4	4	4	3	55	Je	59	Mh	48	58	58	1	1	1	148,208
11	Mineral and carbonated waters.....	3	15	3	2	1	1	9	Je	14	Ja	5	11	10	1	1	1	62,000
12	Patent and proprietary medicines.....	3	25	1	3	12	3	6	(*)	6	(*)	6	6	2	2	2	2	8,537
13	Printing and publishing, book and job.....	19	279	28	25	18	22	186	De	211	Ap	171	206	133	70	2	1	772,321
14	Printing and publishing, newspapers and periodicals.....	17	950	11	37	60	51	791					800	359	439	2	1	1,895,481
15	Printing, publishing, and job printing.....	10	939	9	35	57	48	790	De	802	Ja	779	790	358	439	2	1	1,895,087
16	Publishing without printing.....	7	11	2	2	3	3	1	(*)	1	(*)	1	1	1	1	1	1	1,394
17	Tobacco, cigars.....	7	73	8	2	1	1	62	De	73	Ap	54	73	21	52	1	1	51,052
18	All other industries *.....	41	4,193	30	148	137	54	3,737					3,937	3,608	235	2	2	10,724,296

\* All other industries embrace—

Automobile bodies and parts..... 1  
Awnings, tents, and sails..... 1  
Baskets, and rattan and willow ware..... 1  
Bookbinding and blank-book making..... 1  
Boxes, set-up paper boxes..... 1

Brass and bronze products..... 1  
Brooms, from broom corn..... 2  
Cars and general shop construction and repairs by electric-railroad companies..... 1

Cars and general shop construction and repairs by steam-railroad companies..... 2  
Coffee, roasting and grinding..... 1  
Copper, tin, and sheet-iron work..... 2

Druggists' preparations..... 1  
Food preparations, breadstuffs..... 1  
Furniture..... 3  
Hand stamps..... 1  
Ice, manufactured..... 2

1	WICHITA—All industries.....	238	4,178	229	259	385	260	3,045	Se	3,390	Ja	2,631	3,304	2,759	545	.....	.....	18,184,791
2	Artificial stone products.....	12	56	12	3	4	1	36	Je	74	Ja	11	51	51	1	1	1	127,303
3	Automobile bodies and parts.....	4	31	6	1	1	1	23	No	25	Ja	22	22	22	1	1	1	109,533
4	Automobile repairing.....	19	91	21	5	3	4	58	Jy	69	Ja	48	63	63	1	1	1	56,810
5	Bread and other bakery products.....	20	359	24	9	38	22	266	Oc	287	Fe	248	276	177	99	1	1	641,569
6	Brooms, from broom corn.....	4	80	2	6	8	2	62	No	70	Se	56	60	53	16	1	1	277,159
7	Confectionery and ice cream.....	10	73	9	8	6	5	45					30	29	1	1	1	323,739
8	Confectionery.....	5	9	6	1	1	1	3	Ja	4	Mh	1	3	2	1	1	1	9,100
9	Ice cream.....	5	64	3	8	6	5	42	Au	64	Ja	23	27	27	1	1	1	314,639
10	Copper, tin, and sheet-iron work.....	9	69	10	3	4	1	52	Jy	61	Ja	43	53	53	1	1	1	164,357
11	Flour-mill and gristmill products.....	10	420	6	40	74	27	273	Se	330	Je	223	293	279	14	1	1	7,174,920
12	Food preparations, not elsewhere specified.....	3	6	5	1	1	1	1	De	2	Ja	0	3	1	2	1	1	7,858
13	Foundry and machine-shop products.....	15	160	21	8	8	5	118					132	131	1	1	1	423,047
14	Machine shops.....	10	39	13	4	1	3	18	No	28	Ja	8	19	18	1	1	1	74,062
15	All other.....	5	121	8	4	7	2	100	De	113	Ja	84	113	113	1	1	1	848,985
16	Furniture, wood, other than rattan and willow.....	5	89	4	4	5	1	75	De	80	Fe	71	78	73	5	1	1	142,601
17	Ice, manufactured.....	3	35	7	1	1	1	27	Jy	40	Ja	15	15	15	1	1	1	493,732
18	Lumber, planing-mill products, not including planing mills connected with sawmills.....	5	126	3	8	7	1	108	Oc	121	Ja	80	108	108	1	1	1	235,546
19	Marble and stone work, monuments and tombstones.....	3	17	6	1	1	1	11	De	12	Fe	8	12	12	1	1	1	44,349
20	Mattresses and spring beds, not elsewhere specified.....	4	49	2	5	1	1	41	Se	50	Fe	34	47	38	9	1	1	190,028
21	Patent medicines and compounds.....	8	62	8	5	8	14	27	No	30	Au	22	27	8	19	1	1	1,011,457
22	Printing and publishing, book and job.....	22	291	22	17	25	36	191	De	197	Jy	185	193	142	51	1	1	491,206
23	Printing and publishing, newspapers and periodicals.....	15	350	15	23	72	72	168	De	175	Ap	161	175	151	24	1	1	923,774
24	Tobacco, cigars.....	5	6	6	1	1	1	1					1	1	1	1	1	6,090
25	All other industries *.....	62	1,808	47	107	122	69	1,463					1,657	1,353	304	1	1	5,339,713

\* All other industries embrace—

Agricultural implements..... 2  
Automobiles..... 1  
Awnings, tents, and sails..... 2  
Bookbinding and blank-book making..... 2  
Boots and shoes, not including rubber boots and shoes..... 1  
Boxes, set-up paper boxes..... 1

Butter..... 2  
Carpets, rag..... 2  
Cars and general shop construction and repairs by electric-railroad companies..... 1  
Cars and general shop construction and repairs by steam-railroad companies..... 1

Chemicals..... 1  
Cleansing preparations..... 2  
Clothing, men's..... 3  
Coffee, roasting and grinding..... 3  
Coffins, burial cases, and undertakers' goods..... 1  
Cooperage, hogsheds and barrels..... 1  
Druggists' preparations..... 2

Engines, steam, gas, and water..... 2  
Flavoring extracts..... 1  
Gas machines..... 2  
Glass, cutting, staining, and ornamenting..... 1  
Grease and tallow, soap stock..... 1  
House-furnishing goods, mops and dusters..... 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).



# MANUFACTURES—KANSAS.

29

## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 993,517	Dollars. 634,054	Dollars. 6,424,479	Dollars. 93,187	Dollars. 64,354	Dollars. 436,064	Dollars. 30,608,080	Dollars. 534,084	Dollars. 45,707,711	Dollars. 14,474,047	14,546	4,544	1,060	1,272	.....	7,670	3,871	1
1,240	3,888	7,735	.....	40	179	11,891	236	35,270	23,152	33	.....	.....	6	.....	27	.....	2
1,529	11,399	110,796	1,320	11,078	2,901	158,514	6,935	333,554	218,105	129	.....	.....	8	.....	121	.....	3
11,848	30,273	65,198	870	6,963	8,355	463,203	13,940	683,568	206,350	131	.....	.....	.....	.....	131	.....	4
98,474	16,666	95,708	.....	557	33,080	3,943,998	33,595	4,588,739	611,146	877	652	.....	130	.....	95	223	5
.....	.....	24,848	.....	300	153	7,000	1,004	38,800	30,106	31	.....	.....	24	.....	7	3	6
6,000	900	41,714	.....	1,650	6,579	313,528	2,778	428,747	112,441	81	.....	.....	.....	.....	81	.....	7
104,501	53,186	235,392	.....	270	83,521	10,529,007	66,948	11,665,459	1,069,465	2,972	1,400	.....	787	.....	785	6	8
80,172	49,154	296,692	6,000	2,360	34,038	571,993	11,303	1,281,039	697,743	579	.....	.....	10	.....	599	.....	9
8,461	8,433	59,010	.....	1,680	3,832	200,000	5,780	379,144	107,355	313	100	.....	25	.....	188	.....	10
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2,550	1,564	8,470	.....	660	2,586	16,854	442	44,605	27,369	21	.....	.....	6	.....	15	.....	11
7,200	11,150	3,548	.....	2,496	226	12,700	447	47,900	34,753	18	.....	.....	.....	.....	18	.....	12
65,275	45,922	180,651	20,150	14,415	35,820	306,858	7,015	981,007	667,224	188	.....	.....	.....	.....	188	.....	13
128,534	106,751	722,346	55,847	4,170	16,301	1,977,952	13,216	3,370,070	1,378,902	4,541	.....	.....	.....	.....	4,541	.....	14
125,934	102,906	722,250	2,700	4,110	16,301	1,977,204	13,216	3,300,162	1,300,742	4,541	.....	.....	.....	.....	4,541	.....	15
2,600	3,845	96	53,147	60	.....	748	.....	69,908	69,160	.....	.....	.....	.....	.....	.....	.....	16
3,000	1,200	50,535	.....	2,720	20,477	83,341	866	173,079	88,842	.....	.....	.....	.....	.....	4	.....	17
384,743	233,018	4,521,767	.....	14,080	167,407	12,034,512	370,440	21,000,550	9,201,598	4,628	2,392	1,060	276	.....	900	3,639	18

Marble and stone work.....	2	Optical goods.....	1	Shirts.....	1	Surgical appliances.....	1
Mattresses and spring beds, not elsewhere specified.....	2	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	2	Signs, other than electric.....	1	Toys and games.....	1
Models and patterns, not including paper patterns.....	1	Saddlery and harness.....	1	Slaughtering and meat packing.....	1	Trunks and valises.....	1
				Structural ironwork, not made in steel works or rolling mills.....	2	Vinegar.....	1
						Windmills.....	1

872,122	865,942	3,230,910	65,240	126,689	792,014	23,054,152	301,818	38,580,182	11,234,212	7,754	2,144	.....	211	30	5,369	720	1
7,026	10,488	36,494	.....	1,150	1,595	51,744	1,077	147,396	93,975	244	1	.....	45	.....	198	.....	2
1,200	416	21,643	.....	905	1,477	30,818	1,252	72,123	40,053	30	.....	.....	2	.....	28	.....	3
13,944	7,245	81,289	10,500	13,185	1,240	69,030	4,388	254,934	180,607	86	.....	.....	.....	.....	86	.....	4
25,475	101,420	221,174	500	8,765	43,165	867,330	19,859	1,546,942	669,753	250	.....	.....	.....	.....	256	.....	5
21,950	25,400	48,876	.....	1,140	4,362	156,109	2,347	295,984	137,528	72	.....	.....	2	.....	70	.....	6
23,638	9,337	59,924	.....	6,267	9,017	291,679	30,775	608,308	285,854	258	150	.....	.....	.....	108	10	7
.....	.....	3,360	.....	1,530	140	11,080	364	21,100	9,056	7	.....	.....	.....	.....	7	.....	8
23,638	9,337	56,564	.....	4,677	8,871	279,909	30,411	587,208	276,798	251	150	.....	.....	.....	101	10	9
9,000	6,500	59,864	.....	3,597	3,303	111,872	1,702	230,690	117,116	70	.....	.....	3	.....	73	.....	10
277,737	147,808	287,900	1,032	1,730	387,178	17,635,442	121,670	20,443,650	2,686,538	2,985	1,000	.....	.....	.....	1,985	165	11
.....	.....	946	.....	465	17	12,624	279	17,303	4,500	4	.....	.....	2	.....	2	.....	12
17,900	12,603	157,586	1,650	3,480	23,186	270,738	14,205	631,235	340,212	312	.....	.....	17	5	290	.....	13
7,000	5,154	17,615	1,050	3,180	855	48,122	1,611	118,421	68,688	68	.....	.....	17	.....	46	.....	14
10,900	7,449	139,971	600	300	22,331	222,606	12,684	512,814	277,524	244	.....	.....	.....	.....	244	.....	15
7,365	6,853	72,711	.....	2,850	1,813	97,282	3,096	219,640	119,208	165	.....	.....	.....	.....	165	.....	16
15,327	140	31,008	.....	.....	8,208	19,574	44,041	178,053	114,438	374	343	.....	.....	.....	31	25	17
17,200	15,128	65,549	.....	7,600	5,171	200,102	2,589	433,655	164,964	239	135	.....	.....	.....	104	.....	18
.....	.....	15,544	700	912	273	21,650	830	56,421	33,941	62	.....	.....	45	.....	17	.....	19
10,787	2,300	49,736	.....	1,300	2,252	182,355	2,045	287,495	103,095	145	.....	.....	.....	25	120	.....	20
92,900	47,875	23,414	.....	664	38,231	121,348	2,051	353,593	230,194	25	.....	.....	.....	.....	25	.....	21
49,381	78,647	174,830	14,101	18,021	6,347	290,347	6,565	850,758	553,840	193	.....	.....	.....	.....	193	.....	22
56,476	140,486	174,810	32,429	6,309	28,226	674,679	16,895	1,443,052	753,168	109	25	.....	3	.....	81	110	23
.....	.....	.....	.....	184	1,100	4,853	121	8,881	3,907	.....	.....	.....	.....	.....	.....	.....	24
224,216	252,936	1,647,513	4,328	48,150	225,703	5,777,777	116,431	10,499,493	4,605,255	2,119	490	.....	92	.....	1,537	410	25

Lamps.....	1	Paints.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Trunks and valises.....	1
Machine tools.....	1	Perfumery and cosmetics.....	1	Shirts.....	1	Type founding.....	1
Millinery and lace goods, trimmed hats and hat frames.....	1	Photo-engraving.....	2	Slaughtering and meat packing establishments.....	1	Vinegar.....	1
Mineral and carbonated waters.....	2	Pickles and sauces.....	2	Structural ironwork, not made in steel works or rolling mills.....	1	Wirework, not elsewhere specified.....	1
Models and patterns, not including paper patterns.....	1	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	1				
Optical goods.....	1	Pumps, not including power pumps..	1				

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

<sup>2</sup> Same number reported throughout the year.

<sup>3</sup> None reported for one or more other months.

## MANUFACTURES—KANSAS.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

																Dollars.
1	ARKANSAS CITY.....	42	371	42	26	18	10	276	Se <sup>1</sup> 298	Mh 241	311	256	55	.....	.....	4,335,001
2	ATCHISON.....	52	1,106	49	76	75	44	862	Se 951	Ja 808	907	702	144	1	.....	5,180,310
3	CHANUTE.....	23	259	28	16	13	7	195	Jy 215	Ja 169	193	174	16	2	1	1,143,420
4	COFFEYVILLE.....	49	1,474	43	66	104	36	1,225	Se 1,301	Ap 1,163	1,326	1,259	47	20	.....	10,008,653
5	EL DORADO.....	25	180	27	13	4	5	131	De 162	Ja 103	165	160	4	1	.....	1,188,046
6	EMPORIA.....	36	171	37	13	4	11	106	Au 125	Ja 81	112	93	19	.....	.....	737,900
7	FORT SCOTT.....	33	716	29	33	42	16	596	Au 677	Ja 497	640	538	102	.....	.....	2,682,476
8	HUTCHINSON.....	96	2,345	92	123	248	116	1,766	No 1,927	Jy 1,616	1,832	1,649	183	.....	.....	8,491,183
9	INDEPENDENCE.....	32	229	37	8	4	11	169	Au 197	Ja 148	187	162	24	1	.....	808,853
10	LAWRENCE.....	49	665	55	40	58	18	494	Se 548	Mh 382	498	378	116	4	.....	3,511,858
11	LEAVENWORTH.....	69	1,614	68	95	90	42	1,319	De 1,370	Mh 1,279	1,386	1,234	149	2	1	6,334,024
12	PARSONS.....	27	1,259	23	46	23	22	1,145	Ja 1,179	De 1,119	1,137	1,050	57	24	.....	2,414,450
13	PITTSBURG.....	67	1,850	72	79	73	32	1,594	Mh 1,639	Jy 1,533	1,645	1,564	77	4	.....	4,608,973
14	SALINA.....	64	909	66	62	96	55	630	Se 713	Ja 526	688	610	78	.....	.....	5,852,840

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

# MANUFACTURES—KANSAS.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	2,281	1,410	.....	44	450	377	10	1
102,019	52,087	320,428	.....	11,720	167,488	7,229,354	68,523	8,721,549	1,423,672	5,199	528	2,000	75	1	2,595	171	2	2
196,030	149,784	882,806	541	15,092	148,593	5,035,399	113,307	8,276,677	2,527,971	737	400	.....	.....	.....	337	7	3	3
40,743	26,834	223,612	.....	3,734	25,000	554,802	29,945	1,089,575	504,768	5,978	1,581	750	1,762	.....	1,885	1,802	4	4
206,001	242,336	1,487,006	20,632	15,012	206,153	11,438,525	912,048	16,654,062	4,304,089	443	70	.....	20	.....	353	.....	5	5
21,773	9,298	203,593	.....	11,454	22,499	901,997	30,686	1,438,700	500,023	613	422	65	.....	.....	126	35	6	6
23,606	15,060	131,404	5,328	8,111	11,407	626,965	40,313	1,031,851	364,573	1,553	900	156	46	.....	451	312	7	7
102,707	80,648	622,206	500	0,070	110,923	2,902,266	80,545	4,251,006	1,268,195	9,312	5,208	844	10	.....	3,250	591	8	8
409,071	469,346	2,101,040	20,465	383,192	290,829	12,234,780	782,017	19,433,163	6,416,366	637	350	.....	8	.....	279	10	9	9
0,930	12,052	180,095	364	12,286	56,201	527,273	19,090	1,045,617	499,254	3,351	732	1,000	48	1,000	571	600	10	10
66,132	83,072	809,581	6,527	14,345	45,235	3,441,640	109,624	4,631,036	1,079,772	3,608	1,880	100	42	.....	1,586	245	11	11
243,313	172,311	1,248,910	372	21,543	138,831	8,024,599	150,955	11,330,465	3,154,911	4,135	3,696	.....	101	.....	338	2,622	12	12
87,991	50,401	1,386,000	420	7,803	27,797	2,938,288	149,911	4,854,031	1,735,832	3,059	1,715	.....	27	.....	1,317	1,593	13	13
197,420	129,958	1,810,049	1,558	30,831	82,157	2,273,901	240,176	5,271,125	2,767,048	4,073	926	.....	675	100	2,373	1,006	14	14
167,070	167,183	733,958	3,205	20,841	270,413	15,089,112	201,055	17,939,239	2,649,072	.....	.....	.....	.....	.....	.....	.....	.....	.....

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

DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES  
MANUFACTURES: 1919

KENTUCKY

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# KENTUCKY.

## GENERAL STATISTICS.

**General character of the state.**—Kentucky has a gross area of 40,598 square miles, of which 40,181 represent land surface. Its inhabitants in 1900 numbered 2,147,174; in 1910, 2,289,905; and in 1920, 2,416,630. The number of inhabitants per square mile in 1910 was 57, the corresponding figure for 1920 being 60.

In 1920 there were eight cities in the state—Ashland, Covington, Henderson, Lexington, Louisville, Newport, Owensboro, and Paducah—having more than 10,000 inhabitants. The combined population of these cities in that year was 431,920, forming 17.9 per cent of the total for Kentucky. These cities in 1919 reported 72.7 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.

**Statistics for the state, by counties (Table 2).**—Figures are not available for comparison of county totals for 1919 with those for prior censuses. Of the 120 counties in the state, Jefferson County alone, which contains the city of Louisville, reported 53.1 per cent of the total value of products in the state in 1919 and 44.6 per cent of the average number of wage earners.

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

**Persons engaged in manufacturing industries (Table 4).**—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 30.

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

**Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).**—General increases are shown for the cities for which comparative figures are available in value of products and, with the exception of Henderson, in average number of wage earners, 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, and also for the cities of 10,000 inhabitants and over. There were a number of industries in the state in 1919 in which the number of female wage earners predominated. The eight cities combined reported a slightly larger proportion of female wage earners than the state as a whole, 18.4 per cent as compared with 15.5 per cent for the state.

**Prevailing hours of labor (Table 9).**—Since 1914 there has been a marked shortening of the working-day in Kentucky. In that year 16.5 per cent of the wage earners were included in the group "48 and under" as against 32.8 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 39.6 per cent of the total wage earners, as compared with 20.6 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, 96.4 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 41.4 per cent of the total number of wage earners. On the other hand, establishments employing an average of more than 100 wage earners represented only 3.6 per cent of the total number of manufacturing establishments in the state, but reported 58.6 per cent of the total number of wage earners.

**Size of establishments, by value of products (Table 11).**—At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for

the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups in the case of all items for 1909, and in the case of average number of wage earners and value added by manufacture for 1914.

**Size of establishments, by value of products, for selected industries (Table 12).**—In the preparation of this table it was necessary in several instances to combine the establishments of one group of an 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 29.1 per cent of the number of establishments in the state in 1919, they reported 84.9 per cent of the average number of wage earners and 85.6 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 8,154, or 16.1 per cent, and the value of products \$142,204,441, or 72.4 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 eight cities in 1919 represented 34.5 per cent of the total in the state. They reported in that year 65.4 per cent of the average number of wage earners and 72.7 per cent of the total value of products.

**Principal industries in Covington and Louisville, with per cent of total for the state (Table 16).**—This table includes all industries in Covington having a product of \$300,000 and over, and in Louisville having a product of \$1,000,000 and over, the figures being given for those which can be shown without disclosing the operations of individual establishments.

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

**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 9,259 horsepower, or 3.9 per cent. This increase is due to the gain in rented power which amounted to 37,088 horsepower, or 177.5 per cent. The owned power decreased 27,829 horsepower, or 12.8 per cent, during the five-year period.

