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FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

CARRIAGES AND WAGONS
AND MATERIALS

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EXPLANATION OF TERMS.

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

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

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

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

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

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

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners.

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 did not portray such conditions, an earlier date was requested.

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, because, in view of the variations of data, 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.

In order to determine as nearly as possible the age distribution of the average number of wage earners for an industry, the per cent distribution by age of the wage earners 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 to determine the average numbers 16 years and over, and under 16, employed.

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 calcu-

late 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 (amount actually invested).—The instructions on the schedule for securing data relating to capital were as follows:

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

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating 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 equipment of 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, 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.

CARRIAGES AND WAGONS AND MATERIALS.

GENERAL STATISTICS.

General character of the industry.—The statistics here considered are for establishments engaged in the manufacture of carriages, wagons, sleighs, sleds (except children's carriages and sleds), and parts. Some establishments which are included were engaged chiefly in manufacturing materials and parts, building only a few vehicles, while a few were engaged in repair work only.

Carriages and wagons and materials were also made by establishments engaged primarily in the manufacture of other products to the value of \$13,920,648 in 1919 and \$4,492,615 in 1914. The value of such manufactures, however, is not included in the total value of products shown for the carriage and wagon industry, except in Table 12.

Comparative summary.—Table 1 summarizes the statistics for each census since 1899, with percentages of increase or decrease for each five-year period.

With a few exceptions decreases are noticeable at each succeeding census since 1909. The addition of the Federal income tax since 1914 will account for the increase in "Rent and taxes."

Summary of the industry.—Table 2 summarizes the statistics for the industry as a whole for 1919, and gives separate figures for the three classes of establishments: (1) Factories engaged in manufacturing carriages and wagons, (2) factories making carriage and wagon materials, and (3) factories doing repair work only.

Of the 2,544 establishments from which returns were received in 1919, 1,130, or 44.4 per cent, were engaged primarily in the manufacture of the complete vehicle and reported 69.4 per cent of the total value of products; establishments manufacturing carriage and wagon materials reported 22.6 per cent, and factories doing repair work only 8 per cent of the total value of products reported for the industry.

Principal states, ranked by value of products.—Illinois, as shown by Table 3, is the leading state in the manufacture of carriages and wagons. In 1919 this state reported 10.9 per cent of the total number of wage earners, and 12.6 per cent of the total value of products. Indiana, second in importance, contributed 9 per cent and 10.8 per cent, respectively, of these two items. Ohio, the third ranking state, and Kentucky, fourth in rank, were not far behind the two leading states. Of the states engaged in the manufacture of carriages and wagons, a great majority are located east of the Mississippi River, the only state of importance west of the river being Iowa, which manufactured products to the value of over two million dollars.

Persons engaged in the industry.—Table 4 shows the number of persons engaged in the industry as a

whole and in each branch separately. 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. The age classification of the average number of wage earners in Table 4 is an estimate obtained by the method described in the "Explanation of terms," page 2. Figures in detail will be found in Table 16.

Wage earners, by months, for states.—As shown by Table 5, the number of wage earners employed in the industry month by month ranged from a maximum of 25,766 in October to a minimum of 23,713 in April, the minimum number being equivalent to 92 per cent of the maximum. Figures are given for all states in the combined industry reporting an average of over 350 wage earners, that could be shown without disclosing operations of individual establishments, while for the United States the number of males and of females is also shown.

Prevailing hours of labor.—Table 6 shows a marked shortening of the working-day for establishments reporting 54 hours per week or more, while those reporting fewer hours remained about the same as in 1914. In that year 16.4 per cent were reported as employed fewer than 54 hours per week as against 34 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 24.9 per cent of the total wage earners, as compared with 21.2 per cent in 1919.

Size of establishments, by average number of wage earners, for states.—Analysis of Table 7 discloses the significant fact that in 1919, 1,946 establishments, or 76.5 per cent of the total number for the industry, employed fewer than 6 wage earners each, while only 3,011, or 12.2 per cent of the total number of wage earners, were employed therein, evidencing the predominance of small establishments based upon the average number of wage earners.

Size of establishments, by value of products.—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 returns for 1914. Table 8, therefore, gives combined figures for these two groups in the case of all items for 1909, and in the case of average number of wage earners and value added by manufacture for 1914. In 1919 establishments reporting products valued at more than \$100,000 employed 16,708 wage earners, or 67.7 per cent of the total average number, and reported products to the value of \$90,884,218, or 76.9 per cent of the total value of products.

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Character of ownership.—Table 9 shows that the individual form of ownership predominated in number of establishments only. Individuals owned 64.2 per cent of the total number of establishments for the industry in 1919. Corporations owned only 14.2 per cent of the total number of establishments, but employed 72 per cent of the total average number of wage earners, and reported 77.8 per cent of the value of products.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 10, there was a

decrease in the total horsepower for the industry of 47,883 horsepower, or 42.5 per cent, the decrease being throughout all types of power.

Fuel consumed.—Table 11 shows the principal kinds of fuel used for the industry in 1919 and 1914, and gives separately the amounts consumed in states requiring considerable quantities of fuel for manufacturing purposes. In 1919, of the total reported for bituminous coal, Illinois consumed 21.1 per cent; of the total reported for anthracite coal, Pennsylvania, New York, and Massachusetts consumed 46.4 per cent.

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

	1919	1914	1909	1904	1899	PER CENT OF INCREASE. ¹			
						1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	2,544	5,057	5,492	5,588	6,792	-49.7	-7.9	-1.7	-17.7
Persons engaged.....	30,697	64,440	82,944	90,751	(²)	-52.4	-22.3	-8.6	.....
Proprietors and firm members.....	2,867	5,629	6,213	6,575	(²)	-49.1	-9.4	-5.5	.....
Salaries and wages.....	3,148	6,426	6,803	6,294	5,026	-51.0	-5.5	8.1	25.2
Wage earners (average number).....	24,682	52,391	69,928	77,882	73,812	-52.9	-25.1	-10.2	5.5
Primary horsepower.....	64,666	112,549	126,032	106,159	83,771	-42.5	-10.7	18.7	26.7
Capital.....	\$96,924,074	\$177,643,015	\$175,473,728	\$152,344,657	\$128,961,660	-45.4	1.2	15.2	18.1
Salaries and wages.....	30,897,048	40,331,426	45,555,126	44,943,700	38,324,427	-23.4	-11.5	1.4	17.3
Salaries.....	5,836,882	7,773,964	7,900,207	6,581,021	4,759,114	-24.9	-2.3	21.0	38.3
Wages.....	25,060,166	32,557,462	37,594,919	38,362,679	33,565,313	-23.0	-13.4	-2.0	14.3
Paid for contract work.....	182,039	209,393	253,512	249,327	(²)	-13.1	-17.4	1.7	.....
Rent and taxes.....	3,457,248	2,359,532	2,096,877	2,081,834	(²)	46.5	12.5	.....	.....
Cost of materials.....	63,097,129	65,718,795	81,951,288	77,527,911	66,771,919	-4.0	-19.8	5.7	16.1
Value of products.....	118,228,541	131,546,997	159,892,547	155,868,849	138,261,763	-10.1	-17.7	2.6	12.7
Value added by manufacture ⁴	55,131,412	65,828,202	77,941,259	78,340,938	71,489,844	-16.2	-15.5	-0.6	9.6

¹ A minus sign (-) denotes decrease.

² Figures not available.

³ Exclusive of internal revenue.

⁴ Value of products less cost of materials.

TABLE 2.—SUMMARY OF THE INDUSTRY: 1919.

	Total for the industry.	ESTABLISHMENTS ENGAGED PRIMARILY IN—			Total for the industry.	ESTABLISHMENTS ENGAGED PRIMARILY IN—			
		Manufacturing carriages and wagons.	Manufacturing carriages and wagon materials.	Repair work only.		Manufacturing carriages and wagons.	Manufacturing carriages and wagon materials.	Repair work only.	
Number of establishments.....	2,544	1,130	258	1,156	Salaries and wages.....	\$30,897,048	\$20,741,019	\$6,972,315	\$3,183,714
Persons engaged.....	30,697	19,249	7,429	4,019	Salaries.....	5,836,882	4,272,980	1,805,544	258,358
Proprietors and firm members.....	2,867	1,265	212	1,390	Wages.....	25,060,166	16,468,039	5,666,771	2,925,356
Salaries and wages.....	3,148	2,265	708	175	Paid for contract work.....	182,039	117,149	17,448	47,442
Wage earners (average number).....	24,682	15,719	6,509	2,454	Rent and taxes.....	3,457,248	2,505,433	635,084	316,731
Primary horsepower.....	64,666	34,666	23,700	6,300	Cost of materials.....	63,097,129	44,912,172	14,734,073	3,450,284
Capital.....	\$96,924,074	\$71,701,095	\$17,971,206	\$7,251,773	Value of products.....	118,228,541	82,013,326	26,765,316	9,449,899
					Value added by manufacture.....	55,131,412	37,101,154	12,030,643	5,999,615

