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FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

I O W A

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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, benevolent, and penal institutions.

Period covered.—The returns relate to the calendar year 1910, 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 1910 and 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1910, 1914, and 1909, therefore, does not show separately all the industries given for 1910 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 1910 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 1890 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 1910 and 1900. 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 1910 and 1914 is given.

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GENERAL STATISTICS.

General character of the state.—Iowa has a gross area of 56,147 square miles, of which 55,586 represent land surface. The inhabitants of the state in 1900 numbered 2,281,853; in 1910, 2,224,771; and in 1920, 2,404,021. In total population Iowa ranked sixteenth among the states in 1920. The number of inhabitants per square mile in 1910 was 40, the corresponding figures for 1920 being 43.2.

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

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

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

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

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

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 500 wage earners

in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products, for cities of 10,000 inhabitants or more (Table 6).—General increases from 1914 to 1919 are shown in most of the details for the 18 cities included in this table. During this period there was an increase of \$348,885,479, or 148.2 per cent, in the total value of products for these cities and 12,007, or 27.2 per cent, in average number of wage earners.

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

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined, and also for each of the 18 cities. The table also shows a number of industries in the state in 1919 which employed a large number of female wage earners. Of the total number of female wage earners in the state, 80.9 per cent were in the 18 cities, while of the male wage earners, only 67.7 per cent were reported by the cities.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in Iowa. In that year 17.4 per cent of the wage earners were included in the group "48 and under," as against 38 per cent in 1919. In 1914 the "60" and "over 60" groups constituted 44 per cent of the total wage earners, as compared with 19.5 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 97.5 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 44.6 per cent of the total number of wage earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 2.5 per cent of the total number of manufacturing establishments in the state, but reported 55.4 per cent of the total number of wage earners.

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

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

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

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 27.1 per cent of the number of establishments in the state in 1919, they reported 84.5 per cent of the average number of wage earners and 86.5 per cent of the total value of products. During the five-year period 1914 to 1919, the average number of wage earners in corporations increased 19,704, or 40.7 per cent, and the value of products, \$408,837,357, or 173.3 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in the 18 cities in 1919 represented 40.6 per cent of the total in the state. They reported in that year 69.7

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

Principal industries in Davenport, Des Moines, and Sioux City, with per cent of total for the state (Table 16).—This table includes all industries, in each of the three cities in the state having 50,000 inhabitants or more in 1920, which reported products of \$600,000 and over and for which figures can be shown without disclosing the operations of individual establishments. The names of a number of important industries are also given for which figures can not be shown without the possibility of disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 52,897 horsepower, or 27.8 per cent. This increase, however, is due to the gain of 62,309 horsepower, or 128.9 per cent, in rented power, since owned power decreased 9,412 horsepower, or 6.7 per cent, during the five-year period. Of the total horsepower in 1914, 73.5 per cent were owned power and 26.5 per cent rented. The corresponding proportions for 1919 were 53.6 per cent and 46.4 per cent, respectively.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. In 1919, five industries combined, brick and tile, terra-cotta, and fire-clay products, steam railroad-repair shops, cement, glucose and starch, and slaughtering and meat packing consumed 67.4 per cent of the bituminous coal; while 22.1 per cent of the anthracite coal, 60.2 per cent of the coke, and 69.4 per cent of the fuel oils were used in the manufacture of gas.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. ¹			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	5,683	5,614	5,528	4,785	4,828	1.2	1.6	15.5	-0.9
Persons engaged.....	105,439	82,631	78,860	61,361	(²)	27.6	5.5	27.7	.....
Proprietors and firm members.....	5,393	5,421	5,323	4,758	(²)	-0.5	1.8	11.9	.....
Salaried employees.....	19,495	14,097	11,402	7,122	5,150	38.3	23.6	60.1	38.0
Wage earners (average number).....	80,551	63,113	61,635	49,481	44,420	27.6	2.4	24.6	11.4
Primary horsepower.....	242,946	190,049	155,384	118,065	106,664	27.8	22.3	31.6	10.7
Capital.....	\$403,205,513	\$233,128,542	\$171,218,604	\$111,427,429	\$85,667,334	73.0	36.2	53.7	30.1
Salaries and wages.....	124,161,128	56,170,325	43,513,581	28,945,430	22,253,197	121.0	29.1	50.3	30.1
Salaries.....	34,043,900	18,310,815	10,971,650	5,948,377	4,232,544	108.7	48.7	84.4	40.5
Wages.....	90,117,169	39,859,510	32,541,931	22,997,053	18,020,653	126.1	22.5	41.5	27.8
Paid for contract work.....	1,470,139	993,326	968,827	961,910	(²)	48.0	2.5	0.7	.....
Rent and taxes.....	18,100,221	3,556,794	2,382,967	1,051,399	(²)	324.7	49.2	.....	.....
Cost of materials.....	520,240,807	205,451,339	170,707,048	102,843,892	85,778,887	153.2	20.4	66.0	19.9
Value of products.....	745,472,697	310,749,974	259,237,637	160,572,313	132,870,865	139.9	19.9	61.4	20.8
Value added by manufacture ⁴	225,231,890	105,298,635	88,530,589	57,728,421	47,091,998	113.9	18.9	53.4	22.6

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

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

COUNTY.	Number of establish- ments.	WAGE EARNERS.		Rent and taxes.	Cost of ma- terials.	Value of products.	Value added by manufac- ture.	Primary horse- power.
		Average number.	Wages.					
The state.....	5,083	80,551	\$90,117,160	\$15,100,221	\$520,210,807	\$745,472,607	\$225,231,890	242,916
Adair.....	14	23	23,902	1,046	150,673	210,653	53,980	121
Adams.....	9	9	7,334	974	50,236	81,028	30,702	70
Allamakee.....	53	173	106,795	5,708	1,361,145	1,838,443	477,298	875
Appanoose.....	51	219	217,191	22,560	788,082	1,211,212	423,130	906
Audubon.....	25	50	40,672	5,898	414,362	526,156	111,794	341
Benton.....	63	597	685,749	33,219	950,403	2,095,928	1,136,525	2,300
Black Hawk.....	240	5,023	6,227,128	309,599	26,121,815	39,450,011	13,328,166	12,129
Boone.....	57	1,013	1,349,223	81,226	1,183,389	3,201,718	2,018,329	2,243
Bremer.....	88	261	235,398	52,557	3,160,710	3,937,810	787,100	1,252
Buchanan.....	50	193	157,513	11,609	1,083,272	1,501,324	421,052	1,233
Buena Vista.....	58	146	153,701	43,740	575,881	901,680	415,709	642
Butler.....	39	103	75,381	9,122	981,113	1,182,221	201,108	491
Calhoun.....	37	80	81,576	21,848	378,357	722,011	343,654	253
Carroll.....	46	193	248,234	11,703	985,322	1,505,651	520,329	645
Cass.....	38	171	180,001	14,688	1,321,416	1,808,462	547,016	747
Cedar.....	33	51	47,732	13,312	783,498	953,402	160,004	486
Cerro Gordo.....	88	2,523	3,028,719	457,041	21,698,554	32,115,943	7,417,389	21,018
Cherokee.....	30	74	75,808	8,031	172,400	375,165	202,705	233
Chickasaw.....	33	70	70,814	10,404	1,255,718	1,524,333	268,615	638
Clarke.....	7	20	14,039	2,415	10,507	55,153	38,046	35
Clay.....	34	146	130,926	12,518	361,836	679,178	317,342	508
Clayton.....	62	433	471,402	14,805	2,567,133	3,357,171	700,038	1,032
Clinton.....	162	3,532	4,164,837	1,533,200	10,788,164	30,924,567	11,156,403	10,375
Crawford.....	21	98	137,575	13,475	589,497	867,988	287,491	400
Dallas.....	55	557	640,117	32,990	1,250,819	2,671,580	1,420,707	2,048
Davis.....	8	20	13,204	5,007	20,758	60,295	39,637	37
Decatur.....	19	61	54,801	4,315	405,738	516,493	110,755	131
Delaware.....	34	84	83,811	10,492	1,359,390	1,621,963	262,607	252
Des Moines.....	101	3,403	3,033,948	717,074	8,315,223	15,230,707	6,924,644	7,500
Dickinson.....	22	36	38,280	3,310	352,976	460,807	107,831	252
Dubuque.....	157	6,258	6,113,960	1,193,826	21,013,435	35,537,535	14,524,100	11,321
Emmet.....	24	283	407,010	18,150	514,701	1,085,709	571,008	510
Fayette.....	60	1,354	1,705,728	26,227	2,407,982	4,734,079	2,200,997	2,315
Floyd.....	32	900	1,221,878	35,225	3,427,920	7,055,448	4,227,328	3,651
Franklin.....	24	188	190,757	27,591	972,126	1,583,215	611,080	960
Fremont.....	24	56	57,583	3,973	135,010	256,801	121,791	439
Greene.....	23	60	71,783	10,977	225,296	491,150	265,854	323
Grundy.....	24	34	37,800	4,036	203,495	348,736	85,801	813
Guthrie.....	38	62	44,520	8,903	260,538	378,564	117,026	448
Hamilton.....	36	310	315,782	40,122	801,260	1,611,276	720,016	924
Hancock.....	27	36	44,405	5,887	635,532	750,207	114,875	353
Hardin.....	43	215	212,323	17,028	2,006,761	2,680,675	583,014	1,618
Harrison.....	29	525	601,358	9,356	689,360	1,453,271	772,905	487
Henry.....	32	99	02,525	9,763	417,773	661,719	243,946	684
Howard.....	34	108	89,043	7,041	1,236,101	1,434,323	108,132	347
Humboldt.....	21	80	60,282	4,607	401,744	570,616	108,872	505
Ida.....	20	34	31,336	6,169	135,381	252,143	110,702	213
Iowa.....	20	94	51,041	6,863	508,850	783,388	181,632	986
Jackson.....	39	119	115,336	8,780	912,665	1,200,843	297,178	469
Jasper.....	50	838	1,010,222	135,428	3,393,180	6,721,208	3,328,082	3,297
Jefferson.....	44	690	591,100	114,137	1,908,825	4,658,416	2,661,601	1,075
Johnson.....	59	337	281,044	30,878	947,205	1,820,687	882,482	962
Jones.....	41	201	201,307	22,574	1,517,452	2,043,094	525,642	1,265
Keokuk.....	37	155	145,347	5,010	311,146	706,964	395,818	715
Kossuth.....	52	160	171,693	14,313	1,180,112	1,545,632	385,620	596
Lee.....	120	3,812	4,157,508	772,179	17,226,309	27,551,394	10,325,085	14,195
Linn.....	251	6,370	6,506,070	2,412,605	72,802,057	93,109,278	20,300,821	20,204
Louisa.....	22	85	63,734	4,348	242,885	387,089	144,204	251
Lucas.....	26	99	88,324	8,133	420,728	662,106	242,378	377
Lyon.....	32	59	66,158	7,080	484,270	755,030	270,760	191
Madison.....	18	48	41,655	5,201	117,839	281,920	164,081	345
Mahaska.....	65	460	401,175	68,775	1,158,271	2,059,208	901,027	1,268
Marion.....	45	201	206,235	35,343	805,230	1,922,398	1,057,159	1,077
Marshall.....	75	1,376	1,547,119	155,031	5,280,850	9,070,827	3,782,077	2,839
Mills.....	35	68	70,248	11,071	279,295	457,419	178,123	479
Mitchell.....	37	67	60,050	7,487	1,034,578	1,251,597	217,019	369
Monona.....	19	29	27,221	2,313	212,593	311,477	98,884	209
Monroe.....	23	102	69,527	16,511	618,090	847,568	229,472	197
Montgomery.....	70	343	943,930	39,070	1,503,205	3,019,672	1,516,467	1,083
Muscatine.....	174	2,581	2,100,418	188,024	6,944,545	11,163,705	5,219,160	4,409
O'Brien.....	38	152	185,508	20,760	1,387,606	1,854,316	466,710	839
Oscoda.....	18	30	35,093	4,629	180,239	204,086	113,847	142
Page.....	58	276	291,005	90,095	1,720,070	2,824,478	1,104,408	2,014
Palo Alto.....	29	72	63,140	8,673	594,759	823,275	228,516	332
Plymouth.....	50	170	186,024	38,487	1,018,793	2,120,395	510,802	947
Pocahontas.....	20	98	143,634	10,611	518,220	835,970	317,741	1,749
Polk.....	397	8,232	8,446,957	1,728,071	34,273,603	61,989,556	27,715,803	18,541
Pottawattamie.....	146	1,940	2,634,188	229,821	5,922,013	11,147,966	5,225,353	4,303
Poweshiek.....	36	405	320,938	20,033	1,320,516	2,519,595	1,199,050	1,032
Ringgold.....	12	15	8,123	1,241	32,491	64,644	32,153	17
Sac.....	37	134	149,785	11,317	387,101	817,799	430,698	883
Scott.....	243	5,748	8,900,277	1,083,313	33,132,669	50,069,081	16,933,412	22,027
Shelby.....	22	61	56,582	8,408	216,607	361,382	144,775	221
Sioux.....	61	176	217,343	9,184	1,184,947	1,595,114	460,167	500
Story.....	66	274	840,902	31,813	1,446,473	2,103,905	657,522	1,213

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

COUNTY.	Number of establish- ments.	WAGE EARNERS.		Rent and taxes.	Cost of ma- terials.	Value of products.	Value added by manufac- ture.	Primary horse- power.
		Average number.	Wages.					
Tama.....	45	212	\$224,630	\$38,686	\$1,414,689	\$2,003,311	\$588,642	1,630
Taylor.....	19	45	35,415	11,118	132,770	231,970	99,200	57
Union.....	35	591	730,965	26,441	1,812,610	2,809,600	996,990	1,012
Van Buren.....	17	28	14,330	1,644	157,727	204,425	46,698	88
Wapello.....	110	2,810	3,186,903	1,025,270	36,687,053	45,575,291	8,888,238	5,893
Warren.....	16	48	47,252	2,261	118,490	214,712	96,222	339
Washington.....	52	244	216,031	17,137	619,587	1,307,006	687,419	732
Wayne.....	28	55	55,699	3,978	764,723	899,288	134,565	269
Webster.....	106	2,546	2,716,031	227,104	8,401,660	14,123,316	5,724,656	8,278
Winnebago.....	25	87	93,624	9,441	1,068,272	1,251,030	247,758	498
Winneshiek.....	45	223	223,470	15,726	2,086,040	2,682,628	596,588	1,064
Woodbury.....	282	6,784	8,997,538	1,343,985	125,492,151	146,680,197	21,254,046	14,940
Worth.....	18	254	415,145	3,570	863,377	1,363,734	500,357	457
Wright.....	37	240	317,255	8,318	633,130	1,108,880	475,750	488

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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	5,683	80,551	100.0	\$745,473	100.0	\$225,232	100.0	Tobacco, cigars.....	211	1,305	1.6	\$3,977	0.5	\$2,155	1.0
Slaughtering and meat packing.....	21	7,134	8.9	226,302	30.4	21,041	9.7	Clothing, men's.....	18	705	0.9	3,717	1.1	1,186	0.5
Butter.....	411	1,595	2.0	56,422	7.6	6,983	3.1	Furniture.....	36	894	1.1	3,457	0.5	1,818	0.8
Food preparations, not elsewhere specified.....	30	2,441	3.0	54,994	7.4	9,732	4.3	Dairymen's, poultrymen's, and apiculturists' supplies.....	12	434	0.5	3,177	0.4	1,308	0.6
Cars and general shop construction and repairs by steam-railroad companies.....	51	18,536	16.8	33,009	4.4	20,880	9.3	Stoves and hot-air furnaces.....	10	412	0.5	3,096	0.4	2,106	0.9
Glucose and starch.....	4	1,007	1.3	24,689	3.3	7,047	3.1	Druggists' preparations.....	15	234	0.3	3,070	0.4	1,059	0.5
Flour-mill and gristmill products.....	180	500	0.6	21,325	2.9	2,712	1.2	Boots and shoes.....	6	653	0.8	3,047	0.4	777	0.3
Printing and publishing, newspapers and periodicals.....	774	3,352	4.2	20,431	2.7	14,965	6.6	Artificial stone products.....	255	672	0.8	2,962	0.4	1,074	0.7
Bread and other bakery products.....	538	2,583	3.2	20,244	2.7	7,733	3.4	Wall plaster and composition flooring.....	7	884	1.1	2,626	0.4	1,786	0.8
Foundry and machine-shop products.....	198	3,529	4.4	18,545	2.5	10,475	4.7	Signs and advertising novelties.....	17	350	0.4	2,367	0.3	1,728	0.8
Engines, steam, gas, and water.....	17	2,739	3.4	17,611	2.4	8,716	3.9	Hardware.....	10	578	0.7	2,255	0.3	1,339	0.6
Lumber, planing-mill products, not including planing mills connected with sawmills.....	97	3,211	4.0	16,388	2.2	7,602	3.4	Pickles, preserves, and sauces.....	14	311	0.4	2,208	0.3	740	0.3
Confectionery and ice cream.....	182	1,739	2.2	11,535	1.5	4,064	2.1	Marble and stone work.....	58	244	0.3	2,160	0.3	1,138	0.5
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	47	689	0.9	11,450	1.5	1,684	0.7	Clothing, women's.....	10	503	0.6	2,069	0.3	924	0.4
Washing machines and clothes wringers.....	14	1,063	1.3	8,815	1.2	4,186	1.9	Mattresses and spring beds, not elsewhere specified.....	15	239	0.3	1,992	0.3	869	0.4
Brick and tile, terra-cotta, and fire-clay products.....	113	2,452	3.0	8,127	1.1	5,488	2.4	Fur goods.....	20	268	0.3	1,846	0.2	1,041	0.5
Cement.....	4	1,017	1.3	8,121	1.1	2,041	1.3	Ice, manufactured.....	46	504	0.6	1,841	0.2	1,309	0.6
Canning and preserving, fruits and vegetables.....	62	1,271	1.6	8,015	1.1	2,748	1.2	Automobile bodies and parts.....	37	460	0.6	1,713	0.2	807	0.4
Patent medicines and compounds.....	90	393	0.5	6,349	0.9	4,395	2.0	Structural ironwork, not made in steel works or rolling mills.....	17	224	0.3	1,699	0.2	690	0.3
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	9	839	1.0	6,333	0.8	2,614	1.2	Coffins, burlap cases, and undertakers' goods.....	8	318	0.4	1,649	0.2	777	0.3
Agricultural implements.....	26	906	1.1	5,959	0.8	3,137	1.4	Mineral and soda waters.....	103	207	0.3	1,633	0.2	807	0.4
Automobile repairing.....	579	1,355	1.7	5,807	0.8	3,475	1.5	Automobiles.....	6	104	0.1	1,584	0.2	431	0.2
Gas, illuminating and heating.....	68	727	0.9	5,738	0.8	3,095	1.4	Carriages and wagons, including repairers.....	60	399	0.5	1,544	0.2	903	0.4
Buttons.....	77	2,091	2.6	5,615	0.8	3,139	1.4	Gloves and mittens, leather.....	6	290	0.4	1,520	0.2	767	0.3
Printing and publishing, book and job.....	207	1,244	1.5	5,210	0.7	3,306	1.5	Tools, not elsewhere specified.....	17	343	0.4	1,468	0.2	820	0.4
Coffee, roasting and grinding.....	16	173	0.2	5,129	0.7	773	0.3	Boxes, paper and other, not elsewhere specified.....	10	238	0.3	1,438	0.2	459	0.2
Copper, tin, and sheet-iron work.....	120	803	1.0	5,062	0.7	2,428	1.1	Soap.....	7	82	0.1	1,427	0.2	434	0.2
Saddlery and harness.....	110	395	0.5	4,168	0.6	1,578	0.7	Pumps, steam and other power.....	4	323	0.4	1,379	0.2	733	0.3
								Perfumery and cosmetics.....	9	119	0.1	1,240	0.2	549	0.2
								Steam fittings and steam and hot-water heating apparatus.....	5	167	0.2	1,190	0.2	798	0.4
								Condensed milk.....	3	51	0.1	1,094	0.1	301	0.1
								Brooms, from broom corn.....	44	198	0.2	1,052	0.1	807	0.2
								All other industries ¹	528	9,045	11.2	56,421	7.6	23,984	10.6

¹ Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Cars, steam-railroad not including operations of railroad companies"; "oil, vegetable and composite"; and "phonographs and graphophones."

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

CLASS.	Cen-sus year.	Total			PER CENT OF TOTAL.		CLASS.	Cen-sus year.	Total			PER CENT OF TOTAL.				
			Male.		Female.					Male.		Female.				
			Male.	Female.	Male.	Female.				Male.	Female.	Male.	Female.			
All classes.....	1919	105,439	87,984	17,455	83.4	16.6	Clerks and other subordinate salaried employees.	1919	13,923	9,312	4,611	66.9	33.1			
	1914	82,631	70,211	12,420	85.0	15.0		1914	10,828	7,890	2,738	74.2	25.8			
	1909	75,360	60,202	12,158	84.5	15.5		1909	7,911	5,854	2,057	74.0	26.0			
Proprietors and officials.....	1919	10,905	10,502	373	96.0	3.4	Wage earners (average number).....	1919	80,551	68,090	12,471	84.5	15.5			
	1914	8,890	8,685	205	97.7	2.3		1914	63,113	53,036	9,477	85.0	15.0			
	1909	8,814	8,578	236	97.3	2.7		1909	61,036	51,770	9,303	84.0	16.0			
Proprietors and firm members.....	1919	5,303	5,200	184	96.6	3.4	16 years of age and over.....	1919	70,820	67,041	12,170	84.7	15.3			
	1914	5,421	5,263	158	97.1	2.9		1914	62,509	53,224	9,285	85.1	14.9			
	1909	5,323	5,137	186	96.5	3.5		1909	60,588	51,123	9,460	84.4	15.6			
Salaried officers of corporations.....	1919	1,883	1,819	64	96.6	3.4	Under 16 years of age.....	1919	731	439	292	60.1	39.9			
	1914	1,283	1,247	36	97.2	2.8		1914	604	412	192	68.2	31.8			
	1909	1,424	1,399	25	98.2	1.8		1909	1,047	642	405	61.3	38.7			
Superintendents and managers.....	1919	3,689	3,564	125	96.0	3.4										
	1914	2,180	2,175	11	99.5	0.5										
	1909	2,087	2,042	25	98.8	1.2										

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

INDUSTRY.	Cen-sus year.	Wage earners (aver-age number).			PER CENT OF TOTAL.		INDUSTRY.	Cen-sus year.	Wage earners (aver-age number).			PER CENT OF TOTAL.				
			16 years of age and over.		Under 16 years of age.					Male.		Male.				
			Male.	Female.	Male.	Female.				Male.	Female.	Male.	Female.			
All industries.....	1919	80,551	84.0	15.1	0.9		Food preparations, not elsewhere specified.....	1919	2,441	77.4	22.5	0.1				
	1914	63,113	84.3	14.7	1.0			1914	1,371	72.0	23.6	3.4				
	1909	61,035	83.0	15.3	1.7		Foundry and machine-shop products ^a	1919	3,548	97.7	2.0	0.3				
Agricultural implements.....	1919	906	90.7	2.3	1.0			1914	3,085	98.5	1.3	0.2				
	1914	1,104	99.7	0.1	0.2		Furniture.....	1919	894	91.2	8.3	0.6				
Artificial stone products.....	1919	672	99.4	0.3	0.3			1914	1,108	98.7	1.1	0.2				
	1914	800	99.6	0.2	0.1		Gas, illuminating and heating.....	1919	727	99.6	0.4	.....			
Automobile repairing.....	1919	1,355	98.8	1.1	0.1			1914	708	100.0	.....	.....		
	1914	200	100.0	.....	.....		Glucose and starch ^b	1919	1,007	95.7	4.3	.....			
Boots and shoes.....	1919	653	49.3	48.5	2.1		Hardware.....	1919	578	86.0	13.8	0.2				
	1914	389	54.0	41.0	4.4			1914	543	88.8	10.5	0.7				
Bread and other bakery products.....	1919	2,583	63.0	33.7	3.3		Ice, manufactured.....	1919	504	98.8	1.2	.....			
	1914	2,182	73.2	25.6	1.2			1914	192	99.5	0.5	.....			
Brick and tile, terra-cotta, and fire-clay products.....	1919	2,452	99.6	0.1	0.3		Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	3,211	95.3	4.0	0.7				
	1914	3,103	99.6	(1)	0.4			1914	2,970	99.4	0.1	0.4				
Butter.....	1919	1,595	86.5	13.0	0.5		Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	1919	689	79.0	20.3	0.7				
	1914	1,274	87.8	12.0	0.2			1914	481	86.9	11.6	1.5				
Buttons.....	1919	2,001	62.5	34.0	3.6		Printing and publishing, book and job.....	1919	1,244	65.0	32.1	2.9				
	1914	2,400	70.0	28.7	0.7			1914	1,303	70.0	27.8	2.2				
Canning and preserving, fruits and vegetables.....	1919	1,271	61.4	38.2	0.5		Printing and publishing, newspapers and periodicals.....	1919	3,352	71.9	25.1	3.0				
	1914	904	55.5	42.3	2.2			1914	3,397	73.7	23.8	2.5				
Cars and general shop construction and repairs by steam-railroad companies.....	1919	13,530	99.4	0.6	(1)		Rubber tires, tubes, and rubber goods, not elsewhere specified. ^c	1919	839	92.8	7.2	.....			
	1914	8,024	100.0	(1)	(1)											
Cement ^d	1919	1,017	98.6	1.4	.....		Slathering and meat packing.....	1919	7,134	89.7	10.1	0.2			
	1914	1,510	42.4	55.4	2.2			1914	4,413	92.3	6.5	1.1				
Clothing, men's.....	1919	705	7.4	91.8	0.9		Tobacco, cigars.....	1919	1,305	41.0	56.2	1.9				
	1914	880	0.0	92.0	1.4			1914	1,602	54.2	42.4	3.5				
Clothing, women's.....	1919	503	25.4	74.6	.....		Wall plaster and composition flooring.....	1919	884	99.8	.....	0.2		
	1914	503	22.7	76.9	0.4			1914	599	100.0	.....	.....		
Confectionery and ice cream.....	1919	1,730	43.1	54.5	2.4		Washing machines and clothes wringers.....	1910	1,063	98.6	1.1	0.3				
	1914	1,510	42.4	55.4	2.2			1914	375	97.0	1.0	0.5				
Copper, tin, and sheet-iron work.....	1919	803	97.5	1.7	0.7		All other industries.....	1910	16,002	76.2	22.3	1.5				
	1914	558	96.2	3.8	.....			1914	14,846	82.2	16.7	1.1			
Engines, steam, gas, and water.....	1919	2,730	98.8	1.1	0.1											
	1914	1,107	100.0	.....	.....									
Flour-mill and gristmill products.....	1919	500	98.8	0.8	0.4											
	1914	790	90.3	9.7	.....										

