

CHAPTER II.—GENERAL SUMMARY

INTRODUCTION

The Census of Manufactures dates back to 1810, when, on the recommendation of the Secretary of the Treasury, Congress amended the census act to authorize a canvass of manufactures and to provide funds for it. The United States became thereby the first Nation to establish a census of industry. (See "Legal provision for biennial census," p. 1.) The census of 1810, taken by United States marshals without the use of formal schedules, covered imperfectly the industrial activities of the country at that time. The chief value of the statistics lies in the analysis of them by Tench Coxe, who was appointed by the Secretary of the Treasury to tabulate and interpret the returns.

The annual report of the Treasury Department for 1855 gives manufactures statistics or estimates for the four decennial census years from 1810 to 1840. According to this report, the value of products for 1810, based upon the incomplete census returns, Coxe's estimates, and Treasury revisions, was \$145,000,000.

Although the census of 1820 was so imperfectly taken that Congress refused to authorize the publication of the figures, the Treasury Department, in the document referred to above, reported \$53,000,000 as the value of products for that year, unquestionably a gross understatement of the actual value of industrial production.

The Census of Manufactures was omitted entirely in 1830, but on the basis of returns made from 10 States in compliance with a congressional resolution of 1832, the Treasury estimated the value of products for 1830 at \$113,000,000.

The report of the census of 1840, the most accurate and comprehensive canvass of industry up to that time, gave \$483,000,000 as the value of manufactured products. Although in prior years there had been a beginning of production by the factory method, particularly of textiles and iron, it was not until about this time that the factory method began to be extended rapidly to other products which entered into competition in the market with handmade goods.

Until about the middle of the nineteenth century, however, the bulk of general manufacturing was done in the neighborhood shop and in the household rather than in the factory. The census for 1849 is, therefore, the starting point for properly comparable statistics of manufactures, although not until the census for 1899 was there any satisfactory line of demarcation between the shop or household and the factory. Comparative statistics for the censuses for 1849 and subsequent years are given in Table 1, page

15. (See also "Comparableness with preceding years—Years covered," p. 2.)

The impetus given by the factory system to the improvement of mechanical equipment is indicated by the increase in the number of patents issued, from an average of 350 per annum during the period 1801-1850 to a yearly average of more than 5,000 for the period 1851-1870.

Not until the decade 1859-1869 did it become apparent that the complete supply of most staple commodities for the home market was within the capacity of domestic production. Manufacturing began about this time to be carried on in larger plants, and as a result the census for 1879 showed considerable increases both in wage earners and in value of output, but recorded a gain of less than 1 per cent in the number of industrial establishments.

By the close of the decade 1879-1889 the value of manufactures exceeded that of agricultural products. By this time, the full effect of machine manufacture was beginning to be felt, and capital and markets were expanding rapidly. The decade from 1889 to 1899, while showing a smaller percentage of increase in value of products than any prior decade for which comparable statistics were available, was important as marking the entrance of the United States into international trade in manufactures and the development of the corporate form of organization.

During the years between 1899 and 1919, with an upward secular tendency of commodity prices and with population increasing by 39 per cent, the value of manufactured products increased 444 per cent and the index of factory output, as measured in quantities of products rather than in dollars, rose from 100 to 214. The number of wage earners employed in manufacturing establishments almost doubled during the 20-year period. If, however, this is broken down into 5-year periods corresponding to the intervals between quinquennial censuses of manufactures, decidedly uneven rates of increases are noted. These irregularities reflect both general trends in business activity and particular cyclical conditions prevailing during the five census years covered by the returns. The increase in physical volume of output is estimated to have been 22 per cent between 1899 and 1904, 30 per cent between 1904 and 1909, 6 per cent between 1909 and 1914, and 26 per cent between 1914 and 1919. Since the last 5-year period began in a year of industrial depression, continued during the World War, and ended in a year of great industrial activity, the increase in production was not so great as might have

been expected—not so great, in fact, as during the 1904–1909 period of peace.