**Fuel consumed (Table 18).**—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. There was a decided increase in the quantities of each of the several kinds of fuel used in 1919 as compared with 1914, except in anthracite coal, which decreased. In 1919, of the total anthracite coal consumed, 50.3 per cent was used in steam-railroad repair shops, flour and grist mills, and breweries; two industries combined—coke and clay products—consumed 50.5 per cent of the bituminous coal, while blast furnaces consumed 85 per cent of the coke.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	3,957	4,184	4,776	3,734	3,648	-5.4	-12.4	27.9	2.4
Persons engaged.....	83,954	77,865	79,060	69,755	( <sup>2</sup> )	7.8	-1.5	13.3	.....
Proprietors and firm members.....	4,003	4,148	5,050	4,108	( <sup>2</sup> )	-3.5	-17.9	22.9	.....
Salaried employees.....	10,611	9,131	8,610	5,853	4,358	16.2	6.1	47.1	34.4
Wage earners (average number).....	69,340	64,586	65,400	59,794	51,735	7.4	-1.2	9.4	15.6
Primary horsepower.....	247,573	238,314	230,224	174,625	144,161	3.9	3.5	31.8	21.1
Capital.....	\$276,535,395	\$193,423,069	\$172,778,805	\$147,282,478	\$87,995,822	43.0	11.9	17.3	67.4
Salaries and wages.....	86,711,197	43,153,401	37,491,045	30,309,931	22,638,883	100.9	15.1	23.7	33.9
Salaries.....	19,677,651	11,323,118	9,803,373	5,871,247	4,184,631	73.8	17.9	63.6	40.3
Wages.....	67,033,546	31,830,283	27,687,672	24,438,684	18,454,252	110.6	14.1	14.1	32.4
Paid for contract work.....	2,317,700	1,352,415	1,052,093	1,560,713	( <sup>3</sup> )	71.4	28.5	-33.0	.....
Rent and taxes.....	16,920,389	39,890,013	36,243,788	* 1,041,671	( <sup>3</sup> )	-57.6	10.1	.....	.....
Cost of materials.....	235,715,626	114,829,223	111,779,317	86,545,464	67,406,202	105.8	2.7	29.2	28.4
Value of products.....	395,680,417	230,248,909	223,754,497	159,753,968	126,508,660	71.8	2.9	40.1	26.3
Value added by manufacture.....	159,944,791	115,419,686	111,976,180	73,208,504	59,102,458	38.6	3.1	53.0	23.9

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

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

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

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



## MANUFACTURES—KENTUCKY.

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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
The state.....	3,957	69,340	\$37,033,546	\$16,920,389	\$235,715,026	\$395,660,417	\$159,944,791	247,573
Adair.....	22	70	46,039	1,383	151,186	259,037	107,851	1,118
Allen.....	16	35	23,739	1,743	123,535	175,831	52,296	549
Anderson.....	12	50	39,256	1,734	143,782	223,753	79,971	460
Ballard.....	15	25	10,257	853	223,759	271,909	48,240	395
Barren.....	53	272	163,020	77,079	715,887	1,175,088	459,201	1,372
Bath.....	13	60	42,075	2,000	423,028	621,113	197,185	450
Bell.....	45	569	488,916	35,491	3,408,820	4,616,954	1,208,134	3,850
Bourbon.....	43	201	182,692	15,591	1,094,881	1,562,818	467,937	774
Boyd.....	54	2,580	3,133,843	296,345	14,336,078	19,202,441	4,895,793	38,570
Boyle.....	21	258	302,288	12,715	444,785	890,391	445,606	734
Bracken.....	20	179	118,892	57,240	521,592	952,579	430,987	521
Breathitt.....	28	862	624,636	47,382	465,584	1,572,397	1,106,813	1,315
Breckinridge.....	29	228	188,849	5,219	365,929	691,286	325,357	1,251
Bullitt.....	10	15	7,952	265	45,511	65,322	19,811	161
Butler.....	23	32	20,227	449	163,121	223,336	60,215	571
Caldwell.....	18	273	253,204	9,200	424,844	801,144	376,300	913
Calloway.....	20	56	34,874	5,248	217,827	302,444	84,617	288
Campbell.....	107	3,470	3,871,796	1,152,705	11,122,828	21,260,552	10,137,724	24,780
Carlisle.....	13	27	21,400	767	276,197	345,009	68,812	428
Carroll.....	16	151	109,478	14,653	295,766	621,309	325,543	531
Carter.....	21	1,093	969,761	99,067	1,061,644	2,807,696	1,748,052	3,701
Casey.....	23	84	54,481	1,064	120,360	366,021	245,661	670
Christian.....	08	626	504,608	31,357	4,447,128	5,764,717	1,317,589	2,774
Clark.....	44	280	252,166	22,444	1,495,798	2,047,604	551,806	1,847
Clay.....	42	124	76,896	2,468	121,126	353,081	231,955	763
Clinton.....	10	10	5,990	618	39,637	70,705	31,068	353
Crittenden.....	16	19	14,900	1,140	136,610	186,392	49,782	218
Cumberland.....	9	14	10,640	184	35,814	58,510	22,696	273
Davess.....	85	1,060	1,576,258	487,564	6,690,038	12,526,051	5,836,013	6,670
Edmonson.....	13	20	12,413	187	76,989	120,228	49,239	252
Elliott.....	8	40	30,820	103	24,170	73,448	49,278	127
Fayette.....	179	1,200	1,322,148	375,756	5,639,970	9,444,771	3,804,801	4,908
Fleming.....	35	60	44,443	3,665	203,927	360,291	145,364	490
Floyd.....	72	236	191,725	14,933	232,174	602,338	370,164	1,167
Franklin.....	44	593	408,953	336,334	3,126,848	5,186,610	2,059,762	1,632
Fulton.....	25	794	617,998	37,154	1,207,582	2,469,123	1,261,541	2,645
Garrard.....	6	15	17,016	863	240,874	286,590	45,716	138
Grant.....	6	11	8,120	718	101,537	128,639	27,102	129
Graves.....	50	841	371,658	51,718	1,968,274	3,034,557	1,066,313	1,166
Grayson.....	22	140	77,094	9,293	493,125	749,580	256,455	415
Green.....	10	17	12,967	207	123,805	153,446	29,641	292
Greenup.....	14	655	843,963	7,519	728,465	1,702,392	973,927	875
Hancock.....	14	22	10,209	2,119	80,809	116,428	35,019	159
Hardin.....	59	464	447,476	26,799	2,383,385	3,310,562	933,177	2,187
Harlan.....	24	162	124,347	3,172	114,645	335,788	221,143	493
Harrison.....	37	112	86,888	11,904	315,290	531,310	216,020	377
Hart.....	44	88	72,377	1,773	494,294	643,628	149,634	1,100
Henderson.....	39	1,011	741,431	111,355	3,348,204	5,267,931	1,019,667	3,729
Henry.....	8	28	30,809	1,331	383,034	482,881	99,847	316
Hickman.....	10	139	195,949	1,930	266,061	520,386	261,325	223
Hopkins.....	58	344	259,452	38,427	895,087	1,550,340	655,303	1,874
Jackson.....	8	190	96,787	33,444	83,370	406,700	318,330	633
Jefferson.....	798	30,960	29,899,741	11,776,191	129,420,158	210,093,296	80,673,138	68,566
Jessamine.....	19	56	51,816	4,447	289,372	436,649	147,277	506
Johnson.....	11	58	60,513	1,090	36,379	138,340	101,961	165
Kenton.....	148	4,784	5,414,055	880,004	8,347,237	18,677,706	10,330,469	9,215
Knott.....	12	14	6,470	355	12,590	29,103	16,518	270
Knox.....	44	173	140,925	5,421	299,080	534,804	325,724	1,011
Larue.....	21	74	48,140	2,416	332,458	498,103	115,650	726
Laurel.....	32	81	48,032	2,247	184,385	370,108	185,723	741
Lawrence.....	16	35	20,262	1,327	247,462	317,833	70,371	340
Lee.....	9	306	290,072	5,910	368,737	1,131,909	763,172	1,177
Leslie.....	11	36	28,248	156	15,536	67,612	42,076	188
Leitcher.....	24	100	124,785	370	133,945	344,142	210,197	514
Lewis.....	29	133	86,243	1,798	95,281	237,402	142,121	876
Lincoln.....	17	30	28,685	4,156	376,338	468,772	92,434	721
Livingston.....	16	38	30,817	1,933	148,978	185,568	36,690	1,128
Logan.....	40	211	188,481	6,704	864,615	1,267,378	382,763	1,364
Lyon.....	10	21	26,524	83,549	1,026,085	1,482,740	456,655	296
McCracken.....	89	3,812	3,754,779	339,562	5,328,047	11,622,254	6,294,207	6,071
McLean.....	30	163	83,819	2,031	280,022	491,086	231,064	901
Madison.....	20	82	58,320	6,477	712,615	943,603	231,078	765
Magoffin.....	9	40	64,382	1,360	13,921	107,762	88,841	170
Marion.....	16	73	48,816	3,015	272,458	378,675	106,217	606
Marshall.....	12	26	17,100	982	90,292	136,991	46,720	317
Mason.....	61	462	344,122	39,448	1,521,572	2,378,453	856,881	2,900
Meade.....	16	45	29,926	510	202,806	383,979	181,173	504
Menifee.....	6	7	5,020	21	6,735	16,755	10,020	101
Mercer.....	22	124	114,537	14,684	780,870	1,115,167	384,297	580
Metcalfe.....	11	16	12,881	606	90,905	125,124	34,210	283
Monroe.....	27	79	51,591	773	313,995	428,790	114,804	863
Montgomery.....	25	92	83,151	8,897	319,321	500,501	181,180	482
Morgan.....	22	174	158,717	6,040	195,728	594,069	395,941	1,163
Muhlenberg.....	43	203	180,141	3,996	800,010	1,197,457	397,441	934
Nelson.....	40	113	84,553	2,416	564,735	715,089	150,364	1,329

## MANUFACTURES—KENTUCKY.

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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
Nicholas.....	15	38	\$25,704	\$4,589	\$137,815	\$215,449	\$77,634	340
Ohio.....	36	61	43,043	2,646	266,204	417,590	151,386	668
Oldham.....	5	14	11,274	805	66,076	97,828	31,752	13
Owen.....	15	5	4,471	497	98,161	134,805	36,644	211
Owsley.....	7	18	4,320	40	9,266	18,025	9,359	36
Pendleton.....	15	26	23,488	1,925	62,766	115,351	52,585	300
Perry.....	24	228	226,532	3,917	235,844	739,155	503,311	771
Pike.....	65	677	672,932	14,579	1,290,301	2,436,869	1,146,068	2,223
Powell.....	8	112	74,893	7,974	42,971	193,197	150,226	778
Pulaski.....	27	877	1,049,704	46,803	1,056,737	2,515,869	1,459,132	2,439
Rockcastle.....	14	134	120,241	2,638	69,837	240,087	170,250	556
Rowan.....	22	562	436,680	20,670	354,772	1,075,110	720,338	1,575
Russell.....	18	31	17,415	804	117,674	186,656	68,982	551
Scott.....	20	78	82,473	9,194	410,109	500,934	180,825	779
Shelby.....	13	29	28,659	1,697	213,213	310,484	97,221	127
Simpson.....	16	55	46,465	2,507	320,093	455,092	134,999	478
Spencer.....	6	7	7,203	400	143,364	101,083	47,719	109
Taylor.....	30	216	179,748	5,655	383,086	760,083	376,997	927
Todd.....	10	109	88,122	1,915	1,184,550	1,332,243	147,093	654
Trigg.....	14	26	15,859	2,271	110,268	104,730	54,462	797
Union.....	14	42	30,353	2,057	271,929	377,209	105,280	880
Warren.....	55	443	421,768	82,956	1,095,795	1,995,181	899,386	1,993
Washington.....	8	15	11,264	744	120,537	156,959	36,422	264
Wayne.....	9	94	80,716	1,025	245,828	389,532	143,704	526
Webster.....	23	44	37,214	2,630	277,919	376,801	98,882	490
Whitley.....	24	1,171	1,594,535	2,882	865,089	2,754,457	1,889,368	918
Wolfe.....	5	7	8,540	645	152,061	206,282	54,221	103
Woodford.....	11	30	23,583	15,426	335,811	472,067	136,256	212
All other counties <sup>1</sup> .....	26	682	879,047	9,481	516,482	1,831,433	1,314,951	907

<sup>1</sup> All other counties comprise Boone, Estill, Gallatin, McCreary, Martin, Robertson, and Trimble.

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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	3,957	69,340	100.0	\$395,680	100.0	\$159,945	100.0	Tobacco, cigars and cigarettes.....	76	1,271	1.8	\$3,581	0.9	\$1,945	1.2
Flour-mill and gristmill products.....	533	1,584	2.3	45,774	11.6	6,193	3.9	Boots and shoes.....	7	630	0.9	8,574	0.9	1,475	0.9
Cars and general shop construction and repairs by steam-railroad companies.....	30	12,372	17.8	30,598	7.7	18,641	11.7	Boxes, paper and other, not elsewhere specified.....	6	764	1.1	3,247	0.8	1,154	0.7
Lumber and timber products.....	931	7,716	11.1	23,284	5.9	13,483	8.4	Woolen and worsted goods.....	10	565	0.8	3,247	0.8	1,298	0.8
Tobacco, chewing and smoking, and snuff.....	24	2,406	3.5	20,548	5.2	9,239	5.8	Paints.....	13	195	0.3	2,786	0.7	887	0.6
Iron and steel, steel works and rolling mills.....	5	1,892	2.7	18,319	4.6	5,605	3.5	Cooperage.....	14	582	0.8	2,780	0.7	932	0.6
Slaughtering and meat packing.....	26	450	0.6	12,954	3.3	2,295	1.4	Copper, tin, and sheet-iron work.....	44	276	0.4	2,716	0.7	819	0.5
Foundry and machine-shop products.....	87	2,554	3.7	11,662	3.0	6,264	3.9	Coffee, roasting and grinding.....	15	89	0.1	2,694	0.7	748	0.5
Clothing, men's.....	50	2,590	3.7	10,072	2.6	4,339	2.7	Ice, manufactured.....	99	754	1.1	2,689	0.7	1,775	1.1
Lumber, planing-mill products, not including planing mills connected with sawmills.....	106	1,764	2.6	8,856	2.2	3,581	2.2	Automobile repairing.....	190	614	0.9	2,389	0.6	1,447	0.9
Carriages and wagons, including repairs.....	52	1,456	2.1	8,751	2.2	3,632	2.3	Patent medicines and compounds.....	28	228	0.3	2,210	0.6	1,523	1.0
Leather, tanned, curried, and finished.....	10	661	1.0	8,748	2.2	2,957	1.8	Mineral and carbonated waters.....	93	297	0.4	2,095	0.5	1,043	0.7
Pickles, preserves, and sauces.....	18	1,046	1.5	8,223	2.1	2,703	1.7	Wood, turned and carved.....	10	432	0.6	1,912	0.5	712	0.4
Bread and other bakery products.....	242	1,030	1.5	7,856	2.0	2,431	1.5	Cordage and twine.....	4	469	0.7	1,844	0.5	902	0.6
Printing and publishing, newspapers and periodicals.....	252	1,272	1.8	6,183	1.6	4,431	2.8	Carriage and wagon materials.....	10	521	0.8	1,759	0.4	1,009	0.6
Brick and tile, terra-cotta, and fire-clay products.....	47	2,349	3.4	5,686	1.4	3,682	2.3	Boxes, wooden packing, except cigar boxes.....	8	500	0.7	1,697	0.4	773	0.5
Liquors, malt.....	8	563	0.8	5,417	1.4	4,224	2.6	Marble and stone work.....	63	346	0.5	1,585	0.4	863	0.5
Furniture.....	29	1,381	2.0	5,412	1.4	3,149	2.0	Stoves and ranges.....	6	454	0.7	1,408	0.4	947	0.6
Confectionery and ice cream.....	87	797	1.2	5,255	1.3	2,340	1.5	Automobile bodies and parts.....	17	388	0.6	1,366	0.3	682	0.4
Iron and steel, blast furnaces.....	4	475	0.7	4,465	1.1	854	0.5	Hardware.....	4	343	0.5	1,333	0.3	841	0.5
Cotton goods.....	6	967	1.4	4,459	1.1	1,534	1.0	Food preparations, not elsewhere specified.....	7	92	0.1	1,298	0.3	224	0.1
Coke, not including gas-house coke.....	4	588	0.8	4,453	1.1	974	0.6	Brooms.....	36	170	0.2	1,277	0.3	566	0.4
Saddlery and harness.....	52	479	0.7	4,444	1.1	1,585	1.0	Electrical machinery, apparatus, and supplies.....	9	255	0.4	1,137	0.3	583	0.4
Printing and publishing, book and job.....	108	1,195	1.7	4,422	1.1	2,920	1.8	Machine tools.....	7	249	0.4	1,022	0.3	708	0.4
Agricultural implements.....	8	773	1.1	4,407	1.1	2,127	1.3	Structural ironwork, not made in steel works or rolling mills.....	12	196	0.3	1,016	0.3	548	0.3
Butter.....	16	140	0.2	3,655	0.9	382	0.2	Fertilizers.....	4	81	0.1	1,000	0.3	265	0.2
								Paving materials.....	38	584	0.8	981	0.2	702	0.4
								Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	18	97	0.1	858	0.2	121	0.1
								Clothing, women's.....	10	266	0.4	835	0.2	399	0.3
								All other industries <sup>1</sup> .....	355	9,152	13.2	65,421	16.5	24,489	15.3

<sup>1</sup> Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries, the most important are the following: "Automobiles"; "cement"; "house-furnishing goods, not elsewhere specified"; "musical instruments, pianos"; "oil and cake, cottonseed"; "oil, not elsewhere specified"; "petroleum, refining"; "plumbers' supplies, not elsewhere specified"; "shirts"; "tin foil"; "varnishes"; "watch cases"; and "wood preserving."

# MANUFACTURES—KENTUCKY.

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

CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.		CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.	
					Male.	Fe- male.						Male.	Fe- male.
All classes.....	1919 1914 1909	83,954 77,805 70,080	70,676 67,521 67,860	13,278 10,344 11,200	84.2 86.7 85.8	15.8 13.3 14.2	Clerks and other subordinate salaried employees.	1919 1914 1909	6,833 6,122 5,681	4,692 4,704 4,443	2,241 1,328 1,238	67.2 78.3 78.2	32.8 21.7 21.8
Proprietors and officials.....	1919 1914 1909	7,781 7,157 7,970	7,500 6,946 7,781	281 211 198	96.4 97.1 97.5	3.6 2.9 2.5	Wage earners (average number).....	1919 1914 1909	69,340 64,586 65,400	58,584 55,781 55,636	10,756 8,805 9,764	84.5 86.4 85.1	15.5 13.6 14.0
Proprietors and firm members.....	1919 1914 1909	4,003 4,148 5,050	3,850 4,002 4,893	153 146 157	96.2 96.5 96.9	3.8 3.5 3.1	16 years of age and over.....	1919 1914 1909	68,957 64,299 64,567	58,373 55,582 55,072	10,584 8,717 9,495	84.7 86.4 85.3	15.3 13.6 14.7
Salaried officers of corporations.....	1919 1914 1909	1,456 1,272 1,304	1,426 1,235 1,274	60 37 30	96.0 97.1 97.7	4.0 2.9 2.3	Under 16 years of age.....	1919 1914 1909	383 287 333	211 199 564	172 88 289	55.1 69.3 67.7	44.0 30.7 32.3
Superintendents and managers.....	1919 1914 1909	2,292 1,737 1,625	2,224 1,709 1,614	68 28 11	97.0 98.4 99.3	3.0 1.6 0.7							

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

INDUSTRY.	Cen- sus year.	Wage earn- ers (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earn- ers (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Under 16 years of age.				16 years of age and over.		Under 16 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries.....	1919 1914 1909	69,340 64,586 65,400	84.2 86.1 84.2	15.1 13.5 14.6	0.7 0.4 1.3	Foundry and machine-shop products <sup>2</sup> .....	1919 1914	2,903 1,603	98.8 98.6	1.1 1.4	0.1
Agricultural implements.....	1919 1914	773 600	98.3 98.9	1.6 0.8	0.1 0.3	Furniture.....	1919 1914	1,381 1,158	85.4 96.7	14.3 3.0	0.3 0.3
Automobile repairing.....	1919 1914	614 32	99.6 100.0	0.3	.....	Ice, manufactured.....	1919 1914	754 706	99.2 99.2	0.5 0.3	0.3 0.5
Boots and shoes.....	1919 1914	630 440	43.7 52.5	52.9 45.0	3.5 2.5	Iron and steel, steel works and rolling mills..	1919 1914	1,892 1,987	99.9 100.0	0.1	.....
Boxes, paper and other, not elsewhere speci- fied.	1919 1914	764 93	66.5 34.4	33.5 66.2	..... 5.4	Leather, tanned, curried, and finished.....	1919 1914	661 600	99.7 100.0	0.3	.....
Boxes, wooden packing, except cigar boxes.	1919 1914	500 788	82.4 93.4	14.0 6.3	3.6 0.3	Liquors, malt.....	1919 1914	563 980	98.8 99.7	0.9 0.3	0.4
Bread and other bakery products.....	1919 1914	1,030 993	79.2 83.2	19.8 15.4	1.0 1.4	Lumber and timber products.....	1919 1914	7,716 10,684	97.7 99.8	2.0	0.3 0.1
Brick and tile, terra-cotta, and fire-clay products.	1919 1914	2,349 2,234	97.6 98.6	1.6	0.8 1.4	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919 1914	1,764 1,655	96.7 97.5	3.1 2.2	0.2 0.4
Carriage and wagon materials.....	1919 1914	521 580	99.6 94.6	0.4 5.0	..... 0.3	Paving materials.....	1919 1914	584 679	100.0 100.0	.....	.....
Carriages and wagons, including repairs.....	1919 1914	1,456 1,317	97.0 99.1	3.0 0.8	0.1 0.2	Pickles, preserves, and sauces.....	1919 1914	1,046 350	54.8 49.7	43.7 50.3	1.5
Cars and general shop construction and re- pairs by steam-railroad companies.	1919 1914	12,372 8,485	99.0 99.9	0.1 (1)	.....	Printing and publishing, book and job.....	1919 1914	1,195 1,312	64.6 69.4	33.9 30.0	1.5 0.6
Clothing, men's.....	1919 1914	2,590 2,572	18.8 24.1	80.3 74.9	0.9 1.0	Printing and publishing, newspapers and periodicals.	1919 1914	1,272 1,303	83.6 85.2	14.1 11.7	2.3 3.1
Coke, not including gas-house coke.....	1919 1914	568 472	100.0 100.0	.....	.....	Tobacco, chewing and smoking, and snuff..	1919 1914	2,400 2,312	55.5 55.9	44.5 43.6	..... 0.5
Confectionery and ice cream.....	1919 1914	797 780	55.1 49.6	44.4 50.3	0.5 0.1	Tobacco, cigars and cigarettes.....	1919 1914	1,271 1,014	20.7 39.5	72.5 60.1	6.8 0.4
Cooperage.....	1919 1914	582 794	99.5 99.7	0.5 0.3	.....	Woolen and worsted goods.....	1919 1914	565 675	39.1 38.8	47.3 60.6	13.6 0.6
Cotton goods.....	1919 1914	967 1,158	44.3 44.2	51.9 55.0	3.8 0.8	All other industries.....	1919 1914	15,270 14,663	81.5 83.3	17.8 16.2	0.7 0.6
Flour-mill and gristmill products.....	1919 1914	1,584 1,447	93.7 97.0	3.1 2.6	0.2 0.3						

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

<sup>2</sup> Includes "iron and steel, welding"; "machine tools"; and "textile machinery and parts."

## MANUFACTURES—KENTUCKY.

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

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.		
	Total.			16 years of age and over.						Under 16 years of age.					
				Male.			Female.								
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Ashland.....	1,912			1,770			137			5			\$15,963,475		
Covington.....	4,038	3,199	3,942	3,440	2,697	3,098	597	493	797	1	9	47	17,120,603	\$8,265,496	\$3,711,929
Henderson.....	967	1,147	1,088	668	756	702	267	388	368	32	3	18	4,765,359	2,073,457	2,031,639
Lexington.....	1,171	1,130	1,032	1,009	1,057	971	158	67	56	4	6	5	8,570,495	3,530,677	2,851,125
Louisville.....	29,902	25,930	27,023	23,883	20,563	21,244	5,830	5,294	5,417	189	73	362	204,565,727	105,222,671	101,283,955
Newport.....	2,350	1,880	2,341	2,005	1,482	1,706	333	378	583	12	20	52	16,935,340	8,305,609	6,490,596
Owensboro.....	1,380	1,001	1,064	1,066	930	969	307	66	80	7	5	15	8,634,737	4,066,142	3,505,525
Paducah.....	3,596	2,402	2,613	3,046	2,124	2,331	508	271	234	43	7	48	10,950,818	4,491,183	4,966,088

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

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	66,495	63,088	<i>61,119</i>	87.9	95.4	88.0	July.....	67,882	65,207	63,144	89.7	98.6	90.9
February.....	66,213	63,832	62,345	87.5	96.5	89.7	August.....	69,414	68,145	65,853	91.7	100.0	94.8
March.....	66,899	65,834	63,728	88.3	99.5	91.7	September.....	72,032	69,007	68,637	95.2	99.9	98.8
April.....	66,756	66,072	64,826	88.2	99.9	93.3	October.....	74,002	64,742	68,476	97.8	97.9	100.0
May.....	66,268	65,995	64,754	87.6	99.8	93.2	November.....	74,520	61,931	68,639	98.5	93.6	98.8
June.....	<i>66,941</i>	65,633	63,767	87.1	99.2	91.8	December.....	75,688	60,480	68,510	100.0	91.4	98.6