¹ Less than one-tenth of 1 per cent.

² Not shown separately in 1914.

³ Includes "iron and steel, tempering, welding, etc."

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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	
	1919	1914	1909	1919	1914	1909	1919	1914	1919	1914	1909	1919	1914	1909	1919	1914	1909
Boone.....	369	256	166	257	152	132	105	102	31	7	2	3	\$1,549,637	\$908,073	\$469,098	
Burlington.....	2,274	1,246	3,191	1,525	1,080	2,660	707	1,528	487	42	138	44	12,090,058	1,6,865,055	8,443,296	
Cedar Rapids.....	6,284	4,304	3,505	5,279	3,671	2,795	936	672	674	19	51	41	62,118,386	34,988,338	24,824,338	
Clinton.....	3,452	2,679	2,414	2,960	2,290	2,156	469	362	217	14	27	41	30,321,143	10,427,432	7,479,515	
Council Bluffs.....	1,891	1,336	1,434	1,575	1,036	1,207	314	277	222	2	23	5	10,610,964	4,279,165	3,768,508	
Davenport.....	3,928	3,953	4,231	2,880	952	3,203	1,010	976	956	38	30	72	32,587,229	17,172,963	18,801,842	
Des Moines.....	7,085	5,308	5,383	5,310	4,194	4,208	1,628	1,075	1,067	147	37	108	59,580,054	23,746,551	23,584,067	
Dubuque.....	6,147	5,171	5,160	5,016	4,071	4,153	1,074	1,043	955	57	57	52	34,277,085	14,114,143	15,249,199	
Fort Dodge.....	1,605	951	1,115	1,209	695	834	305	238	252	1	18	20	10,884,039	4,871,421	2,975,459	
Fort Madison.....	1,029	—	—	819	—	—	208	—	—	2	—	—	4,836,291	—	—	
Iowa City.....	322	350	282	230	234	206	92	114	76	—	2	—	1,767,313	1,333,106	805,046	
Keokuk.....	1,598	1,333	1,541	1,272	1,046	1,181	301	262	334	25	25	26	17,554,816	8,250,274	7,398,733	
Marshalltown.....	1,338	1,060	1,365	1,178	974	1,207	156	85	132	4	1	26	8,642,468	5,149,585	4,821,805	
Mason City.....	2,367	2,054	807	2,285	1,995	766	112	55	41	20	4	—	29,512,534	11,742,466	2,880,732	
Muscatine.....	2,522	2,397	3,406	1,895	1,781	2,618	552	584	759	75	32	119	10,753,750	5,009,485	6,165,866	
Ottumwa.....	2,601	2,447	2,650	2,133	1,944	2,025	454	471	546	14	32	70	45,028,524	21,299,929	14,888,315	
Sioux City.....	6,749	4,753	3,750	5,738	3,954	3,293	1,001	749	412	10	50	45	146,393,134	49,470,444	37,424,450	
Waterloo.....	4,620	3,483	3,124	4,143	3,183	2,712	421	297	409	56	3	3	35,481,225	14,126,178	8,999,420	

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

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

MONTH.	NUMBER. ¹			PER CENT OF MAXIMUM.			MONTH.	NUMBER. ¹			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	75,556	61,051	55,649	88.0	90.0	81.8	July.....	81,343	63,519	62,215	94.8	93.6	91.5
February.....	75,141	60,850	56,081	87.6	89.7	82.5	August.....	83,928	67,845	66,408	97.8	100.0	97.7
March.....	75,692	62,144	57,912	88.2	91.6	85.2	September.....	85,417	67,085	68,006	99.5	98.9	100.0
April.....	76,185	62,970	60,328	88.8	92.8	88.7	October.....	84,496	63,039	64,097	98.5	93.8	94.3
May.....	77,980	62,982	61,440	90.9	92.8	90.3	November.....	85,825	60,946	62,895	100.0	89.8	92.5
June.....	79,963	63,658	62,581	93.2	93.8	92.0	December.....	85,088	60,661	62,018	99.2	89.4	91.2

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

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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.											Per cent minimum is of maximum.	
		Jan.- uary.	Febr.- uary.	March.	April.	May.	June.	July.	August.	Sep-t tember.	Octo ber.	Novem ber.	Decem ber.	
All industries.....	80,551	75,556	75,141	75,692	76,185	77,980	79,963	81,343	83,928	85,417	84,496	85,825	85,086	87.6
Males.....	68,080	63,783	63,785	64,668	65,501	66,501	68,728	69,012	70,945	70,808	70,866	71,994	71,459	88.6
Females.....	12,471	11,776	11,376	11,028	11,054	11,419	11,693	11,731	13,188	14,609	13,630	13,831	13,627	75.5
Agricultural implements.....	906	886	913	924	915	881	892	900	854	856	900	951	991	86.2
Artificial stone products.....	672	511	343	446	699	771	824	846	927	938	825	645	489	33.2
Automobile repairing.....	1,355	1,110	1,139	1,204	1,329	1,371	1,453	1,508	1,532	1,497	1,407	1,377	1,324	73.0
Boots and shoes.....	653	628	648	653	674	668	701	683	659	633	621	610	658	87.0
Bread and other bakery products.....	2,583	2,439	2,301	2,227	2,389	2,457	2,599	2,625	2,688	2,709	2,735	2,881	2,856	77.3
Brick and tile, terra-cotta, and fire-clay products.....	2,452	1,104	1,223	1,008	2,470	2,872	3,103	3,131	3,189	3,144	2,995	2,642	1,733	34.5
Butter.....	1,595	1,321	1,200	2,813	1,470	1,680	1,881	1,784	1,713	1,774	1,745	1,701	1,568	66.1
Buttons.....	2,091	2,040	2,070	2,145	1,976	1,939	1,959	1,983	2,030	2,005	2,184	2,284	2,497	77.7
Canning and preserving, fruits and vegetables.....	1,271	370	326	372	357	441	478	494	4,302	5,365	1,591	779	377	6.1
Cars and general shop construction and repairs by steam-railroad companies.....	13,536	13,836	13,818	13,506	13,885	13,420	18,157	13,248	13,187	13,330	13,611	13,828	14,037	93.7
Cement.....	1,017	636	538	704	976	1,083	1,182	1,191	1,275	1,310	1,283	1,160	959	40.9
Clothing, men's.....	705	622	627	601	592	653	600	766	777	755	781	792	844	66.5
Clothing, women's.....	503	486	487	509	474	467	486	483	502	525	556	529	532	84.0
Confectionery and ice cream.....	1,730	1,557	1,594	1,559	1,020	1,666	1,753	1,690	1,818	1,935	1,879	1,986	1,821	77.1
Copper, tin, and sheet-iron work.....	803	788	720	654	714	716	769	813	844	867	916	911	924	70.8
Engines, steam, gas, and water.....	2,739	3,063	3,390	3,538	3,165	3,030	3,065	3,003	1,489	1,619	2,116	2,485	2,906	42.1
Flour-mill and gristmill products.....	509	518	507	503	498	477	476	484	497	542	560	578	525	82.5
Food preparations, not elsewhere specified.....	2,441	2,596	2,071	1,886	1,710	1,886	2,053	2,316	2,827	2,995	2,945	3,173	2,754	53.9
Foundry and machine-shop products.....	3,520	3,559	3,384	3,354	3,360	3,427	3,441	3,519	3,403	3,509	3,771	3,870	3,971	84.1
Furniture.....	894	730	762	801	821	848	869	903	931	974	1,011	1,043	1,035	70.0
Gas, illuminating and heating.....	727	727	696	714	732	729	711	718	728	748	730	741	750	92.8
Glucose and starch.....	1,007	1,431	1,254	1,061	1,253	1,272	823	834	849	856	869	809	765	53.3
Hardware.....	578	469	491	470	495	529	547	632	684	714	748	717	653	65.3
Ice, manufactured.....	304	585	521	479	322	405	577	717	712	636	503	349	518	43.7
Lumber, planing-mill products, not including planing mills connected with sawmills.....	3,211	2,451	2,086	2,754	2,864	3,045	3,308	3,483	3,555	3,544	3,587	3,633	3,622	67.5

MANUFACTURES—IOWA.

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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.	
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	680	658	297	551	374	410	511	449	494	734	1,004	1,438	1,648	15.2
Printing and publishing, book and job.	1,244	1,170	1,177	1,187	1,187	1,208	1,209	1,228	1,230	1,255	1,317	1,358	1,402	83.5
Printing and publishing, newspapers and periodicals.	3,352	3,176	3,237	3,290	3,302	3,266	3,271	3,296	3,311	3,220	3,523	3,550	3,764	84.4
Rubber tires, tubes, and rubber goods, not elsewhere specified.	830	540	687	700	783	814	844	911	903	958	995	910	903	54.3
Slaughtering and meat packing.	7,134	8,170	7,757	7,499	6,706	6,715	7,104	7,151	6,487	6,032	6,641	7,292	8,054	73.8
Tobacco, cigars.	1,305	1,252	1,206	1,302	1,203	1,208	1,243	1,230	1,320	1,346	1,364	1,384	1,353	88.9
Wall plaster and composition flooring.	884	577	590	638	712	787	854	1,011	1,074	1,070	1,113	1,160	1,022	49.7
Washing machines and clothes wringers.	1,063	915	967	1,004	1,041	1,072	1,068	1,091	1,075	1,084	1,100	1,154	1,185	77.2
All other industries.	16,021	15,096	15,295	15,598	15,557	15,711	16,070	16,316	16,048	15,005	16,633	17,104	16,739	87.8
<i>Industries showing large proportion of females.</i>														
Boots and shoes.	321	315	320	325	333	317	325	318	311	313	308	336	317	91.7
Bread and other bakery products.	890	897	831	790	822	871	912	901	926	930	969	1,007	980	72.5
Butter.	207	138	112	116	135	250	288	228	214	274	244	227	199	38.9
Buttons.	768	733	776	783	758	750	742	700	730	711	753	818	857	83.0
Canning and preserving, fruits and vegetables.	486	96	83	89	84	110	111	116	1,705	2,325	701	260	92	3.6
Clothing, men's.	652	573	575	510	542	601	637	711	721	701	726	736	783	66.3
Clothing, women's.	375	358	357	374	346	341	358	356	373	398	420	405	405	70.5
Confectionery and ice cream.	954	913	929	860	879	881	870	781	898	1,061	1,060	1,213	1,076	64.4
Food preparations, not elsewhere specified.	550	640	398	313	261	328	380	494	757	740	748	858	874	30.4
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	143	113	83	39	83	104	128	93	104	173	225	308	313	10.5
Printing and publishing, book and job.	411	398	303	392	387	301	384	394	393	401	448	461	490	78.4
Printing and publishing, newspapers and periodicals.	880	861	900	895	802	860	858	850	834	717	933	953	1,112	64.5
Slaughtering and meat packing.	722	787	740	720	674	700	715	707	683	688	689	750	804	83.1
Tobacco, cigars.	743	732	757	746	728	722	703	687	705	707	775	793	761	80.6
Total for cities.	56,181	53,402	53,221	53,330	52,701	54,240	50,170	57,254	56,552	57,133	58,722	60,532	60,727	86.9
Males.	46,007	43,656	43,006	44,087	43,577	44,763	46,528	47,523	46,155	46,394	47,906	49,246	49,633	87.8
Females.	10,084	9,835	9,528	9,243	9,214	9,477	9,648	9,731	10,397	10,730	10,816	11,286	11,064	81.6
BOONE.	389	371	357	350	359	352	350	380	375	370	366	375	381	377
Males.	261	282	251	251	251	250	250	262	276	274	272	273	203	88.4
Females.	108	109	106	108	109	106	106	124	113	104	92	103	108	74.2
BURLINGTON.	2,274	2,024	2,078	2,158	2,132	2,246	2,203	2,305	2,372	2,344	2,460	2,470	2,487	81.4
Males.	1,514	1,370	1,306	1,430	1,422	1,620	1,487	1,574	1,645	1,620	1,670	1,675	1,713	80.0
Females.	730	654	682	722	710	720	716	731	727	724	700	804	774	81.3
CEDAR RAPIDS.	6,284	6,840	6,201	5,699	5,087	5,935	6,034	6,246	6,535	6,050	6,534	6,542	6,402	82.7
Males.	5,293	5,717	5,200	4,937	4,050	5,157	5,203	5,200	5,356	5,421	5,373	5,381	5,477	86.4
Females.	939	1,123	911	723	728	828	831	930	1,179	1,229	1,161	1,161	1,015	58.7
CLINTON.	3,452	3,184	3,247	3,072	3,245	3,428	3,527	3,400	3,625	3,088	3,083	3,727	3,658	82.4
Males.	2,981	2,719	2,706	2,724	2,807	2,900	3,013	3,048	3,139	3,176	3,187	3,118	3,118	85.3
Females.	471	465	451	348	438	408	484	435	477	499	507	540	64.4	
COUNCIL BLUFFS.	1,891	1,689	1,757	1,756	1,805	1,848	1,890	1,983	2,007	2,065	2,018	1,958	1,046	81.8
Males.	1,577	1,403	1,413	1,402	1,494	1,615	1,573	1,606	1,682	1,710	1,677	1,636	1,063	82.0
Females.	314	286	314	294	311	333	317	287	325	355	341	322	283	79.7
DAVENPORT.	3,928	3,671	3,718	3,724	3,085	3,721	3,805	3,785	3,927	4,027	4,130	4,461	4,482	81.9
Males.	2,897	2,653	2,713	2,747	2,733	2,770	2,800	2,842	2,891	2,950	3,016	3,270	3,298	80.4
Females.	1,031	1,018	1,005	977	952	942	930	943	1,030	1,071	1,114	1,191	1,184	78.8
DES MOINES.	7,085	6,320	6,239	6,510	6,054	6,748	7,137	7,195	7,366	7,425	7,873	7,950	7,594	78.4
Males.	5,429	4,761	4,696	4,953	5,078	5,166	5,407	5,573	5,770	5,775	6,098	6,102	5,708	77.0
Females.	1,056	1,659	1,649	1,557	1,576	1,582	1,070	1,022	1,590	1,640	1,775	1,867	1,886	81.8
DUBUQUE.	6,147	5,687	5,805	5,061	5,643	5,846	6,040	6,218	6,406	6,480	6,548	6,770	6,754	82.5
Males.	5,036	4,492	4,728	4,015	4,004	4,785	4,955	5,107	5,284	5,320	5,417	5,551	5,574	80.6
Females.	1,111	1,095	1,077	1,046	1,059	1,061	1,001	1,111	1,122	1,160	1,181	1,219	1,180	85.2
FORT DODGE.	1,603	1,327	1,198	1,263	1,280	1,398	1,500	1,694	1,804	1,913	1,983	1,988	1,845	60.3
Males.	1,300	1,010	969	1,030	1,036	1,135	1,238	1,444	1,517	1,569	1,612	1,602	1,446	59.7
Females.	305	308	236	233	253	261	262	250	347	354	371	386	399	58.4
FORT MADISON.	1,020	825	878	952	960	957	1,018	1,081	1,135	1,113	1,187	1,180	1,099	
Males.	819	677	720	757	748	761	705	806	902	886	871	911	933	72.6
Females.	210	148	158	195	212	196	222	215	233	227	241	226	247	59.9
IOWA CITY.	322	251	259	203	270	270	308	347	387	390	383	387	360	64.4
Males.	230	176	190	188	195	204	227	257	262	260	264	272	256	64.7
Females.	92	75	69	75	75	81	90	125	121	90	115	104	104	55.2
KEOKUK.	1,598	1,478	1,400	1,514	1,523	1,527	1,547	1,636	1,620	1,648	1,704	1,793	1,690	82.4
Males.	1,280	1,154	1,169	1,107	1,235	1,242	1,245	1,354	1,328	1,349	1,392	1,446	1,354	79.6
Females.	300	324	327	317	288	285	302	282	292	312	344	336	320	82.0
MARSHALLTOWN.	1,338	1,180	1,170	1,204	1,195	1,203	1,202	1,373	1,371	1,555	1,498	1,506	1,527	76.6
Males.	1,182	1,094	1,058	1,058	1,048	1,056	1,115	1,224	1,220	1,329	1,296	1,320	1,358	77.2
Females.	156	95	112	146	147	148	147	148	142	230	202	186	109	41.3
MASON CITY.	2,367	1,851	1,608	2,085	2,267	2,490	2,704	2,688	2,588	2,521	2,486	2,478	2,545	62.6
Males.	2,253	1,732	1,592	1,001	2,170	2,384	2,574	2,564	2,474	2,405	2,371	2,355	2,421	61.8
Females.	114	110	100	94	94	115	130	114	116	115	120	124	124	72.3
MUSCATINE.	2,522	2,180	2,308	2,423	2,380	2,387	2,451	2,547	2,762	2,677	2,642	2,723	2,834	76.9
Males.	1,920	1,623	1,733	1,833	1,780	1,811	1,871	1,907	2,120	2,051	2,036	2,085	2,190	74.1
Females.	602	557	575	590	550	576	580	640	642	626	606	638	644	85.4
OTTUMWA.	2,001	2,572	2,500	2,578	2,378	2,455	2,638	2,603	2,554	2,555	2,645	2,803	2,867	82.9
Males.	2,142	2,110	2,105	2,125										

MANUFACTURES—IOWA.

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. ¹	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	80,551	1,411	4,484	24,733	6,657	15,543	12,013	12,996	2,714
	1914	63,113	(2)	(2)	10,966	4,210	12,484	7,682	22,800	2,991
	1909	61,635	(2)	(2)	6,594	2,034	8,072	11,125	27,049	5,861
Agricultural implements.....	1919	908	76	2	213	204	315	96	.....	.....
	1914	1,164	(2)	(2)	1	141	37	405	580	.....
Artificial stone products.....	1919	672	10	.....	64	11	134	34	419	.....
	1914	809	(2)	(2)	41	21	168	32	547	.....
Automobile repairing.....	1919	1,355	4	.....	165	20	303	32	717	16
	1914	200	(2)	(2)	9	.....	32	14	140	5
Boots and shoes.....	1919	653	.....	.....	1	146	265	242	243	145
	1914	389	(2)	(2)	.....	.....	.....	.....	.....	.....
Bread and other bakery products.....	1919	2,583	35	345	447	353	504	46	732	121
	1914	2,182	(2)	(2)	97	115	288	588	936	158
Brick and tile, terra-cotta, and fire-clay products.....	1919	2,452	.....	.....	152	5	553	21	1,721	.....
	1914	3,163	(2)	(2)	118	12	487	19	2,423	104
Butter.....	1919	1,595	44	5	447	14	236	127	667	55
	1914	1,274	(2)	(2)	158	37	106	16	774	183
Buttons.....	1919	2,091	45	2	1	615	333	989	102	4
	1914	2,406	(2)	(2)	8	362	684	824	553	.....
Canning and preserving, fruits and vegetables.....	1919	1,271	15	.....	32	7	85	44	802	226
	1914	904	(2)	(2)	78	38	1	.....	598	194
Cars and general shop construction and repairs by steam-railroad companies.....	1919	13,536	.....	3,656	6,461	.....	479	2,940	.....	.....
	1914	8,024	(2)	(2)	4,301	676	106	10	154	711
Cement ²	1919	1,017	.....	.....	.....	.....	230	.....	.....	787
Clothing, men's.....	1919	705	242	40	73	242	108	.....	.....	.....
	1914	880	(2)	(2)	188	386	65	157	84	.....
Clothing, women's.....	1919	503	.....	28	67	408	.....	.....	.....	.....
	1914	503	.....	.....	171	25	341	26	.....	.....
Confectionery and ice cream.....	1919	1,739	6	1	201	347	274	252	552	106
	1914	1,519	(2)	(2)	27	2	172	277	895	146
Copper, tin, and sheet-iron work.....	1919	803	41	.....	271	52	369	26	44	.....
	1914	558	(2)	(2)	74	78	215	26	165	.....
Engines, steam, gas, and water.....	1919	2,739	.....	4	584	.....	1,005	383	763	.....
	1914	1,197	(2)	(2)	456	.....	602	59	80	.....
Flour-mill and gristmill products.....	1919	509	3	.....	112	9	30	3	264	88
	1914	780	(2)	(2)	26	2	15	.....	655	92
Food preparations, not elsewhere specified.....	1919	2,441	1	.....	1,717	28	33	243	238	186
	1914	1,371	(2)	(2)	9	3	4	26	427	902
Foundry and machine-shop products ⁴	1919	3,548	28	9	238	179	1,506	807	685	6
	1914	3,085	(2)	(2)	39	209	619	837	1,380	1
Furniture.....	1919	894	40	.....	160	412	220	20	42	.....
	1914	1,106	.....	.....	27	588	266	215	80	.....
Gas, illuminating and heating.....	1919	727	3	.....	68	7	173	162	46	268
	1914	768	(2)	(2)	27	.....	14	126	322	270
Glucose and starch ³	1919	1,007	.....	.....	.....	.....	479	.....	.....	528
Hardware.....	1919	578	4	.....	1	12	499	83	40	.....
	1914	543	(2)	(2)	1	132	142	83	186	.....
Ice, manufactured.....	1919	504	.....	.....	14	4	126	203	111	46
	1914	192	(2)	(2)	2	.....	1	18	84	87
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	3,211	5	.....	78	120	2,852	40	616	.....
	1914	2,970	(2)	(2)	187	15	549	270	1,940	.....
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	1919	680	.....	.....	6	.....	56	20	607	.....
	1914	481	(2)	(2)	8	16	47	.....	359	51
Printing and publishing, book and job.....	1919	1,244	10	10	1,052	54	108	10	.....	.....
	1914	1,303	(2)	(2)	731	149	388	17	18	.....
Printing and publishing, newspapers and periodicals.....	1919	3,352	29	12	2,074	353	596	223	65	.....
	1914	3,397	(2)	(2)	1,486	359	1,003	313	228	8
Rubber tires, tubes, and rubber goods, not elsewhere specified ³	1919	839	.....	.....	385	64	150	240	.....	.....
Slaughtering and meat packing.....	1919	7,134	136	.....	5,190	.....	26	41	1,741	.....
	1914	4,413	(2)	(2)	7	.....	207	.....	4,194	5
Tobacco, cigars.....	1919	1,305	126	13	529	454	129	26	24	4
	1914	1,662	(2)	(2)	975	398	224	11	54	.....
Wall plaster and composition flooring.....	1919	884	.....	.....	865	.....	15	4	.....	.....
	1914	599	.....	.....	.....	.....	273	326	.....	.....
Washing machines and clothes wringers.....	1919	1,063	.....	.....	.....	83	402	555	106	.....
	1914	375	.....	.....	.....	.....	217	21	104	.....
All other industries.....	1919	16,002	584	283	3,278	2,519	3,920	3,407	1,737	274
	1914	14,840	(2)	(2)	1,916	928	3,215	2,657	4,225	2,005

¹ Includes 48 and under for 1914 and 1909.
² Corresponding figures not available.³ Not shown separately in 1914.⁴ Includes "iron and steel, tempering, welding, etc."

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. ¹	Between 48 and 64.	54.	Between 54 and 60.	60.	Over 60.
Total for cities.....	1910	56,181	1,148	3,509	18,184	5,676	12,010	6,610	6,960	2,066
	1914	44,174	(2)	(2)	7,716	2,012	8,124	5,665	15,751	4,000
BOONE.....	1910	369	2	-----	266	3	71	16	6	5
	1914	256	(2)	(2)	59	9	20	77	70	21
BURLINGTON.....	1910	2,274	102	34	562	1,238	137	31	72	8
	1914	2,210	(2)	(2)	373	85	299	279	1,176	34
CEDAR RAPIDS.....	1910	6,284	10	52	4,309	297	748	205	400	263
	1914	4,394	(2)	(2)	917	54	345	310	1,466	1,303
CLINTON.....	1910	3,452	5	104	1,625	283	771	401	70	4
	1914	2,670	(2)	(2)	611	280	225	620	574	369
COUNCIL BLUFFS.....	1910	1,891	50	132	133	14	146	709	538	79
	1914	1,336	(2)	(2)	218	113	106	135	570	185
DAVENPORT.....	1910	3,928	374	13	641	350	807	499	970	184
	1914	3,058	(2)	(2)	968	501	639	472	1,171	207
DES MOINES.....	1910	7,085	338	437	2,897	790	1,780	566	201	67
	1914	5,306	(2)	(2)	1,078	318	1,922	687	1,026	265
DUBUQUE.....	1910	6,147	-----	1,300	448	525	2,902	503	370	-----
	1914	5,171	(2)	(2)	1,202	180	942	596	2,142	109
FORT DODGE.....	1910	1,605	2	-----	346	10	393	439	396	19
	1914	951	(2)	(2)	29	49	160	261	400	62
FORT MADISON ²	1910	1,020	14	77	461	205	32	78	8	64
IOWA CITY.....	1910	322	12	-----	124	42	122	-----	14	8
	1914	350	(2)	(2)	59	88	108	19	50	20
KEOKUK.....	1910	1,598	3	3	126	77	260	484	273	372
	1914	1,333	(2)	(2)	101	114	132	148	522	316
MARSHALLTOWN.....	1910	1,338	3	-----	554	58	340	98	271	14
	1914	1,060	(2)	(2)	80	151	401	50	358	20
MASON CITY.....	1910	2,307	4	137	707	24	25	154	547	709
	1914	2,054	(2)	(2)	103	66	235	5	750	805
MUSCATINE.....	1910	2,522	6	-----	125	346	656	986	305	8
	1914	2,307	(2)	(2)	226	305	442	503	709	2
OTTUMWA.....	1910	2,601	-----	-----	1,405	665	403	21	73	34
	1914	2,417	(2)	(2)	94	103	450	48	1,637	55
SIOUX CITY.....	1910	6,740	125	352	2,671	520	584	241	2,101	95
	1914	4,753	(2)	(2)	952	240	402	637	2,367	95
WATERLOO.....	1910	4,020	8	688	784	130	1,743	909	188	73
	1914	3,483	(2)	(2)	610	136	1,246	718	680	48

¹ Includes 48 and under for 1914 and 1909.

² Corresponding figures not available.

⁸ Not shown separately in 1914.