Manufacturing activity in 1929 reached a new high mark. The value of products manufactured increased 12.3 per cent over the value reported to the census for the previous record year, 1927, while the index of physical volume of output, based on the production of 1899 as 100, rose from 214 in 1919 and 272 in 1927 to 295 in 1929.

The horsepower capacity of prime movers (engines, turbines, and water wheels) in 1929 was only 2.3 per cent more than in 1927, and was practically the same as in 1919, but the horsepower capacity of motors driven by purchased electric energy increased 19 per cent from 1927 to 1929 and 145.3 per cent during the 10-year period.¹

The electrification of manufacturing industries is accomplished also by the use of motors connected with generators which in turn are driven by prime movers in the same plants. The capacity of such motors increased 77.6 per cent between 1919 and 1929, and in the latter year totaled 12,376,376 horsepower.

The increasing tempo of industrial production culminating in the record activity of 1929 occurred without a corresponding gain in the number of wage earners employed. Mechanization of industry and more efficient utilization of labor led to a drop of 1.8 per cent in factory employment in 1929 as compared with the abnormal postwar year 1919, but the number employed in 1929 showed an increase of 5.9 per cent over 1927. The wage budget of 1929, however, exceeded that of 1919 by 11.1 per cent and that of 1927 by 7.1 per cent.

¹The rapid addition to power equipment of motors on purchased energy should be regarded with caution in any comparison between census years of either manufacturing activity or extent of plant mechanization, since the installation of motors for driving machines individually or in groups results in a greater power-equipment capacity for a given amount of production than is customarily required when the machines are driven by prime movers in the plant. (See "Power equipment," p. 8.)

The increase of 16.1 per cent in the total population of the United States during the past decade (1920–1930) and the decrease of 1.8 per cent in factory wage earners employed in 1929 as compared with 1919 reflect an employment condition which can not be fully accounted for in the statistics of the census of manufactures. While certain expanding industries, notably those referred to in the following paragraph, absorbed wage earners between 1919 and 1929 at a more rapid rate than that by which the population increased, the largest increase in the number of employment opportunities occurred not in the manufactures group taken as a whole, but in the distribution, service, and construction groups of industries, not covered by the census of manufactures.

Among the outstanding wage-earner gains in manufacturing industries between 1919 and 1929 were those which occurred in the following lines of production: Electrical machinery, apparatus, and supplies (including the manufacture of radio equipment), 54.8 per cent; bakery products, 41.8 per cent; furniture, 37.9 per cent; petroleum refining, 36.9 per cent; chemicals (including the manufacture of rayon and allied products), 36.1 per cent; and motor vehicles and parts, 30.4 per cent.

Twenty-two of the 48 States showed gains in factory wage-earner employment during the decade 1919–1929, the highest rates of increase recorded being those for five Southern States: South Carolina, 36.9 per cent; Tennessee, 34.9 per cent; North Carolina, 33.1 per cent; Georgia, 27.6 per cent; and Texas, 25.1 per cent. The major part of the gains in these States is accounted for by increases in the manufacture of cotton goods, knit goods, lumber, and furniture in the Carolinas; of cotton goods, knit goods, rayon, and motor-vehicle bodies and parts in Tennessee; of cotton goods, knit goods, and turpentine and rosin in Georgia; and of petroleum, foundry and machine-shop products, bakery products, and cotton goods in Texas.