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

STATE.	Number of establishments.	WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.			STATE.	Number of establishments.	WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
		Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.			Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.
United States.....	2,544	24,682	100.0	.....	\$118,229	100.0	.....	\$55,131	100.0	.....	Mississippi.....	19	276	1.1	19	\$1,105	0.9	19	\$648	1.2	19
Illinois.....	107	2,692	10.9	1	14,863	12.6	1	6,730	12.2	1	Alabama.....	42	307	1.2	18	1,073	0.9	20	557	1.0	20
Indiana.....	100	2,216	9.0	2	12,785	10.8	2	4,316	7.8	2	Connecticut.....	56	188	0.7	22	677	0.6	24	352	0.6	23
Ohio.....	152	2,213	9.0	3	10,946	9.3	3	5,292	9.6	3	Louisiana.....	24	166	0.7	23	491	0.4	26	271	0.5	26
Kentucky.....	71	1,977	8.0	4	10,510	8.9	4	4,641	8.4	4	Rhode Island.....	28	74	0.3	29	208	0.2	31	141	0.3	31
Wisconsin.....	124	1,498	6.1	7	9,455	8.0	5	4,948	9.0	5	South Carolina.....	19	63	0.3	30	183	0.2	32	107	0.2	32
Tennessee.....	66	1,665	6.7	5	6,691	5.7	6	2,921	5.3	7	Florida.....	13	57	0.2	31	166	0.1	33	97	0.2	33
North Carolina.....	109	1,327	5.4	8	6,392	5.4	7	6,329	5.1	8	Vermont.....	23	35	0.1	33	130	0.1	34	80	0.1	34
Pennsylvania.....	356	1,564	6.3	6	5,534	4.7	8	3,192	5.8	6	Oregon.....	4	17	0.1	37	77	0.1	38	47	0.1	39
Missouri.....	122	1,155	4.7	10	5,413	4.6	9	2,798	5.1	9	Delaware.....	5	15	0.1	37	72	0.1	39	50	0.1	38
New York.....	274	1,169	4.7	9	5,005	4.3	10	2,355	4.3	10	Montana.....	4	7	(¹)	40	65	0.1	40	31	0.1	41
Iowa.....	68	493	2.0	14	2,155	1.8	15	1,147	2.1	15	Utah.....	3	16	0.1	38	41	(¹)	42	24	(¹)	42
Massachusetts.....	50	401	2.0	15	1,672	1.4	16	995	1.8	16	New Mexico.....	4	6	(¹)	41	31	(¹)	44	21	(¹)	44
Michigan.....	46	367	1.5	17	1,523	1.3	18	809	1.5	18	All other.....	655	4,648	18.8	20,876	17.6	9,706	17.6

¹ Less than one-tenth of 1 per cent.

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TABLE 4.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Fe-male.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Fe-male.	PER CENT OF TOTAL.	
					Male.	Fe-male.						Male.	Fe-male.
CARRIAGES AND WAGONS AND MATERIALS.	1919	30,697	29,441	1,256	95.9	4.1	Clerks and other subordinate salaried employees.	1919	1,405	894	511	63.6	36.4
	1914	64,446	62,173	2,273	96.5	3.5		1914	3,730	2,550	1,180	68.4	31.6
	1909	82,944	80,536	2,408	97.1	2.9		1909	3,440	2,494	946	72.5	27.5
Proprietors and officials.....	1919	4,276	4,172	104	97.6	2.4	Wage earners (average number).....	1919	18,173	17,899	274	98.5	1.5
1914	7,716	7,583	133	98.3	1.7	1914		41,304	40,807	497	98.8	1.2	
1909	8,844	8,706	138	98.4	1.6	1909		52,540	51,812	728	98.6	1.4	
Proprietors and firm members....	1919	2,877	2,790	77	97.3	2.7	16 years of age and over.....	1919	18,110	17,845	265	98.5	1.5
	1914	5,629	5,526	103	98.2	1.8		1914	41,220	40,723	497	98.8	1.2
	1909	6,213	6,103	110	98.2	1.8		1909	52,213	51,489	724	98.6	1.4
Salaried officers of corporations....	1919	555	535	20	96.4	3.6	Under 16 years of age.....	1919	63	54	9	85.7	14.3
	1914	981	951	30	96.9	3.1		1914	84	84	0	100.0	0.0
	1909	1,166	1,143	23	98.0	2.0		1909	327	323	4	98.8	1.2
Superintendents and managers....	1919	854	847	7	99.2	0.8	CARRIAGE AND WAGON MATERIALS.	1919	7,429	7,053	376	94.9	5.1
	1914	1,106	1,106	0	100.0	0.0		1914	12,533	12,053	480	96.2	3.8
	1909	1,485	1,460	25	99.7	0.3		1909	19,337	18,709	628	96.8	3.2
Clerks and other subordinate salaried employees.	1919	1,730	1,089	650	62.6	37.4	Proprietors and officials.....	1919	586	577	9	98.5	1.5
	1914	4,339	2,972	1,367	68.5	31.5		1914	837	820	17	98.0	2.0
	1909	4,172	2,901	1,181	71.7	28.3		1909	1,217	1,185	32	97.4	2.6
Wage earners (average number).....	1919	24,682	24,180	502	98.0	2.0	Proprietors and firm members....	1919	212	205	7	96.7	3.3
	1914	52,361	51,618	773	98.5	1.5		1914	340	328	12	96.5	3.5
	1909	69,928	68,839	1,089	98.4	1.6		1909	512	490	22	95.7	4.3
16 years of age and over.....	1919	24,594	24,101	493	98.0	2.0	Salaried officers of corporations....	1919	165	163	2	98.8	1.2
	1914	52,253	51,482	771	98.4	1.6		1914	229	224	5	97.8	2.2
	1909	69,397	68,315	1,082	98.8	1.2		1909	313	306	7	97.8	2.2
Under 16 years of age.....	1919	88	79	9	89.8	10.2	Superintendents and managers....	1919	209	209	0	100.0	0.0
	1914	138	130	8	98.6	1.4		1914	268	268	0	100.0	0.0
	1909	531	524	7	98.7	1.3		1909	392	389	3	99.2	0.8
CARRIAGES AND WAGONS, INCLUDING REPAIRS.	1919	23,268	22,388	880	96.2	3.8	Clerks and other subordinate salaried employees.	1919	334	195	139	58.4	41.6
	1914	51,913	50,120	1,793	96.5	3.5		1914	600	422	178	69.3	30.7
	1909	63,607	61,827	1,780	97.2	2.8		1909	732	497	235	67.9	32.1
Proprietors and officials.....	1919	3,690	3,595	95	97.4	2.6	Wage earners (average number).....	1919	6,509	6,281	228	96.5	3.5
	1914	6,879	6,763	116	98.3	1.7		1914	11,087	10,811	276	97.5	2.5
	1909	7,627	7,521	106	98.6	1.4		1909	17,388	17,027	361	97.9	2.1
Proprietors and firm members....	1919	2,655	2,585	70	97.4	2.6	16 years of age and over.....	1919	6,454	6,256	228	96.5	3.5
	1914	5,289	5,198	91	98.3	1.7		1914	11,033	10,759	274	97.5	2.5
	1909	5,701	5,613	88	98.5	1.5		1909	17,184	16,826	358	97.9	2.1
Salaried officers of corporations....	1919	390	372	18	95.4	4.6	Under 16 years of age.....	1919	25	25	0	100.0	0.0
	1914	752	727	25	96.7	3.3		1914	54	52	2	96.3	3.7
	1909	853	837	16	98.1	1.9		1909	204	201	3	98.5	1.5
Superintendents and managers....	1919	645	638	7	98.9	1.1							
	1914	838	838	0	100.0	0.0							
	1909	1,073	1,071	2	99.8	0.2							

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

(The month of maximum employment for each state is indicated by bold-faced figures and that of minimum employment by *italic* figures.)

STATE.	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.		
United States:															
1919.....	24,682	23,809	23,980	23,831	23,715	23,937	24,104	24,778	25,327	25,511	25,766	25,763	25,665	25,665	92.0
Males.....	24,180	23,365	23,514	23,353	23,229	23,440	23,565	24,240	24,785	24,977	25,275	25,258	25,159	25,159	91.9
Females.....	502	444	466	478	484	497	539	538	542	534	491	505	506	506	81.9
1914.....	52,361	52,594	55,272	56,729	57,316	59,388	55,459	53,942	52,871	50,202	47,357	<i>45,011</i>	45,550	45,550	78.5
1909.....	69,928	<i>66,597</i>	69,390	71,705	72,392	73,240	72,181	69,018	68,326	67,894	67,649	68,857	70,427	70,427	90.9
Illinois.....	2,692	2,753	2,649	2,600	2,498	2,468	<i>2,345</i>	2,563	2,684	2,892	3,021	2,954	2,877	2,877	77.6
Indiana.....	2,216	2,261	2,251	2,075	<i>2,048</i>	2,102	2,205	2,208	2,275	2,273	2,303	2,276	2,315	2,315	88.5
Iowa.....	493	<i>419</i>	422	462	454	483	512	495	500	535	534	530	570	570	73.5
Kentucky.....	1,977	1,937	1,998	1,961	<i>1,877</i>	1,880	1,857	1,941	2,004	2,057	2,061	2,096	2,145	2,145	84.7
Massachusetts.....	491	<i>413</i>	458	521	514	524	516	498	490	498	481	482	497	497	78.8
Michigan.....	367	402	386	377	351	335	333	327	377	369	375	381	391	391	81.3
Missouri.....	1,155	1,135	<i>1,113</i>	1,118	1,152	1,150	1,130	1,163	1,165	1,165	1,199	1,220	1,194	1,194	91.2
New York.....	1,169	<i>1,069</i>	1,082	1,137	1,169	1,166	1,203	1,196	1,255	1,230	1,191	1,164	1,166	1,166	85.2
North Carolina.....	1,327	1,361	1,361	1,367	1,354	1,367	1,401	1,381	1,255	<i>1,252</i>	1,272	1,278	1,275	1,275	89.4
Ohio.....	2,213	<i>1,893</i>	1,998	2,063	2,167	2,212	2,273	2,302	2,255	2,334	2,318	2,345	2,396	2,396	79.0
Pennsylvania.....	1,564	<i>1,470</i>	1,511	1,540	1,566	1,568	1,605	1,598	1,601	1,583	1,579	1,564	1,583	1,583	91.6
Tennessee.....	1,665	1,603	1,623	1,613	1,646	<i>1,693</i>	1,609	1,671	1,747	1,735	1,796	1,684	1,680	1,680	88.7
Wisconsin.....	1,498	1,588	1,500	1,496	1,439	1,412	1,435	1,435	1,518	1,528	1,564	1,576	1,513	1,513	88.8

MANUFACTURES.