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

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.	6 to 20 wage earners, inclusive.	21 to 50 wage earners, inclusive.	51 to 100 wage earners, inclusive.	101 to 250 wage earners, inclusive.	251 to 500 wage earners, inclusive.	501 to 1,000 wage earners, inclusive.	Over 1,000 wage earners.								
All industries.....	5,683	80,551	770	3,492	7,101	813	8,921	322	10,468	135	9,470	96	15,048	25	8,650	12	8,878	9	12,015
Agricultural implements.....	26	906	2	0	18	8	90	2	75	1	77	4	646	—	—	—	—	—	—
Artificial stone products.....	255	872	39	187	273	24	256	5	143	—	—	—	—	—	—	—	—	—	—
Automobile repairing.....	579	1,355	41	498	998	40	357	—	—	—	—	—	—	—	—	—	—	—	—
Boots and shoes.....	6	653	—	—	—	1	11	1	43	1	60	2	274	1	265	—	—	—	—
Bread and other bakery products.....	538	2,533	80	308	750	44	441	14	433	2	119	5	840	—	—	—	—	—	—
Brick and tile, terra-cotta, and fire-clay products.....	113	2,452	1	47	160	32	357	15	541	14	880	4	514	—	—	—	—	—	—
Butter.....	411	1,595	26	312	628	35	308	4	133	—	78	3	358	—	—	—	—	—	—
Buttons.....	77	2,081	4	28	70	24	294	9	282	5	367	7	1,078	—	—	—	—	—	—
Canning and preserving, fruits and vegetables.....	62	1,271	—	8	23	30	369	23	695	—	—	1	184	—	—	—	—	—	—
Cars and general shop construction and repairs by steam-railroad companies.....	51	13,536	—	6	15	4	70	5	180	7	476	13	2,250	7	2,446	0	4,399	3	3,700
Cement.....	4	1,017	—	—	—	—	—	—	—	1	53	1	230	2	734	—	—	—	—
Clothing, men's.....	18	705	—	2	3	2	38	10	371	4	293	—	—	—	—	—	—	—	—
Clothing, women's.....	10	503	—	—	—	3	33	5	153	1	67	1	250	—	—	—	—	—	—
Confectionery and ice cream.....	182	1,739	23	120	234	22	242	7	230	9	690	4	247	1	344	—	—	—	—
Copper, tin, and sheet-iron work.....	120	803	6	83	145	25	250	1	22	—	—	1	139	—	—	—	—	—	—

MANUFACTURES—IOWA.

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

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																	
	Establishments.	Wage earners (average number).	No wage earners.		1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
			Establishments.	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.
Engines, steam, gas, and water.	17	2,739	4	13	4	38	2	53	1	63	3	496	1	366	2	1,710	...	...	...	...
Flour-mill and gristmill products.	189	509	40	133	212	12	141	3	104	1	52	3	574	...	...	...	1,680	...	...	...
Food preparations, not elsewhere specified.	30	2,441	2	17	35	5	64	1	28	1	60	3	...	...	...	...	...	...	...	...
Foundry and machine-shop products.	198	3,529	12	98	245	48	495	24	855	7	593	8	946	1	415	...	...	...	...	...
Furniture.	36	894	2	12	32	9	114	10	344	2	184	1	220	...	...	...	...	...	...	...
Gas, illuminating and heating.	68	727	1	47	119	9	117	8	229	2	139	1	123	...	...	...	...	...	...	...
Glucose and starch.	4	1,007	1	...	...	...	...	...	...	...	...	...	1	231	2	776	...	...	...	...
Hardware.	10	578	...	2	4	61	...	...	...	2	161	2	352	...	...	...	...	...	...	...
Ice, manufactured.	46	504	1	28	85	11	126	5	162	...	...	1	131	...	...	...	...	...	...	...
Lumber, planing-mill products, not including planing mills connected with sawmills.	97	3,211	7	46	114	20	245	12	410	6	451	2	270	3	1,031	1	681	...	...	...
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	47	689	19	61	21	257	4	115	3	256	...	...	...	...	...	...	...	...	...	...
Printing and publishing, book and job.	207	1,244	42	102	268	49	512	12	345	2	119	...	...	...	...	...	...	...	...	...
Printing and publishing, newspapers and periodicals.	774	3,352	179	504	1,088	62	633	20	598	5	321	3	459	1	253	...	...	...	...	...
Rubber tires, tubes, and rubber goods, not elsewhere specified.	9	839	1	...	...	3	48	1	24	1	57	2	325	1	385	...	...	...	...	...
Slaughtering and meat packing.	21	7,134	3	7	6	64	2	92	1	59	2	311	2	730	1	585	4	5,288	...	...
Tobacco, cigars.	211	1,305	74	102	212	24	244	4	126	4	242	3	481	...	...	...	...	...	...	...
Wall plaster and composition flooring.	7	884	1	5	2	26	2	78	...	...	1	246	...	...	1	530	...	...	...	...
Washing machines and clothes wringers.	14	1,063	...	3	34	4	163	4	314	2	248	1	304	...	...	...	...	...	...	...
All other industries.	1,246	16,021	195	651	1,284	227	2,497	107	3,452	43	3,002	19	2,863	2	601	1	973	1	1,349	...
Total for cities.	2,310	50,181	234	1,106	2,587	520	5,821	233	7,822	103	7,275	75	11,843	21	7,224	7	5,320	6	8,289	...
BOONE.	39	369	4	27	62	5	63	1	48	1	95	1	101	...	...	...	...	...	...	...
BURLINGTON.	97	2,274	8	45	120	19	201	14	456	7	543	3	588	1	366	...	...	...	...	...
CEDAR RAPIDS.	208	6,284	20	110	252	46	474	17	556	7	506	5	852	...	1	824	2	2,820	...	...
CLINTON.	119	3,452	17	50	97	25	268	12	381	6	436	6	850	2	799	1	621	...	...	...
COUNCIL BLUFFS.	111	1,891	10	61	131	24	273	10	318	2	119	1	122	3	928	...	...	...	...	...
DAVENPORT.	219	3,928	17	117	276	47	517	19	666	8	551	9	1,236	2	682	...	...	...	...	...
DES MOINES.	379	7,085	62	141	327	85	988	54	1,767	24	1,643	12	2,008	1	352	...	...	...	...	...
DUBUQUE.	131	6,147	8	55	151	29	324	19	653	7	459	5	883	2	697	2	1,654	1	1,328	...
FORT DODGE.	80	1,605	6	44	108	16	167	6	206	5	387	2	472	1	265	...	...	...	...	...
FORT MADISON.	34	1,029	2	18	47	7	84	3	127	2	144	1	242	1	385	...	...	...	...	...
IOWA CITY.	49	322	12	18	44	16	170	3	108	...	...	...	...	...	...	...	...	...	...	...
KEOKUK.	71	1,598	8	31	88	13	132	10	354	5	303	3	424	1	297	...	...	...	...	...
MARSHALLTOWN.	62	1,338	2	23	83	12	154	10	315	3	253	1	184	1	349	...	...	...	...	...
MASON CITY.	59	2,367	3	30	70	12	136	4	118	3	181	4	542	2	734	1	588	...	...	...
MUSCATINE.	146	2,522	9	84	194	37	474	4	103	3	233	8	1,171	1	347	...	...	...	...	...
OTTUMWA.	94	2,601	8	46	101	22	252	11	337	3	244	3	450	...	...	1	1,217	...	...	...
SIOUX CITY.	251	6,749	20	121	275	70	722	20	597	10	707	6	874	2	645	2	2,929	...	...	...
WATERLOO.	161	4,620	18	72	101	35	422	21	712	7	471	5	841	1	378	2	1,035	...	...	...

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

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.			
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	
All classes.	5,683	5,614	5,523	80,551	63,113	61,635	\$745,472,697	\$310,749,974	\$259,237,637	\$225,231,890	\$105,298,035	\$88,530,589	
Less than \$5,000.	1,491	2,144	2,281	930	2,230	2,039	3,883,673	5,438,188	5,427,954	2,426,403	3,452,552	3,474,403	
\$5,000 to \$20,000.	1,985	1,866	1,690	4,808	6,693	6,336	20,732,463	19,176,618	18,965,804	11,684,884	10,321,195	9,175,990	
\$20,000 to \$100,000.	1,331	1,165	1,156	10,210	13,110	14,344	64,432,786	51,971,869	50,150,907	25,566,486	19,864,668	18,679,394	
\$100,000 to \$500,000.	642	356	306	{ 21,019	{ 29,359	{ 27,422	{ 130,881,077	{ 73,326,758	{ 91,097,657	{ 56,009,329	{ 47,624,555	{ 38,737,662	
\$500,000 to \$1,000,000.	87	49	34	{ 8,489	{ 11,721	{ 10,304	{ 58,983,459	{ 35,203,076	{ 125,032,865	{ 95,585,315	{ 104,979,571	{ 24,035,665	{ 18,463,340
\$1,000,000 and over.	97	34	29	{ 35,086	{ 11,721	{ 10,304	{ 400,589,239	{ 125,032,865	{ 95,585,315	{ 104,979,571	{ 24,035,665	{ 18,463,340	{ 18,463,340
PER CENT DISTRIBUTION.													
All classes.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Less than \$5,000.	26.2	38.2	41.3	1.2	3.5	4.3	0.5	1.8	2.1	1.1	3.3	3.9	
\$5,000 to \$20,000.	34.9	33.2	30.7	6.0	10.6	11.1	2.8	6.2	6.5	5.2	9.8	10.4	
\$20,000 to \$100,000.	24.3	20.8	20.9	12.7	20.8	23.3	8.6	16.7	19.3	11.4	18.9	21.1	
\$100,000 to \$500,000.	11.3	6.3	6.6	{ 26.1	{ 46.5	{ 44.5	{ 18.4	{ 23.6	{ 35.1	{ 24.0	{ 45.2	{ 43.8	
\$500,000 to \$1,000,000.	1.5	0.9	0.9	{ 10.5	{ 43.6	{ 18.6	{ 16.9	{ 61.8	{ 40.4	{ 36.9	{ 46.6	{ 22.8	
\$1,000,000 and over.	1.7	0.6	0.5	{ 43.6	{ 18.6	{ 16.9	{ 61.8	{ 40.4	{ 36.9	{ 46.6	{ 22.8	{ 20.9	

MANUFACTURES—IOWA.

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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
BREAD AND OTHER BAKERY PRODUCTS.....	638	518	100.0	100.0	2,583	2,182	100.0	100.0	\$20,244,007	\$0,150,514	100.0	100.0	\$7,733,476	\$3,984,791	100.0	100.0
Less than \$5,000.....	63	168	11.7	32.4	19	120	0.7	5.8	188,144	522,701	0.9	5.7	67,583	249,099	0.9	6.3
\$5,000 to \$20,000.....	209	290	55.6	56.0	370	633	14.3	20.0	3,278,778	2,011,835	16.2	31.8	1,322,000	1,322,560	16.1	33.2
\$20,000 to \$100,000.....	146	46	27.1	8.9	685	416	20.5	19.1	5,351,618	1,650,208	28.9	18.0	1,377,811	682,054	24.3	17.1
\$100,000 to \$500,000.....	24	10	4.5	1.9	620	1,007	24.0	40.1	5,180,228	1,701,802	25.6	18.6	1,795,283	1,731,078	23.2	43.4
\$500,000 to \$1,000,000.....	3	4	0.6	0.8	330	.....	13.0	.....	2,370,009	2,363,818	11.7	25.8	1,120,369	.....	14.5	.....
\$1,000,000 and over.....	3	.....	0.6	.....	553	21.4	.....	.....	3,362,330	.....	16.6	.....	1,628,340	.....	21.1	.....
BUTTER.....	411	474	100.0	100.0	1,595	1,274	100.0	100.0	66,422,287	27,023,255	100.0	100.0	6,982,806	3,425,908	100.0	100.0
Less than \$5,000.....	8	13	1.9	2.7	4	6	0.3	0.5	23,107	35,000	(2)	0.1	5,463	5,433	0.1	0.2
\$5,000 to \$20,000.....	22	102	5.4	21.5	15	113	0.9	8.9	350,033	1,428,290	0.0	5.3	37,668	218,524	0.5	6.4
\$20,000 to \$100,000.....	242	317	58.0	66.0	306	593	24.8	46.5	13,523,799	14,243,580	24.0	52.7	1,275,106	1,409,828	18.3	41.1
\$100,000 to \$500,000.....	122	842	29.7	8.9	479	502	30.0	44.1	20,904,109	31,321,376	37.2	41.0	2,136,954	1,792,183	30.6	52.3
\$500,000 and over.....	17	.....	4.1	.....	701	.....	43.9	.....	21,531,130	.....	38.2	.....	3,527,615	.....	50.6	.....
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.....	51	36	100.0	100.0	13,536	8,021	100.0	100.0	33,098,000	11,433,088	100.0	100.0	20,870,630	6,700,463	100.0	100.0
Less than \$20,000.....	6	11	11.8	.....	16	.....	0.1	.....	30,101	4,661,097	0.1	.....	30,750	4,435,702	0.1	.....
\$20,000 to \$100,000.....	7	13	13.7	36.1	150	477	1.2	5.9	383,820	4,524,940	13.7	32.4	3,191,826	6,264,671	15.3	93.5
\$100,000 to \$500,000.....	19	14	37.3	38.0	2,164	7,517	16.0	94.1	4,563,814	7,008,677	13.8	61.8	3,255,547	.....	15.6	.....
\$500,000 to \$1,000,000.....	7	9	13.7	25.0	1,942	.....	14.3	.....	23,580,007	.....	71.3	.....	14,133,215	.....	67.7	.....
\$1,000,000 and over.....	12	.....	23.5	.....	9,258	.....	68.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
CONFECTIONERY AND ICE CREAM.....	182	176	100.0	100.0	1,730	1,510	100.0	100.0	11,534,628	5,056,438	100.0	100.0	4,603,725	1,980,324	100.0	100.0
Less than \$5,000.....	39	58	21.4	33.0	20	45	1.1	3.0	112,224	171,360	1.0	3.4	40,402	76,423	1.1	3.8
\$5,000 to \$20,000.....	66	73	36.3	41.5	100	155	5.8	10.2	729,560	725,816	6.3	14.3	316,000	328,343	6.8	16.5
\$20,000 to \$100,000.....	52	33	28.6	18.7	254	355	11.6	23.4	2,339,411	1,351,921	20.3	26.6	820,443	506,251	17.6	25.5
\$100,000 to \$500,000.....	22	12	12.1	6.8	808	1,064	51.6	93.5	5,360,008	1,287,341	46.5	55.8	2,328,160	1,075,307	49.9	54.1
\$500,000 and over.....	3	.....	1.6	.....	407	.....	25.0	.....	2,996,416	.....	26.0	.....	1,148,731	.....	24.0	.....
ENGINES, STEAM, GAS, AND WATER.....	17	20	100.0	100.0	2,730	1,197	100.0	100.0	17,610,778	3,585,946	100.0	100.0	8,716,280	2,205,838	100.0	100.0
Less than \$5,000.....	43	5	25.0	.....	7	.....	0.6	.....	8,466	.....	0.2	.....	6,432	.....	0.3	.....
\$5,000 to \$20,000.....	43	7	17.6	35.0	48	44	0.3	3.7	21,687	83,320	0.1	2.3	4,702	44,782	0.1	2.0
\$20,000 to \$100,000.....	0	4	35.3	20.0	65	102	2.4	8.5	332,416	301,622	1.9	8.4	184,300	144,625	2.1	0.4
\$100,000 to \$500,000.....	13	3	17.6	20.0	1,218	1,044	9.1	87.2	11,068,147	3,192,520	89.0	91.9	1,441,135	2,069,909	5.1	91.4
\$500,000 and over.....	5	.....	20.4	.....	2,418	.....	88.3	.....	16,188,528	.....	91.9	.....	8,081,933	.....	92.7	.....
FLOUR-MILL AND GRISTMILL PRODUCTS.....	180	227	100.0	100.0	509	790	100.0	100.0	21,324,678	14,336,576	100.0	100.0	2,711,616	2,578,840	100.0	100.0
Less than \$5,000.....	19	44	10.1	19.4	3	22	0.6	2.8	47,266	117,277	0.2	0.8	7,962	26,302	0.3	1.0
\$5,000 to \$20,000.....	54	89	28.6	39.2	27	83	5.3	10.5	61,000	93,787	3.0	6.6	135,031	187,555	5.0	7.3
\$20,000 to \$100,000.....	86	74	45.5	32.6	137	181	26.9	22.9	4,110,506	1,382,367	19.3	21.8	646,586	622,384	23.8	24.1
\$100,000 to \$500,000.....	21	14	11.1	6.2	114	1,282	22.4	35.7	3,006,039	2,930,150	18.3	20.4	530,623	1,022,304	19.8	24.1
\$500,000 to \$1,000,000.....	4	3	2.1	1.3	53	.....	10.4	.....	2,849,782	1,005,715	13.4	13.0	349,114	.....	12.0	.....
\$1,000,000 and over.....	5	3	2.6	1.3	175	222	31.4	28.1	9,700,035	5,221,271	45.8	30.4	1,030,300	1,120,235	38.2	43.4
FOOD PREPARATIONS, NOT ELSEWHERE SPECIFIED.....	30	24	100.0	100.0	2,441	1,371	100.0	100.0	54,004,131	15,460,961	100.0	100.0	9,732,100	4,006,905	100.0	100.0
Less than \$5,000.....	8	7	20.7	20.2	4	8	0.2	0.6	15,808	20,430	(2)	0.1	8,815	9,081	0.1	0.2
\$5,000 to \$20,000.....	8	4	26.7	16.7	18	8	0.7	0.6	93,901	41,496	0.2	0.3	42,330	16,713	0.4	0.4
\$20,000 to \$100,000.....	4	7	13.3	20.2	20	81	0.8	5.9	223,835	425,530	0.4	2.8	73,309	165,553	0.8	4.1
\$100,000 and over.....	10	6	33.3	25.0	2,390	1,274	98.3	92.9	54,600,407	14,972,635	99.4	96.8	9,006,086	3,874,748	98.7	95.3
FOUNDRY AND MACHINE-SHOP PRODUCTS ^a	206	225	100.0	100.0	3,548	3,065	100.0	100.0	18,036,103	9,308,145	100.0	100.0	10,530,647	5,035,514	100.0	100.0
Less than \$5,000.....	41	67	10.9	25.3	29	51	0.8	1.8	117,503	138,630	0.6	1.5	81,304	92,400	0.8	1.8
\$5,000 to \$20,000.....	70	88	34.0	39.1	212	372	6.8	12.1	809,188	878,908	4.3	9.4	505,160	552,126	4.8	11.0
\$20,000 to \$100,000.....	48	62	23.3	27.6	401	1,034	13.0	33.7	2,273,023	3,182,449	12.2	34.2	1,302,172	1,821,443	12.4	36.2
\$100,000 to \$500,000.....	42	18	20.4	8.0	2,013	1,605	50.7	52.4	9,378,081	3,510,955	50.3	51.9	5,365,653	2,509,639	50.9	51.0
\$500,000 and over.....	5	.....	2.4	.....	503	.....	22.6	.....	6,058,373	.....	32.5	.....	3,278,299	.....	31.1	.....
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS.....	97	92	100.0	100.0	3,211	2,970	100.0	100.0	16,387,832	10,713,495	100.0	100.0	7,802,036	4,465,292	100.0	100.0
Less than \$5,000.....	13	23	13.4	25.0	6	21	0.2	0.7	34,370	57,378	0.2	0.5	20,107	34,361	0.3	0.8
\$5,000 to \$20,000.....	30	25	30.9	27.2	80	151	2.5	5.1	302,082	360,600	1.8	3.4	145,716	183,052	1.9	4.1
\$20,000 to \$100,000.....	31	23	32.0	25.0	384	340	12.0	11.4	1,673,232	1,097,036	10.2	10.2	723,307	440,091	9.5	9.9
\$100,000 to \$500,000.....	16	16	16.5	17.4	700	2,458	22.1	82.8	3,812,638	3,780,051	23.3	35.3	1,698,223	3,807,188	22.3	85.3
\$500,000 and over.....	7	5	7.2	5.4	2,032	.....	63.3	.....	10,565,624	5,411,440	64.5	50.5	5,014,023	.....	60.0	.....
POULTRY, KILLING AND DRESSING, NOT DONE IN SLAUGHTER-HOUSES, AND MEAT-PACKING ESTABLISHMENTS.....	47	35	100.0	100.0	680	481	100.0	100.0	11,449,501	4,672,565	100.0	100.0	1,083,698	650,334	100.0	100.0
Less than \$20,000.....	9	.....	25.7	.....	10	.....	4.0	.....	94,800	.....	2.0	.....	22,748	.....	3.5	.....
\$20,000 to \$100,000.....	20	15	42.6	42.9	83	96	12.0	20.0	1,109,382	685,504	0.7	14.7	237,455	145,842	14.1	22.4
\$100,000 to \$50																

MANUFACTURES—IOWA.

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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODI- CALS.....	774	874	100.0	100.0	3,352	3,397	100.0	100.0	\$20,430,956	\$11,455,048	100.0	100.0	\$14,084,558	\$8,831,129	100.0	100.0
Less than \$5,000.....	324	526	41.9	60.2	212	645	6.3	19.0	934,627	1,409,827	4.6	12.3	719,926	1,159,919	4.8	13.1
\$5,000 to \$20,000.....	347	275	44.8	31.5	880	1,054	26.3	31.0	3,265,994	2,424,082	16.0	21.2	2,521,568	1,959,945	16.9	22.2
\$20,000 to \$100,000.....	74	50	9.6	5.7	770	599	23.0	17.6	3,089,062	1,992,813	15.1	17.4	2,266,812	1,531,754	15.1	17.3
\$100,000 to \$500,000.....	22	20	2.8	2.3	644	1,099	19.2	32.4	5,158,652	3,675,413	25.2	32.1	3,703,755	1,4170,511	24.7	47.3
\$500,000 to \$1,000,000.....	4	3	0.5	0.3	256	256	7.6	.....	2,427,691	1,952,913	11.9	17.0	1,454,830	.....	9.9	.....
\$1,000,000 and over.....	3	.....	0.4	.....	590	.....	17.6	.....	5,554,930	.....	27.2	.....	4,207,363	.....	28.5	.....
SLAUGHTERING AND MEAT PACKING.....	21	28	100.0	100.0	7,134	4,413	100.0	100.0	226,361,698	74,171,865	100.0	100.0	21,941,012	6,398,357	100.0	100.0
Less than \$100,000.....	5	12	23.8	42.9	25	55	0.4	1.2	317,566	506,242	0.1	0.7	66,730	118,365	0.3	1.8
\$100,000 to \$500,000.....	4	17	19.0	25.0	46	1,142	0.6	3.2	1,105,520	1,251,249	1	3.4	125,811	1,246,620	0.6	3.9
\$1,000,000 and over.....	12	0	57.1	32.1	7,063	4,216	99.0	95.5	224,878,612	71,154,374	99.3	95.0	21,748,471	6,033,372	99.1	94.3

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

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

CITY AND VALUE OF PRODUCT.	Number of establish- ments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establish- ments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		
		Aver- age num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Aver- age num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.	
BOONE.....	39	369	100.0	\$1,549,837	100.0	\$850,900	100.0	DUBUQUE.....	131	6,147	100.0	\$34,277,085	100.0	\$14,325,197	100.0	
Less than \$5,000.....	5	2	0.5	16,478	1.1	10,468	1.2	Less than \$5,000.....	16	15	0.3	48,062	0.1	36,359	0.3	
\$5,000 to \$20,000.....	20	41	11.1	232,370	10.3	149,406	17.6	\$5,000 to \$20,000.....	40	113	1.8	472,008	1.4	272,604	1.9	
\$20,000 to \$100,000.....	11	82	22.2	523,179	33.8	276,851	32.5	\$20,000 to \$100,000.....	36	371	6.0	2,009,264	5.9	854,487	6.0	
\$100,000 to \$500,000.....	3	244	66.1	757,810	48.9	414,115	48.7	\$100,000 to \$500,000.....	25	1,126	18.3	6,049,489	17.6	2,810,259	19.6	
\$500,000 to \$1,000,000.....	.....	.....	.....	.....	.....	.....	.....	\$500,000 to \$1,000,000.....	5	531	8.6	3,563,373	10.4	1,271,568	8.9
\$1,000,000 and over.....	.....	.....	.....	.....	.....	.....	.....	\$1,000,000 and over.....	9	3,901	64.9	22,132,094	64.6	9,079,922	63.4
BURLINGTON.....	97	2,274	100.0	12,000,058	100.0	5,307,835	100.0	FORT DODGE.....	80	1,605	100.0	10,884,039	100.0	3,686,360	100.0	
Less than \$5,000.....	19	14	0.6	52,162	0.4	32,269	0.6	Less than \$5,000.....	11	5	0.3	29,700	0.3	20,143	0.5	
\$5,000 to \$20,000.....	25	93	4.1	290,043	2.4	173,140	3.3	\$5,000 to \$20,000.....	32	85	5.3	360,020	3.4	225,171	0.1	
\$20,000 to \$100,000.....	27	278	12.2	1,449,859	12.0	621,211	11.7	\$20,000 to \$100,000.....	21	178	11.1	873,372	8.0	474,600	12.0	
\$100,000 to \$500,000.....	21	943	41.5	5,335,052	44.2	2,189,995	41.3	\$100,000 to \$500,000.....	12	542	33.8	3,086,416	28.4	1,471,602	39.9	
\$500,000 and over.....	5	946	41.6	4,959,937	41.0	2,281,220	43.2	\$500,000 and over.....	4	795	49.5	6,528,531	60.0	1,494,784	40.5	
CEDAR RAPIDS.....	208	6,284	100.0	92,118,386	100.0	20,052,457	100.0	FORT MADISON.....	34	1,029	100.0	4,836,291	100.0	2,193,368	100.0	
Less than \$5,000.....	32	15	0.2	81,206	0.1	53,491	0.3	Less than \$5,000.....	4	2	0.2	9,759	0.2	6,632	0.3	
\$5,000 to \$20,000.....	75	182	2.9	839,573	0.9	508,287	2.5	\$5,000 to \$20,000.....	12	33	3.2	124,282	2.6	70,443	3.2	
\$20,000 to \$100,000.....	59	468	7.4	2,500,107	2.7	1,265,713	6.3	\$20,000 to \$100,000.....	12	168	16.3	616,818	12.8	291,768	13.3	
\$100,000 to \$500,000.....	33	1,161	18.5	7,004,542	7.6	3,707,933	18.5	\$100,000 to \$500,000.....	6	826	80.3	4,083,132	84.5	1,824,525	83.2	
\$500,000 to \$1,000,000.....	3	204	3.2	2,196,244	2.4	1,161,106	5.8	\$1,000,000 and over.....
\$1,000,000 and over.....	6	4,254	67.7	78,496,709	86.3	13,356,357	66.4	CLINTON.....	119	3,452	100.0	10,970,010	100.0	1,767,313	100.0	
Less than \$5,000.....	28	17	0.5	67,485	0.2	40,429	0.4	Less than \$5,000.....	49	322	100.0	1,767,313	100.0	841,503	100.0	
\$5,000 to \$20,000.....	35	91	2.6	383,918	1.3	208,516	1.9	\$5,000 to \$20,000.....	13	6	1.9	25,185	1.4	14,454	1.7	
\$20,000 to \$100,000.....	30	303	8.8	1,566,023	5.2	798,845	7.3	\$5,000 to \$20,000.....	17	54	16.8	162,554	9.2	83,019	9.9	
\$100,000 to \$500,000.....	16	845	25.1	3,815,705	12.6	1,805,411	16.4	\$20,000 to \$100,000.....	14	132	41.0	655,502	37.1	338,891	40.3	
\$500,000 to \$1,000,000.....	4	426	12.3	2,393,411	7.9	831,150	7.6	\$100,000 to \$500,000.....	5	130	40.4	924,072	52.3	405,139	48.1	
\$1,000,000 and over.....	6	1,750	50.7	22,084,601	72.9	7,290,659	66.4	KROOKER.....	71	1,598	100.0	17,554,816	100.0	5,638,309	100.0	
DAVENPORT.....	219	3,928	100.0	32,587,229	100.0	11,025,434	100.0	Less than \$5,000.....	15	14	0.9	35,507	0.2	17,725	0.3	
Less than \$5,000.....	22	15	0.8	56,158	0.5	37,176	0.7	\$5,000 to \$20,000.....	22	78	4.9	249,009	1.4	130,187	2.5	
\$5,000 to \$20,000.....	36	91	4.8	393,871	3.7	203,415	4.0	\$20,000 to \$100,000.....	15	183	11.5	861,150	4.9	422,856	7.5	
\$20,000 to \$100,000.....	32	278	14.7	1,322,704	12.7	687,390	13.6	\$100,000 to \$500,000.....	13	509	31.9	3,000,404	17.1	1,100,060	19.5	
\$100,000 to \$500,000.....	16	490	25.9	3,083,012	29.2	1,698,473	33.5	\$500,000 and over.....	6	814	50.9	13,403,146	76.4	3,958,531	70.2	
\$500,000 to \$1,000,000.....	7	687	17.5	8,478,392	13.7	2,080,939	18.9	MARSHALLTOWN.....	62	1,338	100.0	8,642,468	100.0	3,605,814	100.0	
\$1,000,000 and over.....	6	1,158	29.5	16,488,437	47.5	2,909,786	26.4	Less than \$5,000.....	7	5	0.4	22,188	0.3	14,804	0.4	
DES MOINES.....	379	7,085	100.0	59,830,954	100.0	26,540,392	100.0	\$5,000 to \$20,000.....	21	73	5.5	311,577	3.6	139,471	3.8	
Less than \$5,000.....	67	34	0.5	187,048	0.3	134,028	0.5	\$20,000 to \$100,000.....	16	125	9.3	722,075	8.4	329,721	9.0	
\$5,000 to \$20,000.....	100	221	3.1	1,141,647	1.9	682,141	2.6	\$100,000 to \$500,000.....	14	471	35.2	3,097,776	35.8	1,735,949	47.4	
\$20,000 to \$100,000.....	114	1,167	16.5	5,602,153	9.4	3,109,382	11.7	\$500,000 and over.....	4	664	49.6	4,488,852	51.9	1,445,779	39.4	
\$100,000 to \$500,000.....	71	2,816	39.7	10,606,375	27.9	8,516,793	32.1	Less than \$5,000.....	9	6	0.3	27,196	0.1	16,692	0.3	
\$500,000 to \$1,000,000.....	15	1,022	14.4	10,164,550	17.0	3,889,643	14.7	\$5,000 to \$20,000.....	17	49	2.1	189,236	0.6	104,852	1.6	
\$1,000,000 and over.....	12	1,826	25.8	26,069,181	43.6	10,205,933	38.5	\$20,000 to \$100,000.....	16	151	6.4	743				

MANUFACTURES—IOWA.