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

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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	69,340	66,495	66,213	66,899	66,756	66,268	<i>65,041</i>	67,882	69,414	72,032	74,002	74,520	75,688	87.1
Males.....	58,584	56,028	55,986	56,400	56,378	56,295	<i>55,824</i>	57,741	58,040	60,827	62,317	62,883	63,689	87.7
Females.....	10,756	10,467	10,227	10,499	10,378	9,973	10,117	10,141	10,774	11,205	11,685	11,637	11,999	83.1
Agricultural implements.....	773	879	900	924	885	838	653	645	627	656	706	716	838	67.9
Automobile repairing.....	614	543	551	563	572	595	608	643	657	650	655	665	666	81.5
Boots and shoes.....	930	440	473	462	454	460	654	688	724	758	775	821	842	53.3
Boxes, paper and other, not elsewhere specified.....	764	1,025	843	772	739	607	688	721	852	830	790	707	694	57.4
Boxes, wooden packing, except cigar boxes.....	500	508	484	505	491	504	498	511	616	497	506	484	496	93.8
Bread and other bakery products.....	1,030	935	957	977	1,005	1,001	1,059	1,011	1,063	1,044	1,093	1,105	1,110	84.2
Brick and tile, terra-cotta, and fire-clay products.....	2,349	2,116	1,981	2,090	2,363	2,376	2,349	2,631	2,575	2,747	2,702	2,166	2,092	72.1
Carriage and wagon materials.....	521	455	455	469	494	486	502	520	530	555	586	592	608	74.8
Carriages and wagons, including repairs.....	1,456	1,482	1,513	1,492	1,323	1,394	1,355	1,421	1,474	1,502	1,477	1,504	1,537	86.1
Cars and general shop construction and repairs by steam-railroad companies.....	12,372	12,353	12,550	12,567	12,230	12,127	<i>11,572</i>	11,572	11,923	12,484	12,775	13,257	13,367	84.2
Clothing, men's.....	2,590	2,586	2,285	2,345	2,354	2,431	2,367	2,420	2,518	2,654	2,987	3,033	3,100	73.7
Coke, not including gas-house coke.....	588	667	591	552	487	547	580	547	537	562	591	591	564	73.0
Confectionery and ice cream.....	797	842	854	819	771	754	727	786	822	849	791	850	705	82.6
Cooperage.....	582	638	518	487	571	598	557	584	562	563	577	622	707	68.9
Cotton goods.....	967	1,181	1,196	1,201	1,206	1,153	1,211	608	623	627	952	624	1,022	50.2
Flour-mill and gristmill products.....	1,584	1,525	1,506	1,423	1,477	1,487	1,554	1,656	1,730	1,725	1,667	1,626	1,632	82.3
Foundry and machine-shop products.....	2,554	2,482	2,467	2,449	2,380	2,367	2,397	2,606	2,614	2,683	2,716	2,735	2,762	85.3
Furniture.....	1,381	1,201	1,255	1,280	1,328	1,355	1,413	1,436	1,479	1,442	1,478	1,455	1,450	81.2
Ice, manufactured.....	754	451	420	496	660	844	1,059	1,140	1,129	990	788	572	499	36.8
Iron and steel, steel works and rolling mills.....	1,892	2,633	2,539	2,335	2,040	2,100	2,099	1,362	863	862	1,038	2,171	2,662	32.4
Leather, tanned, curried, and finished.....	661	636	646	644	659	685	679	701	676	682	682	688	656	89.6
Liquors, malt.....	563	489	481	504	504	533	566	626	680	632	647	572	522	70.7
Lumber and timber products.....	7,716	6,739	6,804	7,065	6,968	6,529	<i>6,408</i>	7,021	7,626	8,825	9,509	9,625	9,479	66.5
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1,764	1,453	1,501	1,593	1,624	1,709	1,899	1,904	1,933	1,943	1,884	1,886	1,859	73.8
Paving materials.....	584	272	272	379	586	620	677	782	775	764	698	643	540	34.8
Pickles, preserves, and sauces.....	1,045	952	935	883	866	760	974	994	1,342	1,394	1,415	1,091	956	53.0
Printing and publishing, book and job.....	1,195	1,268	1,275	1,299	1,321	845	983	991	1,016	1,304	1,295	1,303	1,340	70.5
Printing and publishing, newspapers and periodicals.....	1,272	1,238	1,245	1,245	1,242	1,251	1,251	1,266	1,287	1,301	1,304	1,325	1,309	93.4
Tobacco, chewing and smoking, and snuff.....	2,406	2,245	2,361	2,385	2,358	<i>2,251</i>	2,369	2,800	2,578	2,452	2,471	2,414	2,408	85.8
Tobacco, cigars and cigarettes.....	1,271	1,204	1,221	1,242	1,182	1,177	1,193	<i>1,152</i>	1,213	1,254	1,363	1,493	1,658	73.9
Woolen and worsted goods.....	565	490	459	481	522	560	564	596	622	623	623	640	621	67.7
All other industries.....	15,619	14,576	14,692	14,941	15,094	15,284	14,897	15,758	15,817	16,185	16,491	16,604	17,087	85.3

# MANUFACTURES—KENTUCKY.

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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-face figures and that of minimum employment by italic figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	Sep* tomber.	Octo- ber.	Novem- ber.	Decem- ber.	
<i>Industries showing large proportion of females.</i>														
Boots and shoes.....	350	266	288	277	276	279	361	378	394	398	399	437	447	59.5
Boxes, paper and oth r, not elsewhere specified .....	256	390	251	270	243	209	194	236	262	288	275	220	220	49.7
Bread and other bakery products.....	208	171	195	202	203	196	213	213	213	204	233	227	226	73.4
Clothing, men's.....	2,100	2,103	1,895	1,944	1,942	1,967	1,896	1,945	2,016	2,146	2,395	2,449	2,501	75.8
Confectionery and ice cream.....	358	423	435	423	363	320	289	307	315	354	334	410	323	66.4
Cotton goods.....	521	662	670	678	676	639	693	296	305	303	489	303	532	42.7
Furniture.....	198	206	216	208	201	200	199	195	193	173	176	212	197	80.1
Pickles, preserves, and sauces.....	469	426	401	445	443	284	342	365	615	652	664	504	487	42.8
Printing and publishing, book and job.....	411	447	449	454	466	310	319	324	334	453	455	454	467	66.4
Printing and publishing, newspapers and periodicals.....	182	172	174	172	172	177	171	179	191	191	194	198	193	86.4
Tobacco, chewing and smoking, and snuff.....	1,070	946	992	1,046	*1,028	974	1,080	1,220	1,190	1,105	1,126	1,084	1,049	77.5
Tobacco, cigars and cigarettes .....	1,062	941	951	971	922	916	929	891	949	983	1,083	1,209	1,279	69.7
Woolen and worsted goods.....	328	279	223	273	204	329	326	355	375	364	368	385	364	57.9
Total for cities.....	45,316	44,980	44,588	44,358	44,210	43,964	43,443	43,953	44,762	45,772	46,856	47,800	49,088	88.5
Males.....	36,096	36,653	36,569	36,181	36,091	36,279	35,578	36,102	36,489	37,211	37,810	38,921	40,068	88.8
Females.....	8,320	8,336	8,019	8,177	8,119	7,685	7,865	7,851	8,273	8,561	9,046	8,878	9,020	85.0
ASHLAND.....	1,012	2,068	1,953	1,689	1,585	1,468	1,263	1,920	2,127	2,182	2,168	2,224	2,301	54.5
Males.....	1,773	1,967	1,847	1,580	1,468	1,350	1,129	1,803	2,001	2,045	2,011	2,014	2,055	54.9
Females.....	130	101	106	103	117	118	124	123	126	137	157	210	246	41.1
COVINGTON.....	4,038	3,879	3,890	3,811	3,769	3,709	3,781	3,969	4,286	4,288	4,323	4,318	4,433	83.7
Males.....	3,441	3,259	3,285	3,206	3,188	3,193	3,238	3,467	3,655	3,676	3,696	3,713	3,776	82.8
Females.....	597	620	605	605	641	516	543	502	631	612	627	605	657	76.4
HENDERSON.....	967	1,096	1,090	1,115	1,198	1,183	1,232	687	762	750	942	608	947	48.0
Males.....	685	668	648	675	755	811	814	654	682	659	685	628	641	64.9
Females.....	282	428	442	440	443	372	418	33	80	91	257	74	306	7.4
LEXINGTON.....	1,171	1,050	1,072	1,078	1,063	1,113	1,125	1,168	1,216	1,262	1,288	1,327	1,290	79.1
Males.....	1,773	1,967	1,847	1,580	1,468	1,350	1,189	1,803	2,001	2,045	2,011	2,014	2,055	81.0
Females.....	158	156	140	144	131	137	125	133	134	177	184	224	202	55.8
LOUISVILLE.....	29,992	29,095	29,391	29,343	29,206	29,107	28,382	29,272	29,893	30,401	31,097	31,367	31,670	89.6
Males.....	23,948	23,641	23,650	23,483	23,454	23,612	22,915	23,409	23,919	24,299	24,692	24,935	25,367	90.3
Females.....	5,954	5,454	5,741	5,860	5,752	5,495	5,467	5,863	6,074	6,102	6,405	6,432	6,303	85.0
NEWPORT.....	2,350	2,808	2,680	2,743	2,756	2,764	2,818	1,918	1,817	1,862	1,376	2,612	3,137	40.2
Males.....	2,012	2,532	2,409	2,445	2,469	2,465	2,510	1,593	962	892	989	2,105	2,703	33.0
Females.....	338	276	280	298	287	309	308	325	355	370	387	417	434	63.6
OWENSBORO.....	1,380	1,316	1,295	1,274	1,260	1,290	1,344	1,364	1,508	1,508	1,618	1,440	1,383	75.2
Males.....	1,073	957	1,017	1,006	991	1,010	1,045	1,052	1,146	1,220	1,223	1,134	1,075	78.3
Females.....	307	259	278	268	269	280	299	312	362	378	395	306	308	62.8
PADUCAH.....	3,596	3,177	3,238	3,305	3,373	3,330	3,508	3,640	3,653	4,020	4,044	3,910	3,927	78.6
Males.....	3,051	2,735	2,790	2,846	2,904	2,872	2,927	3,089	3,042	3,335	3,410	3,299	3,363	80.2
Females.....	545	442	448	459	469	458	581	550	611	684	634	620	564	63.7

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	69,340	3,153	2,625	16,998	8,592	6,840	16,572	12,280	1,079
	1914	64,586	( <sup>2</sup> )	( <sup>2</sup> )	10,672	6,368	11,800	10,185	18,053	7,508
	1909	65,400	( <sup>2</sup> )	( <sup>2</sup> )	9,420	3,364	10,472	9,180	28,692	4,272
Agricultural implements.....	1919	773	—	—	—	58	11	698	6	—
	1914	960	—	—	—	32	28	599	1	—
Automobile repairing.....	1919	614	—	—	14	8	117	56	411	8
	1914	32	—	—	—	—	—	6	20	6
Boots and shoes.....	1919	630	( <sup>2</sup> )	( <sup>2</sup> )	—	73	423	105	—	—
	1914	440	—	—	1	—	145	293	1	—
Boxes, paper and other, not elsewhere specified.....	1919	764	94	—	—	4	—	663	3	—
	1914	93	—	—	—	—	46	47	—	—
Boxes, wooden packing, except cigar boxes.....	1919	500	—	70	5	—	16	321	88	—
	1914	788	—	—	—	506	132	—	150	—
Bread and other bakery products.....	1919	1,030	28	( <sup>2</sup> )	140	61	256	215	275	—
	1914	993	( <sup>2</sup> )	( <sup>2</sup> )	73	16	199	178	391	160
Brick and tile, terra-cotta, and fire-clay products.....	1919	2,349	36	( <sup>2</sup> )	666	198	302	458	615	—
	1914	2,284	( <sup>2</sup> )	( <sup>2</sup> )	635	181	237	255	924	2
Carriage and wagon materials.....	1919	521	—	5	—	40	48	385	43	—
	1914	580	—	—	—	40	43	268	233	—

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

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

## MANUFACTURES—KENTUCKY.

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Carriages and wagons, including repairs.....	1919	1,466			3	769	197	282	202	3
	1914	1,317	( <sup>2</sup> )	( <sup>2</sup> )	269	189	375	24	400	
Cars and general shop construction and repairs by steam-railroad companies.....	1919	12,372		2,196	8,277		4	1,875	20	
	1914	8,485	( <sup>2</sup> )	( <sup>2</sup> )	932	1,884	990		25	4,054
Clothing, men's.....	1919	2,590	792	25	1,151	156	77	387	2	
	1914	2,572	( <sup>2</sup> )	( <sup>2</sup> )	176	813	989	219	375	
Coke, not including gas-house coke.....	1919	568	55		25		94	304		
	1914	472	( <sup>2</sup> )	( <sup>2</sup> )	57				121	294
Confectionery and ice cream.....	1919	797	8		30	178	102	28	350	101
	1914	780	( <sup>2</sup> )	( <sup>2</sup> )	34	32	75	482	68	89
Cooperage.....	1919	582			4	39	16	487	36	
	1914	794	( <sup>2</sup> )	( <sup>2</sup> )	34	58	74	144	484	
Cotton goods.....	1919	967				335	407		225	
	1914	1,158						1,088	70	
Flour-mill and gristmill products.....	1919	1,584	31		426	15	82	31	824	175
	1914	1,447	( <sup>2</sup> )	( <sup>2</sup> )	321	15	48	16	746	301
Foundry and machine-shop products <sup>3</sup> .....	1919	2,903	178	7	494	696	223	1,191	114	
	1914	1,603	( <sup>2</sup> )	( <sup>2</sup> )	153	188	509	318	435	
Furniture.....	1919	1,381	33			191	251	666	240	
	1914	1,158	( <sup>2</sup> )	( <sup>2</sup> )	151		109	383	515	
Ice, manufactured.....	1919	754	1		48	1	17	91	102	494
	1914	708	( <sup>2</sup> )	( <sup>2</sup> )	13	3	5	16	52	677
Iron and steel, steel works and rolling mills.....	1919	1,892			603		196	603	260	230
	1914	1,987	( <sup>2</sup> )	( <sup>2</sup> )	1,130			158	301	392
Leather, tanned, curried, and finished.....	1919	661				228	310	25	98	
	1914	600	( <sup>2</sup> )	( <sup>2</sup> )	12	66	254	40	228	
Liquors, malt.....	1919	563			563					
	1914	980	( <sup>2</sup> )	( <sup>2</sup> )	677	60	110	133		
Lumber and timber products.....	1919	7,710	237	58	150	316	570	1,196	5,185	4
	1914	10,684	( <sup>2</sup> )	( <sup>2</sup> )	721	396	2,410	749	6,313	95
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	1,764	254	26	64	291	297	232	600	
	1914	1,665	( <sup>2</sup> )	( <sup>2</sup> )	110	190	793	117	437	2
Paving materials.....	1919	584	4		43	15	17	51	454	
	1914	679	( <sup>2</sup> )	( <sup>2</sup> )	18		59	44	558	
Pickles, preserves, and sauces.....	1919	1,046	20				510	456	60	
	1914	350	( <sup>2</sup> )	( <sup>2</sup> )	7		169	118	56	
Printing and publishing, book and job.....	1919	1,105	179		915	80	13		8	
	1914	1,312	( <sup>2</sup> )	( <sup>2</sup> )	951	86	250	2	23	
Printing and publishing, newspapers and periodicals.....	1919	1,272	30	5	512	118	186	325	96	
	1914	1,303	( <sup>2</sup> )	( <sup>2</sup> )	773	57	303	47	112	11
Tobacco, chewing and smoking, and snuff.....	1919	2,406		36	23	105	174	1,958	110	
	1914	2,312	( <sup>2</sup> )	( <sup>2</sup> )	81	31	194	1,591	415	
Tobacco, cigars and cigarettes.....	1919	1,271	55	33	383	376		252	172	
	1914	1,014	( <sup>2</sup> )	( <sup>2</sup> )	572	96	53	66	227	
Woolen and worsted goods.....	1919	565	3		2	10	247	300	3	
	1914	675	( <sup>2</sup> )	( <sup>2</sup> )	6	3	2	596	78	
All other industries.....	1919	15,270	1,086	91	2,457	4,281	1,677	3,141	1,678	909
	1914	14,663	( <sup>2</sup> )	( <sup>2</sup> )	2,753	1,420	3,199	2,208	4,264	819
Total for cities.....	1919	45,316	2,611	2,189	12,892	6,674	4,761	11,664	3,312	1,213
	1914	36,689	( <sup>2</sup> )	( <sup>2</sup> )	7,034	4,413	7,259	7,382	6,013	4,588
ASHLAND.....	1919	1,912	15		190	132	636	50	336	544
COVINGTON.....	1919	4,038	101	80	2,174	551	355	753	21	3
	1914	3,190	( <sup>2</sup> )	( <sup>2</sup> )	547	242	989	1,042	348	31
HENDERSON.....	1919	967			98	520	9	279	55	6
	1914	1,147	( <sup>2</sup> )	( <sup>2</sup> )	74		219	608	221	25
LEXINGTON.....	1919	1,171	33		405	123	162	65	344	39
	1914	1,130	( <sup>2</sup> )	( <sup>2</sup> )	258	19	446	73	206	128
LOUISVILLE.....	1919	29,902	2,201	383	8,610	4,434	3,075	8,753	1,935	511
	1914	25,930	( <sup>2</sup> )	( <sup>2</sup> )	5,126	2,437	4,644	5,180	4,247	4,287
NEWPORT.....	1919	2,350	228	34	1,094	221	40	712	19	2
	1914	1,880	( <sup>2</sup> )	( <sup>2</sup> )	818	439	420	68	120	15
OWENSBORO.....	1919	1,380	3		12	260	183	514	347	61
	1914	1,001	( <sup>2</sup> )	( <sup>2</sup> )	43	211	154	182	393	68
PADUCAH.....	1919	3,596	30	1,692	309	433	301	529	255	47
	1914	2,402	( <sup>2</sup> )	( <sup>2</sup> )	168	1,065	387	270	478	34

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.<sup>3</sup> Includes "iron and steel, welding"; "machine tools"; and "textile machinery and parts."

# MANUFACTURES—KENTUCKY.

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

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
	Establishments.	Wage earners (average number).	No wage earn- ers.	1 to 5 wage earn- ers, inclusive.	6 to 20 wage earn- ers, inclusive.	21 to 50 wage earn- ers, inclusive.	51 to 100 wage earn- ers, inclusive.	101 to 250 wage earn- ers, inclusive.	251 to 500 wage earn- ers, inclusive.	501 to 1,000 wage earn- ers, inclusive.	Over 1,000 wage earn- ers.								
			Establish- ments.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.				
All industries.....	3,957	60,340	498	2,353	5,270	600	6,082	235	7,668	128	9,120	106	16,267	19	6,357	12	7,362	6	10,614
Agricultural implements.....	8	773	—	4	5	2	28	1	42	—	—	—	—	—	—	1	698	—	—
Automobile repairing.....	190	614	7	161	372	18	150	4	92	—	—	—	—	—	—	—	—	—	—
Boots and shoes.....	7	630	—	—	—	1	11	2	75	1	73	3	471	—	—	—	—	—	—
Boxes, paper and other, not elsewhere specified.....	6	764	—	2	7	—	—	2	76	1	51	—	—	—	—	1	630	—	—
Boxes, wooden packing, except cigar boxes.....	8	500	—	1	5	2	28	1	23	3	216	1	228	—	—	—	—	—	—
Bread and other bakery products.....	242	1,030	45	160	342	32	307	1	23	3	237	1	121	—	—	—	—	—	—
Brick and tile, terra-cotta, and fire-clay products.....	47	2,349	—	8	26	13	170	15	448	3	262	7	1,087	1	356	—	—	—	—
Carriage and wagon materials.....	19	521	4	6	15	2	27	5	147	—	—	2	332	—	—	—	—	—	—
Carrriages and wagons, including repairs.....	52	1,456	4	33	60	8	69	—	—	2	134	4	615	—	—	1	572	—	—
Cars and general shop construction and re- pairs by steam-railroad companies.....	30	12,372	—	3	8	2	18	1	32	6	447	8	1,112	3	1,228	3	1,721	4	7,800
Clothing, men's.....	50	2,500	—	8	30	20	253	7	223	8	620	0	1,068	1	387	—	—	—	—
Coke, not including gas-house coke.....	4	568	—	—	—	—	—	1	25	2	149	—	—	1	394	—	—	—	—
Confectionery and ice cream.....	87	797	16	56	135	10	98	2	72	1	63	1	172	1	257	—	—	—	—
Cooperage.....	14	582	1	2	6	7	79	2	78	—	—	1	144	1	275	—	—	—	—
Cotton goods.....	6	967	1	—	—	—	—	2	69	—	—	1	156	2	742	—	—	—	—
Flour-mill and gristmill products.....	533	1,584	180	312	622	31	200	0	173	2	117	1	128	1	275	—	—	—	—
Foundry and machine-shop products.....	87	2,551	5	36	72	23	291	11	327	6	307	5	849	—	—	1	618	—	—
Furniture.....	20	1,381	2	3	8	3	40	11	331	6	401	4	592	—	—	—	—	—	—
Ice, manufactured.....	60	754	2	62	181	32	343	2	49	—	—	1	181	—	—	—	—	—	—
Iron and steel, steel works and rolling mills.....	5	1,892	—	—	—	—	—	—	—	—	—	2	426	1	260	2	1,206	—	—
Leather, tanned, curried, and finished.....	10	661	—	1	4	1	16	4	139	2	140	2	350	—	—	—	—	—	—
Liquors, malt.....	8	563	—	—	—	2	30	1	50	3	183	2	300	—	—	—	—	—	—
Lumber and timber products.....	931	7,716	16	764	1,000	94	956	27	890	16	1,108	11	1,556	1	200	2	1,346	—	—
Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	106	1,764	6	53	152	25	275	14	480	5	333	3	524	—	—	—	—	—	—
Paving materials.....	38	581	—	12	37	17	209	7	212	2	126	—	—	—	—	—	—	—	—
Pickles, preserves, and sauces.....	18	1,046	5	3	7	2	22	3	118	1	60	2	254	2	585	—	—	—	—
Printing and publishing, book and job.....	108	1,195	24	46	106	28	500	5	130	2	136	3	323	—	—	—	—	—	—
Printing and publishing, newspapers and periodicals.....	252	1,272	40	170	421	21	198	9	282	1	53	2	318	—	—	—	—	—	—
Tobacco, chewing and smoking, and snuff.....	24	2,406	2	5	5	3	37	3	89	9	669	—	—	1	401	—	—	1	1,202
Tobacco, cigars and cigarettes.....	76	1,271	35	17	35	12	125	4	121	4	307	4	683	—	—	—	—	—	—
Woolen and worsted goods.....	10	555	—	6	8	1	10	—	—	—	—	3	547	—	—	1	—	—	—
All other industries.....	853	15,619	94	419	995	188	2,114	82	2,852	39	2,823	26	3,724	3	934	1	571	1	1,606
Total for cities.....	1,367	45,316	168	546	1,354	318	3,002	148	4,802	86	6,246	77	11,789	13	4,073	6	3,725	5	9,005
ASHLAND.....	43	1,912	2	18	42	10	138	4	115	—	—	8	1,357	1	260	—	—	—	—
COVINGTON.....	133	4,038	15	56	121	39	330	14	496	0	640	7	1,050	1	341	—	—	1	1,039
HENDERSON.....	31	967	5	13	39	5	61	3	81	2	151	2	300	1	335	—	—	—	—
LEXINGTON.....	170	1,171	16	106	258	37	384	7	211	3	208	1	110	—	—	—	—	—	—
LOUISVILLE.....	767	29,902	104	271	680	172	2,010	98	3,289	60	4,422	45	6,955	10	3,137	4	2,518	3	6,882
NEWPORT.....	17	2,350	17	25	60	26	202	6	150	3	222	3	419	—	—	2	1,207	—	—
OWENSBORO.....	61	1,380	5	28	72	18	100	5	183	3	180	5	755	—	—	—	—	—	—
PADUCAH.....	78	3,596	4	29	73	21	248	11	337	6	417	6	837	—	—	—	—	1	1,684

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

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	3,957	4,184	4,770	69,340	64,586	65,400	\$305,600,417	\$230,248,009	\$223,754,407	\$159,944,791	\$115,419,680	\$111,975,180
Less than \$5,000.....	1,196	1,947	2,290	1,149	3,980	4,857	3,070,593	4,314,154	5,170,841	1,831,236	2,787,930	3,387,013
\$5,000 to \$20,000.....	1,323	1,135	1,290	3,988	6,090	7,253	13,986,516	11,420,185	12,790,373	7,211,551	6,280,714	7,165,457
\$20,000 to \$100,000.....	912	710	781	9,077	12,091	13,810	41,839,465	31,552,920	35,218,448	18,247,170	13,907,291	15,769,584
\$100,000 to \$500,000.....	369	307	380	17,507	30,452	20,105	82,066,128	72,560,578	108,403,015	37,696,119	55,822,459	50,024,930
\$500,000 to \$1,000,000.....	85	53	29	9,350	11,961	10,375	69,419,000	37,760,300	62,104,920	24,800,347	36,621,292	29,628,196
\$1,000,000 and over.....	72	32	—	28,313	—	—	194,678,736	72,028,682	—	70,159,368	—	—
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.....	30.2	46.5	47.9	1.7	6.2	7.4	0.8	1.9	2.3	1.1	2.4	3.0
\$5,000 to \$20,000.....	33.4	27.1	27.0	5.7	9.4	11.1	3.5	5.0	5.7	4.5	5.4	6.4
\$20,000 to \$100,000.....	23.1	17.0	16.4	13.1	18.7	21.1	10.6	13.7	15.7	11.4	12.0	14.1
\$100,000 to \$500,000.....	9.3	7.3	—	25.2	—	—	20.9	31.5	—	23.6	—	—
\$500,000 to \$1,000,000.....	2.1	1.3	—	13.5	—	—	15.0	—	—	15.5	—	—
\$1,000,000 and over.....	1.8	0.8	0.6	40.8	18.5	15.9	49.2	31.5	27.8	43.9	31.7	26.5