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

STATE.	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.
United States.....	1919	24,682	382	117	2,120	5,769	2,571	8,476	5,238	9
	1914	52,391	(²)	(²)	3,209	5,360	9,780	20,986	12,958	98
	1909	69,928	(²)	(²)	3,201	4,875	11,659	21,954	27,771	465
Illinois.....	1919	2,692	13		123	1,656	115	524	261	
	1914	4,861	(²)	(²)	434	210	922	2,487	778	
Indiana.....	1919	2,216			182	313	236	1,060	395	
	1914	7,306	(²)	(²)	300	402	399	5,144	960	11
Iowa.....	1919	493			21	7	14	181	270	
	1914	991	(²)	(²)	123	142	256	124	340	
Kentucky.....	1919	1,977		5	3	809	245	667	215	3
	1914	1,897	(²)	(²)	269	235	419	282	693	
Massachusetts.....	1919	491	25	9	278	150	27	2		
	1914	1,348	(²)	(²)	31	598	617	94	8	
Michigan.....	1919	367			3	60	112	141	51	
	1914	1,417	(²)	(²)	66	29	196	526	598	2
Missouri.....	1919	1,155	103	2	66	210	63	382	329	
	1914	2,560	(²)	(²)	96	501	363	921	679	
New York.....	1919	1,169	98	8	269	183	138	343	130	
	1914	3,911	(²)	(²)	167	1,049	1,030	903	751	2
North Carolina.....	1919	1,327	4		43	7	1	445	825	2
	1914	1,462	(²)	(²)	8	4	50	410	989	1
Ohio.....	1919	2,213	4		67	594	135	1,185	228	
	1914	5,997	(²)	(²)	828	589	1,115	2,013	1,452	
Pennsylvania.....	1919	1,564	30	7	177	530	196	504	117	3
	1914	6,370	(²)	(²)	119	532	974	3,653	1,080	12
Tennessee.....	1919	1,665	12		19	175	344	321	791	
	1914	1,371	(²)	(²)	85	30	248	387	616	5
Wisconsin.....	1919	1,498	8		15	68	50	1,139	218	
	1914	2,638	(²)	(²)	16	78	89	1,921	534	

¹ Includes 48 and under for 1914 and 1909.

² Corresponding figures not available.

TABLE 7.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

STATE.	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.
United States.....	2,544	24,682	485	1,461	3,011	370	3,833	112	3,652	73	5,122	33	4,808	7	2,457	3	1,709			
	5,057	52,391	509	3,006	7,244	1,087	11,291	271	8,625	113	7,911	55	8,145	11	3,729	3	1,648	2	3,798	
Illinois.....	107	2,692	22	57	112	11	112	5	187	3	227	6	744	2	621	1	689			
Indiana.....	100	2,216	10	48	100	19	209	13	403	5	335	4	631		1	538				
Iowa.....	68	493	20	34	65	8	76	4	144	1	89	1	119							
Kentucky.....	71	1,977	8	39	81	10	96	5	147	2	134	6	947		1	572				
Massachusetts.....	50	491	4	23	55	17	195	4	126	2	115									
Michigan.....	46	367	7	28	65	6	48	2	79	3	175									
Missouri.....	122	1,155	24	66	146	21	197	4	118	5	403	2	291							
New York.....	274	1,169	53	187	361	24	223	6	202	2	121	2	262							
North Carolina.....	109	1,327	12	68	179	15	189	8	254	4	314	1	130	1	261					
Ohio.....	152	2,213	23	70	173	33	328	15	474	8	535	2	305	1	398					
Pennsylvania.....	356	1,564	89	218	448	35	348	5	171	9	597									
Tennessee.....	66	1,665	4	24	58	19	215	11	368	6	447	1	140	1	437					
Wisconsin.....	124	1,498	37	64	108	13	131	4	120	3	186	1	213	2	740					

CARRIAGES AND WAGONS AND MATERIALS.

TABLE 8.—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.....	2,544	5,057	5,492	24,682	52,391	60,928	\$118,228,541	\$131,546,997	\$159,892,547	\$55,131,412	\$65,828,202	$77,941,259
Less than \$5,000.....	1,021	2,255	2,114	619	2,842	2,954	2,671,105	5,713,772	5,458,031	1,779,553	3,889,385	3,530,630
\$5,000 to \$20,000.....	954	1,879	2,222	2,801	9,638	12,708	9,405,712	18,376,368	22,138,144	5,903,983	11,567,599	13,930,594
\$20,000 to \$100,000.....	366	676	845	4,554	12,933	17,187	15,207,416	28,580,230	35,281,090	8,373,536	15,003,673	18,420,065
\$100,000 to \$500,000.....	154	220	298	7,530	19,480	27,915	34,408,683	42,841,876	73,089,147	14,776,850	24,060,845	32,662,798
\$500,000 to \$1,000,000.....	33	17											3,766	15.3	37.2	20,874,348	12,567,312	8,827,979	8,827,979	15,469,451	11,026,700	9,397,172
\$1,000,000 and over.....	16	10	13	5,412	7,498	9,164	35,541,187	23,467,439	23,926,135	15,469,451	11,026,700	9,397,172
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.....	40.1	44.6	38.5	2.5	5.4	4.2	2.3	4.3	3.4	3.2	5.9	4.5
\$5,000 to \$20,000.....	37.5	37.2	40.5	11.3	18.4	18.2	8.0	14.0	13.8	10.7	18.0	17.9
\$20,000 to \$100,000.....	14.4	13.4	15.4	18.5	24.7	24.6	12.9	21.7	22.1	15.2	22.8	23.6
\$100,000 to \$500,000.....	6.1	4.4	5.4	30.5	37.2	39.9	29.2	32.6	45.7	26.8	36.5	41.9
\$500,000 to \$1,000,000.....	1.3	0.3										
\$1,000,000 and over.....	0.6	0.2	0.2	21.9	14.3	13.1	30.1	17.8	15.0	28.1	16.8	12.1

TABLE 9.—CHARACTER OF OWNERSHIP, BY STATES: 1919 AND 1914.

STATE.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.						VALUE OF PRODUCTS.							
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.		
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.
United States...	1919	1,633	360	551	24,682	4,311	17,764	2,607	17.5	72.0	10.6	\$118,228,541	\$15,466,336	\$91,934,062	\$10,828,143	13.1	77.8	9.2
	1914	3,191	748	1,118	52,391	11,886	33,473	7,032	22.7	63.9	13.4	131,546,997	23,676,952	92,100,236	15,769,809	18.0	70.0	12.0
	1909	3,322	884	1,286	69,928	15,476	44,628	9,824	22.1	63.8	14.0	159,892,547	29,460,382	109,348,007	21,084,158	18.4	68.4	13.2
Illinois.....	1919	66	19	22	2,692	142	2,441	109	5.3	90.7	4.0	14,863,433	523,223	13,868,295	471,915	3.5	93.3	3.2
	1914	173	55	68	4,861	491	4,023	347	10.1	82.8	7.1	15,192,466	1,074,655	13,302,150	815,661	7.1	87.6	5.4
Indiana.....	1919	54	33	13	2,216	141	2,004	71	6.4	90.4	3.2	12,785,145	394,623	11,968,172	432,350	3.0	93.6	3.4
	1914	94	64	35	7,306	401	6,657	248	5.5	91.1	3.4	21,568,651	714,956	20,274,995	578,700	3.3	94.0	2.7
Iowa.....	1919	38	10	20	493	61	261	171	12.4	52.9	34.7	2,155,382	228,477	1,004,655	922,250	10.6	46.6	42.8
	1914	43	20	30	994	146	552	296	14.7	55.9	29.8	3,436,716	300,938	1,968,844	1,166,934	8.8	57.3	34.0
Kentucky.....	1919	36	18	17	1,977	101	1,803	73	5.1	91.2	3.7	10,509,775	349,637	9,939,932	170,206	3.3	95.1	1.6
	1914	71	33	26	1,897	274	1,523	100	14.4	80.3	5.3	4,647,467	484,689	3,930,932	231,846	10.4	84.6	5.0
Massachusetts.....	1919	28	8	14	491	136	170	185	27.7	34.6	37.7	1,672,091	436,376	603,895	631,820	26.1	36.1	37.8
	1914	129	13	33	1,348	633	280	435	47.0	20.8	32.3	2,821,874	1,326,753	570,307	924,814	47.0	20.2	32.8
Michigan.....	1919	27	8	11	367	56	272	39	15.3	74.1	10.6	1,522,891	183,823	1,186,631	152,437	12.1	77.9	10.0
	1914	111	24	42	1,417	329	853	235	23.2	60.2	16.6	3,774,827	742,965	2,543,444	488,418	19.7	67.4	12.9
Missouri.....	1919	73	19	30	1,155	210	845	100	18.2	73.2	8.7	5,413,110	678,729	4,373,692	360,689	12.5	80.8	6.7
	1914	120	50	53	2,560	383	2,029	148	15.0	79.3	5.8	6,850,955	779,822	5,678,839	392,294	11.4	82.9	5.7
New York.....	1919	190	18	66	1,169	412	603	154	35.2	51.6	13.2	5,095,290	1,732,757	2,620,268	742,265	34.0	51.4	14.6
	1914	431	53	120	3,911	1,700	1,509	702	43.5	38.6	17.9	8,759,119	3,515,157	3,805,221	1,438,741	40.1	43.4	16.4
North Carolina.....	1919	63	24	22	1,327	272	840	215	20.5	63.3	16.2	6,391,592	1,003,545	4,389,011	999,034	15.7	68.7	15.6
	1914	71	29	37	1,462	407	771	284	27.8	52.7	19.4	3,133,082	596,542	1,946,969	589,571	19.0	62.1	18.8
Ohio.....	1919	74	43	35	2,213	481	1,600	132	21.7	72.3	6.0	10,945,610	1,887,073	8,491,216	567,321	17.2	77.6	5.2
	1914	146	105	90	3,997	817	4,516	664	13.6	75.3	11.1	16,192,449	1,739,475	12,454,694	1,998,280	10.7	76.9	12.3
Pennsylvania.....	1919	275	21	60	1,564	582	677	305	37.2	43.3	19.5	5,533,837	2,042,323	2,409,486	1,082,028	36.9	43.5	19.6
	1914	496	45	146	6,370	2,011	3,235	1,124	31.6	50.8	17.6	12,261,637	3,663,959	6,468,934	2,128,694	29.9	52.8	17.4
Tennessee.....	1919	24	23	19	1,665	95	1,409	161	5.7	84.0	9.7	6,690,647	258,202	5,888,419	544,026	3.9	88.0	8.1
	1914	45	25	38	1,371	167	906	298	12.2	66.1	21.7	2,677,381	267,059	1,932,603	477,719	10.0	72.2	17.8
Wisconsin.....	1919	77	14	33	1,498	138	1,282	78	9.2	85.6	5.2	9,455,268	524,309	8,649,515	281,444	5.5	91.5	3.0
	1914	106	25	54	2,638	302	2,120	216	11.4	80.4	8.2	7,544,321	639,369	6,350,783	554,169	8.5	84.2	7.3