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

CITY AND VALUE OF PRODUCT.	Number of estab-lishments	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of estab-lishments	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
MUSCATINE.....	146	2,522	100.0	\$10,753,750	100.0	\$5,056,080	100.0	SIOUX CITY.....	251	6,740	100.0	\$146,393,134	100.0	\$21,131,710	100.0
Less than \$5,000.....	33	35	1.4	\$3,448	0.8	50,636	1.2	Less than \$5,000.....	37	20	0.3	101,358	0.1	64,143	0.3
\$5,000 to \$20,000.....	66	299	11.9	703,679	6.5	451,006	3.9	\$5,000 to \$20,000.....	82	189	2.8	937,690	0.0	517,535	2.6
\$20,000 to \$100,000.....	31	433	17.2	1,212,730	11.3	621,155	12.3	\$20,000 to \$100,000.....	74	706	10.5	3,476,503	2.4	1,702,668	8.1
\$100,000 to \$500,000.....	11	758	30.1	2,881,025	26.8	1,407,524	29.6	\$100,000 to \$500,000.....	30	942	14.0	7,254,258	5.0	2,552,474	12.1
\$500,000 and over.....	5	997	39.5	5,872,858	54.0	2,426,168	48.0	\$1,000,000 and over.....	6	1,425	21.1	10,205,554	7.0	4,366,731	20.7
OTTUMWA.....	94	2,601	100.0	45,020,524	100.0	8,528,413	100.0	WATERLOO.....	161	4,620	100.0	35,481,225	100.0	12,088,611	100.0
Less than \$5,000.....	10	10	0.4	51,072	0.1	28,020	0.3	Less than \$5,000.....	24	9	0.2	62,373	0.2	34,004	0.3
\$5,000 to \$20,000.....	24	70	2.7	251,109	0.6	140,006	1.7	\$5,000 to \$20,000.....	49	55	2.1	520,000	1.5	302,108	2.5
\$20,000 to \$100,000.....	31	314	12.1	1,499,678	3.3	633,960	7.4	\$20,000 to \$100,000.....	43	307	8.6	2,107,808	5.0	1,082,271	9.0
\$100,000 to \$500,000.....	16	732	28.1	3,793,394	8.4	1,942,552	22.8	\$100,000 to \$500,000.....	34	1,221	26.4	7,807,274	22.3	3,754,550	31.1
\$500,000 and over.....	4	1,475	56.7	33,433,371	87.6	5,782,906	67.8	\$500,000 to \$1,000,000.....	4	316	6.8	2,500,792	7.1	1,128,861	9.3
								\$1,000,000 and over.....	7	2,582	55.9	22,380,918	63.1	5,779,817	47.8

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

INDUSTRY AND CITY.	Cen-sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.						VALUE OF PRODUCTS.							
					In establishments owned by—			Per cent of total.						Of establishments owned by—				
		Individ-uals.	Cor-pora-tions.	All oth-ers.	Total.	Individ-uals.	Cor-pora-tions.	All oth-ers.	Individ-uals.	Cor-pora-tions.	All oth-ers.	Total.	Individ-uals.	Corpora-tions.	All oth-ers.	Individ-uals.	Cor-pora-tions.	All oth-ers.
All industries.....	1919	2,707	1,540	1,370	80,551	6,012	68,059	5,550	8.0	84.5	0.9	\$745,472,697	\$41,052,132	\$644,752,520	\$59,668,045	5.5	86.5	8.0
	1914	2,805	1,434	1,375	83,113	7,277	48,385	7,451	11.5	70.7	11.8	310,740,074	24,576,718	235,915,163	50,255,003	7.9	75.9	16.2
	1900	2,735	1,317	1,470	81,035	7,600	45,475	8,560	12.3	73.8	13.9	259,237,037	24,033,314	180,182,380	40,001,034	0.3	73.0	17.7
Bread and other bakery products.	1910	300	46	102	2,583	782	1,474	327	30.3	57.1	12.7	20,244,067	6,757,709	10,450,002	3,030,206	33.4	51.6	15.0
	1914	408	30	80	2,182	848	1,126	208	38.9	51.6	9.5	9,150,514	3,568,710	4,635,059	946,745	30.0	50.7	10.3
Brick and tile, terra-cotta, and fire-clay products.	1910	24	61	28	2,452	84	2,056	312	3.4	83.8	12.7	8,127,157	218,074	6,783,312	1,125,771	2.7	83.5	13.9
	1914	54	61	43	3,103	238	2,338	387	7.5	73.9	18.0	8,400,055	328,205	5,087,761	933,090	5.1	70.5	15.4
Butter.....	1910	67	78	206	1,505	150	888	557	9.4	55.7	34.0	56,422,287	4,674,300	27,910,608	23,828,201	8.3	49.5	42.2
	1914	70	102	203	2,174	215	585	474	16.0	45.9	37.2	27,028,225	2,855,142	11,893,993	12,250,120	10.6	44.0	46.4
Canning and preserving, fruits and vegetables.	1910	6	51	5	1,271	84	1,183	54	2.7	93.1	4.2	8,014,770	86,035	7,026,772	301,363	1.1	95.2	3.8
	1914	4	35	8	904	10	700	104	1.1	87.4	11.5	2,077,212	13,878	1,860,836	193,528	0.7	90.0	9.3
Cars and general shop construction and repairs by steam-railroad companies.	1910	51	.....	.....	13,536	.....	13,536	.....	.....	100.0	.....	33,008,000	.....	33,093,600	.....	100.0	.....	.....
	1914	36	.....	.....	8,024	.....	8,024	.....	.....	100.0	.....	11,433,988	.....	11,433,988	.....	100.0	.....	.....
Confectionery and ice cream.	1910	90	41	51	1,739	168	1,347	224	0.7	77.5	12.9	11,534,028	1,461,009	8,535,335	1,537,624	12.7	74.0	13.3
	1914	99	36	41	1,519	229	1,218	72	15.1	80.2	4.7	5,080,438	3,741,746	305,653	18.7	73.0	7.8	
Engines, steam, gas, and water.	1910	2	15	.....	2,739	.....	1,270	.....	.....	100.0	.....	17,610,778	2,436,477	17,610,778	.....	100.0	.....	.....
	1914	5	12	3	1,197	9	1,131	57	0.8	94.5	4.8	3,585,046	22,802	17,771,627	120,577	0.6	95.8	3.5
Flour-mill and gristmill products.	1910	92	47	50	509	87	337	85	17.1	66.2	16.7	21,324,678	2,840,386	15,758,411	2,719,881	13.3	73.0	12.8
	1914	117	40	70	790	124	531	135	15.7	67.2	17.1	14,336,576	1,771,622	10,595,646	1,900,205	12.4	73.0	13.7
Food preparations, not elsewhere specified.	1910	12	11	7	2,441	18	2,373	50	0.7	97.2	2.0	54,004,131	130,952	53,756,307	1,106,872	0.2	97.7	2.0
	1914	6	12	6	1,371	15	1,304	52	1.1	95.1	3.8	15,450,961	10,021,025	15,165,477	194,859	0.6	98.1	1.3
Foundry and machine-shop products. ¹	1910	72	85	49	3,548	233	2,829	880	0.6	74.1	19.3	18,636,163	1,080,633	13,568,769	3,080,761	5.8	72.8	21.4
	1914	77	97	51	3,065	210	2,222	624	7.1	72.5	20.4	9,300,145	6,091,411	6,582,306	2,024,428	7.5	70.7	21.8
Lumber, planing-mill products, not including planing mills connected with sawmills.	1910	32	47	18	3,211	136	2,081	94	4.2	92.8	2.9	16,387,832	387,349	15,533,806	466,077	2.4	94.8	2.8
	1914	36	41	15	2,970	76	2,754	140	2.6	92.7	4.7	10,713,495	266,046	9,970,002	476,847	2.5	93.1	4.5
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	1910	11	24	12	689	82	520	87	11.9	75.5	12.6	11,440,501	1,305,420	8,519,401	1,024,680	11.4	74.4	14.2
	1914	9	14	12	481	27	368	96	5.6	74.4	20.0	4,672,565	1,061,105	3,700,035	707,425	3.6	70.4	17.1
Printing and publishing, newspapers and periodicals.	1910	504	107	163	3,352	942	1,085	455	28.1	58.3	13.6	20,430,950	3,530,968	14,890,904	2,009,084	17.3	72.9	9.8
	1914	585	117	172	3,307	1,283	1,085	449	37.8	49.0	13.2	11,455,048	3,021,632	7,206,503	1,226,823	26.4	62.0	10.7
Slaughtering and meat packing.	1910	2	15	4	7,134	44	6,958	1,176	0.7	97.5	2.5	220,301,698	222,134,120	14,227,560	1,081,946	0.5	98.1	1.9
	1914	8	15	5	4,413	3,246	1,123	1,0	73.6	25.4	74,171,805	619,603	56,374,618	17,177,784	0.6	70.0	23.2	
Washing machines and clothes wringers.	1910	14	14	12	1,063	1,375	1,063	100.0	100.0	100.0	100.0	8,814,046	1,498,567	8,814,046	1,498,567	100.0	100.0	100.0

¹ Includes the group "Individuals."² Includes "iron and steel, tempering, welding, etc."

MANUFACTURES—IOWA.

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

INDUSTRY AND CITY.	Cen-sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—	AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.										
			In establishments owned by—			Per cent of total.			Total.			Of establishments owned by—			Per cent of total.							
			Total.	Individ-uals.	Corpo-rations.	All oth-ers.	Individ-uals.	Corpo-rations.	All oth-ers.	Individ-uals.	Corpo-rations.	All oth-ers.	Individ-uals.	Corpora-tions.	All oth-ers.	Individ-uals.	Corpo-rations.	All oth-ers.	Individ-uals.	Corpo-rations.	All oth-ers.	
Total for cities.....	1919	911	967	432	56,181	3,601	49,667	2,853	6.5	88.4	5.1	8584,240,450	\$18,330,235	\$542,760,217	\$23,149,908	3.1	92.9	4.0	1914	924	878	390
BOONE.....	1919	20	9	10	389	50	303	16	13.6	82.1	4.3	1,549,837	370,080	995,249	184,503	23.9	64.2	11.9	1914	13	11	9
BURLINGTON.....	1919	37	48	12	2,274	105	2,112	57	4.6	92.9	2.5	12,090,058	554,335	11,135,987	399,736	4.6	92.1	3.3	1914	52	49	17
CEDAR RAPIDS.....	1919	85	76	47	6,284	256	5,877	151	4.1	93.5	2.4	92,118,386	1,634,907	89,509,341	973,883	1.8	97.2	1.1	1914	65	72	33
CLINTON.....	1919	48	51	20	3,452	98	3,300	54	2.8	95.6	1.6	30,321,143	662,904	29,328,224	329,925	2.2	96.7	1.1	1914	50	47	8
COUNCIL BLUFFS.....	1919	43	47	21	1,891	110	1,701	80	5.8	90.0	4.2	10,610,664	697,501	9,578,213	334,950	6.6	90.3	3.2	1914	48	36	17
DAVENPORT.....	1919	84	88	47	3,928	479	2,717	732	12.2	69.2	18.6	32,587,220	2,182,723	23,181,092	7,222,514	6.7	71.1	22.2	1914	91	89	51
DES MOINES.....	1919	136	190	53	7,085	503	6,261	321	7.1	88.4	4.5	59,830,954	2,951,942	53,006,230	1,872,782	4.9	91.9	3.1	1914	156	166	62
DUBUQUE.....	1919	54	56	21	6,147	246	5,786	121	3.9	94.1	2.0	34,277,085	1,284,620	31,833,355	1,159,110	3.7	92.9	3.4	1914	54	62	23
FORT DODGE.....	1919	39	29	12	1,005	134	1,413	58	8.3	88.0	3.6	10,884,039	772,947	8,963,987	1,147,125	7.1	82.4	10.5	1914	29	20	7
FORT MADISON.....	1919	12	13	9	1,029	31	903	95	3.0	87.8	9.2	4,836,291	155,385	4,307,139	373,767	3.2	89.1	7.7	1914	12	13	9
IOWA CITY.....	1919	24	8	17	322	138	107	79	42.2	33.2	24.5	1,767,313	460,413	531,266	775,634	26.1	30.1	43.9	1914	35	10	16
KEOKUK.....	1919	29	33	9	1,598	77	1,377	144	4.8	86.2	9.0	17,554,816	330,920	14,985,792	2,238,098	1.9	85.4	12.7	1914	37	32	16
MARSHALLTOWN.....	1919	15	31	16	1,338	42	1,198	98	3.1	89.5	7.3	8,642,408	207,570	7,514,826	920,072	2.4	87.0	10.6	1914	22	28	11
MASON CITY.....	1919	19	28	12	2,307	43	2,265	59	1.8	95.7	2.5	29,512,534	255,299	28,315,241	411,994	0.9	97.7	1.4	1914	17	34	9
MUSCATINE.....	1919	78	36	32	2,522	575	1,828	119	22.8	72.5	4.7	10,753,750	1,617,669	8,384,196	751,855	15.0	78.0	7.0	1914	86	25	31
OTTUMWA.....	1919	40	38	16	2,601	273	2,097	231	10.5	80.6	8.9	45,029,524	1,368,243	42,492,335	1,168,936	3.0	94.4	2.6	1914	39	31	18
SIOUX CITY.....	1919	90	111	50	6,749	339	6,160	250	5.0	91.3	3.7	146,393,134	1,871,704	142,971,068	1,550,332	1.3	97.7	1.1	1914	80	102	38
WATERLOO.....	1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	28	4,620	170	4,262	188	3.7	92.3	4.1	35,481,223	950,937	33,195,406	1,334,822	2.7	93.6	3.8	1914	50	64	30	
1919	58	75	2																			

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

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.				
	Amount, 1919.	Per cent of total for the state.	Increase ¹ over 1914.			Amount, 1919.	Per cent of total for the state.	Increase over 1914.		
			Amount.	Per cent.				Amount.	Per cent.	
DAVENPORT.										
Gloves and mittens, leather.....	\$768,104	50.5	(3)		Des Moines—Continued.					
Foundry and machine-shop products ²	3,903,306	21.1	\$1,906,017	95.3	Cement.....					
Bread and other bakery products.....	2,709,338	13.4	1,135,851	72.2	Clothing, women's, suits, skirts, and cloaks.....					
Washing machines and clothes wringers.....	1,471,755	16.7	859,551	140.4	Knit goods.....					
Tobacco, cigars.....	1,173,814	20.5	164,663	16.3	Oil, linseed.....					
Confectionery and ice cream.....	977,190	8.5	580,711	152.2	Perfumery and cosmetics.....					
Butter.....	911,823	1.6	(3)		Poultry, killing and dressing, not done in slaughtering and meat-packing es- tablishments.....					
Printing and publishing, newspapers and periodicals.....	817,980	4.0	390,803	91.5	Rubber tires, tubes, and rubber goods, not elsewhere specified.....					
Automobile repairing.....	620,313	10.8	520,423	477.9	Saddlery and harness.....					
Flour-mill and gristmill products.....					Slaughtering and meat packing.....					
Food preparations, not elsewhere speci- fied.....										
Locomotives, not made by railroad com- panies.....										
Slaughtering and meat packing.....										
DES MOINES.										
Printing and publishing, newspapers and periodicals.....	7,877,532	38.6	4,496,805	133.0	Slaughtering and meat packing.....	\$16,088,503	51.3	(3)		
Bread and other bakery products.....	2,943,716	14.5	1,873,881	175.2	Bread and other bakery products.....	2,115,042	10.4	\$1,165,533	122.8	
Butter.....	2,252,730	4.0	(3)		Flour-mill and gristmill products.....	2,050,918	9.6	(3)		
Confectionery and ice cream.....	1,510,456	13.1	959,624	174.2	Printing and publishing, newspapers and periodicals.....	1,705,168	8.3	844,123	98.0	
Flour-mill and gristmill products.....	1,487,513	7.0	908,820	157.0	Cars and general shop construction and repairs by steam-railroad companies.....	1,530,887	4.6	(3)		
Patent and proprietary medicines.....	1,479,227	23.4	637,314	75.7	Coffee, roasting and grinding.....	1,410,641	27.5	913,401	183.7	
Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	1,462,703	8.9	-161,159	-9.9	Druggists' preparations.....	1,317,016	42.9	905,550	220.1	
Printing and publishing, book and job.....	1,438,131	27.6	720,807	100.5	Confectionery and ice cream.....	1,100,391	0.5	541,950	97.0	
Stoves and hot-air furnaces.....	1,266,884	40.9	827,763	188.5	Copper, tin, and sheet-iron work.....	837,451	16.5	631,628	306.9	
Brick and tile, terra-cotta, and fire-clay products.....					Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....					
Foundry and machine-shop products.....	1,002,393	12.3	178,988	21.7	Automobiles.....	805,121	4.9	342,730	74.1	
Fur goods.....	976,286	5.3	251,789	34.8	Butter.....	(3)	(3)	(3)	(3)	
Copper, tin, and sheet-iron work.....	839,070	45.5	739,185	735.6	Clothing, men's.....					
	662,520	13.1	355,831	116.0	Rubber tires, tubes, and rubber goods, not elsewhere specified.....					

¹ A minus sign (−) denotes decrease.² Includes "iron and steel, tempering, welding, etc." and "textile machinery and parts."³ Figures can not be shown without disclosing individual operations.

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

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	16,747	10,514	6,585	242,946	190,049	155,384	100.0	100.0	100.0
Owned.....	2,142	3,040	3,574	130,334	139,746	136,405	53.6	73.5	87.8
Steam ¹	1,230	1,636	2,054	119,412	125,340	122,029	49.2	65.9	78.5
Engines.....	1,176	(2)	(2)	101,404	(2)	(2)	41.8		
Turbines.....	63	(2)	(2)	17,948	(2)	(2)	7.4		
Internal-combustion engines.....	809	1,254	1,336	7,030	8,808	8,025	2.9	4.7	5.2
Water.....	94	150	184	3,802	5,538	6,411	1.6	2.9	4.2
Water wheels and turbines.....	66	130	161	3,245	5,487	6,326	1.3	2.9	4.1
Water motors.....	28	20	23	617	51	85	0.3	(3)	0.1
Rented.....	14,605	7,474	3,011	112,612	50,303	18,919	46.4	26.5	12.2
Electric.....	14,605	7,474	3,011	112,456	50,054	18,403	46.3	26.3	11.9
Other.....				126	249	436	0.1	0.1	0.3
Electric.....	18,600	10,144	4,450	166,285	101,827	40,736	100.0	100.0	100.0
Rented.....	14,605	7,474	3,011	112,486	50,054	18,463	67.6	49.2	45.3
Generated by establishments reporting.....	3,895	2,670	1,448	53,799	51,773	22,273	32.4	50.8	54.7

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

MANUFACTURES—IOWA.

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

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	1919. 15,400	2,154,407	134,841	573,958	26,441	181,957
1914. 10,279	2,361,179	83,082	280,261	(1)	(1)	120,699
Per cent of increase ¹ . 49.8	—8.8	62.3	114.2	—	—	50.8
Automobile repairing.....	228	8,287	49	43	1,576	17,184
Bread and other bakery products.....	3,074	14,749	13,186	3,038	1,402	23,811
Brick and tile, terra-cotta, and fire-clay products.....	—	336,750	180	9,100	3,420	—
Butter.....	1,767	77,866	505	1,270	965	—
Buttons.....	—	10,978	150	52	144	—
Canning and preserving, fruits and vegetables.....	219	14,989	—	3	31	3,600
Carriages and wagons, including repairs.....	50	5,639	22	204	94	—
Cars and general shop construction and repairs by steam-railroad companies.....	343	276,947	303	11,508	277	1,422
Cars, steam-railroad, not including operations of railroad companies.....	—	21,471	135	68,590	903	—
Cement.....	—	454,502	—	—	100	—
Confectionery and ice cream.....	387	17,148	246	4,676	160	11,510
Engines, steam, gas, and water.....	—	13,098	7,630	12,398	3,861	2,980
Flour-mill and gristmill products.....	515	28,024	7	3,063	836	12
Food preparations, not elsewhere specified.....	672	27,147	839	41	13	18,256
Foundry and machine-shop products.....	163	26,737	11,371	11,891	1,701	2,391
Furniture.....	—	7,724	—	—	52	—
Gas, illuminating and heating.....	3,403	82,823	81,222	308,128	5,684	—
Glucose and starch.....	474	160,018	586	17,518	—	—
Ice, manufactured.....	80	66,625	—	2,765	—	—
Lumber, planing-mill products, not including planing mills connected with saw-mills.....	11	15,864	54	—	35	—
Mineral and soda waters.....	237	7,194	6	43	41	375
Paper and wood pulp.....	—	17,925	—	500	—	—
Paving materials.....	25	8,916	—	—	—	—
Printing and publishing, newspapers and periodicals.....	687	12,632	138	240	1,103	43,705
Roofing materials.....	—	28,100	—	—	—	—
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	—	10,321	—	69	350	680
Slaughtering and meat packing.....	500	219,072	100	—	317	28,666
Sugar, beet.....	—	11,623	523	—	—	—
Wall plaster and composition flooring.....	—	27,404	758	—	72	—
Washing machines and clothes wringers.....	124	5,831	501	—	400	36
All other industries.....	2,441	130,243	16,330	28,811	2,715	27,289
Total for cities.....	5,771	1,495,250	98,493	265,071	11,010	162,052
BOONE.....	12	3,945	1,336	34	43	770
BURLINGTON.....	179	21,788	5,721	11,260	122	4,688
CEDAR RAPIDS.....	223	106,291	9,885	967	330	27,117
CLINTON.....	513	157,215	1,138	9,235	523	4,532
COUNCIL BLUFFS.....	381	34,477	4,178	15,510	132	11,061
DAVENPORT.....	268	56,890	6,936	27,055	1,720	20,298
DES MOINES.....	1,074	245,678	17,337	61,416	1,117	44,226
DUBUQUE.....	722	44,765	2,675	4,348	218	3,466
PORT DODGE.....	18	31,294	3,327	13,138	3,620	687
PORT MADISON.....	47	9,168	1,040	5,558	1	100
IOWA CITY.....	47	24,051	977	2,219	11	426
KEOKUK.....	747	53,805	8,610	12,143	93	358
MARSHALLTOWN.....	160	27,982	3,783	869	197	6,028
MASON CITY.....	19	372,839	2,018	6,980	60	1,425
MUSCATINE.....	31	22,057	2,120	1,415	284	1,230
OTTUMWA.....	36	74,025	3,466	7,405	193	18,129
SIOUX CITY.....	1,019	152,769	10,381	39,280	250	12,503
WATERLOO.....	275	54,320	13,556	45,340	2,096	3,059

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

SPECIAL STATISTICS.