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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919		Per cent distribution.		1919		Per cent distribution.		1919		Per cent distribution.		1919		Per cent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
<b>BREAD AND OTHER BAKERY PRODUCTS.....</b>	242	236	100.0	100.0	1,030	993	100.0	100.0	\$7,856,283	\$3,347,067	100.0	100.0	\$2,430,674	\$1,404,922	100.0	100.0
Less than \$5,000.....	52	110	21.5	46.6	26	79	2.5	8.0	161,533	295,472	2.1	8.8	64,489	135,600	2.7	0.7
\$5,000 to \$20,000.....	108	95	44.6	40.3	165	273	16.0	27.5	1,087,703	895,365	13.8	26.8	304,571	399,853	12.5	28.5
\$20,000 to \$100,000.....	71	25	29.3	10.6	367	267	35.6	26.9	2,881,961	881,461	36.7	26.3	808,048	391,799	33.0	27.9
\$100,000 to \$500,000.....	8	6	3.3	2.5	168	374	16.3	37.7	1,447,678	1,274,789	18.4	38.1	428,466	477,670	17.6	34.0
\$500,000 to \$1,000,000.....	3	.....	1.2	.....	304	.....	29.5	.....	2,277,408	.....	29.0	.....	644,500	.....	26.5	.....
<b>BRICK AND TILE, TERRAZZOTA, AND FIRE-CLAY PRODUCTS.....</b>	47	69	100.0	100.0	2,349	2,234	100.0	100.0	5,686,473	2,202,668	100.0	100.0	3,682,426	1,472,664	100.0	100.0
Less than \$5,000.....	5	25	10.6	36.2	12	100	0.5	4.5	15,172	68,564	0.3	3.1	12,029	52,008	0.3	3.5
\$5,000 to \$20,000.....	10	19	21.3	27.5	104	245	4.4	11.0	151,202	205,823	2.7	9.3	113,045	159,609	3.1	10.8
\$20,000 to \$100,000.....	20	20	42.6	29.0	483	834	20.6	37.3	1,001,871	940,526	17.6	42.7	718,070	685,460	19.5	46.5
\$100,000 to \$500,000.....	9	5	19.1	7.2	1,029	1,055	43.8	47.2	2,530,363	987,755	44.5	44.8	1,571,419	575,587	42.7	39.1
\$500,000 to \$1,000,000.....	3	.....	6.4	.....	721	.....	30.7	.....	1,987,865	.....	35.0	.....	1,267,863	.....	34.4	.....
<b>CARRIAGES AND WAGONS, INCLUDING REPAIRS.....</b>	52	107	100.0	100.0	1,456	1,317	100.0	100.0	8,751,095	3,557,968	100.0	100.0	3,632,336	1,578,726	100.0	100.0
Less than \$5,000.....	17	50	32.7	46.7	17	72	1.2	5.5	53,602	118,993	0.6	3.3	34,805	76,976	1.0	4.9
\$5,000 to \$20,000.....	22	37	42.3	34.6	68	193	4.7	14.7	201,236	331,620	2.3	9.3	129,361	213,465	3.6	13.5
\$20,000 to \$100,000.....	5	12	9.6	11.2	38	182	2.6	13.8	144,985	461,940	1.7	13.0	76,806	196,515	2.1	12.4
\$100,000 to \$1,000,000.....	5	8	9.6	7.5	411	870	28.2	66.1	2,624,829	2,645,415	30.0	74.4	909,911	1,091,770	25.1	69.2
\$1,000,000 and over.....	3	.....	5.8	.....	922	.....	63.3	.....	5,726,443	.....	65.4	.....	2,481,453	.....	68.3	.....
<b>CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.....</b>	30	23	100.0	100.0	12,372	8,485	100.0	100.0	30,597,962	13,344,242	100.0	100.0	18,640,714	6,085,347	100.0	100.0
Less than \$100,000.....	6	8	20.0	34.8	59	237	0.5	2.8	113,850	282,139	0.4	2.1	78,615	181,583	0.4	3.0
\$100,000 to \$500,000.....	13	15	43.3	65.2	1,403	1,848	11.3	97.2	3,063,894	13,062,103	10.0	97.9	2,221,010	15,903,764	11.9	97.0
\$500,000 to \$1,000,000.....	3	.....	10.0	.....	971	.....	7.8	.....	2,303,725	.....	7.5	.....	1,525,141	.....	8.2	.....
\$1,000,000 and over.....	8	.....	26.7	.....	9,939	.....	80.3	.....	25,116,493	.....	82.1	.....	14,815,348	.....	70.5	.....
<b>CLOTHING, MEN'S.....</b>	50	60	100.0	100.0	2,590	2,572	100.0	100.0	10,071,884	4,641,491	100.0	100.0	4,339,362	2,275,269	100.0	100.0
Less than \$20,000.....	20	43	40.0	71.7	227	501	8.8	19.5	220,231	228,153	2.2	4.9	209,303	199,110	4.8	8.8
\$20,000 to \$100,000.....	10	5	20.0	8.3	180	258	7.3	10.0	453,103	246,114	4.5	5.3	262,003	133,350	6.1	5.9
\$100,000 to \$500,000.....	13	12	26.0	20.0	733	1,813	28.3	70.5	3,537,730	4,167,224	35.1	89.8	1,248,593	2,042,809	28.8	85.4
\$500,000 and over.....	7	.....	14.0	.....	1,441	.....	55.6	.....	5,860,820	.....	58.2	.....	2,618,563	.....	60.3	.....
<b>CONFECTIONERY AND ICE CREAM.....</b>	87	66	100.0	100.0	797	780	100.0	100.0	5,255,290	2,457,603	100.0	100.0	2,340,263	1,082,041	100.0	100.0
Less than \$5,000.....	19	27	21.8	40.9	7	18	0.9	2.3	44,605	56,060	0.8	2.3	24,581	29,573	1.1	2.7
\$5,000 to \$20,000.....	35	21	40.2	31.8	72	66	9.0	8.5	364,295	207,476	6.9	8.4	177,188	93,515	7.6	8.6
\$20,000 to \$100,000.....	28	13	32.2	19.7	170	148	22.1	19.0	1,331,184	436,224	25.3	17.7	471,586	212,077	20.2	19.6
\$100,000 and over.....	5	5	5.7	7.6	542	548	68.0	70.3	3,515,206	1,757,843	66.9	71.5	1,660,908	746,876	71.2	69.0
<b>FLOUR-MILL AND GRISTMILL PRODUCTS.....</b>	533	442	100.0	100.0	1,584	1,447	100.0	100.0	45,773,798	21,229,203	100.0	100.0	6,192,837	3,809,749	100.0	100.0
Less than \$5,000.....	143	86	26.8	19.5	25	48	1.6	3.3	392,687	261,078	0.9	1.2	70,507	59,333	1.1	1.6
\$5,000 to \$20,000.....	166	102	31.1	36.7	148	212	9.3	14.7	1,863,541	1,745,501	4.1	8.2	370,817	359,298	6.0	9.4
\$20,000 to \$100,000.....	169	162	31.7	36.7	407	556	25.7	38.4	8,542,973	6,627,874	18.7	31.2	1,348,912	1,351,112	21.8	35.5
\$100,000 to \$500,000.....	44	32	8.3	7.2	297	631	18.7	43.6	8,006,608	12,695,250	19.6	59.4	1,408,137	2,040,006	22.7	53.5
\$500,000 to \$1,000,000.....	6	.....	1.1	.....	175	.....	11.0	.....	4,383,280	.....	9.6	.....	685,093	.....	11.1	.....
\$1,000,000 and over.....	5	.....	0.9	.....	532	.....	33.6	.....	21,624,060	.....	47.2	.....	2,308,771	.....	37.3	.....
<b>FOUNDRY AND MACHINE-SHOP PRODUCTS.....</b>	99	86	100.0	100.0	2,903	1,603	100.0	100.0	12,988,559	4,046,647	100.0	100.0	7,202,615	2,091,335	100.0	100.0
Less than \$5,000.....	21	24	21.2	27.9	13	41	0.4	2.6	56,980	68,235	0.4	1.7	41,239	44,809	0.6	2.1
\$5,000 to \$20,000.....	26	31	26.3	36.0	97	174	3.3	10.9	271,987	321,081	2.1	8.0	189,153	197,748	2.5	9.5
\$20,000 to \$100,000.....	27	22	27.3	25.6	420	436	14.5	27.2	1,467,474	870,217	11.3	24.0	846,850	658,580	11.8	26.7
\$100,000 to \$500,000.....	18	9	18.2	10.5	882	2,952	30.4	59.4	3,583,401	2,686,214	27.6	66.4	2,036,834	1,290,108	28.3	61.7
\$500,000 and over.....	7	.....	7.1	.....	1,491	.....	51.4	.....	7,608,717	.....	58.0	.....	4,094,539	.....	56.8	.....
<b>FURNITURE.....</b>	29	29	100.0	100.0	1,381	1,158	100.0	100.0	5,411,673	2,184,464	100.0	100.0	3,148,745	1,199,504	100.0	100.0
Less than \$20,000.....	4	7	13.8	24.1	8	54	0.6	4.7	21,503	45,853	0.4	2.1	13,045	23,251	0.4	1.9
\$20,000 to \$100,000.....	8	17	27.6	58.6	182	587	13.2	50.7	559,944	1,027,230	10.3	47.0	339,211	533,886	10.8	44.5
\$100,000 to \$1,000,000.....	17	5	58.6	17.2	1,191	517	86.2	44.6	4,830,226	1,111,381	89.3	50.9	2,796,489	642,367	88.8	53.6
<b>LUMBER AND TIMBER PRODUCTS.....</b>	931	1,177	100.0	100.0	7,716	10,084	100.0	100.0	23,283,636	13,850,755	100.0	100.0	13,482,655	7,736,455	100.0	100.0
Less than \$5,000.....	444	854	47.7	72.6	592	2,411	7.7	22.6	1,080,153	1,573,913	4.6	11.4	750,445	1,127,485	5.6	14.6
\$5,000 to \$20,000.....	335	229	36.0	19.5	1,104	1,915	14.3	17.9	3,513,980	2,139,476	15.1	15.4	1,841,415	1,401,646	13.7	18.1
\$20,000 to \$100,000.....	115	71	12.4	6.0	1,630	1,912	21.1	17.9	4,303,828	2,984,450	18.5	21.5	2,639,027	1,541,086	19.5	19.9
\$100,000 to \$500,000.....	32	19	3.4	1.6	2,516	4,446	32.6	41.6	7,970,400	3,889,328	34.2	28.1	2,639,027	1,541,086	35.7	47.4
\$500,000 and over.....	5	4	0.5	0.3	1,874	.....	24.3	.....	6,415,275	3,263,579	27.6	23.6	3,441,986	.....	25.5	.....
<b>LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS.....</b>	106	111	100.0	100.0	1,764	1,655	100.0	100.0	8,855,944	4,636,935	100.0	100.0	3,581,418	1,092,765	100.0	100.0
Less than \$5,000.....	18	33	17.0	29.7	24	56	1.4	3.4	51,570	109,796	0.6	2.4	26,442	69,453	0.7	4.1
\$5,000 to \$20,000.....	26	25	24.5	22.5	66	104	3.7	6.3	316,372	267,951	3.6	5.8	144,243	121,463	4.0	7.2
\$20,000 to \$100,000.....	37	41	34.9	36.9	326	813	18.5	49.1	1,700,089	2,058,363	19.2	44.4	657,173	714,969	18.3	42.2
\$100,000 to \$500,000.....	22	12	20.8	10.8	1,073	682	60.8	41.2	4,756,714	2,200,825	53.7	47.5	2,077,419	786,880	58.0	46.5
\$500,000 to \$1,000,000.....	3	.....	2.8	.....	275	.....	15.6	.....	2,031,190	.....	22.9	.....	676,141	.....	18.9	.....

1 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."

3 Includes "iron and steel, welding"; "machine tools"; and "textile machinery and parts."

## MANUFACTURES—KENTUCKY.

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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
PRINTING AND PUBLISHING, BOOK AND JOB.....	108	124	100.0	100.0	1,195	1,312	100.0	100.0	\$4,421,926	\$2,687,300	100.0	100.0	\$2,920,052	\$1,810,152	100.0	100.0
Less than \$5,000.....	30	60	36.1	48.4	16	74	1.3	5.6	92,514	153,721	2.1	5.7	59,497	115,116	2.0	6.4
\$5,000 to \$20,000.....	33	39	30.6	31.5	127	222	10.6	16.9	329,938	393,897	7.5	14.7	218,852	258,247	7.5	14.3
\$20,000 to \$100,000.....	28	19	25.0	15.3	350	335	29.3	25.5	1,100,491	688,036	25.0	25.6	695,060	466,674	23.8	25.8
\$100,000 to \$1,000,000.....	8	6	7.4	4.8	702	681	58.7	51.0	2,892,083	1,450,755	65.4	54.0	1,946,643	970,115	66.7	53.6
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	252	276	100.0	100.0	1,272	1,303	100.0	100.0	6,183,394	3,534,218	100.0	100.0	4,431,222	2,718,347	100.0	100.0
Less than \$5,000.....	112	170	44.4	61.6	142	274	11.2	21.0	329,757	407,007	5.3	11.5	251,711	329,276	5.7	12.1
\$5,000 to \$20,000.....	109	86	43.3	31.2	324	376	25.5	28.9	1,097,906	785,694	17.8	22.2	787,604	641,230	17.8	23.6
\$20,000 to \$100,000.....	21	15	8.3	5.4	258	189	20.3	14.5	909,716	701,072	15.7	21.5	735,838	566,617	16.6	20.8
\$100,000 and over.....	10	5	4.0	1.8	548	464	43.1	35.6	3,785,955	1,680,445	61.2	44.7	2,656,069	1,181,224	59.9	43.5
SADDLERY AND HARNESS.....	52	40	100.0	100.0	479	500	100.0	100.0	4,443,962	2,074,016	100.0	100.0	1,585,185	654,612	100.0	100.0
Less than \$5,000.....	15	15	28.8	37.5	10	13	2.1	2.6	45,509	34,384	1.0	1.7	20,032	19,567	1.8	3.0
\$5,000 to \$20,000.....	23	12	44.2	30.0	39	20	8.1	5.8	218,428	90,498	4.9	4.4	104,098	52,067	6.6	8.0
\$20,000 to \$100,000.....	4	8	7.7	20.0	28	183	5.8	36.6	221,245	674,860	5.0	27.7	68,035	152,629	4.3	23.3
\$100,000 to \$500,000.....	7	5	13.5	12.5	181	275	37.8	55.0	1,533,781	1,374,274	34.5	66.3	548,752	430,340	34.6	65.7
\$500,000 and over.....	3	—	5.8	—	221	—	46.1	—	2,424,099	—	54.6	—	833,498	—	52.6	—
SLAUGHTERING AND MEAT PACKING.....	26	28	100.0	100.0	450	223	100.0	100.0	12,953,986	4,100,409	100.0	100.0	2,295,082	438,547	100.0	100.0
Less than \$20,000.....	—	4	—	14.3	—	2	—	0.9	—	38,390	—	0.9	—	8,430	—	1.9
\$20,000 to \$100,000.....	14	18	53.8	64.3	39	62	8.7	27.8	833,001	992,052	6.4	24.1	174,282	132,429	7.6	30.2
\$100,000 to \$500,000.....	7	—	26.9	—	83	—	18.4	—	2,103,362	—	16.2	—	274,966	—	12.0	—
\$500,000 and over.....	5	16	19.2	21.4	328	159	72.9	71.3	10,017,623	3,078,958	77.3	74.9	1,845,834	1,297,688	80.4	67.9
TOBACCO, CHEWING AND SMOKING, AND SNUFF.....	21	38	100.0	100.0	2,406	2,312	100.0	100.0	20,547,825	14,785,239	100.0	100.0	9,230,337	7,674,839	100.0	100.0
Less than \$5,000.....	7	13	29.2	34.2	24	20	0.2	1.1	15,839	36,794	0.1	0.2	29,198	21,128	0.1	0.3
\$5,000 to \$20,000.....	—	7	—	18.4	—	35	—	1.5	—	51,307	—	0.3	—	34,089	—	0.4
\$20,000 to \$100,000.....	5	7	20.8	18.4	128	105	5.3	7.1	818,411	272,854	1.5	1.8	154,760	149,775	1.7	1.0
\$100,000 to \$500,000.....	5	11	20.8	20.0	243	2,086	10.1	90.2	1,430,946	14,424,284	7.0	97.6	604,403	7,469,847	6.5	51.3
\$500,000 and over.....	7	—	20.2	—	2,031	—	84.4	—	18,782,629	—	91.4	—	8,470,976	—	91.7	—
TOBACCO, CIGARS AND CIGARETTES.....	76	115	100.0	100.0	1,271	1,014	100.0	100.0	3,581,321	1,361,387	100.0	100.0	1,944,961	809,186	100.0	100.0
Less than \$5,000.....	42	81	55.3	73.0	13	59	1.0	5.8	87,392	139,802	2.4	10.3	49,180	89,239	2.5	11.0
\$5,000 to \$20,000.....	15	16	19.7	13.9	78	116	6.1	11.4	162,240	141,680	4.5	10.4	90,622	95,254	4.7	11.8
\$20,000 to \$100,000.....	9	12	11.8	10.4	130	403	10.2	39.7	401,301	573,478	11.2	42.1	233,790	327,428	12.0	40.5
\$100,000 to \$1,000,000.....	10	3	13.2	2.6	1,050	430	82.6	43.0	2,930,478	506,421	81.8	37.2	1,571,363	297,265	80.8	36.7

<sup>1</sup> Includes the group "\$100,000 to \$500,000."<sup>2</sup> Includes the group "\$5,000 to \$20,000."<sup>3</sup> 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 establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ASHLAND.....	43	1,912	100.0	\$15,963,475	100.0	\$4,058,475	100.0	LOUISVILLE.....	767	29,902	100.0	\$204,565,727	100.0	\$78,466,310	100.0
Less than \$5,000.....	4	3	0.2	10,371	0.1	5,648	0.1	Less than \$5,000.....	123	70	0.2	340,655	0.2	206,921	0.3
\$5,000 to \$20,000.....	15	67	3.5	171,427	1.1	96,969	2.4	\$5,000 to \$20,000.....	177	438	1.5	1,881,817	0.9	1,116,058	1.4
\$20,000 to \$100,000.....	9	222	11.6	474,662	3.0	312,490	7.7	\$20,000 to \$100,000.....	232	2,545	8.5	11,845,211	5.5	5,809,176	7.4
\$100,000 to \$500,000.....	9	587	30.7	2,552,172	16.0	1,110,103	27.4	\$100,000 to \$500,000.....	157	7,517	25.1	36,082,032	17.6	17,213,375	21.9
\$500,000 and over.....	6	1,033	54.0	12,754,843	79.9	2,633,265	62.4	\$500,000 to \$1,000,000.....	42	4,135	13.8	29,478,872	14.4	12,677,872	16.2
								\$1,000,000 and over.....	36	15,197	50.8	125,454,140	61.3	41,442,908	52.8
COVINGTON.....	133	4,038	100.0	17,120,603	100.0	9,286,966	100.0	NEWPORT.....	81	2,350	100.0	16,935,349	100.0	7,605,181	100.0
Less than \$5,000.....	24	9	0.2	57,429	0.3	33,130	0.4	Less than \$5,000.....	17	5	0.2	34,934	0.2	18,218	0.2
\$5,000 to \$20,000.....	39	126	3.1	384,561	2.2	221,475	2.4	\$5,000 to \$20,000.....	28	191	8.1	307,706	1.8	214,504	2.8
\$20,000 to \$100,000.....	37	355	8.8	1,085,379	6.3	904,816	9.7	\$20,000 to \$100,000.....	22	269	11.4	1,070,778	6.3	573,632	7.5
\$100,000 to \$500,000.....	23	1,195	29.6	5,597,525	32.7	3,182,081	34.3	\$100,000 to \$500,000.....	10	473	20.1	2,406,610	14.7	1,325,301	17.4
\$500,000 and over.....	10	2,353	58.3	9,395,799	54.0	4,945,455	53.3	\$1,000,000 and over.....	4	1,412	60.1	13,025,321	76.9	5,473,526	72.0
HENDERSON.....	31	967	100.0	4,765,359	100.0	1,825,182	100.0	OWENSBORO.....	64	1,380	100.0	8,634,737	100.0	3,940,916	100.0
Less than \$5,000.....	8	3	0.3	16,907	0.4	7,559	0.4	Less than \$5,000.....	12	10	0.7	32,296	0.4	15,978	0.4
\$5,000 to \$20,000.....	6	18	1.9	59,571	1.3	22,255	1.2	\$5,000 to \$20,000.....	14	44	3.2	160,806	1.9	83,427	2.1
\$20,000 to \$100,000.....	9	125	12.9	477,680	10.0	288,271	15.8	\$20,000 to \$100,000.....	23	212	15.4	1,230,031	14.2	584,042	14.8
\$100,000 to \$1,000,000.....	8	821	84.9	4,211,195	88.4	1,507,097	82.6	\$100,000 to \$500,000.....	7	220	15.9	1,350,940	15.6	670,918	14.5
								\$500,000 and over.....	8	594	44.8	5,809,604	67.9	2,686,551	68.2
LEXINGTON.....	170	1,171	100.0	8,570,495	100.0	3,640,158	100.0	PADUCAH.....	78	3,596	100.0	10,950,818	100.0	6,008,823	100.0
Less than \$5,000.....	37	20	1.7	82,882	1.0	50,450	1.6	Less than \$5,000.....	6	4	0.1	19,483	0.2	14,480	0.2
\$5,000 to \$20,000.....	61	170	14.5	679,100	7.9	389,078	10.7	\$5,000 to \$20,000.....	23	75	2.1	256,631	2.3	128,497	2.1
\$20,000 to \$100,000.....	54	450	38.4	2,337,033	27.3	1,012,652	27.8	\$20,000 to \$100,000.....	30	464	12.9	1,656,590	15.1	847,711	14.1
\$100,000 to \$1,000,000.....	18	531	45.3	5,471,480	63.8	2,178,972	59.9	\$100,000 to \$500,000.....	15	2,027	73.1	6,233,066	56.9	3,858,671	64.2
								\$500,000 to \$1,000,000.....	4	426	11.8	2,785,108	25.4	1,150,664	19.3