MANUFACTURES.

TABLE 10.—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.....	5,390	9,159	6,501	64,666	112,540	126,032	100.0	100.0	100.0
Owned.....	967	1,985	2,647	43,989	79,782	100,715	68.0	70.9	79.9
Steam.....	358	782	1,217	37,786	66,003	82,928	58.4	58.7	65.8
Engines.....	350	(2)	(2)	35,482	(2)	(2)	54.9	.....	.....
Turbines.....	8	(2)	(2)	2,304	(2)	(2)	3.6	.....	.....
Internal-combustion engines.....	571	1,109	1,294	4,762	10,557	13,120	7.4	9.4	10.4
Water wheels, turbines, and motors.....	38	94	136	1,441	3,132	4,667	2.2	2.8	3.7
Rented.....	4,423	7,174	3,854	20,677	32,767	25,317	32.0	29.1	20.1
Electric.....	4,423	7,174	3,854	19,999	32,654	24,969	30.9	29.0	19.8
Other.....	.....	.....	.....	678	113	348	1.0	0.1	0.3
Electric.....	5,325	8,238	4,805	32,751	46,384	39,424	100.0	100.0	100.0
Rented.....	4,423	7,174	3,854	19,999	32,654	24,969	61.1	70.4	63.3
Generated by establishments reporting.....	902	1,064	951	12,752	13,730	14,455	38.9	29.6	36.7

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

² Not reported separately.

TABLE 11.—FUEL CONSUMED, BY STATES: 1919 AND 1914.

STATE.	Cen- sus year.	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).				
United States.....	1919	8,678	180,258	8,626	32,165	11,720	145,747
	1914	47,516	379,432	12,269	64,567	(1)	234,191
Illinois.....	1919	204	37,969	719	7,636	1,148	1,786
	1914	1,207	47,874	1,592	8,856	(1)	7,346
Indiana.....	1919	56	22,788	2,090	12,900	100	5,052
	1914	109	82,752	2,966	22,511	(1)	8,313
Iowa.....	1919	50	6,804	20	204	116	.....
	1914	39	10,760	118	211	(1)	997
Kentucky.....	1919	.....	21,196	272	2,797	381	1,070
	1914	13	30,525	609	144	(1)	1,840
Massachusetts.....	1919	732	1,638	28	3	66	1,551
	1914	867	5,240	71	141	(1)	2,999
Michigan.....	1919	74	2,385	.....	1	3	300
	1914	133	11,006	183	142	(1)	480
Missouri.....	1919	163	4,811	126	1	188	1,939
	1914	675	7,504	163	379	(1)	4,129
New York.....	1919	1,421	6,928	1,068	1,564	321	3,661
	1914	3,604	21,137	137	1,854	(1)	14,228
North Carolina.....	1919	169	2,623	110	209	609	.....
	1914	95	3,320	438	330	(1)	10
Ohio.....	1919	277	16,115	393	2,658	496	42,341
	1914	306	57,563	1,238	11,521	(1)	62,467
Pennsylvania.....	1919	1,873	7,280	288	479	454	8,402
	1914	34,768	29,641	1,431	9,066	(1)	100,608
Tennessee.....	1919	3	4,513	22	11	50	160
	1914	211	6,792	540	156	(1)	544
Wisconsin.....	1919	177	22,225	2,149	541	6,202	711
	1914	154	23,422	1,656	1,269	(1)	1,436
All other states.....	1919	3,479	22,983	1,332	4,061	1,586	78,771
	1914	5,185	41,896	1,127	7,987	(1)	28,894

¹ Included in figures for fuel oils.

SPECIAL STATISTICS.

Detailed statistics of number and value.—Table 12 shows statistics for 1919, 1914, and 1909, regarding the number and value of vehicles and value of all other products and receipts from repairs, reported by establishments engaged primarily in the manufacture of carriages and wagons, parts, and repairs, together with similar statistics for establishments engaged primarily in other industries which incidentally reported the manufacture of carriages and wagons or parts and materials.

TABLE 12.—DETAILED STATISTICS OF NUMBER AND VALUE: 1919, 1914, AND 1909.

KIND.	PRODUCTS.					
	Number.			Value.		
	1919	1914	1909	1919	1914	1909
Establishments reporting.....	2,666	5,286	5,613	.....	.....	.....
All products.....	.....	.....	.....	\$132,149,189	\$136,039,612	\$164,420,558
All vehicles.....	708,107	1,177,415	1,584,571	66,468,654	72,283,698	94,037,900
Carriages.....	14,851	550,401	843,319	{ 1,665,040	{ 34,193,368	{ 48,835,053
Buggies.....	230,015	572,409	629,797	{ 21,017,131	{ 42,412,833	{ 42,026,198
Wagons.....	426,502	53,321	109,108	{ 105,452	{ 325,164	{ 944,882
Public conveyances.....	277	1,284	2,347	{ 1,268,198	{ 1,232,014	{ 2,231,767
Sleighs and sleds.....	36,462	53,321	109,108	.....	.....	.....
All other products, parts, repairs, etc.....	.....	.....	.....	62,865,569	63,755,914	70,382,658
Made by establishments in the industry.	.....	.....	.....	.....	.....	.....
Establishments reporting.....	2,544	5,057	5,492	.....	.....	.....
All products.....	.....	.....	.....	118,228,541	131,546,997	159,892,547
All vehicles.....	608,833	1,124,903	1,519,238	56,174,322	69,324,182	90,694,145
Carriages.....	13,704	538,071	828,411	{ 1,562,023	{ 33,329,879	{ 47,756,118
Buggies.....	202,105	538,071	828,411	{ 18,114,423	{ 33,329,879	{ 47,756,118
Wagons ¹	356,837	533,001	587,685	{ 35,183,807	{ 34,506,942	{ 39,932,910
Public conveyances.....	194	1,221	2,243	{ 76,957	{ 279,656	{ 930,267
Sleighs and sleds.....	35,993	52,010	100,899	1,237,122	1,207,705	2,065,850
All other products, parts, repairs, etc.....	.....	.....	.....	62,054,209	62,222,815	69,198,402
Made by establishments in other industries.	.....	.....	.....	.....	.....	.....
Establishments reporting.....	122	229	121	.....	.....	.....
All products.....	.....	.....	.....	13,920,648	4,492,615	4,528,011
All vehicles.....	99,274	52,512	65,333	10,294,322	2,959,516	3,343,755
Carriages.....	1,147	12,330	14,908	{ 103,017	{ 863,489	{ 1,078,935
Buggies.....	27,910	38,808	42,112	{ 2,902,708	{ 2,026,210	{ 2,093,288
Wagons.....	69,665	1,311	8,209	{ 7,229,026	{ 2,026,210	{ 2,093,288
Public conveyances.....	83	63	104	{ 28,495	{ 45,508	{ 5,615
Sleighs and sleds.....	489	1,311	8,209	{ 31,076	{ 24,309	{ 165,917
All other parts, materials, and repair work.....	.....	.....	.....	3,626,326	1,533,099	1,184,256

¹ Includes 11,593 pushcarts and hand trucks valued at \$295,561 in 1919.