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

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

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

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

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

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TABLE 19.—SLAUGHTERING AND MEAT PACKING.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$204,420,680	\$67,773,508	\$53,034,481
Animals slaughtered, cost.....	\$187,034,324	\$63,103,329	\$50,182,075
Beefs—			
Number.....	437,055	219,359	252,821
Cost.....	\$41,943,020	\$15,759,309	\$11,250,446
Calves—			
Number.....	45,275	15,171	20,437
Cost.....	\$902,724	\$213,894	\$202,352
Sheep and lambs—			
Number.....	264,432	307,419	49,577
Cost.....	\$2,782,728	\$1,547,912	\$223,759
Hogs—			
Number.....	3,302,333	2,394,061	2,487,251
Cost.....	\$141,345,852	\$45,672,154	\$38,499,019
All other materials, cost.....	\$17,386,362	\$4,580,179	\$2,852,406
PRODUCTS.			
Total value.....	\$226,361,698	\$74,171,865	\$58,913,482
Fresh meat, value.....	\$70,511,415	\$28,020,755	\$19,212,269
Beef—			
Pounds.....	189,351,003	118,507,051	123,780,302
Value.....	\$33,190,688	\$13,670,747	\$8,854,488
Veal—			
Pounds.....	4,821,377	1,715,791	2,420,140
Value.....	\$739,047	\$206,203	\$220,921
Mutton and lamb—			
Pounds.....	9,820,920	12,539,457	1,848,011
Value.....	\$2,141,308	\$1,270,068	\$170,834
Pork—			
Pounds.....	116,334,618	103,401,549	100,113,209
Value.....	\$29,812,210	\$12,284,015	\$9,750,724
Edible offal and all other fresh meat—			
Pounds.....	36,300,061	8,885,752	3,820,807
Value.....	\$4,628,162	\$592,057	\$209,302
Cured meat, value.....	\$97,897,930	\$29,343,351	\$24,852,404
Beef, pickled and other cured—			
Pounds.....	5,001,301	(1)	(1)
Value.....	\$1,075,805	(1)	(1)
Pork, pickled and other cured—			
Pounds.....	335,237,381	233,138,198	210,106,133
Value.....	\$96,821,281	\$29,343,351	\$24,852,404
Sausage:			
Pounds.....	21,252,903	17,820,025	15,541,024
Value.....	\$4,347,160	\$2,111,860	\$1,300,758
Lard:			
Pounds.....	103,502,429	59,038,166	71,084,771
Value.....	\$31,003,935	\$6,491,245	\$8,059,149
Lard compounds and substitutes:			
Pounds.....	5,032,256	(1)	(2)
Value.....	\$1,227,371	(1)	(3)
Tallow and oleo stock:			
Pounds.....	9,912,001	30,676,882	5,403,034
Value.....	\$1,857,524	\$2,150,303	\$422,490
Oleomargarine:			
Pounds.....	474,824	(1)	.....
Value.....	\$138,853	(1)	.....
Soup stock and grease:			
Pounds.....	14,134,500	8,880,127	(2)
Value.....	\$1,752,024	\$514,707	(3)
Castings:			
Pounds.....	4,003,007	2,001,832	(2)
Value.....	\$641,001	\$263,475	(4)
Fertilizer and fertilizer materials:			
Tons.....	9,590	7,970	12,819
Value.....	\$647,383	\$235,930	\$294,072
Hides and pelts:			
Cattle—			
Number.....	437,055	219,359	
Pounds.....	24,107,779	12,259,831	
Value.....	\$7,141,823	\$2,138,122	
Calf—			
Number.....	33,928	8,588	
Pounds.....	559,640	130,548	
Value.....	\$249,513	\$21,677	
Sheep—			
Number.....	263,710	307,648	49,534
Value.....	\$785,673	\$391,967	\$61,386
Hair, hog and cattle:			
Pounds.....	2,360,606	(2)	(2)
Value.....	\$157,671	(2)	(2)
All other products, value.....	\$8,003,307	\$2,529,413	\$2,832,362

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

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

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

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

	1919	1914	1909
Total value.....	\$57,800,148	\$27,605,908	\$25,849,866
Butter:			
Pounds.....	90,079,758	92,405,806	88,582,187
Value.....	\$50,438,028	\$25,011,327	\$24,440,715
Packed solid—			
Pounds.....	62,856,122	71,194,290	75,581,191
Value.....	\$34,729,324	\$10,025,043	\$20,800,762
Prints or rolls—			
Pounds.....	27,223,636	21,211,516	13,000,996
Value.....	\$18,709,304	\$5,080,284	\$3,639,953
Cream sold:			
Pounds.....	4,811,541	2,933,142	1,169,943
Value.....	\$611,338	\$299,071	\$134,156
Cheese:			
Pounds.....	1,015,700	855,198	999,559
Value.....	\$203,085	\$125,171	\$148,876
All other butter, cheese, and condensed-milk factory products, value.....	\$3,127,892	\$954,904	\$866,565
All other products, value.....	\$3,328,605	\$1,215,405	\$259,554

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

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

	1919	1914	1909
Total value.....	\$21,324,678	\$14,330,576	\$12,870,603
Wheat flour:			
Barrels.....	1,251,770	1,488,811	1,523,264
Value.....	\$13,728,744	\$7,149,334	\$7,958,975
Rye flour:			
Barrels.....	11,166	13,133	20,906
Value.....	\$97,438	\$63,451	\$35,019
Corn meal and corn flour:			
Barrels.....	145,364	318,500	184,301
Value.....	\$1,106,086	\$1,080,155	\$582,328
Buckwheat flour:			
Pounds.....	1,821,204	1,123,875	2,870,980
Value.....	\$118,308	\$11,424	\$97,510
Barley meal:			
Pounds.....	61,502	.....	.....
Value.....	\$1,584	.....	.....
Bran and middlings:			
Tons.....	54,516	63,857	
Value.....	\$2,504,998	\$1,369,505	
Feed and offal:			
Tons.....	62,006	99,219	
Value.....	\$3,436,387	\$2,562,961	
Hominy and grits:			
Pounds.....	3,246,610	16,693,110	16,416,130
Value.....	\$101,908	\$188,080	\$232,936
Oatmeal:			
Pounds.....	4,510,962	.....	.....
Value.....	\$125,054	.....	.....
Breakfast foods:			
Pounds.....	20,242	45,879,016	
Value.....	\$1,293	\$1,058,873	
All other cereal products, value.....	\$206,944	\$24,460	\$90,206
All other products, value.....	\$89,279	\$217,958	

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

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

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

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

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	845	928	1,004	4,910,108	4,856,573	3,806,253
Daily.....	58	68	68	717,607	587,268	450,919
Sunday.....	14	14	14	266,152	200,666	169,678
Semiweekly.....	28	34	48	96,337	110,113	136,726
Triweekly.....	8	6	4	25,654	24,150	15,900
Weekly.....	657	738	784	1,190,932	1,459,849	1,419,709
Semimonthly.....	11	11	8	144,400	193,830	84,960
Monthly.....	58	53	66	2,334,376	2,256,097	1,490,861
Quarterly.....	11	34	112	134,650	24,600	37,500

¹ Includes 1 trimonthly.² Includes 2 bimonthlies.³ Includes 1 bimonthly.⁴ Includes 3 bimonthlies and 5 classed as "all other."

Agricultural implements (Table 23).—This table shows the value of the principal classes of agricultural implements manufactured in Iowa in 1919, 1914, and 1909. While the total value of products for the industry in the state shows an increase from census to census, consideration should be given to the increased value of commodities in 1919, in connection with the increase from 1914. In 1919, as in previous censuses, the largest single item of value was, "All other products, including parts," forming 57.7 per cent of the total for the industry in 1919, and 55.1 per cent in 1914. Although this item includes the value of

engines, wagons, etc., it is made up largely of agricultural implements the value of which could not be shown separately without the possibility of disclosing the operations of individual establishments.

TABLE 23.—AGRICULTURAL IMPLEMENTS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$5,959,129	\$5,216,245	\$4,757,089
Plows and cultivators.....	248,340	922,509	488,837
Harvesting implements.....	1,610,684	986,505	1,157,701
Seed separators.....	659,133	446,900	55,018
All other products, including parts.....	3,436,994	2,875,266	2,785,870
Amount received for repair work.....	6,978	34,885	318,763

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

TABLE 24.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, 1914-1919
	1919	1914	
Number of establishments.....	129	176	-26.7
Persons engaged.....	2,466	2,883	-14.5
Proprietors and firm members.....	127	186	-26.3
Salaried employees.....	255	179	42.5
Wage earners (average number).....	2,074	2,518	-17.6
Primary horsepower.....	3,168	3,873	-18.2
Capital.....	\$2,509,074	\$1,784,871	43.9
Salaries and wages.....	1,730,459	1,331,153	30.0
Salaries.....	357,951	180,034	98.2
Wages.....	1,372,508	1,150,519	19.3
Paid for contract work.....	12,128	3,192	279.9
Rent and taxes.....	289,925	104,131	178.4
Cost of materials.....	901,410	587,027	53.4
Amount received for work done.....	3,904,058	2,882,005	35.5

¹ A minus sign (-) denotes decrease.

Dyeing and cleaning (Table 25).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 25.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	70
Persons engaged.....	584
Proprietors and firm members.....	76
Salaried employees.....	103
Wage earners (average number).....	405
Primary horsepower.....	523
Capital.....	\$679,719
Salaries and wages.....	550,001
Wages.....	127,310
Paid for contract work.....	422,751
Rent and taxes.....	5,593
Cost of materials.....	65,263
Amount received for work done.....	253,684
	1,333,047

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Custom sawmills and custom gristmills (Tables 26 and 27).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914.

TABLE 26.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	53	117	-54.7
Persons engaged.....	91	284	-68.0
Proprietors and firm members.....	64	148	-56.8
Salaried employees.....	3	3	.....
Wage earners (average number).....	27	133	-70.7
Primary horsepower.....	1,405	2,232	-34.4
Capital.....	\$91,313	\$150,765	-39.4
Salaries and wages.....	19,120	41,319	-53.8
Salaries.....	1,062	.....	.....
Wages.....	19,120	40,287	-52.5
Rent and taxes.....	493	(2)	.....
Cost of materials.....	6,412	2,900	113.8
Amount received for work done.....	58,460	124,124	-52.9

¹ A minus sign (—) denotes decrease.² Figures not available.

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

TABLE 27.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	129	174	-25.9
Persons engaged.....	206	260	-20.8
Proprietors and firm members.....	155	216	-28.2
Salaried employees.....	1	2	.....
Wage earners (average number).....	50	42	.....
Primary horsepower.....	4,042	6,043	-33.1
Capital.....	\$38,527	\$546,774	16.8
Salaries and wages.....	42,103	18,214	131.2
Salaries.....	600	580	3.4
Wages.....	41,503	17,634	135.4
Rent and taxes.....	6,437	(*)	.....
Cost of materials ²	2,574,678	1,094,889	135.2
Value of products ³	2,971,103	1,351,291	119.9

¹ A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.² Figures not available.³ Includes estimate of all grain ground.

GENERAL TABLES.

Table 28 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for selected industries in the state and in the cities of Des Moines and Sioux City, and for Davenport and each of the cities in the state having from 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined.

Table 29 presents, for 1919, for the state as a whole and for Davenport, Des Moines, and Sioux City, 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 28.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen-	Num-	Wage	Pri-	Wages,	Cost of	Value of	INDUSTRY.	Cen-	Num-	Wage	Pri-	Wages,	Cost of	Value of	
year.	sus-	ber of	ear-	horse-	thousan-	year.	mar-	products.	year.	ber of	ear-	horse-	power.	thousan-	year.	products.
Expressed in thousands.																

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.

All industries.....	1919	5,683	80,551	242,046	\$90,117	\$520,241	\$745,473	Bread and other bakery products.....	1919	538	2,583	3,376	\$2,973	\$12,511	\$20,244
	1914	5,614	63,113	190,049	39,860	206,451	310,750		1914	518	2,182	2,041	1,269	5,186	9,151
	1909	5,528	61,035	155,384	32,542	170,707	259,238		1900	495	1,647	1,172	846	4,147	6,818
Agricultural implements..	1919	26	906	2,306	1,082	2,822	5,959	Brick and tile, terra-cotta, and fire-clay products.....	1919	113	2,452	18,335	2,904	2,630	8,127
	1914	34	1,164	2,459	794	2,052	5,216		1914	168	3,168	20,081	2,169	2,021	6,400
	1909	42	1,318	2,554	683	2,171	4,757		1909	245	3,444	21,929	1,846	1,384	4,947
Artificialstone products..	1919	255	672	2,503	734	1,288	2,902	Brooms, from broom corn.....	1919	44	198	263	181	545	1,052
	1914	334	809	2,464	502	951	2,082		1914	40	196	248	111	260	572
	1909	308	730	1,730	397	932	1,569		1900	51	240	127	111	331	649
Automobile bodies and parts.	1919	37	400	552	469	816	1,713	Butter, cheese, and condensed milk.....	1919	434	1,663	10,135	1,756	50,481	57,800
	1914	10	29	34	20	22	68		1914	490	1,333	9,048	1,013	24,075	27,806
	1909	4	84	(1)	42	68	132		1909	512	1,231	8,911	856	22,842	25,880
Awnings, tents, and sails..	1919	18	77	91	62	214	417	Buttons.....	1919	77	2,091	2,340	1,519	2,477	5,615
	1914	19	92	89	46	189	330		1914	81	2,406	3,086	1,009	1,473	3,255
	1909	16	77	61	35	137	245		1900	70	3,172	2,809	1,412	1,414	4,035
Boots and shoes.....	1919	6	653	779	440	2,270	3,047	Canning and preserving ²	1919	76	1,582	6,949	1,099	6,735	10,223
	1914	9	389	427	244	501	845		1914	64	1,209	4,400	438	2,122	3,920
	1909	10	716	345	318	1,059	1,633		1909	71	1,247	2,989	299	1,568	2,640
Boxes, cigar.....	1919	7	60	57	44	67	179	Carpets, rag.....	1919	22	64	142	53	32	144
	1914	7	76	46	31	49	115		1914	24	79	103	41	23	104
	1909	7	79	59	26	54	112		1900	32	158	220	78	44	206
Boxes, paper and other, not elsewhere specified.	1919	10	238	178	142	978	1,438	Carriages and wagons and materials.	1919	63	493	1,689	432	1,008	2,155
	1914	8	125	98	43	81	176		1914	98	994	2,120	636	1,903	3,437
	1909	6	128	64	33	57	128		1900	119	1,441	2,387	828	2,748	4,788

¹ Figures not available.² Includes "canning and preserving, fruits and vegetables"; and "pickles, preserves, and sauces."

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

INDUSTRY.	Cen-	Num-	Wage	Pri-	Wages.	Cost of	Value of	INDUSTRY.	Cen-	Num-	Wage	Pri-	Wages.	Cost of	Value of	
year.	estab-	ber of	ear-	horse-		ma-	pro-	year.	year.	estab-	ers	year.	mar-	ma-	pro-	
Expressed in thousands.								Expressed in thousands.								
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.																
Cars and general shop construction and repairs by electric-railroad companies.	1919	15	323	538	\$402	\$312	\$770	Leather goods ^a	1919	120	411	412	\$511	\$2,604	\$4,225	
	1914	12	298	490	218	153	400		1914	157	557	422	393	1,905	3,054	
	1909	13	183	1,273	112	96	231		1909	67	600	380	353	1,812	2,855	
Cars and general shop construction and repairs by steam - railroad companies.	1919	51	13,536	12,063	18,906	12,210	33,099	Lumber and timber products. ⁴	1919	144	3,549	11,686	3,149	9,593	17,803	
	1914	36	8,024	9,337	5,988	4,734	11,434		1914	141	3,302	10,147	2,100	6,713	11,427	
	1909	33	6,069	5,937	4,535	5,149	10,269		1909	229	4,658	10,504	2,356	7,141	12,059	
Cleansing and polishing preparations.	1919	8	21	105	18	126	276	Marble and stone work...	1919	58	244	970	330	1,030	2,109	
	1914	6	17	71	11	63	138		1914	88	337	913	268	719	1,572	
	1909	3	5	(1)	3	18	41		1909	87	315	514	243	616	1,338	
Clothing, men's, including shirts.	1919	22	778	258	432	2,599	3,858	Mattresses and spring beds, not elsewhere specified.	1919	15	239	670	272	1,123	1,092	
	1914	22	654	369	322	1,065	1,670		1914	16	233	353	144	492	828	
	1909	23	1,480	479	425	1,412	2,496		1909	17	242	311	128	455	720	
Clothing, women's.....	1919	10	503	405	317	1,145	2,069	Millinery and lace goods, not elsewhere specified.	1919	4	47	8	29	118	264	
	1914	14	563	97	220	751	1,290		1914	5	33	4	10	11	39	
	1909	19	876	123	304	885	1,535	Mineral and soda waters..	1919	108	207	416	190	826	1,633	
Coffee, roasting and grinding.	1919	16	173	586	145	4,355	5,129		1914	117	278	424	168	506	1,111	
	1914	28	282	967	147	2,966	3,804		1909	99	232	304	125	294	794	
	1909	11	249	346	114	2,008	2,661	Optical goods.....	1919	9	71	31	56	110	350	
Coffins, burial cases, and undertakers' goods.	1919	8	318	511	321	872	1,649		1914	9	46	26	25	64	164	
	1914	6	234	414	145	386	720		1909	7	17	14	8	26	69	
	1909	8	242	494	132	388	753	Paints.....	1919	4	10	90	16	160	268	
Confectionery and ice cream..	1919	182	1,739	4,183	1,285	6,871	11,535		1914	4	25	226	14	94	166	
	1914	176	1,519	2,850	721	3,100	5,086		1909	4	18	170	12	85	154	
Cooperage.....	1919	14	111	263	115	499	806	Paper and wood pulp....	1919	4	136	1,932	141	293	612	
	1914	20	155	268	79	304	521		1914	3	87	1,312	54	183	280	
	1909	34	249	467	121	560	876		1909	4	205	1,435	81	281	437	
Copper, tin, and sheet-iron work.	1919	120	803	570	914	2,634	5,002	Patent medicines and compounds and drug-gists' preparations. ^b	1919	114	746	1,129	658	4,655	10,658	
	1914	88	558	503	386	1,439	2,489		1914	94	418	642	229	1,687	4,328	
	1909	71	585	1,925	334	1,505	2,414		1909	100	358	503	133	1,065	3,401	
Dairymen's, poultry-men's, and apiarists' supplies.	1919	12	434	1,249	514	1,869	3,177	Paving materials.....	1919	21	219	4,267	225	148	404	
	1914	7	394	1,012	233	1,305	1,923		1914	19	326	2,990	178	93	354	
	1909	17	730	736	395	966	1,964	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	1919	47	689	1,428	722	9,766	11,450	
Electrical machinery, apparatus, and supplies.	1919	7	82	90	79	140	280		1914	35	481	1,031	242	4,022	4,673	
	1914	5	94	88	58	87	235		1909	1,076	4,948	6,545	3,330	4,130	15,934	
	1909	9	64	84	31	74	200			1,110	4,853	5,527	2,501	3,287	12,129	
Flavoring extracts.....	1919	8	11	11	10	120	205	Printing and publishing ^c	1919	907	4,808	7,023	5,134	7,851	26,806	
	1914	8	17	32	10	60	114		1914	1,076	4,948	6,545	3,330	4,130	15,934	
	1909	6	21	(1)	8	53	110		1909	1,076	4,853	5,527	2,501	3,287	12,129	
Flour-mill and gristmill products.	1919	189	509	13,729	578	18,613	21,325	Signs and advertising novelties.	1919	17	350	232	331	639	2,367	
	1914	227	790	16,388	486	11,758	14,337		1914	17	57	26	53	94	233	
	1909	277	647	18,832	382	10,934	12,871		1909	5	26	2	19	13	46	
Food preparations, not elsewhere specified.	1919	30	2,441	16,021	2,368	45,262	54,994	Slaughtering and meat packing. ^d	1919	30	7,197	15,619	8,811	204,789	226,865	
	1914	24	1,371	5,238	806	11,393	15,480		1914	33	4,430	2,740	67,871	74,289		
	1909	24	833	3,124	406	7,169	9,795		1909	33	4,144	8,309	2,190	53,127	59,045	
Foundry and machine-shop products. ^e	1919	849	9,022	21,984	10,968	22,481	48,994	Soap.....	1919	7	82	140	68	993	1,427	
	1914	864	5,571	13,022	3,887	7,307	10,606		1914	8	115	290	71	978	1,418	
	1909	274	5,108	8,402	3,085	6,372	14,064		1909	9	150	270	58	910	1,382	
Fur goods.....	1919	20	268	158	270	805	1,846	Stoves and hot-air furnaces.	1919	10	412	636	547	990	3,096	
	1914	17	124	176	82	186	427		1914	17	393	618	289	409	1,213	
	1909	11	73	91	38	105	287		1909	14	352	484	222	362	890	
Furniture and refrigerators.	1919	39	1,018	1,990	1,073	1,938	4,024	Tobacco, cigars.....	1919	211	1,305	56	1,019	1,822	3,977	
	1914	40	1,233	3,302	780	1,504	2,879		1914	208	1,662	31	854	1,270	3,105	
	1909	44	1,074	2,453	606	1,336	2,650		1909	306	1,897	(1)	841	1,268	3,170	
Gas, illuminating and heating.	1919	68	727	5,316	846	2,641	5,738	Tools, not elsewhere specified.	1919	17	343	1,100	341	648	1,468	
	1914	113	768	4,349	497	1,638	4,066		1914	14	202	913	148	440	821	
	1909	117	806	2,043	380	1,111	2,803		1909	16	160	452	96	243	489	
Gloves and mittens, leather.	1919	6	290	81	189	753	1,520	Wall plaster and composition flooring.	1919	7	884	3,335	890	840	2,626	
	1914	8	195	94	85	359	626		1914	7	509	3,648	492	488	1,722	
	1909	10	234	236	94	373	663		1909	6	539	1,480	181	193	739	
Grease and tallow, not including lubricating greases.	1919	29	69	287	94	385	669	Washing machines and clothes wringers.	1919	14	1,063	1,418	1,213	4,620	8,815	
	1914	6	33	241	22	53	99		1914	14	375	685	237	1,490		
	1909	9	26	(1)	19	129	214		1909	11	341	651	178	541	1,117	
Ice, manufactured.....	1919	46	504	5,850	539	532	1,841	Wirework, not elsewhere specified.	1919	10	114	252	96	538	800	
	1914	34	192	3,469	150	202	579		1914	9	160	363	81	201	397	
	1909	18	151	2,045	101	64	290		1909	13	113	(1)	52	288	488	
Jewelry.....	1919	18	66	46	65	89	274	All other industries.....	1919	217	9,478	53,930	10,922	53,933	85,033	
	1914	16	54	52	39	28	102		1914	233	6,273	38,500	3,996	20,673	33,402	
	1909	16	95	127	53	49	155		1909	291	6,003	23,380	3,188	19,200	31,426	

^a Figures not available.^b Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "iron and steel, tempering, welding, etc." "machine tools"; "plumbers' supplies"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years and "hardware, saddlery" in 1914 and 1909.^c Includes "saddlery and harness"; and "trunks and valises."^d Includes "boxes, wooden packing, except cigar boxes"; and "lumber, planing-mill products, not including planing mills connected with sawmills."^e Includes "perfumery and cosmetics."^f Includes "bookbinding and blank-book making"; and "lithographing" in all years and "engraving, steel and copper plate, including plate printing" in 1914.^g Includes "sausage, not made in slaughtering and meat-packing establishments."

MANUFACTURES—IOWA.