## MANUFACTURES—KENTUCKY.

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.	
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.						
All industries.....	1919	1,890	1,150	917	69,340	5,547	58,897	4,896	8.0	84.9	7.1	\$395,660,417	\$26,994,727	\$338,046,978	\$30,018,712	6.8	85.6	7.6				
	1914	2,131	1,156	897	64,586	8,308	50,743	5,475	13.0	78.0	8.5	230,248,909	18,242,158	198,442,537	15,564,214	7.9	85.3	6.8				
	1909	2,521	1,147	1,108	65,400	10,244	48,590	6,566	15.7	74.3	10.0	223,754,497	25,835,192	178,650,245	19,269,060	11.5	79.8	8.6				
Bread and other bakery products.	1919	186	25	31	1,039	442	510	78	42.9	49.5	7.6	7,856,283	3,373,007	3,910,429	572,847	42.9	49.8	7.3				
	1914	202	10	24	993	601	336	56	60.5	33.8	5.6	3,347,067	1,862,406	1,302,505	182,156	55.6	38.9	5.4				
Brick and tile, terra-cotta, and fire-clay products.	1919	8	30	9	2,349	46	2,195	108	2.0	93.4	4.6	5,686,473	106,343	5,363,918	216,212	1.9	94.3	3.8				
	1914	13	42	14	2,234	97	2,051	86	4.3	91.8	3.8	2,202,668	78,450	2,032,964	91,254	3.6	92.3	4.1				
Carriages and wagons, including repairs.	1919	27	11	14	1,456	63	1,358	35	4.3	93.2	2.4	8,751,095	246,479	8,404,481	100,135	2.8	96.0	1.1				
	1914	65	19	23	1,317	216	1,006	95	16.4	76.4	7.2	3,557,968	385,446	2,955,661	210,861	10.8	83.1	6.1				
Cars and general shop construction and repairs by steam-railroad companies.	1919		30		12,372		12,372			100.0		30,597,962		30,597,962			100.0					
	1914	1	22		8,485		8,485			100.0		13,344,242		13,344,242			100.0					
Clothing, men's.....	1919	19	22	9	2,590	224	1,976	390	8.6	76.3	15.1	10,071,884	258,691	8,105,776	1,707,417	2.6	80.5	16.9				
	1914	34	17	9	2,572	493	1,868	211	19.2	72.6	8.2	4,641,491	222,098	4,065,242	354,151	4.8	87.6	7.0				
Confectionery and ice cream.	1919	49	19	19	797	88	400	309	11.0	50.2	38.8	5,255,290	546,470	3,106,704	1,602,116	10.4	59.1	30.5				
	1914	41	12	13	780	93	425	262	11.9	54.5	33.6	2,457,603	340,300	1,471,193	646,110	13.8	59.9	26.3				
Flour-mill and gristmill products.	1919	264	60	200	1,584	251	915	418	15.8	57.8	26.4	45,773,798	4,572,952	30,308,782	10,892,064	10.0	66.2	23.8				
	1914	177	87	178	1,447	262	770	415	18.1	53.2	28.7	21,229,203	2,575,957	13,332,434	5,320,812	12.1	62.8	25.1				
Foundry and machine-shop products. <sup>1</sup>	1919	28	50	21	2,903	171	2,631	101	5.9	90.6	3.5	12,988,559	707,381	11,953,659	327,519	5.4	92.0	2.5				
	1914	24	49	13	1,603	95	1,400	108	5.9	87.3	6.7	4,046,647	170,541	3,600,102	270,004	4.2	89.1	6.7				
Furniture.....	1919	2	23	4	1,381		1,272	109		92.1	7.9	5,411,673		4,892,450	1,519,223		90.4	9.6				
	1914	6	19	4	1,158	93	862	203	8.0	74.4	17.5	2,184,464	122,075	1,999,589	62,800	5.6	91.5	2.9				
Iron and steel, steel works and rolling mills.	1919		5		1,892		1,892			100.0		18,318,690		18,318,690			100.0					
	1914		6		1,987		1,987			100.0		9,077,908		9,077,908			100.0					
Lumber and timber products.	1919	581	94	256	7,716	1,740	4,671	1,299	22.6	60.5	16.8	23,283,036	5,146,478	14,810,008	3,327,150	22.1	63.6	14.3				
	1914	791	77	309	10,684	3,419	5,434	1,831	32.0	50.9	17.1	13,850,755	3,278,011	8,583,543	1,989,201	23.7	62.0	14.4				
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	32	53	21	1,764	132	1,523	109	7.5	86.3	6.2	8,855,944	582,613	7,684,500	588,831	6.6	86.8	6.6				
	1914	34	49	28	1,655	215	1,186	254	13.0	71.7	15.3	4,636,935	447,634	3,615,286	574,015	9.7	78.0	12.4				
Pickles, preserves, and sauces.	1919	6	12		1,046	1	1,045		0.1	99.9		8,223,431	15,190	8,208,241		0.2	99.8					
	1914	2	7		350		350			100.0		2,027,152		2,027,152			100.0					
Printing and publishing, book and job.	1919	55	39	14	1,195	87	1,040	68	7.3	87.0	5.7	4,421,926	336,908	3,910,460	174,558	7.6	88.4	3.9				
	1914	63	50	11	1,312	117	1,140	55	8.9	86.9	4.2	2,687,309	226,592	2,342,377	118,340	8.4	87.2	4.4				
Printing and publishing, newspapers and periodicals.	1919	127	68	57	1,272	306	857	109	24.1	67.4	8.6	6,183,394	835,769	4,918,065	429,560	13.5	79.5	6.9				
	1914	150	78	48	1,303	365	847	91	28.0	65.0	7.0	3,534,218	572,877	2,762,334	199,007	16.2	78.2	5.6				
Saddlery and harness.....	1919	36	8	8	479	68	318	93	14.2	66.4	19.4	4,443,962	542,330	2,728,987	1,172,645	12.2	61.4	26.4				
	1914	22	10	8	500	47	348	105	9.4	69.6	21.0	2,074,016	140,169	1,215,622	718,225	6.8	58.6	34.6				
Slaughtering and meat packing.	1919	11	8	7	450	32	381	37	7.1	84.7	8.2	12,953,986	1,160,746	10,886,849	906,391	9.0	84.0	7.0				
	1914	16	5	7	223	39	149	35	17.5	66.8	15.7	4,106,409	1,070,026	2,542,988	496,395	26.0	61.9	12.1				
Tobacco, chewing and smoking, and snuff.	1919	8	14	2	2,406	124	2,282		5.2	94.8		20,547,825	743,614	10,804,211		3.6	96.4					
	1914	13	17	8	2,312	125	2,083	104	5.4	90.1	4.5	14,785,239	350,456	14,168,387	266,306	2.4	95.8	1.8				
Tobacco, cigars and cigarettes.	1919	49	13	14	1,271	55	1,021	195	4.3	80.3	15.3	3,581,321	196,904	2,859,169	525,248	5.5	79.8	14.7				
	1914	87	13	15	1,014	237	682	95	23.4	67.3	9.4	1,361,387	394,208	821,748	145,431	29.0	60.4	10.7				
Total for cities.....	1919	496	671	200	45,316	2,097	41,076	2,143	4.6	90.6	4.7	287,506,563	11,556,217	264,381,029	11,569,317	4.0	92.0	4.0				
	1914	532	612	186	36,689	2,761	31,647	2,281	7.5	88.2	6.2	136,845,235	7,073,634	122,914,537	5,957,064	5.8	89.8	4.4				
ASHLAND.....	1919	14	25	4	1,912	63	1,820	29	3.3	95.2	1.5	15,963,475	210,772	15,708,228	44,475	1.3	98.4	0.3				
COVINGTON.....	1919	61	50	22	4,038	311	3,354	373	7.7	83.1	9.2	17,120,603	1,724,840	13,430,683	1,905,080	10.1	78.4	11.5				
	1914	89	48	24	3,199	386	2,617	196	12.1	81.8	6.1	8,265,496	1,296,799	6,489,391	479,306	15.7	78.5	5.8				
HENDERSON.....	1919	14	13	4	967	28	909	30	2.9	94.0	3.1	4,765,359	291,804	4,342,577	130,978	6.1	91.1	2.7				
	1914	11	21	10	1,147	39	1,067	41	3.4	93.0	3.6	2,973,457	188,468	2,681,462	103,527	6.3	90.2	3.5				
LEXINGTON.....	1919	67	64	39	1,171	237	831	103	20.2	71.0	8.8	8,570,495	1,443,229	6,276,145	851,121	16.8	73.2	9.9				
	1914	44	44	24	1,180	150	820	160	13.3	72.6	14.2	3,530,677	440,816	2,597,217	492,044	12.5	73.6	14.0				
LOUISVILLE.....	1919	263	418	80	29,902	1,075	27,621	1,206	3.6	92.4	4.0	204,565,727	5,928,770	193,024,063	5,612,894	2.9	94.4	2.7				
	1914	288	401	89	25,930	1,479	22,845	1,606	5.7	88.1	6.2	105,222,671	4,865,589	96,659,816	3,697,266	4.6	91.9	3.5				
NEWPORT.....	1919	47	22	12	2,350	238	1,977	135	10.1	84.1	5.7	16,935,349	821,306	15,629,280	484,763	4.8	92.3	2.9				
	1914	67	21	12	1,880	547	1,268	65	29.1	67.4	3.5	8,305,609	705,848	7,497,204	102,557	8.5	90.3	1.2				
OWENSBORO.....	1919	9	42	13	1,380	60	1,226	94	4.3	88.8	6.8	8,634,737	430,801	6,797,507	1,406,429	5.0	78.7	16.3				
	1914	9	36	17	1,001	44	851	106	4.4	85.0	10.6	4,056,142	80,192	3,328,006	647,944	2.0	82.0	16.0				
PADUCAH.....	1919	21	37	20	3,596	85	3,338	173	2.4	92.8	4.8	10,950,818	704,695	9,172,546	1,073,577	6.4	83.8	9.8				
	1914	24	41	10	2,402	116	2,179	107	4.8	90.7	4.											

Includes the group "Individuals," <sup>1</sup> Includes "iron and steel, welding"; "machine tools"; and "textile machinery and parts," <sup>2</sup> Includes the group "All others."

# MANUFACTURES—KENTUCKY.

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

	Cen- sus year.	Aggregate	CITIES HAVING A POPULATION OF 10,000 OR OVER.								THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.
Number of places.....	1919		8		4		3		1			
	1914		7		3		3		1			
	1909		8		4		3		1			
Population <sup>1</sup> .....	1920	2,416,630	431,920	17.9	69,057	2.9	127,972	5.3	234,801	9.7	1,984,710	82.1
	1915	2,350,731	414,681	17.6	53,335	2.3	120,232	5.4	235,114	10.0	1,930,050	82.4
	1910	2,280,905	403,294	17.6	60,688	2.7	118,678	5.2	228,028	9.8	1,880,611	82.4
Number of establishments.....	1919	3,957	1,367	34.5	216	5.5	384	9.7	767	19.4	2,590	65.5
	1914	4,184	1,330	31.8	179	4.3	373	8.9	778	18.6	2,854	68.2
	1909	4,776	1,563	32.7	235	4.9	425	8.9	903	18.9	3,213	67.3
Average number of wage earners.....	1919	69,340	45,316	65.4	7,855	11.3	7,550	10.9	29,902	43.1	24,024	34.6
	1914	64,586	36,689	56.8	4,550	7.0	6,209	9.6	25,930	40.1	27,897	43.2
	1909	65,400	39,797	60.8	5,450	8.3	7,315	11.2	27,023	41.3	25,603	39.1
Value of products.....	1919	\$305,660,417	\$287,506,563	72.7	\$40,314,380	10.2	\$42,626,447	10.8	\$204,565,727	51.7	\$108,153,854	27.3
	1914	330,248,000	130,845,235	59.4	11,620,782	5.0	20,101,782	8.7	105,222,671	45.7	93,403,074	40.6
	1909	223,754,497	130,498,870	61.0	17,161,274	7.7	18,053,650	8.1	101,283,955	45.3	87,255,618	39.0
Value added by manufacture.....	1919	159,944,791	114,832,011	71.8	15,833,396	9.9	20,532,305	12.8	78,466,310	49.1	45,112,780	28.2
	1914	115,419,086	64,474,070	55.9	5,180,373	4.5	9,670,738	8.4	40,623,850	43.0	50,044,716	44.1
	1909	111,975,180	64,161,339	57.3	8,037,165	7.2	8,967,798	8.0	47,156,376	42.1	47,813,841	42.7

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

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

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.			Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
COVINGTON.					LOUISVILLE—Continued.				
Foundry and machine-shop products.....	\$1,650,359	14.2	\$1,300,062	371.1	Printing and publishing, book and job....	\$3,829,147	86.6	\$1,532,285	66.7
Bread and other bakery products.....	401,103	5.1	259,294	182.8	Printing and publishing, newspapers and periodicals.....	3,500,056	58.1	1,641,461	84.2
Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	312,526	3.5	78,212	33.4	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	3,407,956	38.5	2,333,234	217.1
Automobiles.....					Carrriages and wagons, including repairs...	3,224,837	36.9	2,329,297	260.1
Brick and tile, terra-cotta, and fire-clay products.....					Saddlery and harness.....	3,127,547	70.4	1,721,768	122.5
Cars and general shop construction and re- pairs by steam-railroad companies.....					Furniture.....	3,034,140	56.1	1,707,325	128.7
Clothing, men's.....					Liquors, malt.....	2,407,440	44.4	8,335	0.3
Copper, tin, and sheet-iron work.....					Coffee, roasting and grinding.....	2,173,960	80.7	819,851	60.5
Cordage and twine.....					Tobacco, cigars and cigarettes.....	1,983,749	55.4	933,611	88.9
Electrical machinery, apparatus, and sup- plies.....	(2)	(2)	(2)	(2)	Butter.....	1,864,769	51.0	(2)	(2)
Hardware.....					Patent medicines and compounds.....	1,778,432	80.5	174,567	10.9
Liquors, malt.....					Cooperage.....	1,472,879	53.0	-371,136	-20.1
Machine tools.....					Stoves and ranges.....	1,407,938	100.0	(2)	(2)
Pickles, preserves, and sauces.....					Boxes, wooden packing, except cigar boxes.....	1,358,908	80.1	(2)	(2)
Slaughtering and meat packing.....					Agricultural implements.....				
Structural ironwork, not made in steel works or rolling mills.....					Automobiles.....				
Tobacco, chewing.....					Boxes, paper, and other, not elsewhere specified.....				
LOUISVILLE.					Cotton goods.....				
Tobacco, chewing and smoking, and snuff.	17,610,802	85.8	(2)	-----	Flour-mill and gristmill products.....				
Cars and general shop construction and repairs by steam-railroad companies.....	13,768,341	45.0	5,976,345	76.7	Leather, tanned, curried, and finished....				
Slaughtering and meat packing.....	9,958,808	76.9	6,878,624	223.3	Musical instruments, pianos.....				
Pickles, preserves, and sauces.....	6,634,319	80.7	(2)	-----	Oil and cake, cottonseed.....	(2)	(2)	(2)	(2)
Foundry and machine-shop products.....	6,416,209	53.6	3,040,220	131.2	Oil, not elsewhere specified.....				
Clothing, men's.....	4,862,951	48.3	1,870,077	62.5	Paints.....				
Bread and other bakery products.....	4,349,990	55.4	2,319,535	114.2	Petroleum, refining.....				
Confectionery and ice cream.....	4,214,930	80.2	2,113,573	100.6	Plumbers' supplies, not elsewhere specified.				
Lumber and timber products.....	3,864,628	16.6	2,054,897	113.6	Tin foil.....				
					Varnishes.....				
					Wood, turned and carved.....				
					Woolen and worsted goods.....				

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

<sup>2</sup> Figures can not be shown without disclosing individual operations.

<sup>3</sup> Includes "iron and steel, welding" and "textile machinery and parts."

## MANUFACTURES—KENTUCKY.

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

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	9,162	6,912	5,790	247,573	238,314	230,224	100.0	100.0	100.0
Owned.....	2,975	3,815	4,341	189,501	217,420	218,607	76.6	91.2	95.0
Steam.....	2,119	3,155	3,647	175,210	206,871	207,591	70.8	86.8	90.2
Engines.....	2,061	(2)	(2)	159,547	(2)	(2)	64.4		
Turbines.....	58	(2)	(2)	15,663	(2)	(2)	6.3		
Internal-combustion engines.....	733	531	515	10,623	6,581	5,630	4.3	2.8	2.4
Water.....	123	129	179	3,758	3,968	5,377	1.5	1.7	2.3
Water wheels and turbines.....	113	119	160	3,609	3,941	5,320	1.5	1.7	2.3
Water motors.....	10	10	19	149	27	57	0.1	(3)	(3)
Rented.....	6,187	3,097	1,449	57,982	20,894	11,617	23.4	8.8	5.0
Electric.....	6,187	3,097	1,449	56,808	20,382	11,314	22.9	8.6	4.9
Other.....				1,174	512	303	0.5	0.2	0.1
Electric.....	8,616	5,101	2,705	94,380	49,168	31,268	100.0	100.0	100.0
Rented.....	6,187	3,097	1,449	56,808	20,382	11,314	60.2	41.5	36.2
Generated by establishments reporting.....	2,429	2,004	1,346	37,572	28,786	19,954	39.8	58.5	63.8

<sup>1</sup> Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.<sup>2</sup> Figures not available.<sup>3</sup> Less than one-tenth of 1 per cent.

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

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	1,596	2,200,661	252,519	82,284	12,916	3,602,772
Percent of increase <sup>2</sup> .....	2,670 -40.2	2,073,415 6.1	190,235 32.7	60,455 57.5	(1) (1)	2,008,215 38.1
Bread and other bakery products.....	41	4,273	2,741	16	245	73,014
Brick and tile, terra-cotta, and fire-clay products.....		234,710	416	300	070	308,261
Carriages and wagons, including repairs.....		17,423	8	1,197	367	1,070
Cars and general shop construction and repairs by steam-railroad companies.....	87	141,939	3,487	23,022		60,091
Cement.....		59,622			27	
Coke, not including gas-house coke.....		876,773				
Confectionery and ice cream.....		8,197	28	16	85	15,269
Cotton goods.....		14,041			1	
Flour-mill and gristmill products.....	617	73,958		7,096	6,738	18,110
Foundry and machine-shop products.....		20,692	7,047	6,614	39	13,610
Furniture.....		10,928		95	15	300
Gas, illuminating and heating.....		15,543	1,110	5,634		
Ice, manufactured.....		119,709		195	119	241,694
Iron and steel, blast furnaces.....		35,512	215,752			79,918
Iron and steel, steel works and rolling mills.....		148,837	7,790			1,860,827
Leather, tanned, curried, and finished.....		30,812				14,578
Liquors, malt.....	98	39,224	90	43	701	1,638
Lumber and timber products.....		34,079		49	231	
Lumber, planing-mill products, not including planing mills connected with sawmills.....	52	9,660		367	281	3,933
Marble and stone work.....	7	6,491	10	16	415	1,574
Oil, not elsewhere specified.....		17,677				
Patent medicines and compounds.....		12,210				820
Paving materials.....		12,100		6	11	855
Petroleum, refining.....		67,498		24,878		
Pickles, preserves, and sauces.....		15,015	69		166	160
Plumbers' supplies, not elsewhere specified.....		28,608	7,019	9,027	800	2,341
Slaughtering and meat packing.....		15,627				176
Tobacco, chewing and smoking, and snuff.....		24,579			2	
Woolen and worsted goods.....		8,070		20	2	
All other industries.....	694	96,853	6,952	3,693	2,001	904,533
Total for cities.....	111	776,945	177,203	65,396	2,808	2,715,188
ASHLAND.....	12	44,810	149,714		185	2,332,880
COVINGTON.....		45,754	2,225	60	135	185,863
HENDERSON.....		26,806	382	1	63	209
LEXINGTON.....	1	12,547	12		40	45,879
LOUISVILLE.....		441,220	20,958	56,863	1,587	83,769
NEWPORT.....	98	137,807	1,933	6	703	63,080
OWENSBORO.....		28,633	697	1,199	5	2,470
PADUCAH.....		39,368	1,282	7,277	90	1,038

<sup>1</sup> Included in figures for fuel oils.<sup>2</sup> A minus sign (—) denotes decrease.

## SPECIAL STATISTICS.

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

**Flour-mill and gristmill products (Table 19).**—This table shows the kind, quantity, and value of the various products of these mills during 1919, 1914, and 1909.

Large increases are shown in the value of the several products, which do not harmonize, however, with the corresponding increases in quantities.

The total value of products for the industry from 1914 to 1919 increased \$24,544,595, or 115.6 per cent. Wheat flour was the principal product, forming 66.2 per cent of the total value of products in 1919, and 65.4 per cent in 1914. Although there was an increase of \$16,437,060, or 118.4 per cent, in value during the five-year period, the quantity decreased 38,673 barrels, or 1.4 per cent. Similar conditions are found for bran and middlings and feed and offal, increases of 82.9 per cent and 111.1 per cent in value while in quantity there was a decrease of 16.5 per cent and an increase of four-tenths of 1 per cent, respectively.

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

	1919	1914	1909
Total value.....	\$15,773,708	\$21,229,203	\$22,364,950
Wheat flour:			
Barrels.....	2,689,791	2,728,464	2,832,288
Value.....	\$30,317,827	\$13,880,767	\$15,921,025
Rye flour:			
Barrels.....	809	373	900
Value.....	\$6,738	\$1,985	\$4,232
Corn meal and corn flour:			
Barrels.....	826,775	774,322	984,217
Value.....	\$6,457,901	\$2,645,405	\$3,071,856
Hominy and grits:			
Pounds.....	18,397,250	14,535,650	7,103,217
Value.....	\$500,635	\$238,043	\$127,193
Bran and middlings:			
Tons.....	96,433	115,442	
Value.....	\$1,837,504	\$2,614,343	144,004
Feed and offal:			
Tons.....	58,300	59,152	\$3,220,835
Value.....	\$3,454,981	\$1,636,749	
All other cereal products, value.....	\$86,496	\$8,927	\$842
All other products, value.....	\$111,710	\$172,984	\$18,907

**Lumber and timber products (Table 20).**—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. For many years Kentucky has been one of the chief producers of hardwood lumber, and in 1919 ranked sixth among the states in the production from these woods.

The total cut in 1919 decreased 14.1 per cent compared with that of 1914, and 40.5 per cent compared with that for 1909. The largest cut from all species for the state was 912,908,000 feet in 1907.

The lumber cut from the principal species in 1919 was reported as follows: Oak, 282,963,000 feet, or 55.3 per cent of the total cut from all species in the state; yellow poplar, 50,462,000 feet, or 9.9 per cent; beech,

37,459,000 feet, or 7.3 per cent; gum, 31,692,000 feet; or 6.2 per cent; and chestnut, 24,850,000 feet, or 4.9 per cent. Among other woods sawed into lumber in considerable quantities were hickory, yellow pine, hemlock, mahogany, and maple.

TABLE 20.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY. <sup>1</sup>		
	1919	1914	1909
Lumber.....M feet b. m.	512,078	596,392	860,712
Lath.....thousands..	3,288	( <sup>2</sup> )	19,776
Shingles.....thousands..	2,562	( <sup>2</sup> )	55,610

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

<sup>2</sup> Not reported.

**Blast furnaces.**—This industry in 1919 was represented by four establishments with a product of 163,708 tons of pig iron valued at \$4,384,076. Of this essentially 58 per cent was of basic and Bessemer grades for steel making, and 42 per cent was foundry iron.

**Steel works and rolling mills (Table 21).**—The output of the steel works and rolling mills for the census years 1919, 1914, and 1909 is summarized in Table 21. The large increase in value of products for 1919 as compared with 1914, 101.8 per cent, though in part due to an increase in production tonnage of 36 per cent, is chiefly due to higher values, the average ton value of all rolled, forged, and other classified iron and steel products being \$65 in 1919 as compared with \$31 in 1914 and \$33 in 1909. The leading rolled products were blooms, billets, and slabs, for further rolling and forging (semi-finished steel constituting over 60 per cent of the tonnage) and sheets and rods.

TABLE 21.—STEEL WORKS AND ROLLING MILLS: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$18,318,690	\$9,077,908	\$7,779,320
Rolled, forged, and other classified iron and steel products:			
Tons (2,240 pounds).....	281,170	191,499	216,311
Value.....	\$16,866,019	\$5,872,751	\$7,119,158
All other products, including value added to iron and steel rolling-mill products, by further manufacture.....	\$1,452,671	\$3,205,157	\$660,162

**Slaughtering and meat packing (Table 22).**—This table presents data for the slaughtering and meat-packing industry for 1919, 1914, and 1909, for the most important materials and products.

The actual production growth of the industry, which is shown by the increase in the number of animals slaughtered, was 126,344, or 74.9 per cent, from 1914 to 1919, each class of animals slaughtered showing an increase.



The increase in the total cost of materials was \$6,988,042, or 190.4 per cent, and in value of products \$8,844,577, or 215.2 per cent.

The cost of "All other materials" includes that for poultry, goats and kids, dressed meat purchased for curing, curing materials, seasoning, fuel, rent of power, containers, materials for making ice, mill supplies, refrigeration, and freight.

The value of "All other products" includes that for meat puddings, headcheese, etc.; hoofs, horns, horntips, strips, and waste, fertilizer materials, goat and kid skins, cattle hair, and ice. The value of dressed poultry and goat and kid meat is included with that for "Edible offal and other fresh meat."

TABLE 22.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$10,658,904	\$3,670,802	\$5,745,858
Animals slaughtered, cost.....	\$9,672,501	\$3,387,481	\$5,284,373
Beoves:			
Number.....	45,941	24,398	39,453
Cost.....	\$2,736,023	\$1,322,910	\$1,506,219
Calves:			
Number.....	40,940	14,058	18,932
Cost.....	\$673,748	\$144,381	\$161,672
Sheep and lambs:			
Number.....	32,106	12,822	12,956
Cost.....	\$218,925	\$56,557	\$49,276
Hogs:			
Number.....	176,199	117,564	236,428
Cost.....	\$6,043,805	\$1,863,633	\$3,594,206
All other materials, cost.....	\$986,403	\$283,381	\$461,485
<b>PRODUCTS.</b>			
Total value.....	\$12,953,986	\$4,109,400	\$6,568,077
Fresh meat, value.....	\$10,622,904	\$2,727,099	\$2,520,892
Beef:			
Pounds.....	17,498,698	10,731,376	17,090,098
Value.....	\$2,609,537	\$1,229,488	\$1,453,210
Veal:			
Pounds.....	2,712,872	998,917	1,339,303
Value.....	\$610,347	\$133,478	\$149,944
Mutton and lamb:			
Pounds.....	824,705	426,316	404,445
Value.....	\$177,485	\$56,647	\$40,876
Pork:			
Pounds.....	21,446,801	10,467,403	5,771,593
Value.....	\$6,968,552	\$1,275,749	\$642,951
Edible offal and other fresh meat:			
Pounds.....	2,520,934	446,025	2,795,550
Value.....	\$256,963	\$31,737	\$233,911
Pork, pickled and other cured:			
Pounds.....	1,333,229	4,067,651	17,276,390
Value.....	\$124,461	\$566,033	\$2,264,481
Sausage:			
Pounds.....	2,392,750	1,497,101	3,194,630
Value.....	\$521,532	\$178,159	\$331,094
Lard:			
Pounds.....	828,518	2,274,595	7,870,530
Value.....	\$236,703	\$232,986	\$988,763
Tallow:			
Pounds.....	225,958	397,507	1,398,330
Value.....	\$31,479	\$19,240	\$75,200
Grease and soap stock:			
Pounds.....	204,692	452,580	(1)
Value.....	\$18,479	\$24,729	(1)
Hides and pelts:			
Cattle.....			
Number.....	45,941	24,398	
Pounds.....	2,269,906	1,385,229	
Value.....	\$619,335	\$196,575	
Calf.....			
Number.....	29,646	13,658	
Pounds.....	303,510	155,490	
Value.....	\$139,952	\$25,569	
Sheep.....			
Number.....	6,307	12,822	
Value.....	\$13,571	\$7,526	
All other products, value.....	\$325,567	\$131,493	\$97,172

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

Printing and publishing (Table 23).—The number and aggregate circulation per issue of all newspapers and periodicals reported in Kentucky for the census years 1919, 1914, and 1909 are presented in Table 23.