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TABLE 1.—COMBINED SUMMARY FOR ALL MANUFACTURING INDUSTRIES, FOR THE UNITED STATES: 1849 TO 1929

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹
FACTORIES AND HAND AND NEIGHBORHOOD INDUSTRIES						
1849 ²	123, 025	957, 059	\$236, 755, 464	\$555, 123, 882	\$1, 019, 106, 616	\$403, 932, 734
1859 ²	140, 433	1, 311, 246	378, 878, 906	1, 031, 605, 092	1, 885, 861, 676	854, 256, 584
Per cent of increase, 1849 to 1859.....	14. 1	37. 0	60. 0	85. 8	85. 1	84. 1
1869 ²	252, 148	2, 053, 996	620, 467, 474	1, 990, 741, 794	3, 385, 860, 354	1, 395, 118, 500
Per cent of increase, 1859 to 1869.....	79. 6	56. 6	63. 8	93. 0	79. 5	63. 3
1879 ²	253, 852	2, 732, 595	947, 953, 795	3, 390, 823, 549	5, 369, 579, 191	1, 972, 755, 642
Per cent of increase, 1869 to 1879.....	0. 7	33. 0	52. 8	70. 6	58. 6	41. 4
1889 ²	355, 405	4, 251, 535	1, 891, 219, 896	5, 162, 013, 878	9, 372, 378, 843	4, 210, 364, 965
Per cent of increase, 1879 to 1889.....	40. 0	55. 6	90. 5	52. 0	74. 5	113. 4
1899 ²	512, 101	5, 300, 143	2, 320, 938, 168	7, 343, 627, 875	13, 000, 149, 159	5, 050, 521, 284
Per cent of increase, 1889 to 1899.....	44. 1	24. 8	22. 7	42. 3	38. 7	34. 3
FACTORIES, EXCLUDING HAND AND NEIGHBORHOOD INDUSTRIES						
1899 ²	207, 514	4, 712, 763	2, 008, 361, 119	6, 575, 851, 491	11, 406, 626, 701	4, 831, 075, 210
1904 ²	216, 180	5, 468, 383	2, 610, 444, 953	8, 500, 207, 810	14, 793, 902, 563	6, 293, 604, 753
Per cent of increase, 1899 to 1904.....	4. 2	16. 0	30. 0	29. 3	29. 7	30. 3
1909 ²	208, 491	6, 615, 046	3, 427, 037, 884	12, 142, 790, 878	20, 672, 051, 370	8, 520, 200, 992
Per cent of increase, 1904 to 1909.....	24. 2	21. 0	31. 3	42. 9	39. 7	35. 5
Per cent of increase, 1899 to 1909.....	29. 4	40. 4	70. 6	84. 7	81. 2	76. 5
1914 ²	272, 518	7, 023, 685	4, 067, 718, 740	14, 358, 935, 014	24, 216, 514, 573	9, 857, 579, 559
Per cent of increase, 1909 to 1914.....	1. 5	6. 2	18. 7	18. 3	17. 1	15. 6
Per cent of increase, 1904 to 1914.....	26. 1	28. 4	55. 8	68. 9	63. 7	55. 6
1914 ²	177, 110	6, 896, 190	2 4, 067, 718, 740	14, 278, 333, 194	23, 987, 800, 617	9, 709, 527, 423
1919 ²	214, 383	9, 000, 059	2 10, 461, 786, 869	37, 232, 702, 390	62, 041, 795, 316	24, 800, 092, 926
Per cent of increase, 1914 to 1919.....	21. 0	30. 5	157. 2	160. 8	168. 6	155. 5
1921 ²	196, 267	6, 946, 570	8, 202, 324, 330	25, 321, 055, 346	43, 653, 282, 833	13, 332, 227, 487
Per cent of decrease (-), 1919 to 1921.....	-8. 5	-22. 8	-21. 6	-32. 0	-29. 6	-26. 1
1923 ²	196, 309	8, 778, 156	11, 009, 297, 726	34, 705, 697, 749	60, 555, 998, 200	25, 850, 300, 451
Per cent of increase, 1921 to 1923.....	(4)	26. 4	34. 2	37. 1	38. 7	41. 0
1925 ²	187, 390	8, 384, 261	10, 729, 968, 927	35, 935, 047, 704	62, 713, 713, 730	26, 778, 066, 026
Per cent of increase or decrease (-), 1923 to 1925.....	-4. 5	-4. 5	-2. 5	3. 5	3. 6	3. 6
1927 ²	191, 866	8, 349, 755	10, 848, 802, 532	35, 133, 136, 889	62, 718, 347, 289	27, 555, 210, 400
Per cent of increase or decrease (-), 1925 to 1927.....	2. 4	-0. 4	1. 1	-2. 2	(4)	3. 0
1929 ²	210, 959	8, 838, 743	11, 620, 973, 254	38, 540, 570, 732	70, 434, 863, 443	31, 855, 283, 711
Per cent of increase, 1927 to 1929.....	10. 0	5. 9	7. 1	(c)	12. 3	(e)