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

INDUSTRY AND CITY.	Cen-sus-year.	Num-ber of estab-lish-ments.	Wage earners (aver-age num-ber).	Pri-mary horse-power.	Wages.	Cost of ma-terials.	Value of prod-ucts.	INDUSTRY AND CITY.	Cen-sus-year.	Num-ber of estab-lish-ments.	Wage earners (aver-age num-ber).	Pri-mary horse-power.	Wages.	Cost of ma-terials.	Value of prod-ucts.		
														Expressed in thousands.			
								CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.									
DAVENPORT ¹	1919	219	3,928	11,402	\$4,308	\$21,562	\$32,587	SIOUX CITY.....	1919	251	8,740	14,572	\$88,947	\$125,261	\$146,393		
All industries.	1914	231	3,958	9,121	2,402	10,116	17,173	All industries.	1914	220	4,753	11,046	3,198	40,810	49,479		
	1909	232	4,231	9,166	2,178	11,571	18,802		1909	136	3,750	8,807	2,131	30,388	37,425		
DES MOINES.....	1919	370	7,085	17,341	7,559	33,291	59,831	Automobile repairing.....	1919	33	115	176	173	213	565		
All industries.	1914	384	5,306	13,978	3,560	12,275	23,747		1914	3	30	20	20	20	78		
	1909	387	5,383	10,100	2,945	13,565	23,585	Bread and other bakery products.	1919	24	323	528	292	1,277	2,115		
Bread and other bakery products.	1919	39	350	295	320	1,736	2,944		1914	19	279	201	153	600	950		
	1914	35	238	299	146	591	1,070	Brooms, from broom corn.	1910	3	38	18	33	81	136		
	1909	32	201	131	106	472	793	Coffee, roasting and grinding.	1919	4	39	91	34	1,285	1,411		
Brick and tile, terra-cotta, and fire-clay products.	1919	8	295	1,520	383	317	1,002		1914	4	19	83	10	387	407		
	1914	10	445	2,000	312	313	823	Confectionery and ice cream.	1910	11	189	457	135	714	1,100		
	1909	11	323	2,464	198	189	513		1914	6	150	140	62	414	558		
Confectionery and ice cream.	1919	7	168	513	176	938	1,510	Copper, tin, and sheet-iron work.	1910	10	131	90	135	270	887		
	1914	8	155	194	111	265	551		1914	8	72	47	52	112	206		
Copper, tin, and sheet-iron work.	1919	12	111	71	137	281	663	Druggists' preparations...	1919	3	80	69	128	926	1,317		
	1914	16	60	40	43	160	307		1914	5	39	10	24	223	411		
	1909	10	51	43	40	82	173	Foundry and machine-shop products.	1910	0	92	182	124	107	320		
Flour-mill and gristmill products.	1919	5	40	615	43	1,329	1,488		1914	13	84	218	69	79	221		
	1914	6	39	433	24	506	579	Fur goods.....	1919	5	17	16	14	78	193		
	1909	6	42	271	23	653	757		1914	4	13	82	9	13	44		
Foundry and machine-shop products. ²	1919	26	227	519	295	674	1,400	Lumber, planing-mill products, not including planing mills connected with sawmills.	1910	5	159	632	214	388	805		
	1914	26	271	714	195	556	1,139		1914	6	108	525	120	229	462		
	1909	25	335	708	218	828	1,613	Mineral and soda waters.	1919	4	15	42	24	131	245		
Fur goods.....	1919	4	99	36	118	432	840	Printing and publishing, book and job.	1910	17	90	142	98	135	376		
	1914	4	38	30	24	42	100		1914	12	97	96	64	151	344		
Lumber, planing - mill products, not including planing mills connected with sawmills.	1919	10	180	490	187	725	1,463	Printing and publishing, newspapers and periodicals.	1910	11	261	468	342	723	1,705		
	1914	13	181	438	132	825	1,624		1914	15	238	727	207	287	861		
	1909	8	136	(*)	83	302	606	Saddlery and harness.....	1919	6	35	27	37	259	364		
Patent and proprietary medicines.	1919	18	145	215	107	421	1,479		1914	8	43	9	33	100	177		
	1914	16	136	240	64	225	842	Tobacco, cigars.....	1919	9	29	4	23	62	114		
	1909	21	107	(*)	49	268	816		1914	10	48	29	29	39	96		
Printing and publishing ⁴ .	1919	84	975	1,760	1,080	2,385	9,404	All other industries.....	1919	97	5,127	11,680	7,140	118,606	134,781		
	1914	87	965	1,281	737	1,161	4,501		1914	97	3,428	9,443	2,311	38,000	44,424		
	1909	85	863	981	498	979	3,267										
Stoves and hot-air furnaces.	1919	5	230	317	320	460	1,267										
	1914	4	143	211	107	100	439										
	1909	5	115	121	80	79	284										
Tobacco, cigars.....	1919	12	60	11	54	101	214										
	1914	10	74	2	40	64	142										
	1909	14	107	.....	49	73	178									
All other industries.....	1919	150	4,213	10,906	4,348	23,516	36,209										
	1914	149	2,561	7,540	1,625	7,467	11,630										
	1909	170	3,043	6,357	1,661	9,550	14,585										

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

BOONE.....	1919	30	369	437	\$375	\$699	\$1,550	IOWA CITY.....	1919	49	322	880	\$268	\$926	\$1,767
	1914	33	256	457	142	480	908		1914	61	350	714	212	571	1,333
	1909	33	166	313	83	222	469		1909	44	282	814	143	340	805
BURLINGTON.....	1910	97	2,274	4,875	2,170	6,782	12,090	KEOKUK.....	1919	71	1,598	7,527	1,540	11,917	17,555
	1914	118	2,246	3,093	1,316	3,751	8,896		1914	85	1,333	4,413	737	5,150	8,250
	1909	128	3,191	5,340	1,723	4,045	8,443		1909	91	1,541	3,219	770	4,884	7,399
CEDAR RAPIDS.....	1919	208	6,284	19,814	6,474	72,066	92,118	MARSHALLTOWN.....	1919	62	1,338	2,578	1,506	4,977	8,642
	1914	170	4,394	12,534	2,727	20,948	31,989		1914	61	1,060	2,388	693	3,338	5,150
	1909	153	3,935	7,224	1,869	15,050	24,824		1909	49	1,365	1,975	806	3,179	4,822
CLINTON.....	1919	119	3,452	9,884	4,000	19,345	30,321	MASON CITY.....	1919	59	2,367	18,078	2,850	23,054	29,513
	1914	105	2,679	8,842	1,614	6,949	10,427		1914	60	2,034	17,158	1,481	6,784	11,742
	1909	69	2,414	6,301	1,273	4,630	7,480		1909	49	807	3,729	470	1,706	2,881
COUNCIL BLUFFS.....	1919	111	1,891	3,978	2,474	5,542	10,611	MUSCATINE.....	1919	146	2,522	4,162	2,102	5,698	10,754
	1914	101	1,336	2,495	935	2,302	4,279		1914	142	2,397	4,871	1,166	3,009	5,999
	1909	101	1,434	1,768	845	1,057	3,769		1909	113	3,498	4,560	1,575	2,738	6,166
DUBUQUE.....	1919	131	6,147	10,861	6,024	19,952	34,277	OTTUMWA.....	1919	94	2,601	5,509	2,877	36,501	45,030
	1914	139	5,171	9,098	2,926	8,188	14,714		1914	88	2,447	4,434	1,498	18,014	21,300
	1909	156	5,180	9,623	2,602	6,002	15,249		1909	93	2,650	4,332	1,319	12,106	14,838
FORT DODGE.....	1919	80	1,605	4,178	1,395	7,198	10,884	WATERLOO.....	1919	161	4,020	9,910	5,791	23,393	35,481
	1914	56	951	2,930	612	3,118	4,871		1914	144	3,483	9,583	2,537	7,813	14,126
	1909	44	1,115	2,204	421	1,812	2,975		1909	108	3,124	4,247	1,793	4,642	8,999

¹ Comparative statistics by industries for 1914 and 1909 not available.² Includes "automobile repairing"; "gas machines and gas and water meters"; "iron and steel, welding"; "pumps, power, other than steam"; and "structural iron-work, not made in steel works or rolling mills," in all years; and "engines, steam, gas, and water" and "hardware," in 1914.³ Figures not available.⁴ Includes "bookbinding and blank-book making" in all years and "lithographing" in 1914 and 1909.

MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

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

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

1	All industries.....	5,083	105,439	5,393	5,572	9,312	4,611	80,551	No 85,825	Fe 75,141	(8)	(8)	(8)	(8)	(8)	Dollars. 403,205,513	
2	Agricultural implements.....	26	1,141	20	93	69	53	906	De 991	Ja 854	1,017	985	22	10	....	5,232,334
3	Artificial stone products.....	255	1,081	280	79	30	20	672	Se 938	Jb 311	915	909	3	3	....	3,077,059
4	Automobile bodies and parts.....	37	560	37	34	19	19	460	No 598	Ap 348	553	482	59	12	....	1,234,457
5	Automobiles.....	6	151	1	19	15	12	104	Jo 131	Au 64	100	100	....	....	....	1,220,136
6	Automobile repairing.....	579	2,311	735	81	51	89	1,365	Au 1,532	Ja 1,119	1,430	1,409	19	2	....	4,412,673
7	Awnings, tents, and sails.....	18	126	18	14	4	13	77	Ja 4	49	73	53	20	....	....	200,288
8	Bookbinding and blank-book making.....	12	160	12	9	37	17	85	De 91	Sc 80	92	48	42	1	1	115,431	
9	Boots and shoes.....	6	740	2	26	38	21	653	Je 701	No 610	658	312	332	10	4	1,752,067	
10	Boxes, cigar.....	7	81	4	7	1	69	De 76	Jy 64	70	29	45	20	....	2,111,879	
11	Boxes, paper and other, not elsewhere specified.....	10	206	4	16	4	4	238	De 259	Ap 220	260	80	171	3	6	407,307	
12	Boxes, wooden packing, except cigar boxes.....	15	168	15	11	4	3	135	Ja 143	Jy 127	135	127	2	0	....	293,195
13	Brass and bronze products.....	5	39	6	5	2	1	25	Jy 4	30	Ja 8	20	25	4	....	142,828
14	Bread and other bakery products.....	538	3,992	609	165	354	281	2,583	No 1,090	Mh 755	2,873	1,813	965	63	32	9,401,672	
15	Biscuit and crackers.....	7	1,229	.....	38	174	58	950	De 1,824	Ja 1,425	1,063	466	583	2	12	3,656,987
16	All other.....	531	2,763	609	127	180	223	1,624	De 1,793	Ja 1,295	1,810	1,347	382	61	20	5,744,685	
17	Brick and tile, terra-cotta, and fire-clay products.....	113	2,854	97	167	106	32	2,452	.....	.....	2,768	2,758	3	7	....	13,059,960
18	Building brick.....	20	522	20	20	11	6	450	Se 644	Ja 123	547	545	1	1	....	3,643,025
19	Sewer pipe and drain tile.....	63	1,446	54	92	43	15	1,242	Au 1,638	Ja 561	1,407	1,405	2	....	6,358,761	
20	Terra-cotta products.....	17	702	12	35	48	9	598	Je 741	Ju 342	618	612	....	6	....	3,257,587
21	All other.....	4	184	5	11	4	2	162	Ja 215	De 77	196	196	....	....	....	700,616
22	Brooms, from broom corn.....	44	302	58	20	20	9	198	De 218	Jy 182	218	151	64	2	1	742,182	
23	Butter.....	411	2,386	234	273	162	122	1,595	Ja 1,581	Mh 1,243	1,637	1,378	250	9	....	9,292,240
24	Buttons.....	77	2,347	77	83	62	84	2,091	De 2,497	My 1,930	2,575	1,686	801	23	65	4,795,300	
25	Canning and preserving, fruits and vegetables.....	62	1,540	32	157	48	32	1,271	Se 5,365	Fe 326	3,514	1,802	1,637	11	4	7,826,193	
26	Carpets, rag.....	22	103	22	5	7	5	64	Au 75	Ja 53	62	33	29	....	....	84,428
27	Carriage and wagon materials.....	8	129	4	15	11	5	94	De 113	Ja 70	113	113	....	....	....	407,990
28	Carriages and wagons, including repairs.....	60	573	78	25	54	17	399	.....	.....	452	445	7	....	....	2,181,674
29	Carriages and wagons.....	31	504	39	24	54	16	371	De 430	Fe 320	422	415	7	....	....	2,041,394
30	Repair work only.....	29	69	39	1	1	1	28	Ja 31	My 25	30	30	....	....	....	140,280
31	Cars and general shop construction and repairs by electric-railroad companies.....	15	345	.....	13	4	5	323	Mh 331	Au 312	321	316	5	....	....	841,003
32	Cars and general shop construction and repairs by steam-railroad companies.....	51	14,214	.....	522	29	127	13,536	De 14,037	Ja 13,157	14,015	13,944	71	....	....	17,410,294
33	Cement.....	4	1,170	.....	29	99	25	1,017	Se 1,310	Ja 4	536	1,041	1,025	16	....	11,747,401
34	Cheese.....	20	37	19	1	1	1	17	Mh 19	Do 12	20	19	1	....	....	96,375
35	Chemicals.....	5	103	.....	14	12	5	72	Ja 109	Ap 32	104	100	4	....	....	1,051,227
36	Cleansing and polishing preparations.....	8	70	2	15	16	16	21	Ja 26	De 16	24	23	1	....	....	231,967
37	Clothing, men's.....	18	844	1	48	71	19	705	.....	.....	840	58	774	1	7	2,424,639
38	Men's and youths'.....	4	195	.....	9	22	5	159	De 187	Ap 142	187	19	162	1	5	931,874
39	All other.....	14	649	1	39	49	14	546	De 657	Mh 418	653	39	612	2	....	1,452,665
40	Clothing, women's.....	10	613	4	45	43	18	503	Oc 556	My 467	532	128	404	....	....	1,828,887
41	Coffee, roasting and grinding.....	16	331	7	36	68	17	173	Au 184	Ap 163	170	71	105	....	....	2,349,135
42	Collins, burial cases, and undertakers' goods.....	8	390	1	25	38	8	318	De 330	My 307	340	271	65	3	1	1,604,630	
43	Condensed milk.....	3	58	.....	3	2	2	51	Ja 57	Ap 45	45	38	7	....	....	541,409
44	Confectionery and ice cream.....	182	2,432	201	145	241	106	1,739	.....	.....	1,971	810	1,118	35	8	4,955,569
45	Confectionery.....	50	1,759	55	83	196	57	1,388	No 1,697	Jy 1,143	1,506	506	1,080	2	8	3,087,534	
46	Ice cream.....	123	673	146	62	45	49	371	Jy 547	Ja 238	375	304	33	33	....	1,888,035
47	Cooperage.....	14	137	15	5	1	5	111	.....	.....	121	120	1	....	....	337,382
48	Hogsheads and barrels.....	7	57	6	2	2	2	47	De 55	Ja 37	55	55	55	....	....	184,037
49	All other.....	7	80	9	3	1	3	64	Ja 78	De 44	66	65	1	....	....	153,815
50	Copper, tin, and sheet-iron work.....	120	1,123	118	86	64	52	803	De 924	Mh 654	939	916	18	7	....	3,079,470
51	Cutlery and edge tools.....	3	57	2	1	30	24	24	Ja 31	Jy 20	20	28	15	10	2	1	43,016
52	Dairymen's, poultrymen's, and apiculturists' supplies.....	12	575	7	33	66	35	434	.....	.....	510	497	13	....	....	2,411,164
53	Poultrymen's supplies, other than incubators and brooders.....	6	39	7	5	1	2	24	Au 4	31	Ja 15	32	26	6	158,013
54	All other.....	6	536	.....	28	65	33	410	Mh 512	Au 241	478	471	7	....	....	2,253,151
55	Druggists' preparations.....	15	374	7	50	55	28	234	Jy 258	Fe 205	251	192	59	....	....	1,606,666
56	Electrical machinery, apparatus, and supplies.....	7	118	4	17	6	9	82	De 96	Fe 72	96	81	15	....	....	325,058
57	Electroplating.....	6	30	8	1	1	1	21	No 29	Fo 13	28	25	....	3	....	28,567
58	Engines, steam, gas, and water.....	17	3,482	2	208	302	231	2,739	Mh 3,536	Au 1,489	2,929	2,905	22	2	....	13,427,407
59	Flavoring extracts.....	8	22	3	4	1	3	11	Au 16	Fo 7	16	11	5	....	....	129,090
60	Flour-mill and gristmill products.....	189	928	219	82	79	39	509	De 576	Jy 475	558	578	7	....	....	9,116,142
61	Food preparations, not elsewhere specified.....	30	3,465	29	45	40	190	2,441	De 2,651	Fo 1,622	2,809	2,176	601	1	1	21,908,026	
62	Breadstuff preparations, cereals and breakfast foods.....	7	3,361	3	32	829	175	2,322	No 3,071	Ap 1,620	1,994	655	1	I	....	21,037,383
63	Sweetening sirups, other than cane.....	11	48	14	2	1	26	Se 105	Ja 4	3	107	101	6	....	....	272,747
64	All other.....	12	161	12	18	29	14	93	Au 117	Ap 73	111	81	30	....	....	598,516
65	Foundry and machine-shop products.....	198	4,003	182	334	371	187	3,520	.....	.....	3,976	3,880	82	13	1	16,205,005
66	Boiler shops.....	11	112	14	8	3	6	81	Oc 93	MY 70	87	79	....	8	....	412,582
67	Foundries.....	17	742	11	45	15	6	605	De 835	At 528	867</td						

MANUFACTURES—IOWA.

25

COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.										POWER.									
Salaries and wages.			Rent and taxes.			For materials.				Value of products.	Value added by manufacture.	Primary horsepower.					Electric horsepower generated in establishments reporting.		
Officials.	Clerks, etc.	Wage earners.	For contract work.	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. ¹	Rent ed. ²					
327,991	156,642	1,082,273	350	3,149	184,820	2,740,546	81,051	5,959,129	3,136,932	2,396	305	99	1,992	2	2	2	2	2	
139,316	48,095	734,420	19,798	29,703	21,232,251	55,697	2,902,302	1,674,354	2,563	456	437	247	1,423	23	3	23	23	3	
79,614	60,657	469,091	9,004	22,129	22,532	793,817	19,824	1,713,008	893,567	532	150	402	161	161	4	4	4	4	
48,198	32,989	126,342	15,690	3,485	7,532	1,411,106	11,407	1,581,005	431,492	161	1	17	803	2,419	4	6	5	5	
134,473	121,874	1,736,347	8,811	187,061	30,918	2,187,167	144,038	5,806,835	3,474,730	3,232	10	91	17	74	7	7	7	7	
27,581	24,707	62,370	300	12,355	12,089	206,618	3,021	416,680	203,141	1	1	92	1	504	9	9	9	9	
14,621	84,869	64,865	4,500	8,281	12,591	133,412	2,065	421,508	285,101	1	1	1	1	1	1	1	1	1	
62,249	95,074	44,358	3,126	9,000	6,552	2,254,100	15,733	3,047,187	777,315	770	275	1	1	1	1	1	1	1	
13,344	675	44,265	1,500	1,345	64,752	2,082	170,446	112,012	57	57	1	1	1	1	1	1	1	1	
28,431	11,807	142,137	11,329	52,330	971,072	7,260	1,437,506	459,264	178	60	118	118	118	118	118	118	118	118	
29,170	4,135	105,388	2,400	2,112	342,802	7,448	534,632	181,292	621	425	4	102	7	12	12	12	12	12	
19,512	2,608	33,910	280	551	144,988	8,072	221,016	71,846	51	51	51	51	51	51	51	51	51	51	
355,470	787,415	2,973,473	9,777	195,140	230,380	12,092,031	417,066	20,244,007	7,733,476	3,376	608	2	79	1	2,596	608	14	14	14
109,378	420,531	748,812	2,085	184,552	2,030,222	61,496	5,833,172	2,832,454	1,214	603	521	521	521	521	521	521	521	521	521
244,101	366,884	2,224,631	9,777	102,155	154,828	9,150,409	353,461	14,410,895	4,901,022	2,162	5	2	79	1	2,075	20	20	20	20
365,455	184,193	2,994,261	25,489	21,700	97,405	945,135	1,691,077	8,127,157	5,487,915	18,335	10,823	280	451	1	6,781	586	17	17	17
61,746	17,837	507,705	778	15,139	19,434	122,771	280,368	1,301,030	837,951	4,216	2,400	80	12	12	1,754	45	18	18	18
180,623	72,520	1,451,216	680	3,346	45,512	621,150	852,680	3,028,739	2,651,543	8,838	6,513	200	303	1,732	511	19	19	19	19
88,790	86,193	705,980	21,531	2,081	27,608	239,907	427,146	2,256,864	1,580,811	3,436	1,210	40	40	2,180	30	20	20	20	20
25,287	7,643	200,770	2,500	1,200	4,921	61,307	133,877	550,824	356,610	1,815	700	1	1	1	1,115	1,115	21	21	21
41,267	49,487	150,702	142	3,345	6,450	637,177	7,747	1,052,237	607,313	283	130	18	18	115	115	22	22	22	22
450,718	310,443	1,678,637	61,371	35,728	276,080	48,946,055	492,526	50,422,237	6,082,806	9,681	5,422	117	781	47	3,314	568	23	23	23
239,687	159,025	1,519,448	131,538	16,153	63,606	2,411,221	65,567	5,615,405	3,138,677	2,310	1,595	608	608	7	7	24	24	24	24
308,223	103,942	875,204	100,000	10,304	252,830	6,147,037	119,315	8,014,770	2,748,418	6,611	4,280	40	40	2,126	495	25	25	25	25
8,980	10,848	53,404	250	3,400	608	20,813	5,290	144,434	112,331	142	142	24	118	118	118	118	118	118	118
44,377	16,759	99,104	1,886	3,748	355,000	10,061	610,090	244,132	438	125	9	304	304	304	304	304	304	304	304
43,101	55,108	322,971	1,505	13,020	14,588	611,497	29,728	1,544,388	903,158	1,251	624	138	138	138	489	14	28	28	28
43,104	55,108	297,181	1,505	12,211	13,206	554,807	25,424	1,397,468	817,237	1,088	624	83	83	83	381	8	29	29	29
22,327	60	35,700	1,709	1,392	56,600	4,304	700,566	146,015	163	163	55	55	55	55	108	6	30	30	30
9,185	401,530	7,188	12,071	12,071	297,402	14,303	700,566	457,771	538	538	50	50	50	50	488	8	31	31	31
1,400,793	546,479	18,900,237	1,015	105,975	11,221,140	997,830	33,098,000	20,879,030	12,063	7,020	2,418	166	166	166	2,450	12,300	32	32	32
91,261	194,432	1,515,337	85,233	200	17,342	245,010	3,407,150	1,712,930	8,121,014	2,940,928	17,331	13,725	3,600	6	17,953	33	33	33	33
25,194	21,094	76,927	825	145	243,072	4,794	284,145	35,370	100	93	2	5	5	5	34	34	34	34	34
29,083	33,729	18,409	2,682	4,597	124,035	17,068	250,600	70,706	558,084	237,339	834	225	609	609	35	35	35	35	35
135,528	152,154	300,985	4,200	29,930	162,885	2,538,270	12,398	3,717,154	1,100,488	239	239	100	100	100	100	36	36	36	36
100,569	122,098	288,021	4,200	22,749	107,008	1,048,292	9,035	8,855,133	807,176	157	157	82	82	82	82	38	38	38	38
144,736	87,978	316,015	4,865	36,700	1,102,856	4,024	128,856	21,049	923,069	405	275	130	130	130	130	40	40	40	40
90,408	150,987	145,248	20,037	48,502	4,390,311	15,030	5,128,536	773,295	586	586	110	110	110	110	476	41	41	41	41
72,691	111,812	320,870	6,000	154,649	851,138	21,094	1,048,790	776,558	511	511	180	180	180	180	331	42	42	42	42
35,999	6,958	60,237	5,644	4,140	755,035	37,559	1,093,716	301,122	354	340	340	340	340	340	14	43	43	43	43
353,347	635,285	1,285,300	24,037	92,100	510,037	6,081,838	189,065	11,534,028	4,603,725	4,183	1,427	61	312	2,383	182	44	44	44	44
246,084	566,533	878,647	53,602	477,620	4,231,065	95,118	7,566,052	3,230,839	1,889	1,041	848	848	848	848	177	45	45	45	45
137,263	68,749	400,743	24,037	33,598	42,317	2,450,143	93,947	3,067,076	1,423,888	2,94	389	61	312	1,635	5	40	40	40	40
10,500	1,588	53,613	50	410	28,380	293,405	3,418	4,118	460,707	1,202	75	20	20	20	7	48	48	48	48
5,520	3,600	61,773	80	133	2,052	197,326	5,292	336,087	133,400	101	117	4	4	4	40	49	49	49	49
174,407	129,742	913,977	11,083	32,400	71,555	2,601,327	32,508	5,061,930	2,428,004	570	40	54	54	476	4	50	50	50	50
3,114	8,016	13,971	43	18,120	1,352	1,352	1,352	1,352	1,352	21	21	21	21	21	21	51	51	51	51
98,067	125,800	514,371	6,327	78,330	1,830,447	32,130	1,70,081	1,308,404	1,249	660	660	660	660	660	660	699	699	699	699
0,617	2,813	22,450	3,412	210	136,482	1,172	251,973	117,319	51	51	51	51	51	51	51	53	53	53	53
88,450	123,077	491,012	2,915	78,111	1,000,965	30,058	2,922,008	1,191,085	1,198	550	550	550	550	550	550	648	648	648	648
172,741	175,708	200,330	1,050	19,000	104,400	1,906,225	14,894	3,070,077	1,058,958	161	161	10	10	10	151	55	55	55	55
24,561	16,940	78,735	2,268	2,246	135,025	3,880	280,300	140,801	90	90	10	10	10	80	80	80	80	80	80
1,800	26,435	2,615,977	3,926	10,823	451,023	8,001,234	293,264	17,610,778	8,716,280	7,799	2,085	62	62	5,062	878	58	58	58	58
10,330	4,597	9,589	3,200																

MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	Gas, illuminating and heating.....	68	1,052	1	101	135	88	727	De 750	Fe 696	816	813	3	.....	Dollars, 20,600,750
2	Gas machines.....	5	24	1	3	1	2	17	No 20	Ja 14	10	19	.....	129,405	
3	Glass, cutting, staining, and ornamenting.....	5	16	4	5	12	12	.....	Oc 17	Ja 3	15	13	2	8	8,469
4	Gloves and mittens, leather.....	6	415	5	25	71	24	290	Jy 311	Ja 263	310	125	170	7	1,318,008	
5	Gloves and mittens, cloth, not including gloves made in textile mills.....	6	276	3	10	13	6	244	Ja 321	Se 204	280	30	251	2	661,901	
6	Glucose and starch.....	4	1,168	.....	34	93	34	1,007	Ja 1,431	De 703	1,216	1,183	33	.....	10,548,184
7	Grease and tallow, not including lubricating greases.....	29	106	30	4	1	2	69	.....	.....	76	76	.....	354,772	
8	Soap stock.....	25	97	24	4	1	2	66	Oc 3	73	Ap 60	72	72	.....	319,892
9	All other.....	4	9	6	.....	.....	.....	3	Se 4	Ja 2	4	4	.....	34,880	
10	Hand stamps.....	7	18	8	.....	.....	.....	10	Se 15	Ja 8	13	11	2	.....	31,783
11	Hardware.....	10	725	9	38	61	39	578	No 718	Ja 469	711	620	90	1	2,039,362	
12	Hats and caps, other than felt, straw, and wool.....	4	79	3	5	6	2	63	De 110	My 29	110	23	87	.....	162,078
13	Ice, manufactured.....	46	661	35	65	32	25	504	Jy 717	De 313	336	333	3	.....	4,020,805
14	Instruments, professional and scientific.....	4	10	4	.....	1	1	5	Oc 6	Mh 4	6	6	.....	11,361	
15	Iron and steel, tempering, welding, etc.....	8	34	11	1	1	2	19	Au 30	Ja 12	20	19	1	.....	69,188
16	Jewelry.....	18	108	17	11	7	7	66	Se 79	Ja 56	73	67	5	1	161,270	
17	Lithographing.....	4	165	1	13	15	9	127	No 144	My 118	141	97	41	3	323,913	
18	Lubricating greases.....	3	21	.....	7	1	13	Ja 15	No 12	12	12	.....	89,900		
19	Lumber and timber products.....	32	260	31	13	10	3	203	Se 234	Au 179	268	267	1	.....	553,218
20	Lumber, planing-mill products, not including planing mills connected with sawmills.....	97	3,934	76	171	388	140	3,211	No 3,633	Ja 2,451	3,630	3,471	144	23	1	12,908,813
21	Marble and stone work.....	58	403	73	23	43	15	244	.....	.....	264	263	1	.....	1,382,568
22	Monuments and tombstones.....	49	302	64	24	33	12	169	My 178	Ja 150	178	177	1	.....	1,065,827
23	Other marble and stone work, except slate.....	9	101	9	4	10	3	75	Au 102	Fe 41	86	86	.....	316,941	
24	Mattresses and spring beds, not elsewhere specified.....	15	316	7	25	32	13	239	No 275	Ja 169	275	223	46	4	2	1,104,975
25	Millinery and lace goods, not elsewhere specified.....	4	71	2	6	1	15	47	Oc 57	Jy 38	50	5	44	1	123,700	
26	Mineral and soda waters.....	108	430	130	41	32	20	207	Jy 345	Ja 118	215	200	4	11	1,567,747	
27	Models and patterns, not including paper patterns.....	8	26	8	.....	1	17	Jy 20	Ap 13	17	17	17	.....	31,515	
28	Musical instruments and materials, not elsewhere specified.....	4	7	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,250	
29	Optical goods.....	9	108	5	7	5	15	71	Se 79	Ja 64	60	41	15	2	2	228,527
30	Paints.....	4	30	8	9	3	10	10	Jy 11	Ja 8	11	11	.....	203,763	
31	Paper and wood pulp.....	4	151	1	6	5	3	136	Fo 101	Se 70	187	161	26	.....	2,515,745
32	Patent medicines and compounds.....	90	1,541	68	131	776	173	393	429	239	185	1	4	4,215,997
33	Patent and proprietary medicines.....	81	1,522	58	130	775	172	387	Se 408	Ja 368	421	232	184	1	4	4,154,750
34	Patent and proprietary compounds, not elsewhere specified.....	9	19	10	1	1	1	6	Se 10	Ja 5	8	7	1	.....	61,247
35	Paving materials.....	21	273	14	18	18	4	219	Se 300	Ja 99	279	279	.....	1,145,814	
36	Perfumery and cosmetics.....	9	225	10	19	61	16	119	De 137	My 109	137	26	111	.....	730,555
37	Photo-engraving.....	3	30	2	6	3	3	19	Se 26	Mh 11	23	21	2	.....	40,900
38	Pickles, preserves, and sauces.....	14	435	9	27	55	33	311	Au 492	Fe 228	329	176	128	3	22	1,985,904
39	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	47	900	55	49	69	38	689	De 1,648	Mh 251	1,430	1,184	268	3	5	2,642,122
40	Printing and publishing, book and job.....	207	1,775	199	160	27	145	1,244	De 1,361	Ja 1,134	1,423	902	484	27	15	3,971,693
41	Job printing.....	191	1,697	188	152	16	134	1,207	Fe 3	Ap 10	1,387	809	476	27	15	3,805,327
42	Book publishing and printing.....	8	40	5	3	10	10	12	Fe 14	Ap 10	10	13	7	6	74,891
43	Linotype work and typesetting.....	8	38	6	5	1	1	25	No 28	Fe 20	28	28	26	2	91,475
44	Printing and publishing, newspapers and periodicals.....	774	6,363	826	437	1,050	698	3,352	3,501	2,530	812	150	9	15,646,132
45	Printing and publishing.....	31	1,003	14	101	265	140	474	De 502	Fe 443	505	456	37	12	2,216,575
46	Printing, publishing, and job printing.....	679	5,059	787	268	729	413	2,862	De 3,243	Ja 2,717	2,976	2,064	765	138	9	12,474,361
47	Publishing without printing.....	64	301	25	68	56	136	16	Fe 21	Ja 12	20	10	10	.....	855,493
48	Pumps, steam and other power.....	4	409	16	52	18	323	De 378	Ja 271	378	339	20	16	1,373,813
49	Refrigerators.....	3	148	.....	11	7	6	124	De 134	Se 115	134	131	3	.....	445,210
50	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	9	977	1	40	59	38	839	Oc 995	Ja 540	1,008	940	68	.....	9,928,488
51	Saddlery and harness.....	110	618	126	34	51	12	395	Oc 496	Jy 330	379	372	7	.....	3,052,322
52	Sausages, not made in slaughtering and meat-packing establishments.....	9	89	8	6	7	5	63	De 75	Ap 53	65	63	2	.....	92,446
53	Shipbuilding, wooden, including boat building.....	5	11	6	.....	.....	5	Se 9	Oc 3	6	6	6	.....	33,680	
54	Shirts.....	4	96	.....	10	6	7	73	Au 85	Fe 64	70	68	1	.....	70,347
55	Signs and advertising novelties.....	17	643	11	35	123	124	350	420	230	182	2	6	1,979,338
56	Electric signs.....	3	22	4	2	1	2	14	No 19	Fe 8	17	17	17	.....	21,022
57	Other signs.....	7	42	6	2	1	4	29	No 41	Mh 21	38	37	1	.....	109,627
58	Advertising novelties.....	7	579	1	31	122	118	307	No 404	Fe 204	365	176	181	2	6	1,845,689
59	Slaughtering and meat packing.....	21	8,965	11	145	1,355	320	7,134	Ja 8,170	Se 6,032	8,051	7,240	793	15	3	50,813,263
60	Slops.....	7	135	7	14	20	6	82	Se 85	Ap 57	88	61	26	1	1,009,268
61	Stationery goods, not elsewhere specified.....	3	11	4	3	1	2	1	(4)	1	1	1	1	1	14,696
62	Steam fittings and steam and hot-water heating apparatus.....	5	245	2	31	26	19	167	Au 176	Mh 157	176	166	10	.....	912,328
63	Stoves and hot-air furnaces.....	10	554	1	40	69	32	412	Oc 526	My 311	492	491	1	.....	2,913,549
64	Structural ironwork, not made in steel works or rolling mills.....	17	319	7	28	46	14	224	Se 281	Mh 147	240	240	.....	1,477,689	
65	Tobacco, chewing and smoking, and snuff.....	6	59	6	3	5	3	42	Fe 45	No 38	43	17	26	.....	344,380