The decrease in total number of publications and in aggregate circulation is due principally to the discontinuance of a large number of weekly news and religious papers, the reduction in circulation of one English and German monthly religious publication and of other religious and reform papers, and to the disappearance of a number of agricultural monthly and semimonthly publications.

The increase in the circulation of daily newspapers was slight for the five-year period from 1914 to 1919, but amounted to 89,671, or 39.6 per cent, for the decade. Of the 32 dailies, 20 were published in the afternoon. Their circulation, 170,191, was 53.9 per cent of the total daily circulation. The morning circulation increased 16,809, or 13 per cent, from 1914 to 1919.

The Sunday newspaper circulation increased 81,150, or 92 per cent, during the five-year period from 1914 to 1919.

Of all the publications, only four, with a circulation of 32,672, were either wholly or partly printed in a foreign language—German. There were one daily, one Sunday, and one weekly in German, and one monthly in English and German.

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

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	273	326	339	1,236,937	1,250,043	1,194,245
Daily.....	32	33	35	315,851	311,019	226,180
Sunday.....	11	9	12	109,396	88,246	115,855
Semiweekly <sup>1</sup> .....	17	25	27	37,810	58,584	61,248
Weekly.....	185	221	226	346,491	348,342	481,957
Monthly.....	20	28	28	94,605	159,229	136,995
All other classes <sup>2</sup> .....	8	10	11	272,694	284,623	172,010

<sup>1</sup> Includes in 1919, 1 triweekly; in 1914, 4; and in 1909, 2 triweeklies.

<sup>2</sup> Includes in 1919, 3 quarterlies, 4 semimonthlies, and 1 bimonthly; in 1914, 2 quarterlies and 8 semimonthlies; and in 1909, 8 semimonthlies, 2 quarterlies, and 1 "all other."

Leather, tanned, curried, and finished (Table 24).—This table shows the quantity and value of products of this industry in 1919, 1914, and 1909.

TABLE 24.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$3,747,872	\$4,198,575	\$4,240,795
Oak sole leather:			
Sides.....	441,534	300,846	404,382
Value.....	\$6,494,114	\$2,698,439	\$2,712,069
All other leather, value.....	913,024	933,523	1,209,423
All other products, value.....	128,376	58,720	70,569
Work on materials for others, value.....	1,212,358	507,893	248,734

The total value of products decreased 1 per cent during the period 1909 to 1914, but increased 108.4 per cent during the following five years. This large gain



was due partly to a larger production, but mainly to the increased cost of hides, tanning materials, and labor in 1919. Oak sole leather was the principal product, and other leather produced in lesser quantities was oak harness, chrome sole, chrome belting, and offal. Contract work on materials for others increased by \$963,624, or 387.4 per cent, during the ten-year period 1909-1919.

**Laundries (Table 25).**—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 25, however, summarizes the statistics for such laundries in the state of Kentucky for 1919 and 1914.

TABLE 25.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919.
	1919	1914	
Number of establishments.....	63	75	24.2
Persons engaged.....	2,501	2,080	20.2
Proprietors and firm members.....	53	54	1.9
Salaried employees.....	244	150	63.5
Wage earners (average number).....	2,204	1,873	22.5
Primary horsepower.....	6,762	2,055	154.7
Capital.....	\$1,088,280	\$1,110,867	51.2
Salaries and wages.....	1,410,503	844,170	68.2
Salaries.....	230,126	145,037	62.1
Wages.....	1,180,377	699,133	69.4
Paid for contract work.....	691	326	112.0
Rent and taxes.....	51,372	62,593	-17.9
Cost of materials.....	789,000	300,532	162.5
Amount received for work done.....	2,905,346	1,665,979	74.4

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

**Dyeing and cleaning (Table 26).**—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table.

TABLE 26.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	41
Persons engaged.....	360
Proprietors and firm members.....	40
Salaried employees.....	61
Wage earners (average number).....	259
Primary horsepower.....	347
Capital.....	\$343,830
Salaries and wages.....	209,870
Salaries.....	77,180
Wages.....	192,690
Paid for contract work.....	829
Rent and taxes.....	54,092
Cost of materials.....	152,731
Amount received for work done.....	720,341

Statistics for dyeing and cleaning establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from hand trades, household industries, etc.

**Custom gristmills and custom sawmills (Tables 27 and 28).**—Statistics for custom gristmills and custom sawmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914. Tables 27 and 28 summarize the statistics for such mills for 1919 and 1909. The value of products for custom gristmills represents the selling value of the grain milled, and for the sawmills the amount charged for the work performed.

TABLE 27.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	783	822	-4.7
Persons engaged.....	981	1,409	-30.4
Proprietors and firm members.....	938	1,038	-9.6
Salaried employees.....	2	2	.....
Wage earners (average number).....	41	369	-88.9
Primary horsepower.....	8,025	11,953	-25.2
Capital.....	\$710,110	\$544,171	31.6
Salaries and wages.....	28,207	38,702	-27.1
Salaries.....	1,200	510	135.3
Wages.....	27,007	38,192	-29.3
Rent and taxes.....	7,276	5,765	26.4
Cost of materials.....	2,177,063	1,663,340	30.9
Value of products <sup>2</sup> .....	2,065,859	2,059,077	29.4

<sup>1</sup> A minus sign (—) denotes decrease. <sup>2</sup> Includes estimate of all grain ground.

TABLE 28.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	362	294	23.1
Persons engaged.....	765	1,009	-24.2
Proprietors and firm members.....	479	381	25.7
Salaried employees.....	3	2	.....
Wage earners (average number).....	283	626	-54.8
Primary horsepower.....	7,011	5,050	24.1
Capital.....	\$351,640	\$294,594	19.4
Salaries and wages.....	169,649	115,416	47.0
Salaries.....	540	653	-17.3
Wages.....	169,109	114,763	47.4
Rent and taxes.....	2,070	3,214	-7.6
Cost of materials.....	126,977	6,092	1,984.3
Amount received for work done.....	531,117	326,563	62.6

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

## GENERAL TABLES.

Table 29 gives, for 1919, 1914, and 1909, for selected industries in the state and in Covington and Louisville, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products; and for cities of 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries

combined. Table 30 presents, for 1919, for the state as a whole and for Covington and Louisville, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments; and for all cities of 10,000 to 50,000 inhabitants, similar data for all industries combined.

## MANUFACTURES—KENTUCKY.

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

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earners (aver- age num- ber).	Primary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earners (aver- age num- ber).	Primary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.
					Expressed in thousands.	Expressed in thousands.	Expressed in thousands.								
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	3,957	69,340	247,573	\$67,034	\$235,716	\$395,660	Flour-mill and gristmill prod- ucts.	1919	533	1,584	26,852	\$1,423	\$39,581	\$45,774
	1914	4,184	64,586	238,314	31,830	114,828	230,249		1914	442	1,447	25,151	658	17,419	21,229
	1909	4,776	65,400	230,224	27,888	111,779	223,754		1909	440	1,401	24,773	591	18,664	22,365
Artificial stone products.....	1919	18	33	85	30	43	104	Food preparations, not else- where specified.	1919	7	92	498	31	1,073	1,298
	1914	34	71	204	24	39	95		1914	6	84	1,145	43	1,153	1,542
	1909	31	72	70	30	52	117		1909	9	130	1,043	55	1,241	1,445
Awnings, tents, and sails.....	1919	6	72	28	48	178	331	Foundry and machine-shop products. <sup>3</sup>	1919	310	5,714	14,595	6,520	9,814	24,656
	1914	5	26	131	12	39	80		1914	114	3,701	6,803	2,209	3,542	8,697
	1909	31	72	70	30	52	117		1909	129	4,479	8,089	2,402	4,735	9,627
Boots and shoes.....	1919	7	630	463	357	2,099	3,574	Furniture.....	1919	29	1,381	3,224	1,050	2,263	5,412
	1914	9	440	428	180	1,672	2,504		1914	29	1,158	2,195	579	985	2,184
	1909	7	630	463	357	2,099	3,574		1909	32	1,095	2,936	444	770	1,671
Boxes, paper and other, not elsewhere specified.	1919	6	764	1,743	512	2,092	3,247	Gas, illuminating and heating.	1919	10	90	312	74	160	340
	1914	4	93	220	22	54	119		1914	13	232	1,178	131	190	589
	1909	9	104	183	115	232	460		1909	15	386	991	206	315	1,004
Brass, bronze, and copper products.	1919	9	104	183	115	232	460	Grease and tallow, not includ- ing lubricating greases.	1919	4	17	98	19	78	283
	1914	9	59	168	39	73	137		1914	4	29	173	18	225	265
	1909	7	25	99	12	32	61	Ice, manufactured.....	1919	99	754	12,548	662	914	2,689
Bread and other bakery products.	1919	242	1,030	1,292	908	5,426	7,856		1914	93	766	12,568	350	440	1,472
	1914	236	993	976	553	1,942	3,347		1909	78	472	9,040	243	307	1,135
	1909	286	985	745	485	1,946	3,338	Iron and steel, steel works and rolling mills.	1919	5	1,892	41,539	2,682	12,714	18,319
Brick and tile, pottery, and other clay products.	1919	52	2,454	8,107	2,083	2,071	5,894		1914	6	1,987	34,405	1,279	7,155	9,078
	1914	73	2,309	7,650	901	748	2,306		1909	7	2,372	29,640	1,273	5,561	7,779
	1909	101	2,444	8,017	938	616	2,485	Leather, tanned, curried, and finished.	1919	10	661	2,478	670	5,791	8,748
Brooms.....	1919	36	170	186	149	711	1,277		1914	11	600	2,276	329	3,242	4,199
	1914	20	179	140	52	311	503		1909	18	630	2,669	308	3,224	4,241
	1909	32	86	96	31	318	529	Liquors, malt.....	1919	8	563	4,119	601	1,193	5,417
Butter.....	1919	16	140	1,082	120	3,273	3,655		1914	15	980	6,762	744	1,629	5,828
	1914	10	122	115	77	116	287		1909	19	1,012	6,057	532	1,271	4,940
	1909	13	56	164	30	195	275	Lumber and timber products <sup>4</sup>	1919	1,050	10,159	44,820	8,284	10,201	34,456
Canning and preserving <sup>1</sup> ....	1919	28	1,147	1,075	656	5,722	8,496		1914	1,299	13,337	54,846	4,787	10,269	20,667
	1914	33	594	843	190	1,367	2,268		1909	1,592	13,042	50,653	4,382	10,456	21,381
	1909	36	653	907	177	1,093	1,857	Marble and stone work.....	1919	63	346	2,171	374	721	1,585
Carriages and wagons and ma- terials.	1919	71	1,977	5,599	1,892	5,869	10,510		1914	79	450	1,975	283	447	1,058
	1914	130	1,897	5,748	990	2,554	4,647		1909	75	510	1,685	261	350	1,000
	1909	161	2,777	6,617	1,164	2,713	5,141	Mattresses and spring beds, not elsewhere specified.	1919	9	88	116	66	184	393
Cars and general shop con- struction and repairs by electric-railroad companies.	1919	7	196	251	215	213	464		1914	11	72	168	41	78	165
	1914	8	218	471	181	181	329		1909	8	56	92	23	66	129
	1909	7	217	205	116	142	276	Millinery and lace goods, not elsewhere specified.	1919	7	107	6	55	160	653
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	30	12,372	8,799	17,125	11,957	30,598		1914	3	35	15	9	6	48
	1914	23	8,485	8,176	5,651	7,259	13,344	Mineral and carbonated waters	1919	93	297	609	231	1,052	2,095
	1909	24	5,605	4,994	3,240	2,900	6,535		1914	91	269	424	119	438	930
Clothing, men's.....	1919	50	2,590	616	1,494	5,733	10,072		1909	76	226	242	92	219	637
	1914	60	2,572	557	988	2,366	4,641	Musical instruments, pianos and organs and materials.	1919	6	405	1,207	332	1,043	1,640
	1909	10	266	46	196	437	835		1914	7	444	866	259	370	761
Clothing, women's.....	1919	12	320	55	148	273	563		1909	6	343	796	222	272	588
	1914	15	392	65	151	433	772	Paints.....	1919	13	195	846	155	1,899	2,786
	1909	15	392	65	151	433	772		1914	16	151	815	93	1,055	1,519
Coffee, roasting and grinding..	1919	15	89	303	113	1,946	2,694		1909	17	146	768	79	1,213	1,962
	1914	17	92	361	46	1,241	1,561	Patent medicines and com- pounds and druggists' pre- parations. <sup>5</sup>	1919	38	256	307	142	749	2,327
	1909	13	57	216	28	702	983		1914	45	376	838	149	755	2,163
Coke, not including gas-house coke.	1919	4	568	3,308	760	3,479	4,453		1909	49	280	447	93	756	2,123
	1914	5	472	3,366	269	820	1,255	Paving materials.....	1919	38	584	4,062	456	279	981
	1909	4	73	100	34	45	101		1914	18	679	2,460	263	134	617
Confectionery and ice cream...	1919	87	797	1,044	633	2,915	5,255	Poultry, killing and dressing, not done in slaughtering and meat-packing estab- lishments.	1919	18	97	3	47	737	858
	1914	66	780	620	278	1,376	2,458		1914	10	123	3	22	238	276
	1909	87	797	1,044	633	2,915	5,255	Printing and publishing <sup>6</sup> ....	1919	373	2,850	3,674	2,686	3,614	11,735
Cooperage.....	1919	14	582	2,410	468	1,847	2,780		1914	414	3,028	3,025	1,968	1,965	6,984
	1914	34	794	2,347	418	1,414	2,440		1909	431	3,135	2,945	1,690	1,645	6,454
	1909	49	878	2,726	394	1,703	2,648	Saddlery and harness <sup>7</sup> .....	1919	52	479	352	460	2,859	4,444
Copper, tin, and sheet-iron products. <sup>2</sup>	1919	47	379	1,229	374	2,146	3,078		1914	43	590	292	374	1,511	2,267
	1914	47	379	254	214	1,799	2,406		1909	33	814	499	389	1,427	2,373
	1909	50	464	323	229	1,685	2,243	Shipbuilding, wooden, in- cluding boat building.	1919	7	185	340	201	53	330
Cordage and twine.....	1919	4	469	1,185	269	942	1,844		1914	11	90	164	52	135	222
	1914	5	506	1,625	159	611	883		1909	10	157	524	97	155	271
	1909	6	751	1,801	225	709	1,080	Slaughtering and meat pack- ing.	1919	26	450	1,441	437	10,659	12,954
Cotton goods.....	1919	6	967	5,524	630	2,925	4,459		1914	28	223	834	164	3,671	4,109
	1914	4	1,158	3,725	359	1,330	1,991		1909	37	354	853	251	5,746	6,568
	1909	4	1,044	3,150	307	1,188	1,902								
Fertilizers.....	1919	4	81	370	67	735	1,000								
	1914	6	132	298	50	499	793								
	1909	4	50	242	25	456	776								

<sup>1</sup> Includes "pickles, preserves, and sauces."<sup>2</sup> Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."<sup>3</sup> Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines"; "hardware"; "iron and steel, welding"; "machine tools"; "plumbers supplies, not elsewhere specified"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years, and "pumps, power" in 1914 and 1909.<sup>4</sup> Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."<sup>5</sup> Includes "perfumery and cosmetics."<sup>6</sup> Includes "engraving, steel and copper plate, including plate printing" and "lithographing" in all years, and "bookbinding and blank-book making" in 1914 and 1909.<sup>7</sup> Includes "leather goods, not elsewhere specified" and "trunks and valises" in 1914 and 1909.

# MANUFACTURES—KENTUCKY.

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

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Stoves and ranges.....	1919	6	454	513	\$433	\$461	\$1,408	Wood, turned and carved....	1919	10	432	792	\$344	\$1,200	\$1 912
	1914	8	487	532	282	237	754		1914	12	465	1,320	199	519	809
	1909	8	564	618	280	253	827		1909	19	652	1,446	254	709	1,169
Tobacco manufactures .....	1919	100	3,677	2,141	2,142	12,945	24,129	Woolen and worsted goods. .	1919	10	565	1,128	428	1,949	3,247
	1914	153	3,326	1,558	1,211	7,603	10,147		1914	11	675	1,773	210	611	934
	1909	220	3,973	2,713	1,432	8,425	18,598		1909	14	818	2,506	241	858	1,278
Vinegar and cider.....	1919	5	23	134	17	366	683	All other industries.....	1919	249	7,066	31,663	6,819	41,953	61,172
	1914	7	39	360	19	380	700		1914	335	6,052	34,015	3,226	20,383	64,961
	1909	8	40	231	19	337	510		1909	577	11,684	38,332	4,413	25,876	72,482

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

<b>COVINGTON.</b> .....									<b>LOUISVILLE—Con.</b>								
All industries.....	1919	133	4,038	8,241	\$4,547	\$7,834	\$17,121	Cooperage.....	1919	6	387	1,124	\$300	\$698	\$1,473		
	1914	161	3,190	7,005	1,815	3,730	8,265		1914	10	545	1,416	307	994	1,844		
	1909	196	3,942	8,250	1,838	4,471	8,712		1909	13	645	1,966	298	1,287	2,028		
Bread and other bakery prod- ucts.....	1919	10	41	55	47	201	401	Copper, tin, and sheet-iron work.....	1919	14	130	109	126	534	916		
	1914	19	38	7	24	84	142		1914	11	114	79	71	366	585		
	1909	18	28	10	18	76	130		1909	17	204	112	99	409	625		
Confectionery and ice cream..	1919	5	9	18	8	50	87	Foundry and machine-shop products. <sup>1</sup>	1919	64	3,565	10,558	4,017	5,877	14,500		
	1914	6	8	14	3	9	21		1914	41	2,712	4,619	1,615	2,523	6,849		
	1909	12	576	710	289	601	1,305		1909	43	3,164	5,724	1,700	3,499	6,888		
Foundry and machine-shop products. <sup>1</sup>	1919	19	805	1,222	1,071	1,431	3,667	Furniture.....	1919	15	799	1,870	682	1,398	3,034		
	1914	18	477	793	286	488	1,137		1914	15	672	1,203	346	940	1,827		
	1909	12	576	710	289	601	1,305		1909	17	425	960	178	356	765		
Lumber, planing-mill prod- ucts, not including planing mills connected with saw- mills.	1919	5	76	335	78	152	313	Ice, manufactured.....	1919	15	296	1,632	251	240	839		
	1914	6	108	408	77	114	234		1914	8	252	1,731	102	141	341		
	1909	10	142	601	83	172	312		1909	12	122	1,172	67	78	338		
Printing and publishing, book and job.	1919	5	15	25	15	15	47	Liquors, malt.....	1919	4	265	1,154	261	647	2,407		
	1914	5	19	21	12	12	36		1914	8	479	2,905	385	667	2,399		
	1909	30	311	387	115	740	1,223		1909	11	459	2,962	214	593	2,133		
Tobacco manufactures.....	1919	14	187	197	115	619	1,240	Lumber and timber products. <sup>4</sup>	1919	27	1,572	5,612	1,320	5,067	8,631		
	1914	22	331	380	115	406	1,048		1914	29	1,471	4,901	765	2,706	4,297		
	1909	30	311	387	115	740	1,223		1909	34	1,686	4,415	733	2,509	4,227		
All other industries.....	1919	66	2,005	6,389	3,213	5,306	11,366	Marble and stone work.....	1919	10	98	793	129	274	600		
	1914	85	2,218	5,463	1,298	2,617	5,047		1914	9	147	413	118	182	421		
	1909	126	2,845	6,548	1,333	2,882	5,742		1909	10	129	658	77	131	384		
<b>LOUISVILLE.</b> .....									<b>Mineral and carbonated waters.</b>								
All industries.....	1919	767	29,902	61,479	28,886	126,099	204,566		1919	7	57	142	48	211	505		
	1914	778	25,930	51,565	14,196	59,599	105,223		1914	12	69	59	36	99	216		
	1909	903	27,623	49,926	12,460	54,128	101,284		1909	12	65	55	34	60	194		
Boots and shoes and findings.	1919	5	209	105	129	448	740	Patent medicines and com- pounds and druggists' prep- arations. <sup>5</sup>	1919	18	210	296	112	597	1,820		
	1914	6	194	140	75	152	345		1914	22	269	705	109	522	1,644		
	1909	7	246	169	91	269	439		1909	26	95	239	36	524	1,419		
Bread and other bakery prod- ucts.....	1919	89	602	592	510	3,020	4,350	Printing and publishing. <sup>6</sup>	1919	106	1,836	2,129	1,765	2,581	8,153		
	1914	96	625	610	354	1,197	2,030		1914	124	1,625	1,873	1,324	1,392	4,747		
	1909	133	670	484	332	1,302	2,246		1909	124	1,011	1,815	1,080	1,111	4,102		
Carriages and wagons, in- cluding repairs.	1919	10	599	2,152	703	1,545	3,225	Saddlery and harness.....	1919	19	364	316	325	2,055	3,128		
	1914	23	415	1,930	251	457	896		1914	14	397	222	229	964	1,406		
	1909	* 38	949	2,341	418	800	1,574		1909	* 20	527	315	270	1,001	1,670		
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	5	4,006	4,135	6,278	6,960	13,768	Slaughtering and meat pack- ing.	1919	13	342	875	327	8,045	9,959		
	1914	4	3,881	4,228	2,675	4,935	7,792		1914	16	158	635	128	2,747	3,080		
	1909	4	2,705	2,570	1,482	1,503	3,098		1909	22	293	679	219	4,715	5,372		
Clothing, men's.....	1919	16	1,097	365	760	2,813	4,863	Tobacco, cigars and cigar- ettes.	1919	29	654	119	415	940	1,984		
	1914	14	1,331	408	605	1,623	2,953		1914	43	800	22	278	438	1,050		
	1909	20	2,163	472	680	2,533	4,354	All other industries.....	1919	254	11,517	26,437	9,856	78,176	113,267		
Coffee, roasting and grinding.	1919	9	72	213	100	1,520	2,174		1914	242	8,721	22,633	4,143	30,699	58,066		
	1914	12	82	311	41	1,081	1,354		1909	340	10,556	22,818	4,443	31,448	59,338		
	1909	19	671	432	239	1,174	2,101										

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

<b>HENDERSON.</b> .....									<b>OWENSBORO.</b> .....								
	1919	31	907	2,978	\$706	\$2,940	\$4,765		1919	64	1,380	4,206	\$1,005	\$4,694	\$8,635		
	1914	42	1,147	3,527	436	1,668	2,973		1914	62	1,001	4,047	485	2,528	4,056		
	1909	43	1,088	3,270	413	1,722	2,932		1909	69	1,064	4,059	468	2,252	3,505		
<b>LEXINGTON.</b> .....									<b>PADUCAH.</b> .....								
	1919	170	1,171	4,042	1,227	4,930	8,570		1919	78	3,596	5,515	3,622	4,042	10,951		
	1914	112	1,130	2,241	638	1,849	3,531		1914	75	2,402	5,174	1,265	2,144	4,491		
	1909	85	1,032	2,579	511	1,249	2,851		1909	91	2,613	5,247	1,245	2,348	4,667		
<b>NEWPORT.</b> .....																	
	1919	81	2,350	23,470	2,704	9,330	16,935										
	1914	100	1,880	6,731	1,288	4,853	8,306										
	1909	144	2,341	3,750	1,341	3,366	6,491										

<sup>1</sup> Includes "automobile repairing"; "hardware"; "iron and steel, welding"; "machine tools"; and "structural ironwork, not made in steel works or rolling mills," in all years; and "engines, steam, gas, and water" in 1914 and 1909.

<sup>2</sup> Includes "carriage and wagon materials."

<sup>3</sup> Includes "automobile repairing"; "gas machines"; "hardware"; "iron and steel, welding"; "plumbers' supplies, not elsewhere specified"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts," in all years; and "pumps, power," in 1914 and 1909.

<sup>4</sup> Includes "boxes, wooden packing, except cigar boxes" and "lumber, planing-mill products, not including planing mills connected with sawmills."

<sup>5</sup> Includes "perfumery and cosmetics" in all years but excludes "druggists' preparations" in 1919 to avoid disclosure of individual operations.