¹ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
² For all establishments having products valued at \$500 or more. See GENERAL EXPLANATIONS—Establishments Covered—Size.
³ For all establishments having products valued at \$5,000 or more. See GENERAL EXPLANATIONS—Establishments Covered—Size.
⁴ Less than one-tenth of 1 per cent.
⁵ The cost-of-materials items for 1927 and earlier years, which include data on the cost of mill or shop supplies, are not strictly comparable with that for 1929, which does not include such data, and therefore no per cent of increase is shown. See GENERAL EXPLANATIONS—Comparableness with Preceding Years—Schedule Changes—Mill or Shop Supplies.
⁶ Because of a change in the cost-of-materials item (see footnote 5), the figure for 1927 is not comparable with that for 1929, and therefore no per cent of increase is given.

TABLE 2.—INDEXES AND RATIOS FOR POPULATION, WAGE EARNERS, PRODUCTION, AND POWER: 1899 TO 1929

[For explanation of methods used in computing the indexes in this table, see "Production as measured by physical volume," p. 8]

Census year	INDEXES					RATIOS	
	Popula- tion	Wage earners	Produc- tion (quan- tity)	Produc- tion per wage earner	Horse- power ¹	Horse- power per 100 wage earners ¹	Wage earners per 1,000 population
1899.....	100	100	100	100	100	211	63
1904.....	110	114	122	107	133	248	65
1909.....	121	137	159	116	186	287	71
1914.....	131	149	169	116	224	323	70
1919.....	140	191	214	112	294	326	86
1921.....	145	147	170	116	(2)	(2)	64
1923.....	149	188	261	140	332	377	79
1925.....	154	178	269	151	359	427	73
1927.....	158	177	272	154	390	465	71
1929.....	162	188	295	157	431	486	73

¹ Covers rated capacity of prime movers and of motors driven by purchased electric energy. For explanation of the inflation of data for capacity, see GENERAL EXPLANATIONS—Power Equipment, p. 8.
² No data.
³ Revised.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—COMBINED GENERAL STATISTICS FOR ALL MANUFACTURING INDUSTRIES: 1899 TO 1929

[No data for establishments reporting products valued at \$500 or more but less than \$5,000 are included in this table for the census years from 1921 to 1929, inclusive. For the years from 1894 to 1919, inclusive, data for such establishments have been deducted from the following items: Number of establishments; wage earners; cost of materials, containers for products, fuel, and purchased electric energy; value of products; value added by manufacture. It is impossible, however, to assemble separate figures relating to establishments having products valued at less than \$5,000, for the remaining items, covering the years 1904 to 1919, or for any items for 1899. Each of the items for 1899, therefore, refers to all establishments reporting products valued at \$500 or more. This difference in the value-of-products limit, however, has little effect on the comparableness of the several items for different census years, with the exception of that for number of establishments. (See GENERAL EXPLANATIONS—Establishments Covered—Size.) The figures for the automobile-repairing industry have been deducted from the statistics for 1919 and 1924, the only census years for which this industry was canvassed. Data for the "Coffee and spice, roasting and grinding" industry are included for all years except 1925, for which year no statistics for this industry, for the United States as a whole, were compiled; and data for the "Poultry killing, dressing, and packing, wholesale" industry are included for all years except 1927, for which year this industry was not canvassed.]