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

MANUFACTURES—IOWA.

27

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.									POWER.								
Salaries and wages.			Rent and taxes.			For materials.			Value added by manufacture.	Primary horsepower.					Electric horse-power 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.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹	Rented. ²				
184,472 5,040	217,506 3,156	846,497 17,874	10,080 533	324,981 1,638	874,171 441	1,767,102 23,363	5,737,027 1,149	3,000,354 105,958	5,316 24	3,627 39,446	545 8	147 23,015	1	696 24	1,103 2	1	1,103
89,379 21,307	135,809 11,005	188,826 97,937	180 430	2,970 5,030	14,115 5,928	748,709 521,116	4,052 4,062	1,519,893 757,257	81 112	30 231,479	112 112	112 112	112 112	112 112	112 112	112 112	112 112
239,476 16,440	375,388 2,169	1,498,247 94,060	5,170 3,028	344 57,019	1,012,199 365,217	17,012,556 18,344	24,088,750 609,239	7,047,379 284,465	8,418 287	1,741 47	4,759 47	4 47	1,914 1,914	5,552 5	6 7	6 7	
16,440	2,169	89,375 4,694	2,170 3,000	2,258 770	56,900 950	353,801 11,416	18,344 1,213	635,432 33,807	265 22	207 2	45 21,178	13 11	13 11	13 11	8 10	8 10	
113,104 12,085	137,720 5,080	581,641 52,007	60,000 2,784	5,340 983	65,431 104,836	891,299 950	27,033 280,063	2,257,523 1,339,191	531 7	125 114,877	125 114,877	125 114,877	125 114,877	125 114,877	125 114,877	125 114,877	
157,449 2,000	46,356 2,447	539,271 28,907	3,020 15	5,675 3,270	50,446 143	186,727 23,410	345,750 5,882	1,841,012 91,389	5,850 62,087	4,140 20	445 46	445 46	445 46	1,274 20	371 15	13 14	
16,041 50,492	7,978 61,070	65,303 146,710	701 4,490	6,111 9,000	4,080 8,630	86,461 330,557	2,075 4,857	273,000 744,402	184,524 400,048	138 138	46 46	46 46	46 46	46 46	46 46	46 46	
90,564 483,783	31,115 683,990	254,201 2,789,381	11,973 74	2,393 18,031	11,211 263,565	444,854 8,640,970	11,524 135,826	970,084 514,306	72 1,461	12 823	15 900	63 64	63 900	560 2,907	19 3,320	19 20	
77,607 65,941	118,383 85,905	339,301 230,094	18,238 18,238	12,578 8,411	17,087 14,543	1,000,385 777,414	29,082 222,071	2,168,561 844,433	970 478	75 75	10 19	885 384	885 501	21 22	21 23		
58,347	44,600	272,350	100	8,478	78,986	1,107,822	14,889	1,091,554	670	94	94	94	94	576	13	24	
13,983	13,504	29,315	6,715	14,604	117,263	594	283,724	145,807	8	8	8	8	8	25	25	
81,235	48,121	189,922	5,092	21,743	100,879	798,057	27,528	1,032,801	807,216	416	60	18	18	332	26	27	
.....	520	28,070	1,270	401	14,025	827	63,288	47,536	30	30	30	27	
.....	276	66	1,180	00	7,704	6,439	3	3	28	28	
22,033 29,521	15,407 41,049	55,504 10,047	.....	7,014 3,748	11,401 2,759	108,013 157,559	1,085 2,087	349,055 288,434	239,657 108,808	31	.....	.....	.....	31	29
32,400 284,563	11,857 1,180,392	141,161 332,404	.....	6,614 3,476	224,252	68,401	6,614 20,000	612,132 1,033,126	319,479 20,776	1,932	1,025	1,025	907	3	31	
284,260 303	1,178,940 1,452	329,092 3,320	.....	150	26,320	172,809 1,918,010	20,307	6,315,918 6,315,611	4,376,611 837	73	73	73	606	93	32	
25,914 53,950	23,410 117,013	225,312 59,301	.....	15,225 6,880	2,080 14,960	101,006 680,985	47,203 4,459	464,424 1,239,587	316,135 549,143	4,267	2,708	48	1,511	35	35	
16,613 63,565	2,070 111,487	24,415 224,058	1,414 314	1,800 3,480	39 40,996	10,826 1,445,700	760 22,825	82,140 2,208,457	70,500 739,872	16	16	16	134	221	38		
93,256 113,382	722,108	.....	23,255	23,793	9,700,560	50,237	32,033	18,038	837 11,449,501	27	27	27	27	27	34	
278,306 370,584	270,907 263,630	1,176,730 1,130,839	35,900 28,243	114,813 37,801	38,088 1,027,239	1,844,838 56,500	50,022 5,021,824	5,200,600 3,181,016	1,440 1,423	20	29	29	1,411	1	40		
3,900 3,022	14,902 11,375	11,734 34,166	9,666 3,146	2,306 1,738	102 725	8,028 8,071	242 2,211	65,711 70,025	56,841 70,843	6	6	6	6	6	42		
1,222,800 1,658,300	1,056,923 1,068,080	3,746,063 11,550	470,070	245,771	355,805	5,102,404	303,034	20,430,968 14,964,568	5,353	490	4	445	8	4,397	44		
200,978 794,006	441,523 1,038,542	586,675 1,146,990	14,760 32,245	32,201 187,672	130,424 215,654	994,005 3,974,809	100,163 203,180	3,082,175 15,510,172	2,658,007 11,332,003	950	499	499	14	945	45		
123,816 69,496	178,235 78,283	12,389 404,731	412,071 44,911	25,808 40,996	3,727 44,911	193,560 605,347	591 40,834	1,238,609 1,379,019	1,044,458 732,838	4,383	431	431	8	8,441	46		
19,080 187,077	27,743 105,923	138,944 1,008,080	4,738 11,550	840 13,321	10,766 283,040	294,990 3,598,237	4,275 121,498	566,034 6,338,253	207,369 2,013,520	197	195	195	2	582	48		
102,955 13,025	72,409 11,107	498,040 73,257	470	28,082 3,060	232,016 604	2,568,298 304,175	21,155 3,843	4,167,588 502,820	1,578,135 134,808	409	75	34	300	51	52		
.....	4,580	30	120	530	15,766	291	36,936	20,889	26	4	16	6	6	53	53		
17,061 121,770	10,929 551,306	40,895 331,487	.....	2,505 9,357	549 20,882	47,438 624,122	1,058 14,555	141,338 2,307,016	92,842 1,728,339	19	.....	.....	19	54	
3,120 3,040	720 3,458	16,205 34,399	1,302 5,326	42 472	8,094 44,351	248 360	30,043 116,578	22,301 67,888	4,301 33	2	2	2	2	56			
118,010 623,662	547,128 2,805,072	280,823 8,738,195	2,639 211,904	29,308 212,155	607,677 1,380,394	13,038 203,215,931	2,219,705 1,204,755	1,638,180 220,361,698	195 21,041,012	15,527	10,545 1,427,489	840 434,061	840 140	945 100	57		
31,295 1,04,067	69,750 47,632	76,769 171,329	2,775 4,738	265 675	38,248 113	983,138 4,007	10,290 190	2,219,705 23,113	67,888 18,016	250	195 195	195 195	4,043	50			
192,566 96,063	211,209 70,846	546,778 256,551	1,475 2,775	37,016 4,440	62,594 10,290	967,736 984,173	2,105,750 25,414	3,096,107 1,599,473	636 990	200	200	200	636 590	63	64		
8,720	23,424	24,257	24	92,049	29,114	212,582	2,931	432,867	217,344	19	19	19	19	19	65		

* Same number reported for one or more other months.

† Same number reported throughout the year.

MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

														Dollars.
1	Tobacco, cigars	211	1,627	228	38	41	15	1,305	No 1,384	Jy 1,230	1,362	593	743	16 10
2	Tools, not elsewhere specified	17	434	14	34	26	17	343	Fe 45	My 29	404	359	45	1,828,071
3	Shovels, spades, scoops, and hoes	6	58	6	7	8	2	35	Fe 45	My 29	37	32	5	1,383,879
4	All other	11	376	8	27	18	15	308	Oc 304	Ap 152	367	327	40	236,394
5	Toys and games	5	99	11	1	—	7	80	Oc 112	Fe 53	109	8	101	1,007,485
6	Trunks and valises	10	30	12	—	—	2	16	Au 18	Ja 3	16	13	3	33,880
7	Wall plaster and composition flooring	7	1,012	—	21	80	27	884	No 1,160	Ja 577	1,072	1,070	—	71,383
8	Washing machines and clothes wringers	14	1,484	—	130	204	87	1,053	De 1,185	Je 915	1,189	1,173	13 3	2,228,667
9	Wirework, not elsewhere specified	10	141	8	10	3	6	114	Je 135	Se 84	118	80	32	5,803,851
10	Wood, turned and carved	8	145	7	10	3	7	118	Je 131	Ja 104	122	115	7	413,873
11	All other industries	110	6,888	51	296	462	268	5,811	—	—	—	—	—	430,220
														32,830,932

*All other industries embrace—	Cordage and twine	1	Hair work	1	Dollars.
Artificial flowers	Dental goods	2	Iron and steel, steel works and rolling mills	2	
Artificial limbs	Engraving, steel and copper plate, including plate printing	1	Ivory, shell, and bone work, not including combs and hairpins	2	
Baking powders and yeast	Explosives	1	Knit goods	2	
Baskets, and rattan and willow ware	Ferroalloys	1	Labels and tags	1	
Blacking, stains, and dressings	Fertilizers	1	Lead, bar, pipe, and sheet	1	
Bluing	Fireworks	1	Lime	1	
Brushes	Flags and banners	2	Liquors, malt	2	
Butter, reworking	Furnishing goods, men's	4	Locomotives, not made by railroad companies	1	
Cars, steam-railroad, not including operations of railroad companies	Gas and electric fixtures	2	Looking-glass and picture frames	1	
Cash registers and calculating machines	Glue, other than fish	1	Machine tools	1	

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

															Dollars.
1	DAVENPORT—All industries	210	5,271	192	352	516	283	3,928	De 4,482	Ja 3,671	4,517	3,201	1,172	20 24	19,943,982
2	Artificial stone products	4	26	5	5	—	1	15	Jy 25	Ja 0	15	15	—	—	60,033
3	Automobile bodies and parts	4	28	5	2	1	1	19	Jy 22	Ja 3	20	20	—	—	42,800
4	Automobile repairing	14	122	10	9	14	12	77	Jy 85	Ja 60	82	82	—	—	350,405
5	Bread and other bakery products	21	540	20	19	81	40	380	De 426	Mh 345	428	235	190	1 2	1,706,679
6	Butter	3	31	—	4	8	9	10	Oc 15	Ja 3	11	8	3	—	557,181
7	Confectionery and ice cream	7	222	—	23	34	22	143	—	—	150	74	76	—	515,838
8	Confectionery	3	144	—	8	23	9	104	Se 136	My 74	116	42	74	—	245,178
9	Ice cream	4	78	—	15	11	13	39	Jy 55	Ja 26	34	32	2	—	270,600
10	Foundry and machine-shop products	15	874	26	52	37	22	737	De 824	Jo 669	826	785	41	—	3,284,531
11	Furniture, store and office fixtures	4	20	5	—	2	—	13	Oc 16	Ja 9	13	12	1	—	19,323
12	Marble and stone work, except slate	4	24	8	—	1	—	15	Au 20	Fe 10	17	17	—	—	98,128
13	Mattresses and spring beds, not elsewhere specified	4	42	2	5	4	2	29	De 39	Ja 14	38	20	7	2	82,769
14	Mineral and carbonated waters	4	15	5	1	1	—	8	Jy 13	Ja 5	11	10	—	1	21,032
15	Printing and publishing, book and job	19	161	24	10	13	4	110	De 130	Je 97	130	61	67	2	299,462
16	Printing and publishing, newspapers and periodicals	6	200	2	33	69	37	59	No 64	Ja 56	60	57	3	—	325,419
17	Tobacco, chewing and smoking	3	15	3	1	—	—	11	Fe 12	Ja 9	11	4	7	—	12,521
18	Tobacco, cigars	17	493	17	10	16	11	439	Se 469	Jy 394	450	150	298	4	830,413
19	Washing machines and clothes wringers	3	278	—	27	22	20	209	Se 237	Ja 165	219	208	18	—	977,470
20	All other industries *	87	2,180	60	151	213	102	1,654	—	—	2,036	1,536	471	12 17	10,764,978

*All other industries embrace—	Carriages and wagons, repair work only	2	Flour-mill and gristmill products	4
Automobiles	Cars and general shop construction and repairs by electric-railroad companies	1	Food preparations, not elsewhere specified	2
Awnings, tents, and sails	Chemicals	1	Fur goods	1
Blacking, stains, and dressings	Clothing, men's	1	Gas and electric fixtures	1
Bookbinding and blank-book making	Coffee, roasting and grinding	1	Gas, illuminating and heating	1
Boots and shoes	Copper, tin, and sheet-iron work	2	Glass, cutting, staining, and ornamenting	2
Boxes, cigar	Electrical machinery, apparatus, and supplies	1	Hand stamps	1
Boxes, set-up paper boxes	Electroplating	2	Ice, manufactured	2
Brooms, from broom corn	Engines, steam, gas, and water	1	Iron and steel, tempering, welding, etc.	2
Buttons	Flavoring extracts	1	—	—
Carpets, rug	—	—	—	—

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

MANUFACTURES—IOWA.

29

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.									POWER.								
Salaries and wages.			Rent and taxes.			For materials.			Value added by manufacturer.	Primary horsepower.					Electric horse-power 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.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹	Rent-ed. ²				
62,640	65,259	1,019,230	650	44,130	434,483	1,808,051	12,628	3,076,795	2,155,216	56	18	732	158	1			
107,724	42,571	340,992	.....	4,880	40,523	618,031	1,467,810	820,109	1,100	350	6	204	528	3		
13,732	12,727	35,138	.....	9,547	90,802	5,488	212,984	110,694	210	.....	12	.....	155	4
93,992	29,844	305,854	.....	4,880	30,976	527,220	24,122	1,254,826	703,475	890	350	.....	16	5	
500	3,813	29,280	9,008	636	169	14,235	306	77,690	62,658	16	.....	3	.....	6	
1,650	1,650	17,772	.....	4,875	880	14,258	380	57,026	42,388	3	.....	3	.....	5
101,274	157,153	889,991	.....	16,098	27,244	648,476	191,810	2,026,390	1,780,095	3,335	1,744	1,591	899	7		
362,044	581,315	1,212,083	366	5,480	108,277	4,572,127	56,370	8,814,946	4,180,440	1,418	274	1,144	100	8			
36,389	8,509	95,607	.....	4,704	17,080	528,042	9,008	700,586	262,151	252	105	147	84	9		
23,103	6,566	90,217	.....	3,030	2,743	135,437	10,469	249,384	103,478	527	170	357	.....	10	
942,678	1,134,486	6,281,020	50,045	75,063	1,243,081	23,099,355	970,014	41,470,990	18,800,700	22,044	4,584	3,400	6	175	13,879		
															1,352	11	

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
62,640	65,259	1,019,230	650	44,130	434,483	1,808,051	12,628	3,076,795	2,155,216	56	18	732	158	1	.....	.....
107,724	42,571	340,992	.....	4,880	40,523	618,031	1,467,810	820,109	1,100	350	6	204	528	3	.....	3
13,732	12,727	35,138	.....	9,547	90,802	5,488	212,984	110,694	210	.....	12	.....	155	4	.....	4
93,992	29,844	305,854	.....	4,880	30,976	527,220	24,122	1,254,826	703,475	890	350	.....	16	5	.....	5
500	3,813	29,280	9,008	636	169	14,235	306	77,690	62,658	16	.....	3	.....	6	.....	6
1,650	1,650	17,772	.....	4,875	880	14,258	380	57,026	42,388	3	.....	3	.....	5	.....	5
101,274	157,153	889,991	.....	16,098	27,244	648,476	191,810	2,026,390	1,780,095	3,335	1,744	1,591	899	7	.....	7
362,044	581,315	1,212,083	366	5,480	108,277	4,572,127	56,370	8,814,946	4,180,440	1,418	274	1,144	100	8	.....	8
36,389	8,509	95,607	.....	4,704	17,080	528,042	9,008	700,586	262,151	252	105	147	84	9	.....	9
23,103	6,566	90,217	.....	3,030	2,743	135,437	10,469	249,384	103,478	527	170	357	.....	10	.....	10
942,678	1,134,486	6,281,020	50,045	75,063	1,243,081	23,099,355	970,014	41,470,990	18,800,700	22,044	4,584	3,400	6	175	13,879	11

Malt..	Plumbers' supplies, not elsewhere specified	4	Stereotyping and electrotyping	1
Muclage, paste, and other adhesives, not elsewhere specified	Pottery, earthen and stone ware	1	Stoves, gas and oil	1
Musical instruments, organs	Printing and publishing, music	1	Sugar, beet	2
Musical instruments, pianos	Printing materials	1	Surgical appliances	2
Oil, linseed	Pumps, not including power pumps	4	Suspenders, garters, and elastic woven goods	2
Oil; vegetable and composition	Roofing materials	2	Textile machinery and parts	1
Paper goods, not elsewhere specified	Saws	1	Upholstering materials, excelsior	2
Pans, fountain and stylographic	Shipbuilding, steel	4	Vinegar and cider	2
Photographs and graphophones	Show cases	2	Windmills	1
Photographic apparatus	Smelting and refining, zinc	2	Window and door screens	1
Photographic materials	Stamped ware, not elsewhere specified	4	Wooden goods, not elsewhere specified	2

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

964,525	928,651	4,308,422	46,830	132,715	689,007	21,026,355	535,440	32,587,220	11,025,434	11,462	4,831	104	95	6,432	1,653	1	
8,315	895	15,380	.....	904	704	22,553	575	69,228	46,100	20	.....	3	17	.....	2	.....
4,132	756	26,143	.....	3,045	453	25,120	1,647	72,277	42,610	52	.....	52	.....	3	.....	3
18,005	29,043	89,555	353	10,133	3,073	403,307	5,270	620,313	220,676	94	.....	22	72	.....	2	4
63,412	150,551	347,148	.....	11,825	121,115	1,524,361	30,704	2,709,338	1,154,213	477	225	25	227	500	5	.....
14,000	15,411	11,223	.....	3,180	7,085	633,508	2,555	911,823	275,762	26	.....	26	.....	6	.....	6
65,045	59,584	106,807	.....	10,302	26,080	500,328	19,005	977,190	457,259	381	80	.....	251	7	.....	7
27,030	38,792	73,025	.....	5,722	24,016	206,044	10,905	570,556	209,007	181	80	.....	101	.....	8	.....
38,015	20,822	33,782	.....	4,640	2,673	234,282	8,700	400,034	157,052	150	.....	150	.....	9	.....	9
132,335	62,147	777,288	12,360	9,455	53,809	2,183,402	50,077	3,840,412	1,000,273	1,381	1,080	12	269	800	10	10
1,353	17,906	88	1,375	137	137	13,158	197	41,976	28,621	5	.....	5	13	13	11	11
1,363	21,130	.....	635	1,614	51,024	1,640	123,210	67,646	64	.....	64	.....	12	.....	12	.....
16,719	5,052	32,642	4,044	1,747	105,993	1,944	202,734	94,797	197	5	.....	192	.....	13	.....	13
812	210	7,517	.....	1,230	1,827	18,119	403	37,120	18,538	15	.....	15	.....	14	.....	14
25,532	17,900	106,716	625	10,516	2,280	103,511	4,916	389,415	280,988	100	.....	100	.....	15	.....	15
74,249	70,720	444,620	14,545	2,600	30,701	166,850	65,012	817,980	580,118	158	.....	158	.....	16	.....	16
1,920	5,397	.....	605	21,000	20,130	220	69,822	49,472	7	.....	7	.....	7	.....	17	.....
24,851	32,969	383,732	5,598	120,608	445,904	2,701	1,174,814	726,209	16	16	16	18	18
91,689	75,214	224,183	120	27,295	727,343	10,109	1,471,755	680,303	416	24	.....	302	.....	19	.....	19
422,420	398,913	1,740,987	18,870	50,398	243,510	14,025,028	331,245	10,043,822	4,686,949	8,123	3,417	104	33	4,569	338	20

^a Same number reported for one or more other months.