In addition to the \$118,228,541 reported as the value of products by the 2,544 establishments engaged primarily in the manufacture of carriages and wagons, parts and supplies, in 1919, 122 establishments engaged primarily in other branches of industry reported similar products to the value of \$13,920,648. Thus the total value of these products for 1919

amounted to \$132,149,189, as compared with \$136,039,612 for 1914, a decrease of 2.9 per cent, and from 1909 to 1919 there was a decrease in the value of products of \$32,271,369, or 19.6 per cent. There were 708,107 vehicles of all kinds manufactured during 1919, including those made as subsidiary products of establishments engaged primarily in other industries, as compared to 1,177,415 in 1914, a decrease of 39.8 per cent, and a decrease of 876,464 vehicles, or 55.3 per cent in the number manufactured in 1919 as compared with the number manufactured in 1909.

The 122 establishments which manufactured carriages, wagons, and materials as a subsidiary product in 1919 were engaged chiefly in the production of automobile bodies and parts and agricultural implements. The increase in the value of products for such establishments is due to the fact that a number of large companies, as the demand decreased for products of this industry, turned to other industries, carriages and wagons becoming a subsidiary product. Many factories discontinued manufacturing such products even as a subsidiary product.

Detailed statistics of kind, number, and value.—Table 13 presents for 1919, 1914, 1909, and 1904 detailed statistics of all products manufactured by establishments engaged in the industry. The product of factories making parts to be used in the manufacture of carriages and wagons is included in "All other products," of the table. This combination gives a complete product for the industry, although it involves a certain amount of duplication, as a part of the product of establishments manufacturing parts and supplies is used in the factories making carriages and wagons. The amount received for repair work for all establishments is included in the value given for "All other products."

The total value of all products for the industry in 1919 was \$118,228,541. Of this amount, the value of completed vehicles was \$56,174,322, or 47.5 per cent. Of the total number of completed vehicles produced in 1919, wagons represented 58.6 per cent; carriages, buggies, and light pleasure vehicles, 35.4 per cent; and sleighs and sleds, 5.9 per cent.

Of the total value of completed vehicles, wagons represented 62.7 per cent; carriages, buggies, and light pleasure vehicles, 35 per cent, and sleighs and sleds, 2.2 per cent.

The manufacture of complete vehicles of all kinds by establishments classified in this industry decreased 11.2 per cent in number and 6.5 per cent in value from 1904 to 1909, and 26 per cent in number and 23.6

per cent in value from 1909 to 1914, while for the period of 1914 to 1919 the decrease was 45.9 per cent in number and 19 per cent in value.

TABLE 13.—DETAILED STATISTICS OF NUMBER AND VALUE: 1919, 1914, 1909, AND 1904.

CLASS.	1919	1914	1909	1904
Products, total value.....	\$118,228,541	\$131,546,997	\$159,892,547	\$155,868,849
Complete vehicles of all classes:				
Number.....	608,833	1,124,903	1,519,238	1,711,330
Value.....	\$56,174,332	\$69,324,182	\$90,094,145	\$96,955,018
Carriages (family and pleasure):				
Number.....	13,704			
Value.....	\$1,502,023			
Buggies and light pleasure vehicles:				
Number.....	202,105	\$33,329,879	\$47,756,118	\$55,750,276
Value.....	\$18,114,423			
Wagons:				
Number.....	356,837	533,601	587,685	643,755
Value.....	\$35,183,807	\$34,506,942	\$39,932,910	\$37,195,230
Business—				
Number.....	51,018	139,621	154,631	133,422
Value.....	\$6,919,695	\$13,022,800	\$16,440,816	(¹)
Light and package commodity, number.....	18,132	81,393	107,190	71,733
Heavy and bulky commodity, number.....	19,044	31,458	32,780	31,956
Pushcarts, number.....	11,593	14,937	7,330	6,089
Hearse, number.....	301	402	807	642
Street sprinklers, number.....	38	197	1,053	157
Other business wagons, number.....	1,910	11,234	5,471	22,845
Farm (including carts and trucks)—				
Number.....	303,231	384,663	429,952	505,025
Value.....	\$27,567,834	\$19,708,423	\$22,615,375	(¹)
Government, municipal, etc.—				
Number.....	2,588	9,317	3,102	5,308
Value.....	\$696,274	\$1,775,659	\$876,219	(¹)
Ambulances, number.....	1,568	346	598	245
Mail and mail-carriers' wagons, and carts, number.....	1,007	5,549	1,912	4,703
Patrol (fire and police), hose wagons, and prison vans, number.....	13	3,422	592	360
Public conveyances:				
Number.....	194	1,221	2,243	2,711
Value.....	\$70,957	\$270,656	\$939,267	\$1,314,952
Sleighs and sleds:				
Number.....	35,993	52,010	109,899	127,455
Value.....	\$1,237,122	\$1,207,705	\$2,065,850	\$2,694,560
All other products, including parts and amount received for repair work, value ²	\$62,054,209	\$62,222,815	\$69,193,402	\$58,913,831

¹ Not reported separately.

² Includes 1,659 automobiles, valued at \$1,795,159 in 1919; 1,123, valued at \$574,925 in 1914; 544 valued at \$569,119 in 1909; and 189 valued at \$235,675 in 1904, manufactured in establishments devoted primarily to the manufacture of carriages and wagons.

Comparative summary, by class of vehicles, by states.—Table 14 shows, by states, the number of the several general classes of vehicles manufactured by establishments engaged primarily in the manufacture of carriages and wagons during 1919, 1914, 1909, and 1904, and the value of those manufactured in 1919. In 1914, 38 states reported the manufacture of 538,071 carriages, buggies, and light pleasure vehicles, as compared with 25 states reporting the manufacture of 215,809 in 1919, a decrease of 59.9 per cent in number of vehicles. In 1919 the states reporting the manufacture of wagons were 41, producing 345,244 vehicles, while in 1914, 43 states reported the production of wagons to the number of 533,601, a decrease of 35.3 per cent.

TABLE 14.—COMPARATIVE SUMMARY, BY CLASS OF VEHICLE, BY STATES: 1919, 1914, 1909 AND 1904.

CLASS AND STATE.	NUMBER.				Value, 1919.
	1919	1914	1909	1904	
CARRIAGES, BUGGIES, AND LIGHT PLEASURE VEHICLES.					
United States.....	215,809	538,071	828,411	937,409	\$19,076,446
Georgia.....	14,445	20,071	21,974	20,919	1,585,921
Illinois.....	6,011	81,477	101,875	56,075	484,916
Indiana.....	71,510	143,042	177,194	178,962	5,670,400
Iowa.....	2,187	13,844	29,800	16,498	340,185
Kentucky.....	38,504	31,925	24,259	27,195	3,618,041
Maine.....	123	1,380	2,551	2,802	11,905
Maryland.....	154	827	1,708	2,945	16,740
Michigan.....	3,706	25,265	91,658	174,889	341,606
Missouri.....	18,260	53,552	97,444	74,650	1,452,065
New York.....	597	15,220	25,474	42,249	61,118
North Carolina.....	24,550	29,098	31,813	25,157	2,600,846
Ohio.....	17,644	71,972	135,877	109,428	1,502,768
Pennsylvania.....	751	15,551	23,305	33,467	74,062
Tennessee.....	4,366	3,067	2,470	5,374	629,402
Virginia.....	12,117	15,144	13,720	19,366	1,120,286
Wisconsin.....	142	5,314	24,720	23,466	17,770
All other states.....	736	11,313	22,564	33,967	56,585
WAGONS (BUSINESS, FARM, GOVERNMENT, ETC.).					
United States.....	345,244	533,601	587,685	643,755	\$34,888,246
Alabama.....	5,518	3,537	4,588	12,512	584,918
Arkansas.....	12,686	5,726	7,415	1,025	1,001,798
California.....	638	1,663	3,347	3,045	44,147
Connecticut.....	83	1,139	1,786	1,944	10,545
Florida.....	373	843	1,378	2,652	25,366
Georgia.....	6,205	7,805	15,708	18,848	667,697
Illinois.....	93,499	118,202	85,097	72,033	8,798,285
Indiana.....	21,733	75,530	87,844	92,893	1,628,051
Iowa.....	8,024	16,865	26,495	22,815	609,241
Kentucky.....	27,044	23,434	25,911	40,200	2,720,925
Louisiana.....	804	1,170	1,209	1,246	109,571
Maine.....	076	2,226	2,259	1,704	139,557
Maryland.....	735	2,861	2,719	1,849	57,198
Massachusetts.....	221	3,082	3,360	3,278	113,246
Michigan.....	1,172	11,454	28,720	52,273	107,462
Minnesota.....	12,087	12,315	17,231	15,059	1,311,053
Mississippi.....	3,566	1,115	1,683	2,012	662,551
Missouri.....	17,293	21,456	20,140	25,281	1,896,403
New Hampshire.....	20	769	1,049	1,188	3,869
New Jersey.....	469	3,687	4,337	5,047	206,937
New York.....	5,097	10,658	21,937	19,879	1,026,066
North Carolina.....	32,272	20,030	26,248	23,553	2,417,792
Ohio.....	2,381	25,417	28,882	40,905	526,176
Pennsylvania.....	7,126	32,983	33,634	35,395	1,073,937
Tennessee.....	13,093	8,126	12,409	20,241	1,299,736
Texas.....	360	1,681	1,243	718	122,818
Virginia.....	20,022	20,575	18,835	19,195	2,176,656
West Virginia.....	2,124	3,819	2,906	5,117	319,255
Wisconsin.....	49,267	81,238	92,011	83,916	5,165,408
All other states.....	560	4,992	6,954	7,606	63,482
PUBLIC CONVEYANCES.					
United States.....	194	1,221	2,243	2,711	76,957
SLEIGHS AND SLEDS.					
United States.....	35,993	52,010	109,899	127,455	1,237,122
Iowa.....	2,654	1,330	8,094	(²)	75,884
Maine.....	800	1,549	2,169	2,802	41,447
Michigan.....	2,791	12,205	32,751	53,180	141,346
Minnesota.....	11,654	10,270	10,954	10,003	334,399
New York.....	628	6,801	10,823	19,433	28,994
Ohio.....	657	3,007	7,589	8,479	18,502
Pennsylvania.....	178	2,404	3,210	5,551	11,938
Wisconsin.....	16,230	11,221	17,720	15,365	557,681
All other states.....	395	2,323	7,589	12,642	20,041

¹ Excludes 11,593 pushcarts and hand trucks valued at \$205,561.