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

<sup>7</sup> Includes "trunks and valises."

## MANUFACTURES—KENTUCKY.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

	All industries.....	3,957	83,954	4,003	3,778	4,592	2,241	69,340	De 75,688	Fe 65,941	(*)	(*)	(*)	(*)	(*)	Dollars. 276,535,395
1	Agricultural implements.....	8	1,272	4	20	368	107	773	Mh 924	Au 627	838	826	11	1		5,592,435
2	Artificial stone products.....	18	61	16	11	1		33	Jy 50	Ja 12	44	44				120,896
3	Automobile bodies and parts.....	17	447	15	23	12	9	388	Ja 397	No 379	389	352	6	1		1,045,283
4	Automobile repairing.....	190	923	233	31	10	35	614	De 666	Ja 543	694	692	2			1,460,607
5	Awnings, tents, and sails.....	6	101	4	11	6	8	72	Jy 98	De 44	58	36	20			193,512
6	Boots and shoes.....	7	732	12	44	31	15	630	De 842	Ja 449	836	383	427	6	20	2,693,936
7	Boxes, paper and other, not elsewhere specified.....	6	909	5	25	75	40	764	Ja 1,025	Fe 588	692	476	210			3,967,951
8	Boxes, wooden packing, except cigar boxes.....	8	545		24	12	9	500	Au 516	Fe 484	496	409	71	11	5	856,736
9	Brass, bronze, and copper products.....	9	130	10	9	3	4	104	Au 109	Mh 98	106	105	1			250,289
10	Bread and other bakery products.....	242	1,484	255	51	68	80	1,030	De 1,110	Ja 935	1,108	874	224	6	4	3,222,820
11	Brick and tile, terra-cotta, and fire-clay products.....	47	2,596	29	128	58	32	2,349			2,389	2,321	48	20		7,596,108
12	Building brick.....	30	854	18	60	16	8	752	Jy 1,043	Fe 336	911	895	4	12		2,188,448
13	Fire brick.....	7	1,321	44	23	17	1,237	Ja 1,425	No 1,043	1,063	1,089		4			4,540,984
14	Sewer pipe and drain tile.....	5	83	7	1			88	Ja 49		55	55				195,553
15	Terra-cotta products.....	5	338	4	20	18	7	289	De 325	Fe 263	330	282	44	4		673,123
16	Brooms.....	36	254	46	11	24	3	170	De 179	Fe 161	187	137	40	4		545,279
17	Butter.....	16	203	7	16	23	17	140	Oc 195	Fe 94	192	124	68			1,251,207
18	Buttons.....	5	112	4	5	2	2	99	No 131	Ja 68	128	110	18			135,329
19	Canning and preserving, fruits and vegetables.....	10	118	7	4	5	1	101	Se 377	Fe 8	301	85	216			223,614
20	Carriage and wagon materials.....	19	595	17	43	7	7	521	De 608	Fe 455	610	609	1			1,498,767
21	Carriages and wagons, including repairs.....	52	1,794	56	95	121	66	1,456			1,560	1,515	44	1		7,229,923
22	Carriages and wagons.....	28	1,712	26	94	121	66	1,405	De 1,485	Ap 1,272	1,508	1,463	44	1		7,092,986
23	Repair work only.....	24	82	30	1		51	51	Se 55	Ja 48	62	62				136,937
24	Cars and general shop construction and repairs by electric-railroad companies.....	7	210		7	5	2	196	Je 227	Se 74	213	213				734,622
25	Cars and general shop construction and repairs by steam-railroad companies.....	30	13,124		245	460	47	12,372	De 13,367	Je 11,257	13,370	13,358	12			13,991,435
26	Chemicals.....	4	29	1	3	6	0	13	No 14	Au 11	14	14				157,778
27	Clothing, men's.....	50	2,964	46	101	188	39	2,590			3,075	585	2,466	4	20	5,019,469
28	Regular factory products.....	29	2,597	17	101	188	39	2,252			2,636	520	2,093	4	19	4,936,110
29	Men's and youths'.....	19	1,886	9	80	155	26	1,616	De 1,903	Fe 1,448	1,878	432	1,423	4	19	3,909,175
30	All other.....	10	711	8	21	33	13	636	No 750	Ja 561	758	88	670			1,026,041
31	Contract work, men's and youths'.....	21	367	29				338	De 430	Ja 274	439	65	373		1	83,350
32	Clothing, women's.....	10	312	12	16	6	12	266	Mh 289	Jy 243	253	38	215			299,456
33	Coffee, roasting and grinding.....	15	186	6	22	61	8	89	Ja 93	Mh 84	93	56	37			1,137,934
34	Coke, not including gas-house coke.....	4	627		22	31	6	568	Ja 667	Ap 487	564	564				765,766
35	Confectionery and ice cream.....	87	1,072	95	48	60	71	797			725	400	321			2,423,624
36	Confectionery.....	38	754	40	23	44	49	598	Fe 702	Fe 492	581	220	309		4	5,692,997
37	Ice cream.....	49	318	56	25	16	22	199	Au 249	Fe 152	194	180	12		2	830,627
38	Cooperage.....	14	631	7	24	11	7	582	De 707	Mh 487	711	710	1			1,884,101
39	Copper, tin, and sheet-iron work.....	44	396	48	35	18	19	276	De 318	Jy 247	321	316	5			1,309,240
40	Cordage and twine.....	4	491		15	4	3	469	De 520	Mh 362	520	281	235	1	3	1,253,001
41	Cordials and flavoring sirups.....	4	34	2	7	2	2	21	Ap 24	Oc 16	19	18	1			125,471
42	Cotton goods.....	6	1,007	3	21	7	9	967	Je 1,211	Jy 608	1,022	477	518	13	14	4,107,714
43	Druggists' preparations.....	6	22	4	3	1		14	(*) 14	(*) 14	16	4				45,683
44	Electrical machinery, apparatus, and supplies.....	9	310		21	17	17	255	De 327	Au 162	327	277	50			1,112,553
45	Engraving, steel and copper plate, including plate printing.....	8	257	3	19	11	17	207	De 219	Mh 201	210	101	107	2		222,409
46	Fancy articles, metal and paper novelties.....	4	42	6	2	1	3	30	De 35	Ja 29	35	19	16			65,675
47	Fertilizers.....	4	116	2	10	14	0	81	Se 149	Fe 66	69	69				728,757
48	Flour-mill and gristmill products.....	533	2,830	741	168	246	91	1,584	Au 1,730	Mh 1,423	1,658	1,603	53	2		22,789,346
49	Food preparations, not elsewhere specified.....	7	120	4	9	8	7	92	No 108	My 71	98	74	24			379,724
50	Foundry and machine-shop products.....	87	3,187	67	210	198	158	2,551			2,720	2,702	14		4	10,367,585
51	Boiler shops and foundries.....	15	783	5	81	18	10	669	No 761	My 544	772	772				1,962,137
52	Machine shops.....	63	1,179	60	95	121	113	790	De 872	Ap 729	807	800	4	3		4,528,650
53	Machine shop and foundry combined.....	9	1,225	2	34	59	35	1,095	No 1,143	Fe 1,040	1,141	1,130	10	1		3,877,398
54	Furniture.....	29	1,551	10	79	39	42	1,381	Au 1,479	Ja 1,201	1,490	1,280	206	3	1	3,695,567
55	Gas, illuminating and heating.....	10	118		15	6	7	90	Au 105	Ap 81	89	89				1,981,327
56	Grease and tallow, not including lubricating greases.....	4	27	3	5	2		17	No 22	Ja 16	16	16				99,429
57	Hand stamps.....	4	11	5			1	5	(*) 5	(*) 5	5	5	1			10,991
58	Hardware.....	4	370		16	2	9	343	De 465	Ja 273	481	374	105	1	1	978,326
59	Ice, manufactured.....	99	961	35	118	31	23	754	Jy 1,140	Fe 420	741	736	3	2		6,266,468
60	Iron and steel, blast furnaces.....	4	513		20	14	4	475	Ja 697	Je 168	536	536				7,261,031
61	Iron and steel, steel works and rolling mills.....	5	2,083		79	96	16	1,892	De 2,662	Se 862	2,727	2,725	2			16,315,962
62	Jewelry.....	5	27	0	2			19	(*) 19	(*) 19	19	17	2			18,706
63	Leather, tanned, curried, and finished.....	10	727	1	39	18	8	661	Au 701	No 628	654	652	2			7,011,821
64	Liquors, malt.....	8	715	1	61	74	16	563	Au 680	Fe 481	522	516	4	2		3,524,890

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."

MANUFACTURES—KENTUCKY.

23

COMBINED AND SPECIFIED INDUSTRIES: 1919.

[illegible]

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

[illegible]

<sup>4</sup> Same number reported for one or more other months.

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

## MANUFACTURES—KENTUCKY.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

																			Dollars.
1	Lithographing.....	5	249	1	23	34	15	176	Se	186	Ja	163	184	146	36	1	1	853,362	
2	Lumber and timber products.....	931	9,340	1,159	233	156	76	7,716	No	9,625	Je	6,402	8,892	8,688	178	26		16,655,212	
3	Lumber, planing-mill products, not including planing mills connected with sawmills.....	106	2,209	84	175	130	56	1,704	Se	1,943	Ja	1,433	1,871	1,823	44	3	1	6,246,851	
4	Machine tools.....	7	292	10	16	9	8	249	De	302	Ja	209	302	297	5			633,454	
5	Marble and stone work.....	63	489	64	52	21	6	346					398	397		1		1,186,651	
6	Monuments and tombstones.....	50	310	60	26	17	2	205	No	223	Fe	187	214	213		1		709,911	
7	Other marble and stone work, except slate.....	13	179	4	26	4	4	141	Se	188	Ja	90	184	184				476,740	
8	Mattresses and spring beds not elsewhere specified.....	9	110	7	6	4	5	88	Mh	98	Ja	76	82	64		18		161,733	
9	Millinery and lace goods, not elsewhere specified.....	7	218	10	12		89	107	Je	119	Fe	97	108	4	103	1		220,786	
10	Mineral and carbonated waters.....	93	482	98	40	31	16	297	Jy	400	Ja	196	286	270	8	8		1,100,510	
11	Minerals and earths, ground or otherwise treated.....	4	45	4	3		1	37	Jy	60	Ja	13	57	57				116,325	
12	Optical goods.....	8	79	4	6	6	11	52	Se	59	Ja	45	57	44	12	1		115,680	
13	Paints.....	13	307		35	58	19	195	An	223	Ja	159	200	141	59			1,380,528	
14	Patent medicines and compounds.....	28	355	17	31	49	30	228	Ap	271	Oc	158	209	148	60		1	1,512,655	
15	Paving materials.....	38	648	30	24	8	2	584	Jy	782	Ja <sup>3</sup>	272	772	772				763,854	
16	Perfumery and cosmetics.....	4	19	3			2	14	( <sup>1</sup> )	14	( <sup>1</sup> )	14	14	6	8			13,087	
17	Pickles, preserves, and sauces.....	18	1,280	6	60	128	40	1,046					1,227	620	587	4	16	3,887,998	
18	Preserves.....	5	592		22	31	11	528	Oc	679	My	282	617	327	290			1,761,357	
19	Pickles and sauces.....	13	688	6	38	97	29	518	Se	798	Fe	352	610	203	297	4	16	2,126,641	
20	Pottery, earthen and stone ware.....	5	120	5	7	1	2	105	Au	112	Fe	97	105	93	12			172,012	
21	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	18	122	22	1		2	97	De	607	Ja <sup>3</sup>	10	607	224	380		3	107,372	
22	Printing and publishing, book and job.....	108	1,520	89	80	74	73	1,195	De	1,340	My	945	1,343	872	453	12	6	3,027,428	
23	Printing and publishing, newspapers and periodicals.....	252	2,298	235	217	375	199	1,272					1,311	1,091	191	26	3	5,325,551	
24	Printing and publishing.....	15	957	7	82	290	76	502	No	517	Ja	492	510	487	22	1		2,366,601	
25	Printing, publishing, and job printing.....	200	1,203	214	91	77	56	765	No	803	Ap	738	796	599	169	25	3	2,822,132	
26	Publishing without printing.....	37	138	14	14	8	67	5	( <sup>1</sup> )	5	( <sup>1</sup> )	5	5	5				136,818	
27	Saddlery and harness.....	52	661	53	27	85	17	479	De	490	Fe <sup>3</sup>	472	490	437	50	3		1,944,904	
28	Shipbuilding, wooden, including boat building.....	7	193	4	3	1		185	Ap	254	Au	113	219	219				110,166	
29	Signs and advertising novelties.....	6	108	4	12	1	5	86	Jy	102	Ja	69	89	46	43			189,133	
30	Slaughtering and meat packing.....	26	567	29	33	53	2	450	De <sup>3</sup>	462	Se	439	455	447	8			1,980,987	
31	Stoves and ranges.....	6	534		26	50	4	454	De	482	Ap	427	482	458	24			1,246,575	
32	Structural ironwork, not made in steel works or rolling mills.....	12	269	5	17	28	23	196	Au	222	Ap	168	209	209				1,564,579	
33	Tobacco, chewing and smoking, and snuff.....	24	2,706	12	64	160	64	2,406					2,398	1,334	1,064			21,380,881	
34	Chewing.....	15	849	6	46	73	18	706	De	835	My	587	823	475	348			5,356,257	
35	Smoking, and snuff.....	9	1,857	6	18	87	46	1,700	Jy	1,803	De	1,573	1,575	859	716			16,024,624	
36	Tobacco, cigars and cigarettes.....	76	1,455	82	59	33	10	1,271	De	1,558	Jy	1,152	1,563	270	1,286	6	1	2,330,303	
37	Vinegar and cider.....	5	53	1	8	13	8	23	Se <sup>3</sup>	26	Ja <sup>3</sup>	22	22	18	4			202,426	
38	Window and door screens.....	5	219	3	11	14	12	179	My	201	Mh	156	182	124	52	2	4	814,405	
39	Wirework, not elsewhere specified.....	3	8	3				5	( <sup>1</sup> )	5	( <sup>1</sup> )	5	5	5				12,225	
40	Wood, turned and carved.....	10	476	9	17	10	8	432	Se	440	Fe	404	441	438	2	1		948,287	
41	Woolen and worsted goods.....	10	597	9	16	4	3	565	No	640	Fe	433	625	240	292	21	72	1,696,367	
42	All other industries*.....	183	8,580	112	462	593	330	7,074										40,532,904	

\*All other industries embrace—  
 Artificial limbs..... 2  
 Automobiles..... 2  
 Bags, other than paper, not including bags made in textile mills..... 2  
 Baskets and rattan and willow ware..... 1  
 Blacking, stains, and dressings..... 1  
 Bluing..... 1  
 Bone and carbon black..... 1  
 Bookbinding and blank-book making..... 3  
 Boot and shoe findings..... 3  
 Boxes, cigar..... 2  
 Brushes..... 1  
 Carpets, rag..... 2  
 Cars, steam-railroad, not including operations of railroad companies.. 1

Cement..... 1  
 Chewing gum..... 2  
 Cleansing preparations..... 2  
 Clocks..... 1  
 Coffins, burial cases, and undertakers' goods..... 4  
 Cotton small wares..... 1  
 Cutlery, scissors, shears, and clippers..... 1  
 Dental goods..... 3  
 Dyeing and finishing textiles, exclusive of that done in textile mills..... 3  
 Electroplating..... 2  
 Engines, steam, gas, and water..... 2  
 Engraving and diesinking..... 1  
 Explosives..... 4  
 Flavoring extracts..... 1

Flax and hemp, dressed..... 3  
 Fur goods..... 2  
 Furnishing goods, men's..... 3  
 Gas and electric fixtures..... 1  
 Gas machines..... 1  
 Glass, cutting, staining, and ornamenting..... 3  
 Gloves and mittens, cloth, not including gloves made in textile mills..... 1  
 Glucose..... 1  
 Glue, other than fish..... 1  
 Hair work..... 3  
 Hats and caps, other than felt, straw, and wool..... 3  
 Hats, fur-felt..... 1

House-furnishing goods, not elsewhere specified..... 3  
 Ink, printing..... 1  
 Ink, writing..... 1  
 Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills..... 1  
 Iron and steel, welding..... 3  
 Iron and steel, wrought pipe..... 1  
 Jewelry and instrument cases..... 1  
 Knit goods..... 2  
 Labels and tags..... 3  
 Lime..... 3  
 Liquors, distilled, rum..... 1

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

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



# MANUFACTURES—KENTUCKY.

25

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 55,580	Dollars. 115,411	Dollars. 197,783	Dollars. 243	Dollars. 3,105	Dollars. 6,635	Dollars. 109,495	Dollars. 5,769	Dollars. 649,008	Dollars. 443,834	140	100	1,171	217	412	49	1
720,499	816,273	6,298,613	1,526,506	24,313	358,983	9,642,244	158,737	23,283,633	13,482,055	35,862	32,401	3,255	511	40	1,661	700
433,018	189,436	1,517,591	400	10,102	112,307	5,175,817	98,700	8,855,944	3,581,418	7,317	3,255	.....	.....	.....	8,511	48
62,892	10,729	272,222	8,487	840	37,207	303,250	11,595	1,022,499	707,654	381	.....	.....	60	.....	321	4
97,655	32,009	373,673	2,385	11,882	10,025	684,611	36,843	1,584,702	803,248	2,171	1,355	.....	272	10	534	175
54,426	23,080	247,266	2,385	9,689	7,290	550,057	15,336	1,122,019	550,026	802	380	.....	147	10	265	150
43,129	8,049	126,407	.....	2,193	2,735	128,554	21,507	462,683	312,622	1,369	975	.....	125	.....	209	25
15,846	11,132	66,302	.....	5,654	8,398	180,858	3,314	393,100	208,988	116	.....	.....	.....	.....	116	8
9,770	118,447	55,445	.....	7,888	584	150,506	413	653,424	493,445	6	.....	.....	.....	.....	6	9
67,360	39,604	230,650	154	13,420	78,486	1,029,784	21,907	2,095,197	1,043,446	609	181	.....	78	3	407	15
2,400	300	31,044	.....	.....	597	16,018	9,100	71,160	45,952	469	469	.....	.....	.....	.....	11
34,292	17,657	42,537	600	14,700	10,972	98,891	1,827	257,322	156,004	20	.....	.....	.....	.....	26	12
123,228	114,126	155,320	.....	8,590	76,075	1,880,203	10,273	2,786,468	880,992	846	5	.....	30	.....	811	13
98,088	80,922	128,181	75	7,202	651,150	642,928	43,350	2,209,571	1,523,208	296	280	.....	.....	.....	16	14
38,289	7,540	455,789	.....	0,955	7,098	219,057	60,251	980,972	701,664	4,062	3,189	46	137	.....	691	240
.....	1,664	6,750	69	1,007	98	25,068	145	48,060	22,247	3	.....	.....	.....	.....	3	16
232,619	285,278	621,043	.....	6,135	158,586	5,469,083	50,977	8,223,431	2,703,371	880	489	.....	2	.....	389	114
96,245	74,980	377,275	.....	3,548	71,408	3,448,720	27,479	4,556,214	1,080,015	179	148	.....	.....	.....	31	56
133,374	210,292	243,708	.....	2,587	87,178	2,020,303	23,498	3,607,217	1,023,350	701	341	.....	2	.....	358	58
22,779	3,140	80,694	300	500	2,209	39,551	27,809	207,540	140,180	300	300	.....	.....	.....	.....	20
500	1,110	47,176	.....	3,782	5,169	735,772	1,208	395,054	121,074	.....	.....	.....	.....	.....	.....	21
266,268	185,543	1,054,293	54,597	51,104	78,163	1,457,356	44,518	4,421,926	2,920,052	1,181	10	.....	5	.....	1,166	5
509,002	624,594	1,317,140	205,794	73,652	66,655	1,601,454	90,718	6,183,394	4,431,222	2,306	100	.....	228	4	1,974	4
241,788	345,869	656,320	.....	20,044	42,011	908,050	48,212	3,261,225	2,304,093	1,082	100	.....	.....	.....	982	24
177,144	122,429	656,022	8,974	47,122	23,510	665,036	42,420	2,320,958	1,622,493	1,224	.....	.....	228	4	992	4
90,070	56,296	4,798	199,820	6,489	1,128	88,308	77	592,211	503,766	.....	.....	.....	.....	.....	.....	26
114,392	159,267	460,109	20,234	14,850	28,058	2,842,395	10,382	4,443,962	1,585,185	852	.....	.....	2	.....	350	27
8,784	1,500	200,525	.....	970	1,466	50,863	1,981	330,242	277,998	340	305	.....	.....	.....	35	28
28,691	5,130	62,016	7,500	5,160	5,625	122,722	2,802	367,639	242,115	102	.....	.....	.....	.....	102	29
93,094	86,133	437,072	4,528	3,859	58,405	10,580,189	78,715	12,953,983	2,295,082	1,441	1,217	.....	.....	.....	224	524
83,182	62,753	433,004	.....	4,240	52,230	430,282	30,470	1,407,938	947,180	513	.....	.....	.....	.....	513	31
57,366	37,574	426,166	2,000	1,746	25,106	452,320	14,732	1,015,503	548,451	824	.....	.....	.....	.....	824	32
232,676	334,833	1,408,852	5,444	1,132	5,039,010	11,214,893	93,595	20,547,825	9,239,337	1,096	1,782	.....	5	.....	209	1,150
132,831	126,016	385,987	.....	578	874,402	2,080,353	23,294	4,053,211	1,049,564	578	624	.....	.....	.....	54	125
99,845	208,817	1,022,865	5,444	554	5,065,448	9,134,640	70,301	16,494,614	7,289,773	1,418	1,258	.....	5	.....	155	1,031
101,596	57,328	733,501	.....	34,287	484,846	1,626,590	0,770	3,581,321	1,944,961	145	60	.....	.....	.....	85	36
18,769	36,325	16,096	.....	516	22,830	364,771	1,508	682,811	316,532	134	115	.....	5	.....	14	37
27,147	26,234	162,937	.....	1,200	24,042	252,777	8,807	619,071	367,487	237	85	.....	8	.....	144	38
.....	4,028	1,000	.....	305	149	5,678	114	17,871	12,079	2	.....	.....	.....	.....	2	39
79,757	26,140	344,268	.....	2,724	10,027	1,190,900	8,958	1,911,656	711,798	792	220	.....	82	.....	490	3
50,956	6,968	427,890	.....	.....	132,840	1,012,058	36,547	3,247,060	1,298,455	1,128	789	.....	26	20	293	224
1,826,118	1,348,416	7,002,156	105,410	113,304	2,527,491	36,734,828	1,034,417	57,616,762	19,847,517	19,770	7,855	3,000	773	.....	8,142	3,540

Looking-glass and picture frames....	2	Petroleum, refining.....	3	Saws.....	1	Tools, carpenters'.....	1
Malt.....	1	Photo-engraving.....	3	Scales and balances.....	2	Toys and games.....	2
Mirrors, framed and unframed, not elsewhere specified.....	1	Photographic apparatus, motion-picture machines.....	2	Shirts.....	4	Trunks and valises.....	2
Musical instruments and materials, not elsewhere specified.....	2	Photographic materials, motion-picture projection films.....	2	Soap.....	2	Upholstering materials, excelsior.....	1
Musical instruments, organs.....	1	Pumbers supplies, not elsewhere specified.....	1	Sporting and athletic goods.....	4	Varnishes.....	4
Musical instruments, pianos.....	2	Pumps, not including power pumps.....	2	Stamped and enameled ware, not elsewhere specified.....	2	Wall plaster and composition flooring.....	3
Musical instruments, piano materials.....	1	Roofing materials.....	3	Statuary and art goods.....	2	Washing machines and clothes wringers.....	1
Oil and cake, cottonseed.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Steam packing.....	2	Waste, cotton.....	1
Oil, essential.....	1	Sales and vaults.....	1	Stonells and brands.....	2	Watchcases.....	1
Oil, not elsewhere specified.....	3	Sausage, not made in slaughtering and meat-packing establishments..	2	Storotyping and electrotyping.....	2	Window shades and fixtures.....	1
Peanuts, grading, roasting, cleaning, and shelling.....	2	.....	.....	Surgical appliances.....	3	Wood carpet.....	1
.....	.....	.....	.....	Toxile machinery and parts.....	2	Wood distillation.....	1
.....	.....	.....	.....	Tin foil.....	1	Wood preserving.....	2
.....	.....	.....	.....	Tinware, not elsewhere specified.....	1	Wool scouring.....	1

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

<sup>2</sup> Same number reported throughout the year.