Jewelry	Patent medicines and compounds	2	Saddlery and harness	3
Liquors, malt	Phonographs and graphophones	1	Sausage, not made in slaughtering and meat-packing establishments	1
Lithographing	Photographic apparatus	1	Signs, other than electric	2
Locomotives, not made by railroad companies	Photographic materials, motion-picture projection films	1	Slaughtering and meat packing	2
Lumber, planing-mill products, not including planing mills connected with sawmills	Pickles and sauces	2	Surgical appliances	1
Malt	Pumps, not including power pumps	2	Textile machinery and parts	1
Models and patterns, not including paper patterns	Pumps, power, other than steam	1	Trunks and valises	1
Musical instruments and materials, not elsewhere specified	Rubber tires, tubes, and rubber goods, not elsewhere specified	1	Wirework, not elsewhere specified	1
			Wooden goods, not elsewhere specified	1

MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	DES MOINES—All industries.....	379	10,359	236	705	1,416	917	7,085	No 7,959	Fe 6,239	7,967	5,956	1,846	134	31	Dollars. 43,686,558
2	Artificial stone products.....	5	32	—	7	4	1	20	No 35	Ja ^a 6	38	38	—	—	—	123,670
3	Automobile bodies and parts.....	5	218	2	12	6	5	183	No 296	Ap 144	268	265	2	1	—	583,721
4	Automobile repairing.....	6	28	5	4	1	1	17	Je ^a 18	Ja 14	17	17	—	—	29,141	
5	Bookbinding and blank-book making.....	7	42	7	3	2	1	29	No 35	Mh ^a 26	36	17	18	1	—	68,165
6	Bread and other bakery products.....	39	538	34	21	87	37	359	De 425	Ja 310	421	226	160	33	8	1,585,873
7	Brick and tile, terra-cotta, and fire-clay products.....	8	331	3	22	7	4	295	Au 401	De 104	382	381	—	1	—	1,344,196
8	Butter.....	4	92	1	7	9	11	64	Je 80	De 52	52	43	9	—	—	244,516
9	Cars and general shop construction and repairs by steam-railroad companies.....	3	257	—	9	8	3	237	No 248	Fe 226	247	246	—	1	—	208,652
10	Confectionery and ice cream.....	7	238	2	16	42	10	168	Jy 198	Ja ^a 134	177	62	89	26	—	603,708
11	Copper, tin, and sheet-iron work.....	12	153	7	11	13	11	111	Ja 145	Mh 75	142	142	—	—	—	330,635
12	Dairymen's and poultrymen's supplies.....	3	77	—	8	9	9	51	Fe 78	Au 25	67	67	—	—	—	137,775
13	Flavoring extracts.....	3	12	2	1	1	—	8	Jy 12	De 5	13	11	2	—	—	69,058
14	Flour-mill and gristmill products.....	5	68	3	10	8	7	40	Oc 63	Fe 24	60	57	3	—	—	707,428
15	Food preparations, not elsewhere specified.....	4	12	2	—	2	1	7	My 11	Se ^a 4	11	6	5	—	—	31,030
16	Foundry and machine-shop products.....	13	232	6	27	27	10	162	—	—	184	176	—	8	—	883,829
17	Machine shops.....	8	160	2	19	25	10	104	No 124	Mh 86	119	119	—	—	—	545,400
18	All other.....	5	72	4	8	2	—	58	No 75	My 49	65	57	—	8	—	318,429
19	Fur goods.....	4	140	4	8	21	8	98	Ja 124	Se 70	122	71	51	—	—	439,529
20	Furniture.....	4	135	1	8	14	2	110	De 119	Ja 100	119	114	—	—	—	342,768
21	Gloves and mittens, leather.....	3	195	3	14	42	9	127	Jy 139	Ja 99	136	51	84	1	—	400,400
22	Jewelry.....	5	28	6	2	4	1	15	Se 17	Ja ^a 14	15	14	1	—	—	22,265
23	Lumber, planing-mill products, not including planing mills connected with saw-mills.....	10	285	4	21	61	19	180	Je 200	Ja ^a 158	188	188	—	—	—	1,352,294
24	Marble and stone work, except slate.....	4	93	4	3	19	5	62	Jy 76	Ap 50	67	67	—	—	—	305,297
25	Mineral and carbonated wafers.....	7	33	11	1	5	1	15	Au 28	Ja ^a 9	18	14	—	4	—	160,036
26	Patent and proprietary medicines.....	18	257	7	23	41	41	145	Ja 158	My 132	141	55	86	—	—	790,901
27	Printing and publishing, book and job.....	44	554	35	63	105	39	312	De 331	Ja 265	358	246	103	8	1	981,545
28	Job printing.....	35	602	27	56	101	32	286	De 328	Ja 222	222	98	8	—	—	896,581
29	Book publishing and printing.....	4	25	5	2	3	6	9	Oc ^a 11	Ap ^a 7	11	7	3	—	—	26,546
30	Linotype work and typesetting.....	5	27	3	5	1	1	17	No ^a 21	Fe ^a 15	19	17	2	—	—	58,418
31	Printing and publishing, newspaper and periodicals.....	33	1,575	15	116	383	427	634	—	—	756	557	184	13	2	4,769,810
32	Printing and publishing.....	3	285	—	27	93	30	135	My 149	Fe 117	135	117	7	2	—	770,804
33	Printing, publishing, and job printing.....	8	1,174	7	64	250	363	490	De 615	Ja 428	609	436	165	6	2	3,828,262
34	Publishing without printing.....	22	116	3	25	40	34	9	Au 14	Ja ^a 6	12	4	8	—	—	172,644
35	Stoves and hot-air furnaces.....	5	317	1	19	45	22	230	Oc 285	Ja 158	270	270	—	—	—	1,278,100
36	Tobacco, cigars.....	12	81	12	4	5	—	60	Oc 65	Ja 49	65	44	20	1	—	68,805
37	All other industries *.....	106	4,336	50	265	445	232	3,335	—	—	3,597	2,517	1,023	39	18	25,843,140

*All other industries embrace—

Agricultural implements.....	1	Chemicals.....	1	Glue, other than fish.....
Artificial flowers.....	1	Cleansing and polishing preparations.....	2	Grease, soap stock.....
Artificial limbs.....	1	Clothing, men's.....	2	Hair work.....
Awnings, tents, and sails.....	2	Clothing, women's, suits, skirts, and cloaks.....	1	Hand stamps.....
Boxes, cigar.....	1	Coffee, roasting and grinding.....	2	Hats and caps, other than felt, straw, and wool.....
Boxes, set-up paper boxes.....	1	Coffins, burial cases, and undertakers' goods.....	1	Ice, manufactured.....
Brass and bronze products.....	2	Cooperage, hogheads and barrels.....	2	Iron and steel, welding.....
Brooms, from broom corn.....	5	Druggists' preparations.....	2	Knit goods.....
Carpets, rug.....	1	Electroplating.....	2	Lithographing.....
Cars and general shop construction and repairs by electric-railroad companies.....	1	Furnishing goods, men's, neckwear.....	1	Lubricating greases.....
Cash registers and calculating machines.....	1	Gas, illuminating and heating.....	1	Lumber and timber products.....
Cement.....	1	Gas machines.....	2	Mattresses and spring beds, not elsewhere specified.....

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

MANUFACTURES—IOWA.

31

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.									POWER.										
Salaries and wages.			Rent and taxes.			For materials.			Value added by manufacturer.	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.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹	Rented. ²						
16,275	2,545	26,380	.....	2,030	670	50,271	1,705	107,236	55,170	62	5	57	.....	2	.....	.....	.....
24,935	23,400	211,479	5,090	9,005	224,058	6,405	574,246	343,723	204	150	.....	144	.....	3	.....	.....	.....
6,300	1,020	24,000	5,030	358	16,875	2,740	81,450	61,835	26	.....	.....	26	.....	4	.....	.....	.....
6,765	1,319	22,574	4,280	204	22,688	785	87,023	64,450	31	.....	.....	31	.....	5	.....	.....	.....
55,780	180,816	328,628	22,277	66,889	1,635,272	50,526	2,043,716	1,207,918	295	48	3	244	.....	6	.....	.....	.....
48,769	17,076	382,674	17,081	10,715	87,045	220,705	1,002,393	685,043	1,529	995	.....	584	25	7	.....	.....	.....
39,683	19,697	65,596	5,286	12,780	1,802,738	15,023	2,252,730	374,060	146	55	.....	91	.....	8	.....	.....	.....
25,320	12,352	274,625	8,013	141,804	14,209	474,316	318,153	120	68	.....	52	.....	0	.....	.....	.....	.....
50,405	57,815	176,450	22,707	9,425	35,200	916,702	21,303	1,510,456	572,271	513	150	.....	363	42	10	.....	.....
34,188	25,828	187,346	4,042	33,051	276,488	4,445	662,520	381,587	71	9	62	.....	11	.....	.....	.....	.....
20,540	16,449	47,035	2,014	2,372	157,502	1,713	330,280	171,065	36	.....	.....	36	.....	12	.....	.....	.....
2,080	1,567	7,316	2,700	3,734	30,937	856	62,887	25,094	10	.....	.....	10	.....	13	.....	.....	.....
34,813	12,799	42,608	1,068	3,768	1,311,107	17,441	1,487,513	158,965	615	.....	.....	615	14	14	.....	.....	.....
.....	2,088	7,613	1,809	57	41,484	1,374	64,565	21,707	10	.....	.....	10	.....	15	.....	.....	.....
71,755	43,101	216,953	7,502	20,086	400,435	10,409	476,280	559,442	350	7	343	.....	16	.....	.....	.....	.....
44,670	43,161	181,070	5,505	10,618	288,419	6,029	703,305	408,257	274	7	267	.....	17	.....	.....	.....	.....
27,115	85,883	1,937	15,468	118,016	3,780	272,981	151,185	76	.....	.....	76	.....	18	.....	.....	.....	.....
18,328	23,844	117,044	3,800	7,426	427,858	4,481	839,670	407,331	36	.....	.....	36	.....	19	.....	.....	.....
18,622	16,432	123,881	4,720	7,420	233,210	5,487	476,377	237,730	812	545	160	.....	117	20	.....	.....	.....
46,697	46,702	100,369	2,700	4,518	482,083	2,522	768,104	283,499	55	30	.....	25	.....	21	.....	.....	.....
2,400	750	13,495	2,309	340	4,311	204	44,417	39,902	6	.....	6	.....	22	.....	.....	.....	.....
62,502	127,420	187,345	5,030	45,532	710,877	13,698	1,402,703	738,128	490	220	.....	270	.....	23	.....	.....	.....
13,189	59,357	100,297	3,185	5,026	184,275	5,015	438,232	248,942	176	.....	.....	176	.....	24	.....	.....	.....
1,800	5,573	15,072	2,120	9,080	80,484	1,543	132,709	50,682	29	.....	.....	29	.....	25	.....	.....	.....
67,111	105,450	107,116	7,544	60,656	414,424	6,084	1,470,227	1,058,719	215	185	.....	30	93	26	.....	.....	.....
147,730	116,595	306,215	15,767	36,617	9,080	405,471	12,780	1,488,131	950,871	341	.....	.....	341	27	.....	.....	.....
141,008	109,978	276,847	11,745	34,401	0,357	453,841	11,040	1,352,287	887,406	327	.....	.....	327	28	.....	.....	.....
2,800	5,242	9,854	4,022	1,252	82	7,378	283	42,521	34,880	7	.....	7	.....	29	.....	.....	.....
3,922	1,375	19,514	874	541	4,252	1,466	43,323	37,605	7	.....	7	.....	30	.....	.....	.....	.....
37,466	952,630	751,354	180,239	40,425	177,808	1,839,084	43,042	7,877,632	5,094,506	1,388	815	1,073	150	31	
92,372	149,546	186,807	8,206	74,931	443,272	8,201	1,408,170	956,607	325	325	32	
241,823	689,247	578,159	14,275	28,157	102,374	1,352,409	35,501	6,001,984	4,613,004	1,059	815	744	150	33	
45,261	113,849	6,298	175,064	9,072	503	43,403	90	467,428	423,935	4	4	34	
77,093	157,505	319,502	1,475	36,680	16,059	449,410	10,578	1,206,884	806,890	317	317	35	
4,800	4,300	53,563	7,137	22,620	100,150	985	214,351	113,230	11	11	36	
1,027,906	1,097,742	3,390,522	116,088	113,391	780,893	19,057,488	1,116,142	30,774,100	10,600,470	9,357	3,829	1,600	16	3,912	4,759	37

¹ Same number reported for one or more other months.

Millinery and lace goods, not elsewhere specified.	2	Printing materials.	1	Stationery goods, not elsewhere specified.	2
Models and patterns, not including paper patterns.	2	Pumps, power, other than steam.	1	Stereotyping and electrotyping.	1
Muslin, pasta, and other adhesives, not elsewhere specified.	1	Refrigerators.	1	Stoves, gas and oil.	1
Oil, linseed.	1	Roofing materials.	2	Structural ironwork, not made in steel works or rolling mills.	3
Optical goods.	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.	3	Suspenders, garters, and elastic woven goods.	1
Paints.	1	Saddlery and harness.	4	Tools, machinists'.	1
Perfumery and cosmetics.	2	Sausage, not made in slaughtering and meat-packing establishments.	1	Trunks and valises.	1
Photo-engraving.	1	Shirts.	1	Washing machines and clothes wringers.	1
Photographic materials.	2	Signs and advertising novelties.	5	Windmills.	2
Pickles and sauces.	1	Slaughtering and meat packing.	1	Wirework, not elsewhere specified.	1
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	1	Soap.	1	Wood, turned and carved.	1

MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.							
		Total.	Proprietors and firm-members, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.		Capital.		
				Salaries.	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 SIOUX CITY—All industries.....	251	9,224	192	440	1,391	452	6,749	Ja 7,068	My 6,419	7,022	5,807	1,114	7	4	Dollars, 44,920,426
2 Artificial stone products.....	3	14	2	3	1	1	8	Se 21	De 0	6	6	55,092
3 Automobile bodies and parts.....	6	57	8	3	1	1	44	Jy 3 51	Mh 30	43	39	3	1	...	114,144
4 Automobile repairing.....	33	185	40	14	6	10	115	Se 138	De 98	119	114	5	...	226,987	
5 Bread and other bakery products.....	24	460	27	31	47	32	323	No 366	Ap 288	361	227	133	...	1,047,791	
6 Brooms, from broom corn.....	3	44	4	2	...	...	38	At 3 45	Ja 3 32	44	27	17	...	39,456
7 Cars and general shop construction and repairs by steam-railroad companies.....	3	769	...	32	12	8	717	De 761	Au 671	739	731	8	...	1,091,551	
8 Coffee, roasting and grinding.....	4	85	1	10	34	1	39	Oc 46	Jy 33	41	12	29	...	420,438	
9 Confectionery and ice cream—Confectionery.....	11	249	13	25	18	4	189	No 280	My 124	220	65	162	1	1	741,451
10 Ice cream.....	7	215	10	17	15	3	170	212	51	160	1	1	502,941
11 Copper, tin, and sheet-iron work.....	4	34	3	8	3	1	19	Jy 3 24	Ja 15	17	14	2	1	...	178,516
12 Druggists' preparations.....	10	191	7	29	16	8	131	Oc 163	Mh 108	154	150	4	...	613,554	
13 Flour-mill and gristmill products.....	3	130	...	23	12	6	89	Jy 106	De 66	81	78	6	...	782,696	
14 Food preparations, not elsewhere specified.....	5	69	...	11	8	4	46	De 59	Jy 35	60	59	1	...	1,259,439	
15 Foundry and machine-shop products—Machine shops.....	3	16	3	2	11	My 14	Ja 8	10	5	5	5	...	23,242
16 All other.....	9	117	5	11	5	4	92	...	...	108	103	2	...	336,824
17 Lumber, planing-mill products, not including planing mills connected with sawmills.....	6	59	4	5	4	2	44	Jy 48	De 39	44	43	1	...	137,403	
18 All other.....	3	58	1	6	1	2	48	De 60	Au 37	61	60	1	...	198,551	
19 Fur goods.....	5	30	7	3	...	3	17	Ja 3 20	Au 13	15	5	9	1	...	56,274
20 Lumber, planing-mill products, not including planing mills connected with sawmills.....	5	216	2	20	22	13	159	Au 191	Ja 110	165	161	3	1	...	873,926
21 Mineral and soda waters.....	4	39	1	11	8	4	15	Au 25	Ja 7	17	17	...	...	201,314
22 Optical goods.....	3	15	2	2	1	2	8	Ja 3 9	Se 3 7	7	6	1	...	85,583	
23 Patent medicines and compounds.....	4	16	2	2	6	2	4	Ap 3 6	Jy 3 3	4	4	4	...	43,752	
24 Printing and publishing, book and job—Job printing.....	17	138	15	15	7	11	90	98	70	27	1	...	316,023
25 All other.....	14	130	13	15	7	9	86	Ja 90	Ap 3 84	93	65	27	1	...	297,827
26 Printing and publishing, newspapers and periodicals.....	3	8	2	2	...	2	4	(4) 4	(4) 4	5	5	5	...	18,796	
27 All other industries*.....	11	449	4	30	105	49	261	No 280	Au 242	278	242	34	2	...	977,603
28 Saddlery and harness.....	6	49	4	4	6	...	35	Mh 3 39	No 23	36	33	3	...	355,220	
29 Slaughtering and meat packing.....	5	4,280	2	39	905	217	3,117	Ja 3,459	Se 2,646	3,229	2,828	401	...	23,431,543	
30 Tobacco, cigars.....	9	40	10	1	...	29	De 36	Fe 3 26	38	23	14	1	...	28,673	
31 All other industries*.....	65	1,566	33	118	171	72	1,172	1,140	892	247	1	...	11,798,558

*All other industries embrace—

Automobiles.....	1	Cars, steam-railroad, not including operations of railroad companies.....	1	Electrical machinery, apparatus, and supplies.....	1
Awnings, tents, and sails.....	2	Cleansing preparations.....	1	Electroplating.....	1
Boxes, cigar.....	1	Clothing, men's.....	1	Fertilizers.....	1
Boxes, wooden packing, except cigar boxes.....	1	Clothing, women's, suits, skirts, and cloaks.....	1	Flavoring extracts.....	2
Briks.....	2	Coffins, burial cases, and undertakers' goods.....	1	Gas, illuminating and heating.....	1
Butter.....	2	Condensed milk.....	1	Gloves and mittens, cloth, not including gloves made in textile mills.....	1
Carpets, rug.....	1	Cooperage, hogsheads and barrels.....	1	Grease, soap stock.....	1
Cars and general shop construction and repairs by electric-railroad companies.....	1	Cordage and twine.....	1	Hand stamps.....	1

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

1 BOONE.....	39	468	41	23	10	25	369	No 381	Ap 352	379	259	113	4	3	Dollars, 1,384,985
2 BURLINGTON.....	97	2,738	62	163	152	87	2,274	De 2,487	Ja 2,024	2,485	1,683	758	20	24	8,697,928
3 CEDAR RAPIDS.....	208	8,637	180	316	1,389	468	6,284	Ja 6,840	Mh 5,650	7,069	5,905	1,145	15	2	39,055,539
4 CLINTON.....	119	4,184	82	190	319	141	3,452	No 3,727	Mh 3,072	3,717	3,146	557	12	2	17,072,603
5 COUNCIL BLUFFS.....	111	2,471	89	163	212	116	1,891	Se 2,065	Ja 1,689	2,085	1,743	360	2	...	7,222,405
6 DUBUQUE.....	131	7,261	106	254	472	252	6,147	No 6,770	Ja 5,587	6,837	5,598	1,179	20	40	23,913,326
7 FORT DODGE.....	80	1,966	63	93	119	86	1,605	No 1,988	Fe 1,198	1,947	1,546	399	2	...	7,673,825
8 FORT MADISON.....	34	1,206	35	30	48	64	1,029	De 1,180	Ja 825	1,206	958	246	...	2	8,232,600
9 IOWA CITY.....	49	517	50	56	53	30	322	Se 390	Ja 251	439	298	141	...	1,905,336	
10 KEOKUK.....	71	2,399	53	134	490	124	1,598	No 1,793	Ja 1,478	1,723	1,369	327	18	9	8,058,798
11 MARSHALLTOWN.....	62	1,733	53	138	129	75	1,338	Se 1,559	Fe 1,170	1,590	1,398	188	4	...	6,373,708
12 MASON CITY.....	59	2,781	42	88	168	66	2,357	Je 2,704	Fe 1,692	2,583	2,439	123	19	2	15,665,164
13 MUSCATINE.....	146	3,055	154	118	166	95	2,522	De 2,834	Ja 2,180	2,892	2,211	599	28	54	8,182,354
14 OTTUMWA.....	94	3,074	75	105	236	57	2,601	De 2,867	Ap 2,376	2,872	2,333	523	10	6	20,885,513
15 WATERLOO.....	161	5,839	116	335	387	381	4,620	Mh 5,317	Au 3,135	5,418	4,782	571	64	1	21,612,376

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

MANUFACTURES—IOWA.

33

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.									POWER.								
Salaries and wages.			Rent and taxes.		For materials.		Value of products.	Value added by manufacturer.	Primary horsepower.					Electric horse-power 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.	Steam engines (not turbines),	Steam turbines.	Internal-combustion engines.	Water power, ¹	Rent ed. ²			
1,262,528	2,480,419	8,946,731	233,920	Dollars. 178,590	Dollars. 1,160,282	Dollars. 123,946,067	Dollars. 1,314,757	Dollars. 140,393,134	Dollars. 21,131,710	14,572	7,873	765	35	5,890	2,550	1

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

Dollars. 1,262,528	Dollars. 2,480,419	Dollars. 8,946,731	Dollars. 233,920	Dollars. 178,590	Dollars. 1,160,282	Dollars. 123,946,067	Dollars. 1,314,757	Dollars. 140,393,134	Dollars. 21,131,710	14,572	7,873	765	35	5,890	2,550	1
4,070	1,200	9,924	955	119	14,827	483	30,088	15,378	61	61	2
3,500	1,072	48,056	4,793	1,140	65,078	2,050	164,842	96,505	52	52	3	
27,770	17,733	172,806	3,729	23,834	1,034	203,706	9,030	564,558	351,926	176	176	4
61,661	149,354	292,905	16,555	39,087	1,223,517	48,725	2,115,042	837,800	528	160	368	5
4,240	33,218	2,060	494	80,147	584	135,815	55,884	18	18	6	
83,145	26,321	1,098,108	4,267	207,225	27,887	1,530,887	1,208,775	1,394	545	375	30	444	7	
13,515	19,153	33,954	6,794	3,018	1,282,212	2,505	1,410,641	125,834	91	91	8	
52,369	10,758	135,107	8,064	80,498	696,257	17,581	1,100,301	386,553	457	110	50	207	75	9	
32,569	6,280	109,755	4,860	88,302	516,106	9,552	820,795	295,047	266	110	.....	.....	156	75	10
10,800	4,478	25,352	3,894	1,196	180,061	8,029	279,506	91,506	191	.....	50	.....	141	.....	11
44,880	32,089	135,341	65	3,543	9,800	269,142	6,520	837,451	561,780	90	40	.....	50	.....	12
87,005	24,270	128,282	5,310	56,925	920,212	5,972	1,317,016	390,832	69	.....	50	.....	69	.....	13
35,452	18,070	63,714	750	213	11,023	1,809,557	24,781	2,050,918	155,580	1,002	600	.....	402	.....	14
1,125	.....	10,353	604	22	67,471	1,578	77,132	18,083	14	.....	.....	.....	14	.....	15
23,655	9,709	124,114	4,167	5,120	100,133	6,034	328,582	221,815	182	.....	.....	.....	182	.....	16
10,255	5,839	62,047	2,880	2,891	24,608	3,514	148,284	120,262	50	.....	50	.....	50	.....	17
13,400	3,900	62,067	1,287	2,235	75,025	3,420	180,508	101,553	132	.....	.....	.....	132	.....	18
11,360	4,660	14,430	400	5,047	1,492	77,455	677	192,710	115,278	16	10	.....	6	.....	19
80,776	36,463	214,292	74	241	24,128	373,213	15,164	805,121	410,754	632	125	5	502	214	20		
28,274	11,633	24,121	1,550	15,702	129,126	1,510	244,597	113,901	42	.....	.....	.....	42	.....	21
6,015	3,000	9,435	2,394	697	27,433	350	63,843	36,030	9	.....	.....	.....	9	.....	22
953	6,455	6,129	1,921	2,272	20,808	207	40,613	19,598	59	.....	.....	.....	59	.....	23
33,894	18,089	97,832	10,255	10,901	2,123	120,102	5,551	376,394	241,741	142	.....	.....	142	1	24
33,894	15,929	82,831	9,355	10,347	2,004	128,024	5,291	383,074	219,769	140	.....	.....	140	1	25
2,160	8,001	900	554	119	1,078	260	23,320	21,982	2	.....	.....	.....	2	.....	26
32,892	154,380	341,642	5,412	24,247	17,023	712,769	9,888	1,705,168	982,601	408	125	.....	343	160	27	
4,950	2,800	37,442	5,043	4,437	257,500	1,213	304,363	105,671	27	.....	.....	.....	27	.....	28
218,881	1,592,790	4,477,240	211,784	3,940	449,241	105,324,344	501,974	110,088,503	10,202,185	4,877	3,165	340	1,372	1,590	29	
707	23,400	2,327	7,808	61,632	664	113,033	51,037	4,423,310	4,423,310	4,162	2,993	4	1,160	510	30	
370,996	339,623	1,413,766	1,451	43,487	411,086	9,747,802	502,575	14,733,096	14,733,096	4,162	2,993	4	1,160	510	31	

Hats and caps, other than felt, straw, and wool.	2	Oil, linseed.	1	Shirts.	1	Signs, other than electric.	1
Ice, manufactured.	2	Paints.	2	Soap.	2	Structural ironwork, not made in steel works or rolling mills.	1
Instruments, optical.	1	Pens, fountain and stylographic.	2	Tools, machinists.	1	Trunks and valises.	1
Jewelry.	2	Perfumery and cosmetics.	1	Pickles and sauces.	1	Vinegar and cider.	1
Marble and stone work, except slate.	2	Photo-engraving.	1	Poultry, killing and dressing, not done in slaughter- ing and meat-packing establishments.	2		
Mattresses and spring beds, not elsewhere specified.	2	Photogravure.	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.	2		
Millinery, trimmed hats and hat frames.	1	Plaques.	1				
Models and patterns, not including paper patterns.	1	Pickles and sauces.	1				
Musical instruments and materials, not elsewhere specified.	1	Poultry, killing and dressing, not done in slaughter- ing and meat-packing establishments.	2				

79,792	36,264	375,368	1,004	13,552	61,910	608,418	30,524	1,540,837	850,900	437	140	15	4	278	.....	1
307,492	350,628	2,169,579	2,830	28,390	626,107	6,559,673	222,550	12,000,058	5,307,835	4,875	3,103	46	11	1,625	243	2
1,104,338	2,400,842	6,474,326	144,002	112,353	2,201,371	71,232,032	832,997	92,118,386	20,059,457	19,814	2,530	2,010	17	13,257	2,245	3
615,808	623,003	4,089,984	5,247	34,513	1,490,891	18,710,398	634,764	80,321,143	10,976,010	9,884	5,420	3,372	31	1,055	7,202	4
413,577	503,006	2,473,553	8,373	30,800	186,057	5,262,016	270,090	10,610,064	5,068,358	3,978	1,696	63	68	2,161	141	5
772,675	917,589	6,024,031	59,608	107,218	1,023,953	19,521,899	420,080	84,277,055	14,325,197	10,801	3,807	956	20	0,018	3,582	6
252,509	384,185	1,395,115	500	33,316	137,460	6,910,258	21,245,848	10,884,039	3,080,360	4,178	1,713	737	230	1,448	947	7
144,876	361,747	987,387	500	6,770	183,183	2,531,167	111,756	4,836,291	2,193,368	3,527	178	65	3284	3,284	8	
88,867	93,201	268,014	5,925	14,400	15,526	862,291	63,519	1,767,313	819,503	880	200	1	619	118	9	
336,640	813,931	1,549,192	2,589	13,634	512,326	11,534,674	381,933	17,553,810	5,035,309	7,527	2,137	16	5,314	8	10	
414,205	274,542	1,506,188	6,835	27,702	124,244	4,702,975	183,679	8,642,408	3,665,814	2,578	928	.....	.....	1,650	496	11
276,588	397,152	2,859,003	18,053	24,649	319,028	21,245,848	1,803,001	29,512,534	6,458,085	18,078	13,472	2,000	.....	2,606	12,456	12
301,600	275,038	2,101,945	128,521	38,143	146,052	5,537,924	150,737	10,753,750	5,056,080	4,162	3,033	.....	53	1,071	286	13
339,886	372,000	2,877,232	12,021	236,855	787,395	38,108,202	802,840	45,020,524	8,528,413	5,504	3,645	4	1,840	1,725	14	
810,519	937,482	5,791,251	116,751	92,526	209,297	22,747,406	646,208	35,481,225	12,088,011	9,910	3,855	100	392	6,003	479	15

¹ Same number reported for one or more other months.

² Same number reported throughout the year.