² Included in "All other states."

MANUFACTURES.

TABLE 16.—DETAILED STATEMENT,

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

CARRIAGES AND WAGONS AND MATERIALS.

1	United States.....	2,544	30,697	2,867	1,409	1,089	650	24,682	Oc 25,766	Ap 23,713	26,112	25,506	520	77	9	\$96,924,074
2	Alabama.....	42	387	47	18	12	3	307	Ap 323	Ja 281	320	319		1		1,162,955
3	Connecticut.....	56	241	52	13	6	2	168	Ja ³ 174	No 161	166	166				484,814
4	Delaware.....	5	24	5	4			15	(*) 15	(*) 15	16	16				101,602
5	Florida.....	13	78	17	3			57	De 68	Ja 49	75	74				158,178
6	Illinois.....	107	3,169	112	142	143	80	2,692	Oc 3,021	Je 2,345	2,847	2,830	11	6		15,920,767
7	Indiana.....	100	2,659	85	102	130	126	2,216	De 2,315	Ap 2,048	2,348	2,215	115	18		9,087,122
8	Iowa.....	68	702	82	40	65	22	493	De 570	Ja 419	565	558		7		2,589,664
9	Kentucky.....	71	2,389	73	138	128	73	1,977	De 2,145	Ap 1,817	2,170	2,124	45	1		8,728,690
10	Louisiana.....	24	216	30	11	6	3	166	No 183	Ja 154	176	175		1		406,997
11	Massachusetts.....	50	603	62	25	13	12	491	My 524	Ja 413	498	486		3	9	1,064,621
12	Michigan.....	46	452	51	18	5	11	367	Ja 402	Jy 327	371	367		4		1,388,948
13	Mississippi.....	19	336	20	19	19	2	276	No 318	Fe 231	290	290				701,050
14	Missouri.....	122	1,422	141	62	48	16	1,155	No 1,220	Fe 1,113	1,190	1,186		8	2	4,198,002
15	Montana.....	4	10	3				7	Se 9	De 5	5	5				68,865
16	New Mexico.....	4	12	5		1		6	(*) 6	(*) 6	6	6				14,925
17	New York.....	274	1,666	336	63	59	39	1,169	Au 1,255	Ja 1,069	1,250	1,207	40	3		5,806,304
18	North Carolina.....	109	1,593	111	103	39	13	1,327	Je 1,401	Se 1,252	1,435	1,422	10	3		5,158,876
19	Ohio.....	152	2,707	147	142	114	91	2,213	De 2,396	Ja 1,893	2,390	2,221	168	1		7,451,358
20	Oregon.....	4	22					17	Jy 22	My ³ 15	19	18		1		22,832
21	Pennsylvania.....	356	2,106	409	83	29	21	1,504	Je 1,605	Ja 1,470	1,564	1,546	5	13		4,956,283
22	Rhode Island.....	28	113	29	6		4	74	Mh 85	De 62	62	62				165,748
23	South Carolina.....	19	86	22	1			63	Ja 68	Oc ² 59	67	67				132,378
24	Tennessee.....	66	1,881	74	87	37	18	1,665	Oc 1,796	My 1,593	1,740	1,710	21			4,003,279
25	Utah.....	3	18	2				16	De 20	Ja 13	20	20				65,366
26	Vermont.....	23	67	31	1			35	Se 38	Mh 31	39	39				141,630
27	Wisconsin.....	124	1,835	152	85	76	24	1,498	Ja 1,556	My 1,409	1,555	1,525	14	7	9	7,487,837
28	All other states ⁵	655	5,903	764	243	159	89	4,648			4,922	4,844	67	11		15,455,053

CARRIAGES AND WAGONS, INCLUDING REPAIRS.

1	United States.....	2,286	23,268	2,655	1,035	894	511	18,173	No 18,707	Ap 17,667	18,955	18,621	273	52	9	\$78,952,868
2	Alabama.....	38	353	44	14	11	3	281	My 296	Ja 262	280	279		1		1,122,623
3	California.....	29	163	37	3	7	4	112	De 121	Ja 96	121	120		1		417,508
4	Colorado.....	6	40	5	2			33	De 36	Ap ³ 31	36	36				53,685
5	Connecticut.....	49	207	46	10	5	1	145	Au 153	Ja 140	144	144				394,904
6	Delaware.....	5	24	5	4			15	(*) 15	(*) 15	16	16				101,602
7	Florida.....	13	78	17	3		1	57	De 68	Ja 49	75	74		1		158,178
8	Georgia.....	66	852	69	51	38	11	683	Au 758	Ja 514	713	694		19		1,796,051
9	Illinois.....	99	2,724	104	122	123	72	2,303	Oc 2,589	Je 1,963	2,453	2,440	10	3		14,486,030
10	Indiana.....	79	1,777	74	63	107	99	1,434	No 1,479	Ap 1,331	1,508	1,421	77	10		6,473,479
11	Iowa.....	60	673	78	25	54	17	399	De 457	Fe 348	452	445		7		2,181,674
12	Kansas.....	10	21	13				8	(*) 8	(*) 8	8	8				46,273
13	Kentucky.....	52	1,794	56	95	121	66	1,456	De 1,537	Ap 1,323	1,560	1,515	44	1		7,220,923
14	Louisiana.....	21	184	24	11	2	3	144	No 161	Ja 132	154	153		1		365,949
15	Maine.....	58	211	65	8	3	4	131	Au ³ 137	Ja 124	140	139		1		563,219
16	Maryland.....	42	206	57	3	3	1	142	No 146	Oc 138	145	145				310,018
17	Massachusetts.....	43	508	49	22	11	10	416	Mh 455	Ja 347	415	412		1	2	879,341
18	Michigan.....	39	303	47	12	5	7	232	Ja 266	My 213	211	208		3		914,069
19	Minnesota.....	67	712	72	36	23	16	565	No 608	Je 521	613	609		4		2,845,567
20	Mississippi.....	14	235	15	12	19	2	187	No 211	Fe 164	203	203				614,227
21	Missouri.....	113	1,117	137	44	39	12	885	No 948	Fe 834	913	906		5	2	3,431,037
22	Montana.....	4	10	3				7	Se 9	De 5	5	4				68,865
23	Nebraska.....	9	20	12				8	Se 9	Ja 7	8	8				30,875
24	New Hampshire.....	10	95	13	3	2	1	76	Ap 79	De 73	75	75				196,766
25	New Jersey.....	118	491	143	14	7	5	322	Au 334	Ja 306	329	327		1	1	1,253,300
26	New Mexico.....	4	12	5		1		6	(*) 6	(*) 6	6	6				14,925
27	New York.....	256	1,371	318	52	52	21	928	Au 972	No 874	960	934	25	1		4,787,460
28	North Carolina.....	101	1,471	107	93	37	13	1,221	Je 1,297	Au 1,144	1,314	1,301	10	3		4,981,346
29	North Dakota.....	3	7					3	Ju ³ 4	Ja ³ 2	3	3				17,406
30	Ohio.....	119	1,317	125	84	62	52	994	Mh 1,066	Oc 929	940	918		22		3,818,584
31	Oklahoma.....	11	35	16	2		1	16	Au ³ 18	De ³ 14	16	16				40,400
32	Oregon.....	4	22	5				17	Jy 22	My ³ 15	19	18				22,832
33	Pennsylvania.....	337	1,894	393	65	29	19	1,388	Au ³ 1,427	Ja 1,300	1,385	1,368	5	12		4,436,793
34	Rhode Island.....	25	103	25	6		4	68	Mh 79	De 56	56	56				133,073
35	South Carolina.....	19	86	22	1			63	Ja 68	Oc ³ 59	67	67				132,378
36	South Dakota.....	31	74	34	4		1	35	Oc ³ 37	Mh 32	36	36				187,690

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
² Chiefly electric motors operated by rented (or purchased) current, other power included (chiefly shaft-belt or transmitted power from neighboring power plants).
³ Same number reported for one or more other months.

CARRIAGES AND WAGONS AND MATERIALS.

BY STATES: 1919.

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

CARRIAGES AND WAGONS AND MATERIALS.