## MANUFACTURES—KENTUCKY.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	COVINGTON—All industries...	133	4,812	109	261	277	127	4,038	De	4,433	My	3,709	4,475	3,800	673	1	1	Dollars.
2	Bread and other bakery products....	19	75	22	3	3	6	41	No	47	Fe	39	46	43	3			134,032
3	Confectionery and ice cream.....	5	25	6		2	8	9	Jy	13	Ja	5	13	12	1			31,431
4	Foundry and machine-shop products.	5	458	1	62	11	7	377	Se	438	My	280	397	397				1,408,536
5	Lumber, planing-mill products, not including planing mills connected with sawmills.	5	94	6	6	5	1	76	No	90	Fe	63	91	90		1		398,613
6	Printing and publishing, book and job.	5	23	3	3	1	1	15	Ja	16	De	14	14	13	1			31,574
7	All other industries *	94	4,137	71	187	255	104	3,520					3,914	3,245	008	1		9,311,438

*All other industries embrace—	Carriage and wagon materials.....	1	Copper, tin, and sheet-iron work.....	3	Electroplating.....	2
Automobile bodies and parts.....	Carriages and wagons, including repairs.	1	Cordage and twine.....	1	Furniture, wood, except rattan and willow.....	1
Automobiles.....	Cars and general shop construction and repairs by steam-railroad companies.	1	Cordials and flavoring sirups.....	1	Grease and tallow, not including lubricating greases.....	1
Automobile repairing.....	Brass and bronze products.....	1	Cotton small wares.....	1	Hardware.....	1
Brick and tile, terra-cotta, and fire-clay products.....	Bricks and tile, terra-cotta, and fire-clay products.....	3	Dyeing and finishing textiles, exclusive of that done in textile mills....	1	Ice, manufactured.....	4
Brooms, from broom-corn.....	Clothing, men's.....	7	Electrical machinery, apparatus, and supplies.....	3		
	Cooperage.....	1				

1	LOUISVILLE—All industries	767	36,068	458	1,054	2,711	1,343	29,902	De	31,670	Je	28,382	32,181	25,707	6,271	70	133	Dollars.
2	Automobile bodies and parts.....	12	176	11	13	6	6	140	Jy	154	No	131	141	134	6	1		347,733
3	Automobile repairing.....	19	154	12	13	2	1	126	Ja	133	Ja	117	127	125	2			208,941
4	Boxes, wooden packing, except cigar boxes.	5	433		18	7	8	400	Au	418	No	382	394	320	59	10	5	698,746
5	Bread and other bakery products....	89	824	86	38	51	47	602	Je	643	Ja	554	632	493	139			1,924,519
6	Brooms, from broom-corn.....	4	133	1	4	12	3	113	De	118	Ap	105	118	83	35			259,524
7	Butter.....	5	79	2	6	6	10	55	Jy	68	Fe	44	61	51	10			752,888
8	Carriages and wagons, including repairs.	10	719	11	37	51	21	599					606	659	7			3,401,418
9	Carriages and wagons.....	6	703	7	36	51	21	588	Fe	694	Je	502	655	648	7			3,434,800
10	Repair work only.....	4	16	4	1			11	Fe	12	No	9	11	11				26,618
11	Cars and general shop construction and repairs by steam-railroad companies.	5	4,836		73	139	18	4,606	De	4,841	Je	4,110	4,841	4,840	1			7,490,287
12	Chemicals.....	4	29	1	3	6	6	13	No	14	Au	11	14	14				157,778
13	Clothing, men's.....	16	1,286	7	56	104	22	1,097	De	1,099	Mh	690	1,398	354	1,025	3	16	2,555,812
14	Men's and youths'.....	11	1,038	2	50	93	17	876	De	1,099	Mh	690	1,089	304	778	3	16	2,145,626
15	All other.....	5	248	5	6	11	5	221	De	290	My	188	299	50	249			410,186
16	Coffee, roasting and grinding.....	9	153	2	21	53	5	72	De	70	Jy	65	76	48	28			999,988
17	Confectionery and ice cream.....	32	792	24	37	51	55	625	Fe	615	Je	431	537	272	263	2		1,964,377
18	Confectionery.....	21	626	19	18	40	41	658	Fe	615	Je	431	537	272	263	2		1,467,424
19	Ice cream.....	11	166	5	19	11	14	117	Au	142	Fe	91	103	90	4			406,053
20	Cooperage.....	6	414	3	13	5	6	337	My	411	Fe	371	404	403	1			1,393,640
21	Copper, tin, and sheet-iron work.....	14	177	12	19	9	7	130	No	143	Mh	120	137	132	5			364,892
22	Electrical machinery, apparatus, and supplies.	4	152		14	12	8	118	De	168	Au	37	171	168	3			543,947
23	Engraving, steel and copper plate, including plate printing.	8	257	3	19	11	17	207	De	210	Mh	201	210	101	107	2		222,409
24	Fancy articles, not elsewhere specified.	4	42	6	2	1	3	30	De	35	Ja	29	35	19	16			65,675
25	Foundry and machine-shop products.	31	1,817	12	80	109	59	1,557	De	1,066	Au	114	1,652	1,637	14	1		5,287,782
26	Boiler shops and foundries.....	6	159	5	13	5	2	134	De	470	Ap	333	167	167				502,557
27	Machine shops.....	19	492	7	37	45	22	381	De	470	Ap	333	408	404	4			1,038,471
28	Machine shop and foundry combined.	6	1,166		30	59	35	1,042	No	1,087	Fe	985	1,077	1,066	10	1		3,746,754
29	Furniture.....	15	891	6	41	20	25	799	Oc	887	Ja	681	895	756	138	1		1,801,971
30	Ice, manufactured.....	15	352	5	25	11	12	296	Jy	408	Fe	196	245	242	3			2,927,512
31	Jewelry.....	5	27	6	2			19	( )	19	( )	19	19	17	2			18,706
32	Liquors, malt.....	4	322	1	23	29	4	265	Jy	303	Fe	243	243	243				632,807
33	Lumber and timber products.....	6	587		32	55	25	475	De	544	Jy	409	544	510	34			4,335,890
34	Lumber, planing-mill products, not including planing mills connected with sawmills.	16	846	4	52	69	24	697	Je	817	Ja	561	724	680	44			2,582,278
35	Marble and stone work.....	10	135	6	23	7	1	98					114	113		1		422,180
36	Monuments and tombstones.....	7	92	6	12	6		68	De	79	Ap	61	70	78		1		333,756
37	Other marble and stone work, except slate.	3	43		11	1	1	30	De	35	Je	27	35	35				88,424
38	Mineral and carbonated waters.....	7	83	6	4	14	2	57	Au	78	De	40	42	39	3			234,008
39	Optical goods.....	5	72	1	6	6	11	48	De	54	Ja	42	50	40	9	1		107,395
40	Patent medicines and compounds.....	14	272	7	23	33	13	196	Ja	243	Oc	120	176	130	30		1	1,289,476
41	Perfumery and cosmetics.....	4	19	3			2	14	( )	14	( )	14	14	6				13,097
42	Pickles, preserves, and sauces.....	9	903	2	40	113	29	719	Oc	939	Ap	507	743	448	295			2,085,876
43	Printing and publishing, book and job.	50	1,239	27	76	68	66	1,002	De	1,139	My	756	1,140	724	412	7	6	2,560,723

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

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

# MANUFACTURES—KENTUCKY.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 828,308	Dollars. 300,075	Dollars. 4,547,211	Dollars. 23,751	Dollars. 92,828	Dollars. 771,076	Dollars. 7,538,428	Dollars. 295,200	Dollars. 17,120,603	Dollars. 9,286,966	8,241	4,608	424	3,209	606	1
4,755	8,508	46,617	1,800	5,190	1,936	255,934	5,024	401,103	140,145	55	10	18	55	2	
118,790	7,856	7,020	3,538	590	49,132	1,281	87,249	38,836	918,804	638	210	95	363	236	3
13,904	26,009	384,020	2,154	64,360	690,562	31,933	1,650,359	312,526	100,954	335	155	10	170	5	
7,148	78,107	1,500	2,491	144,090	7,482	47,223	31,916	7,998,251	7,140	4,233	319	2,588	370	7	
3,510	700	15,331	1,590	149	14,580	727	14,022,143	7,998,251	7,140	4,233	319	2,588	370	7	
687,349	340,764	4,015,450	21,951	78,856	701,550	6,375,130	248,762	14,022,143	7,998,251	7,140	4,233	319	2,588	370	7

Iron and steel, welding.....	1	Musical instruments, organs.....	1	Sales and vaults.....	1	Tobacco, chewing.....	3
Labels and tags.....	1	Paints.....	2	Signs and advertising novelties.....	2	Tobacco, cigars.....	11
Liquors, distilled.....	1	Patent medicines and compounds.....	1	Slaughtering and meat packing.....	4	Tools, not elsewhere specified.....	1
Liquors, malt.....	1	Pickles, preserves, and sauces.....	3	Sporting and athletic goods.....	1	Wirework, including wire rope and cable, not elsewhere specified.....	1
Machine tools.....	6	Printing and publishing, newspapers and periodicals.....	1	Statuary and art goods.....	1	Wood, turned and carved.....	2
Marble and stone work.....	3	Saddlery and harness.....	1	Structural ironwork, not made in steel works or rolling mills.....	3		
Mineral and carbonated waters.....	1						

Dollars. 5,420,678	Dollars. 5,100,602	Dollars. 28,886,142	Dollars. 245,247	Dollars. 412,973	Dollars. 11,292,705	Dollars. 123,635,677	Dollars. 2,403,740	Dollars. 204,555,727	Dollars. 78,466,310	61,479	33,516	1,531	244	.....	26,188	18,339	1
24,826	14,056	141,068	.....	2,440	9,537	247,895	4,639	556,898	304,364	201	.....	.....	.....	.....	201	.....	2
26,745	3,275	191,750	171	13,706	9,222	207,115	7,393	584,455	369,947	180	.....	.....	35	.....	145	.....	3
67,760	17,934	260,009	.....	18,283	728,526	18,616	1,358,908	611,766	1,149	410	.....	.....	.....	.....	739	.....	4
82,300	69,157	510,456	1,204	29,110	51,318	2,966,936	01,036	4,349,990	1,321,118	592	.....	.....	7	.....	585	.....	5
18,000	9,467	102,220	2,080	16,820	15,820	258,445	4,439	557,569	254,685	129	125	.....	.....	.....	4	60	6
16,624	13,936	54,368	.....	3,375	1,094,800	0,277	1,864,709	160,602	347	.....	.....	.....	.....	.....	347	.....	7
88,438	70,247	703,320	1,167	1,200	58,302	1,496,816	48,475	3,224,837	1,070,546	2,152	2,100	.....	2	.....	50	2,127	8
87,238	70,247	601,756	.....	000	58,126	1,476,833	48,100	3,179,474	1,654,541	2,128	2,100	.....	2	.....	26	2,127	9
1,200	.....	11,570	1,157	000	266	10,983	375	45,363	25,005	24	.....	.....	.....	.....	24	.....	10
276,519	166,920	6,278,243	.....	2,500	54,912	6,846,194	113,961	13,768,341	6,808,186	4,135	3,175	900	.....	.....	60	4,301	11
7,820	9,374	14,619	.....	780	7,313	50,398	13,551	177,018	113,099	359	100	.....	.....	.....	259	.....	12
186,424	230,910	759,890	11,852	44,060	77,278	2,798,439	14,817	4,802,951	2,049,695	305	225	.....	.....	.....	140	110	13
170,497	213,451	652,446	8,512	38,640	74,472	2,152,010	12,948	3,829,277	1,664,319	310	225	.....	.....	.....	85	.....	14
16,927	17,459	107,444	3,340	5,420	2,806	646,429	1,809	1,033,674	385,376	55	.....	.....	.....	.....	55	.....	15
85,603	249,546	99,890	.....	7,792	50,375	1,522,650	5,852	2,173,066	645,455	213	.....	.....	.....	.....	213	.....	16
108,153	127,403	512,128	.....	33,430	295,089	2,104,004	40,547	4,214,030	1,980,379	721	266	.....	.....	.....	465	81	17
67,168	89,741	270,766	.....	20,550	282,432	1,528,098	23,547	3,148,560	1,506,045	380	126	.....	.....	.....	254	.....	18
40,985	37,662	241,362	.....	3,880	12,657	665,036	17,000	1,060,370	384,334	341	130	.....	.....	.....	211	81	19
47,746	24,817	300,451	.....	1,084	60,480	802,348	5,828	1,472,979	574,703	1,124	975	31	.....	.....	118	425	20
35,870	12,368	126,466	8,007	4,243	7,831	530,037	3,387	381,550	381,550	109	.....	.....	.....	.....	109	.....	21
41,090	16,736	127,703	.....	600	18,877	217,475	2,100	497,707	278,033	268	65	.....	.....	.....	203	178	22
49,888	28,718	116,316	0,000	5,922	4,848	150,602	4,110	480,121	325,400	38	2	.....	.....	.....	36	.....	23
5,900	1,848	23,825	.....	540	450	28,615	1,488	86,012	56,800	47	.....	.....	.....	.....	47	.....	24
228,411	176,826	1,574,959	11,806	9,488	349,201	3,173,398	127,591	6,336,353	3,035,364	5,432	4,050	.....	109	.....	1,273	2,715	25
46,377	7,284	145,223	.....	984	7,108	490,940	34,527	720,777	255,301	494	100	.....	.....	.....	394	.....	26
82,103	70,241	366,086	11,806	7,538	100,278	1,011,515	10,085	2,018,435	996,835	510	.....	.....	9	.....	501	.....	27
99,931	90,301	1,063,650	.....	966	241,005	1,730,934	82,979	3,597,141	1,733,228	4,428	3,950	.....	100	.....	378	2,715	28
140,935	53,032	681,633	4,309	4,180	47,570	1,362,279	35,935	3,034,140	1,635,920	1,870	1,090	.....	.....	.....	780	.....	29
64,924	20,340	250,803	2,565	300	30,028	52,540	187,807	839,446	599,009	1,632	1,577	.....	.....	.....	55	82	30
990	.....	18,754	.....	2,850	250	22,079	246	54,637	32,312	5	.....	.....	.....	.....	5	.....	31
84,268	42,420	260,692	.....	.....	364,572	552,624	94,051	2,407,440	1,760,765	1,154	1,142	.....	.....	.....	12	738	32
161,729	88,066	484,596	.....	9,913	98,493	2,253,820	42,312	3,864,528	1,568,390	2,360	1,064	.....	.....	.....	1,269	25	33
138,501	109,148	575,425	.....	3,030	55,900	1,080,052	37,882	3,407,956	1,384,022	2,103	300	.....	.....	.....	1,803	.....	34
51,752	11,229	129,083	.....	6,093	4,093	262,648	11,844	608,861	334,369	793	710	.....	.....	.....	83	150	35
29,752	8,684	94,917	.....	5,879	3,226	213,957	7,253	445,522	224,312	373	900	.....	.....	.....	73	150	36
22,000	2,545	34,166	.....	1,114	867	48,691	4,501	163,339	110,057	420	410	.....	.....	.....	10	.....	37
11,050	14,260	48,490	.....	2,124	28,642	202,692	8,122	505,497	294,683	142	8	.....	.....	.....	134	.....	38
34,292	17,657	36,062	.....	12,800	10,813	78,170	1,345	219,196	139,675	20	.....	.....	.....	.....	20	.....	39
72,419	41,443	105,465	75	2,856	647,852	528,039	42,930	1,778,432	1,207,463	293	280	.....	.....	.....	13	.....	40
.....	.....	6,759	69	1,007	98	25,068	145	48,000	22,247	3	.....	.....	.....	.....	3	.....	41
161,468	249,932	511,867	.....	1,224	120,087	4,526,096	34,192	6,634,319	2,074,031	323	306	.....	.....	.....	17	114	42
238,066	176,107	901,958	54,336	32,944	72,822	1,232,741	30,315	2,560,091	2,560,091	966	.....	.....	.....	.....	966	.....	43

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

<sup>2</sup> Same number reported throughout the year.

## MANUFACTURES—KENTUCKY.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

LOUISVILLE—Continued.															Dollars.	
1	Printing and publishing, newspapers and periodicals.	42	1,072	18	133	240	122	559	.....	.....	579	517	58	1	3	2,812,200
2	Printing and publishing.....	7	725	1	63	222	44	395	De <sup>a</sup> 398	Je <sup>a</sup> 394	398	376	21	1	.....	1,656,389
3	Printing, publishing, and job printing.	13	228	6	33	11	16	162	Au <sup>a</sup> 179	Ap <sup>a</sup> 139	178	138	37	.....	3	1,032,406
4	Publishing without printing....	22	119	11	37	7	62	2	(*) 2	(*) 2	3	3	.....	.....	.....	123,405
5	Saddlery and harness.....	19	474	13	19	64	14	364	Au <sup>a</sup> 373	De <sup>a</sup> 356	369	319	48	2	.....	1,294,554
6	Slaughtering and meat packing.	13	417	13	20	40	2	342	De <sup>a</sup> 347	Je <sup>a</sup> 339	341	333	8	.....	.....	1,378,308
7	Stoves and ranges.....	6	534	.....	26	50	4	454	De <sup>a</sup> 482	Ap <sup>a</sup> 427	482	458	24	.....	.....	1,246,575
8	Structural ironwork, not made in steel works or rolling mills.	7	115	2	9	12	2	90	Au <sup>a</sup> 93	Mh <sup>a</sup> 87	92	92	.....	.....	.....	360,514
9	Tobacco, chewing and smoking, and snuff.	8	2,034	3	23	98	48	1,862	Jy 2,012	Ja 1,728	1,862	1,066	796	.....	.....	19,273,610
10	Tobacco, cigars and cigarettes.....	29	730	26	24	21	5	654	De 768	Jy 591	768	161	607	.....	.....	1,338,627
11	All other industries*.....	206	12,471	116	584	1,126	630	10,015	.....	.....	11,116	8,961	2,025	40	100	68,468,450

* All other industries embrace—															
Agricultural implements.	3	Brass, bronze, and copper products.	7	Cordials and flavoring sirups.	2	Gas and electric fixtures.	1								
Artificial limbs.	2	Brick and tile, terra-cotta, and fire-clay products.	1	Cotton goods.	1	Gas machines.	1								
Artificial stone products.	2	Brushes.	1	Cutlery, scissors, shears, and clip-pers.	1	Glass, cutting, staining, and ornamenting.	3								
Automobiles.	1	Buttons.	1	Dental goods.	3	Glue, not elsewhere specified.	1								
Awnings, tents, and sails.	4	Carpets, rag.	1	Druggists' preparations.	2	Grease and tallow, not including lubricating greases.	3								
Bags, other than paper, not including bags made in textile mills.	1	Carriage and wagon materials.	2	Dyeing and finishing textiles, exclusive of that done in textile mills.	2	Hair work.	2								
Blacking, stains, and dressings.	1	Cars and general shop construction and repairs by electric-railroad companies.	1	Engraving and diesinking.	1	Hand stamps.	2								
Bluing.	1	Clocks.	1	Fertilizers.	2	Hardware.	1								
Bookbinding and blank-book making.	2	Clothing, women's.	8	Flour-mill and gristmill products.	3	Hats and caps, other than felt, straw, and wool.	2								
Boot and shoe findings.	2	Coffins, burial cases, and undertakers' goods.	3	Food preparations, not elsewhere specified.	1	Hats, fur-felt.	1								
Boots and shoes.	3	Cordage and twine.	1	Fur goods.	3	House-furnishing goods, not elsewhere specified.	1								
Boxes, cigar.	2			Furnishing goods, men's.	3										
Boxes, paper and other, not elsewhere specified.	4														

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

1	ASHLAND.	43	2,136	23	92	70	39	1,912	De 2,301	Je 1,253	2,376	2,128	242	2	4	14,977,559
2	HENDERSON.	31	1,116	21	42	54	32	967	Je 1,232	No 602	984	661	290	17	16	3,972,485
3	LEXINGTON.	170	1,656	157	109	136	83	1,171	No 1,327	Ja 1,050	1,346	1,120	222	4	.....	4,921,064
4	NEWPORT.	81	2,811	79	146	167	69	2,350	De 3,137	Se 1,262	3,158	2,705	437	9	7	14,537,336
5	OWENSBORO.	64	1,735	39	130	150	86	1,380	Oc 1,618	Ja 1,216	1,536	1,139	390	7	.....	6,164,889
6	PADUCAH.	78	4,053	69	131	201	56	3,596	Oc 4,044	Ja 3,177	4,085	3,413	623	4	45	6,811,124

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

# MANUFACTURES—KENTUCKY.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.						
333,017	330,412	686,956	113,617	22,110	48,782	1,010,627	47,853	3,590,056	2,531,576	1,068	100				908	1
181,227	264,985	538,696	.....	11,692	38,920	754,557	40,988	2,522,149	1,726,604	837	100				737	2
68,954	13,591	146,400	4,980	5,936	8,927	171,434	0,865	523,381	345,082	231					231	3
82,836	51,836	1,860	108,037	4,482	935	84,636	.....	544,526	459,890	.....						4
61,063	80,275	324,709	.....	9,144	22,628	2,040,187	14,340	3,127,547	1,073,020	316					316	5
69,355	71,080	320,792	4,528	2,720	48,868	7,987,803	57,349	9,958,808	1,913,566	875	836				89	6
83,182	62,753	433,064	.....	4,240	52,239	430,282	30,470	1,407,938	947,180	513					513	7
32,041	18,447	78,719	2,000	1,376	4,033	176,880	8,005	386,651	201,766	704					704	8
138,739	228,509	1,120,590	5,444	486	5,342,318	9,689,479	76,307	17,619,802	7,854,016	1,558	1,408				150	9
53,271	35,408	414,538	.....	14,139	266,728	933,622	0,183	1,983,749	1,043,944	119	60				59	10
2,092,383	2,214,843	9,581,720	17,057	119,472	2,927,171	62,235,855	1,201,995	91,775,339	28,337,489	27,101	13,152	600	64		13,285	11

Ink, printing.....	1	Musical instruments, organs.....	1	Saws.....	1	Toys and games.....	1
Iron and steel, steel works and rolling mills.....	1	Musical instruments, pianos.....	1	Scales and balances.....	2	Trunks and valises.....	2
Iron and steel, welding.....	2	Musical instruments, piano materials.....	1	Shipbuilding, wooden, including boat building.....	1	Upholstering materials, not elsewhere specified.....	1
Jewelry and instrument cases.....	1	Oil and cake, cottonseed.....	1	Signs and advertising novelties.....	1	Varnishes.....	4
Labels and tags.....	2	Oil, not elsewhere specified.....	3	Soap.....	1	Vinegar.....	4
Leather, tanned, curried, and finished.....	7	Paints.....	11	Sporting and athletic goods.....	1	Wall plaster and composition flooring.....	2
Lithographing.....	4	Petroleum, refining.....	2	Stamped and enameled ware, not elsewhere specified.....	2	Waste.....	1
Looking-glass and picture frames.....	2	Photo-engraving.....	2	Statuary and art goods.....	1	Window and door screens.....	3
Malt.....	1	Plumbers' supplies, not elsewhere specified.....	2	Steam packing.....	2	Window shades and fixtures.....	1
Mattresses and spring beds, not elsewhere specified.....	7	Pottery.....	1	Stencils and brands.....	2	Wirework, including wire rope and cable, not elsewhere specified.....	1
Millinery and lace goods, not elsewhere specified.....	3	Pumps, not including power pumps.....	1	Stereotyping and electrotyping.....	2	Wood, turned and carved.....	4
Mirrors, framed and unframed, not elsewhere specified.....	2	Roofing materials.....	1	Surgical appliances.....	3	Wool, scouring.....	1
		Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Textile machinery and parts.....	1	Woolen and worsted goods.....	2
				Tin foil.....	1		

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

267,935	123,335	2,443,470	701,058	6,582	258,144	10,438,240	1,406,700	15,963,475	4,058,475	35,426	25,248	510	412	.....	9,256	3,315	1
113,447	126,525	705,646	941	6,153	104,813	2,849,428	90,749	4,765,359	1,825,182	2,078	2,413	.....	3	.....	562	.....	2
241,448	179,430	1,226,697	53,490	93,377	179,275	4,816,404	113,933	8,570,495	3,640,158	4,042	893	187	696	.....	2,296	213	3
438,888	363,202	2,704,121	89,964	16,337	691,660	8,744,822	585,346	16,935,349	7,605,181	29,470	13,258	9,000	87	.....	1,125	3,611	4
272,811	212,203	1,004,973	32,015	19,462	418,093	4,558,945	134,876	8,634,737	3,940,916	4,205	2,411	.....	.....	.....	1,795	281	5
365,251	423,904	3,621,896	9,817	23,676	311,905	4,767,298	174,697	10,950,818	6,008,823	6,515	4,525	.....	63	.....	927	892	6

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

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