\$3,708,655	\$2,128,227	\$25,060,166	\$182,039	\$613,455	\$2,843,793	\$61,647,415	\$1,449,714	\$118,228,541	\$55,131,412	64,666	35,482	2,304	4,762	1,441	20,677	12,752	1
33,836	21,515	286,286	.....	8,376	17,203	497,164	18,538	1,072,916	557,214	912	680	.....	69	.....	163	.....	2
27,518	7,092	182,251	1,053	9,861	4,427	312,640	12,843	677,473	351,990	483	115	.....	120	60	188	.....	3
4,282	.....	21,530	.....	794	1,359	21,800	1,026	72,360	49,534	29	.....	.....	4	.....	25	.....	4
4,800	814	70,033	7,379	1,320	1,682	66,737	2,630	165,894	96,527	98	.....	.....	12	.....	86	20	5
391,082	266,725	3,238,033	35,342	42,472	418,635	7,930,386	203,533	14,863,433	6,729,514	7,621	3,160	2,150	56	200	2,055	1,820	6
277,233	197,666	2,083,427	1,530	17,640	264,361	8,346,365	123,011	12,785,145	4,315,769	6,392	3,260	70	116	.....	2,946	1,032	7
87,481	71,927	432,165	1,565	15,800	18,336	967,403	40,689	2,155,382	1,147,290	1,689	749	.....	147	.....	793	14	8
265,058	238,972	1,862,077	1,337	7,018	189,818	5,762,432	100,076	10,509,775	4,641,267	5,599	4,230	.....	151	.....	1,218	2,391	9
14,547	6,539	146,297	.....	4,526	4,339	211,384	8,596	490,531	270,551	350	95	.....	16	.....	239	8	10
68,015	25,816	550,040	116	31,921	16,921	639,825	37,372	1,672,091	994,894	901	302	.....	78	18	503	.....	11
46,404	16,508	389,242	1,515	5,454	32,881	688,183	25,700	1,522,891	809,008	1,134	475	.....	35	27	597	.....	12
58,711	32,771	235,837	13,575	1,438	64,858	447,278	9,790	1,105,211	648,143	706	467	.....	79	.....	160	.....	13
220,100	78,987	1,130,481	9,758	40,707	112,015	2,978,235	48,882	5,413,110	2,385,993	2,516	1,054	.....	218	.....	1,244	416	14
.....	.....	10,312	.....	300	1,309	33,193	837	65,135	31,105	27	.....	.....	3	.....	24	.....	15
.....	336	11,081	.....	1,380	253	9,138	752	30,900	21,010	21	.....	.....	.....	.....	21	.....	16
161,485	106,159	1,239,533	19,306	106,035	173,347	2,207,328	94,957	5,095,290	2,793,005	3,436	933	4	330	334	1,835	275	17
272,684	77,728	1,178,225	23,265	9,681	125,124	3,514,306	47,966	6,391,590	2,829,318	2,808	1,970	20	348	10	460	655	18
405,583	223,703	2,254,790	10,882	62,959	272,326	5,531,939	122,245	10,945,610	5,291,426	5,361	3,023	.....	660	.....	1,678	604	19
.....	.....	24,004	.....	3,106	206	29,304	1,503	77,394	46,587	32	.....	.....	.....	.....	32	.....	20
209,477	68,939	1,727,012	16,789	71,914	47,220	2,245,921	95,759	5,533,837	3,192,157	3,281	1,160	.....	708	49	1,364	.....	21
9,428	2,387	78,231	175	5,280	2,398	61,401	5,482	208,224	141,341	230	24	.....	51	38	117	.....	22
2,080	.....	73,909	.....	2,711	1,817	73,607	2,999	183,253	106,647	112	14	.....	30	.....	68	.....	23
247,000	74,974	1,402,142	1,616	16,341	152,584	3,729,543	40,718	6,690,647	2,920,368	5,634	5,106	45	106	.....	377	1,218	24
.....	.....	19,088	.....	360	548	16,401	936	41,064	23,727	28	.....	.....	.....	.....	28	.....	25
1,800	.....	29,483	.....	796	1,423	46,351	3,094	129,838	80,383	346	.....	.....	52	215	79	12	26
269,843	154,900	1,786,288	17,019	19,491	332,465	4,371,015	136,009	9,455,268	4,948,244	3,975	3,176	15	270	62	452	2,751	27
630,208	454,269	4,608,369	20,608	125,768	586,978	10,908,136	257,771	20,874,289	9,708,382	10,945	5,489	.....	1,103	428	3,925	1,536	28

CARRIAGES AND WAGONS, INCLUDING REPAIRS.

\$2,773,967	\$1,757,371	\$19,393,395	\$104,591	\$539,453	\$2,282,711	\$47,210,301	\$1,152,155	\$91,463,225	\$43,100,769	40,966	17,919	2,169	4,294	896	15,688	9,868	1
25,855	19,111	276,718	.....	8,216	16,570	452,796	17,786	983,483	512,901	697	480	.....	54	.....	163	.....	2
5,664	13,948	145,789	400	8,762	2,315	205,794	11,642	463,775	245,439	336	.....	.....	.....	1	335	.....	3
3,956	.....	46,130	.....	2,340	958	41,700	1,828	108,598	65,070	55	.....	.....	.....	.....	55	.....	4
10,843	6,759	153,972	1,053	8,921	3,477	218,231	9,135	519,933	292,567	356	35	.....	120	60	141	.....	5
4,282	.....	21,530	.....	794	1,359	21,800	1,026	72,360	49,534	29	.....	.....	4	.....	25	.....	6
4,800	814	70,033	7,379	1,320	1,682	66,737	2,630	165,894	96,527	98	.....	.....	12	.....	86	20	7
144,621	119,423	702,060	.....	17,561	62,602	2,052,397	29,655	3,544,259	1,402,207	910	385	.....	74	.....	451	384	8
337,468	234,574	2,899,097	35,342	42,376	353,413	6,923,194	186,069	12,997,031	5,887,768	6,350	2,145	2,150	49	200	1,806	1,820	9
168,886	133,681	1,351,898	1,539	16,402	182,829	6,346,983	49,981	9,268,688	2,871,724	2,809	1,390	.....	104	.....	1,915	32	10
43,104	55,168	332,971	1,505	13,920	14,588	611,497	29,728	1,544,383	903,158	1,251	024	.....	138	.....	489	14	11
.....	.....	11,134	.....	803	739	19,004	1,053	53,785	33,726	33	.....	.....	.....	.....	33	.....	12
209,240	226,003	1,420,146	1,157	6,023	150,137	5,030,569	83,190	8,751,095	3,622,336	3,610	2,635	.....	123	.....	832	2,533	13
14,547	3,143	134,277	.....	4,226	3,948	170,378	8,180	414,407	235,849	282	.....	.....	16	.....	231	8	14
13,600	7,540	149,298	1,130	4,636	7,367	571,312	12,390	802,252	318,550	491	45	.....	188	.....	258	.....	15
4,920	3,530	163,118	515	4,774	6,642	171,766	6,783	454,963	276,414	209	.....	.....	36	.....	173	.....	16
58,192	20,440	464,712	116	24,581	12,799	492,374	28,852	1,323,571	802,345	552	65	.....	59	.....	428	.....	17
23,291	11,992	252,379	1,515	5,406	21,945	419,839	15,991	1,016,954	531,124	665	125	.....	25	2	413	.....	18
89,092	71,365	648,005	.....	9,581	76,294	1,450,372	49,313	2,969,738	1,470,048	1,501	970	.....	120	.....	411	915	19
46,411	32,771	172,564	4,508	1,383	63,677	365,964	9,680	935,042	557,398	534	295	.....	79	.....	180	.....	20
175,930	67,669	930,946	9,545	33,423	87,217	2,423,345	40,560	4,445,838	1,981,933	1,528	514	.....	193	.....	821	416	21
.....	.....	10,312	.....	300	1,309	33,193	837	65,135	31,105	27	.....	.....	.....	.....	24	.....	22
.....	.....	9,007	.....	360	429	8,795	1,083	34,639	24,761	68	.....	.....	.....	.....	30	.....	23
5,700	3,048	60,319	.....	1,470	2,160	54,857	4,712	191,936	132,367	366	135	.....	39	22	170	.....	24
29,415	15,300	406,884	12,963	13,667	14,880	553,784	26,214	1,401,847	821,849	632	44	.....	201	25	362	.....	25
.....	336	11,081	.....	1,380	253	9,138	752	30,900	21,010	21	.....	.....	.....	.....	21	.....	26
113,508	81,880	988,951	17,314	101,150	132,921	1,627,923	76,607	3,877,956	2,173,426	2,475	648	4	313	274	1,236	270	27
249,470	74,650	1,095,570	23,090	8,681	118,315	3,272,456	41,382	5,992,423	2,678,585	2,418	1,635	.....	348	10	425	655	28
.....	.....	5,986	.....	990	87	4,402	461	20,751	15,838	11	.....	.....	8	.....	3	.....	29
243,941	123,844	1,072,636	10,082	47,350	174,984	2,334,197	58,455	5,014,008	2,621,356	1,928	182	.....	405	79	1,281	11	30
2,400	500	16,748	.....	1,570	506	11,909	1,615	46,587	33,160	68	.....	.....	36	.....	32	.....	31
.....	.....	24,004	.....	3,108	206	29,304	1,503	77,394	46,587	32	.....	.....	.....	.....	32	.....	32
183,077	67,303	1,577,352	16,309	68,952	40,480	1,828,536	82,775	4,830,159	2,918,848	2,704	820	.....	647	37	1,200	.....	33
9,428	2,387	70,693	175	5,280	2,224	4,434	4,743	187,919	128,172	211	24	.....	43	38	106	.....	34
2,080	.....	73,909	.....	2,711	1,817	73,607	2,999	183,253	106,647	112	14	.....	30	.....	68	.....	35
6,900	568	48,672	.....	3,360	3,410	84,664	5,652	214,141	123,825	176	.....	.....	47	.....	129	.....	36

¹ Same number reported throughout the year.
² All other states embrace: Arkansas, 26 establishments; California, 32; Colorado, 7; Georgia, 17; Kansas, 12; Maine, 60; Maryland, 43; Minnesota, 70; Nebraska, 10; New Hampshire, 13; New Jersey, 122; North Dakota, 4; Oklahoma, 12; South Dakota, 32; Texas, 18; Virginia, 66; Washington, 14; West Virginia, 39; and Wyoming, 4.

MANUFACTURES.

TABLE 16.—DETAILED STATEMENT.

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

CARRIAGES, AND WAGONS, INCLUDING REPAIRS—Continued.

1	Tennessee.....	47	720	65	33	14	10	598	Au	661	Ja	534	616	611	5	.....	.....	\$1,955,713
2	Texas.....	15	126	19	5	2	2	98	Au ³	101	Mh ³	93	99	98	.....	1	.....	204,803
3	Utah.....	3	18	2	.....	.....	.....	16	De	20	Ja	13	20	20	.....	.....	.....	65,396
4	Vermont.....	23	67	31	1	.....	.....	35	Se	38	Mh	31	39	39	.....	.....	.....	141,030
5	Virginia.....	63	943	79	35	32	20	777	De	866	Ap	696	874	856	16	2	.....	2,725,562
6	Washington.....	13	36	16	.....	.....	.....	20	Mh ³	21	No ³	18	20	19	.....	1	.....	73,029
7	West Virginia.....	36	200	48	7	1	7	137	No	140	Oc	133	139	137	2	.....	.....	449,682
8	Wisconsin.....	118	1,777	142	82	75	24	1,454	Ja	1,558	My	1,349	1,500	1,470	14	7	9	7,400,366
9	All other states ⁴	14	291	14	8	9	2	258	.....	.....	.....	.....	269	267	.....	2	.....	1,421,637

CARRIAGE AND WAGON MATERIALS.

1	United States.....	258	7,429	212	374	195	139	6,509	Oc	7,095	Mh	5,856	7,157	6,885	247	25	.....	\$17,071,206
2	Alabama.....	4	34	3	4	1	.....	26	De	40	Ja	19	40	40	.....	.....	.....	40,332
3	Arkansas.....	15	720	7	30	11	3	669	No	792	Mh	550	711	708	.....	3	.....	1,166,228
4	Connecticut.....	7	34	6	3	1	1	23	Ja	34	Oc	19	22	22	.....	.....	.....	89,910
5	Illinois.....	8	445	8	20	20	8	389	Au	437	Ap	339	394	390	1	3	.....	1,434,737
6	Indiana.....	21	882	11	39	23	27	782	Oc	868	Mh	696	840	794	38	8	.....	2,613,643
7	Iowa.....	8	129	4	15	11	5	94	De	113	Ja	70	113	113	.....	.....	.....	407,990
8	Kentucky.....	19	595	17	43	7	7	521	De	608	Fe ³	455	610	609	1	.....	.....	1,493,767
9	Louisiana.....	3	32	6	.....	4	.....	22	Oc ³	24	Se ³	18	22	22	.....	.....	.....	41,048
10	Massachusetts.....	7	95	13	3	2	2	75	De ³	84	Fe	60	83	74	2	7	.....	185,280
11	Michigan.....	7	149	4	6	.....	4	135	Se	160	Jy	106	160	159	1	.....	.....	474,379
12	Mississippi.....	5	101	5	7	.....	.....	89	Au	112	Ja	64	87	87	.....	.....	.....	89,823
13	Missouri.....	9	305	4	18	9	4	270	Fe	279	Jy	250	283	280	3	.....	.....	766,905
14	New York.....	18	295	18	11	7	18	241	No	290	Ja	173	290	273	15	2	.....	1,018,844
15	North Carolina.....	8	122	4	10	2	.....	106	De ³	116	My	97	121	121	.....	.....	.....	177,530
16	Ohio.....	33	1,390	22	58	52	39	1,219	Se	1,461	Ja	904	1,450	1,303	140	1	.....	3,632,774
17	Pennsylvania.....	19	212	16	18	.....	2	176	De	181	Ja	170	179	178	.....	1	.....	519,490
18	Rhode Island.....	3	10	4	.....	.....	.....	6	(⁵)	6	(⁵)	6	6	6	.....	.....	.....	32,675
19	Tennessee.....	19	1,161	9	54	23	8	1,067	Oc	1,139	Je	1,033	1,124	1,108	16	.....	.....	2,047,566
20	Wisconsin.....	6	58	10	3	1	.....	44	My	60	Oc ³	24	55	55	.....	.....	.....	81,471
21	All other states ⁴	39	660	41	32	21	11	555	.....	.....	.....	.....	567	543	24	.....	.....	1,654,254

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 power (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).
³ Same number reported for one or more other months.
⁴ All other states embrace: Arkansas, 11 establishments; and Wyoming, 3.

CARRIAGES AND WAGONS AND MATERIALS.

BY STATES: 1919—Continued.

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

CARRIAGES, AND WAGONS, INCLUDING REPAIRS—Continued.

\$92,936	\$38,068	\$525,815	\$125	\$16,201	\$36,114	\$1,407,910	\$40,216	\$2,577,390	\$1,129,264	1,117	653	97	367	115	1
8,920	1,985	92,611	.....	3,960	2,425	101,714	4,929	280,800	173,960	96	.....	22	74	.....	2
.....	.....	19,088	.....	360	548	16,401	936	41,064	23,727	28	.....	.....	28	.....	3
1,800	29,483	29,483	.....	796	1,423	46,351	3,094	129,828	80,353	346	.....	52	215	78	4
129,995	128,875	740,773	.....	18,275	280,140	2,181,173	33,555	4,054,170	1,839,442	1,042	379	69	594	30	5
.....	.....	33,583	72	2,712	1,097	29,901	4,214	99,546	65,481	66	.....	6	60	.....	6
14,370	15,586	151,175	500	5,843	10,094	309,644	10,373	626,213	306,190	479	.....	127	132	7	7
208,785	154,117	1,750,035	17,019	14,511	331,406	4,300,811	134,436	9,315,834	4,880,587	3,653	2,916	15	290	450	8
17,540	16,513	271,981	278	1,015	48,905	778,675	10,235	1,235,488	446,575	694	526	49	119	85	9

CARRIAGE AND WAGON MATERIALS.

\$934,688	\$370,856	\$5,666,771	\$17,448	\$74,002	\$561,082	\$14,437,114	\$297,559	\$26,765,316	\$12,030,643	23,700	17,563	135	468	545	4,939	2,884	1
7,981	2,404	19,568	.....	160	633	44,368	752	89,433	44,313	215	200	.....	15	.....	.....	.....	2
56,314	15,072	406,927	3,750	1,212	28,067	935,333	6,976	1,807,497	865,188	1,961	1,875	.....	.....	86	100	.....	3
7,675	333	28,279	.....	940	950	94,409	3,708	157,540	59,423	127	80	.....	.....	47	.....	.....	4
53,614	32,151	378,036	.....	96	65,222	1,007,192	17,484	1,866,402	841,746	1,271	1,015	.....	7	249	.....	.....	5
108,347	58,985	711,529	.....	1,238	81,532	1,999,882	73,030	3,516,457	1,444,045	3,583	1,870	70	12	1,631	1,000	.....	6
44,377	16,759	99,194	.....	1,886	3,748	355,906	10,961	610,999	244,132	438	125	.....	9	304	.....	.....	7
55,818	12,989	441,931	180	995	39,681	731,863	17,886	1,758,680	1,008,931	1,959	1,595	.....	28	366	58	.....	8
.....	3,396	12,020	.....	300	391	41,006	416	76,124	34,702	68	60	.....	.....	8	.....	.....	9
9,823	5,376	85,328	.....	7,340	3,122	147,451	8,520	348,520	192,549	349	237	.....	19	18	75	.....	10
23,113	4,510	136,863	.....	48	10,936	268,344	9,709	505,937	227,884	569	350	.....	10	25	184	.....	11
12,300	.....	63,273	9,067	50	1,181	81,314	110	172,169	90,745	172	172	.....	.....	.....	.....	.....	12
44,170	11,318	199,535	213	7,284	24,798	554,890	8,322	967,272	404,060	988	540	.....	25	423	.....	.....	13
47,977	24,299	250,582	1,992	4,885	40,426	579,405	18,350	1,217,334	619,579	961	285	.....	17	60	599	5	14
23,214	3,078	82,655	175	1,000	6,809	241,850	6,584	399,167	150,733	390	335	20	.....	35	.....	.....	15
161,642	99,859	1,182,154	.....	15,609	97,342	3,197,742	63,790	5,931,602	2,670,070	3,433	2,841	.....	195	397	593	.....	16
26,400	1,636	149,660	480	2,962	6,740	417,385	12,984	703,678	273,309	577	340	.....	61	12	164	.....	17
.....	.....	7,538	.....	174	6,497	.....	639	20,305	13,169	19	.....	.....	8	11	.....	.....	18
154,064	36,906	376,327	1,491	140	116,440	2,321,633	592	4,118,257	1,791,122	4,517	4,453	45	9	10	1,103	.....	19
1,058	783	36,253	.....	4,980	1,049	70,204	1,573	139,434	67,657	322	260	.....	10	50	2	.....	20
96,801	41,016	498,219	100	22,877	31,841	1,340,940	35,283	2,368,509	987,286	1,751	930	.....	43	380	398	15	21

¹ Same number reported throughout the year.

² All other states embrace: California, 3 establishments; Colorado, 1; Georgia, 5; Kansas, 2; Maine, 2; Maryland, 1; Minnesota, 3; Nebraska, 1; New Hampshire, 3; New Jersey, 4; North Dakota, 1; Oklahoma, 1; South Dakota, 1; Texas, 3; Virginia, 3; Washington, 1; West Virginia, 3; and Wyoming, 1.