YEAR OR PERIOD	Number of establishments	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES				HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		
		Total	Proprietors and firm members	Salaried officers and employees ¹	Wage earners (average for the year)	Total	Prime movers	Motors run by purchased energy
1929	210,959	10,330,728	133,210	1,358,775	8,838,743	42,931,061	20,155,307	22,775,664
1927	191,866	9,733,433	132,681	1,301,002	8,349,765	38,825,681	19,003,371	19,132,310
1925	187,300	9,773,051	133,054	1,255,730	8,384,201	35,772,628	19,903,800	15,368,828
1923	196,309	10,195,923	148,421	1,269,351	8,778,166	33,094,223	19,723,565	13,365,663
1921	196,207	8,205,821	172,871	1,146,380	6,946,570	(²)	(²)	(²)
1919	214,383	10,688,849	250,571	1,438,219	9,000,059	29,327,669	20,043,170	9,284,409
1914	177,110	8,117,895	259,172	962,533	6,896,190	22,290,899	18,406,175	3,884,724
1909	175,142	7,536,148	273,265	760,267	6,472,618	18,551,737	16,802,708	1,749,031
1904	145,033	6,107,259	225,073	519,556	5,362,030	13,296,894	12,354,805	441,589
1899	*207,514	(³)	(³)	364,120	4,712,763	9,960,980	9,773,413	182,562
PER CENT OF INCREASE OR DECREASE (—)								
1927-1929 ⁴	10.0	5.6	0.4	4.4	5.9	10.6	2.3	19.0
1925-1927 ⁴	2.4	0.1	-0.3	3.6	-0.4	8.5	-1.1	20.8
1923-1925 ⁴	-4.5	-4.1	-10.4	-1.1	-4.5	8.1	0.9	18.7
1921-1923	(⁵)	(¹)	-14.1	(¹)	26.4			
1919-1921	-8.5	-22.7	-31.0	-20.3	-22.8			
1919-1929	-1.6	(¹)	-46.8	(¹)	-1.8	46.4	0.6	145.3
1909-1919	22.4	41.8	-8.3	82.0	39.0	53.1	19.3	430.8
1899-1909				117.0	37.3	88.2	71.8	868.0

YEAR OR PERIOD	SALARIES AND WAGES ⁶			COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY ^{6,7}			Value of products ^{6,7}	Value added by manufacture ⁸
	Total	Salaries ¹	Wages	Total ⁹	Materials and containers ⁹	Fuel and purchased energy		
1929	\$15,216,037,315	\$3,695,064,061	\$11,620,973,254	\$38,549,579,732	\$36,683,414,013	\$1,866,165,710	\$70,434,863,443	\$31,855,233,711
1927	14,078,327,150	3,229,524,618	10,848,802,532	35,133,130,889	33,235,799,306	1,897,337,523	62,713,347,289	27,585,210,400
1925	13,051,784,805	2,921,815,878	10,129,968,927	35,935,647,704	(¹⁰)	(¹⁰)	62,713,713,730	25,778,066,026
1923	13,315,703,737	2,806,400,011	11,009,297,726	34,705,697,746	(¹⁰)	(¹⁰)	60,555,998,200	25,850,300,451
1921	10,705,427,145	2,563,102,806	8,202,324,339	25,321,055,346	(¹⁰)	(¹⁰)	43,653,282,833	13,332,227,437
1919	13,342,655,244	2,880,868,375	10,461,786,869	37,232,702,300	35,594,463,485	1,638,238,905	62,041,795,316	24,809,092,926
1914	8,342,157,309	1,274,438,620	4,007,718,740	14,278,335,194	13,612,435,737	665,897,467	23,937,860,617	9,709,527,423
1909	4,365,612,851	638,574,977	3,427,037,884	12,064,673,030	11,494,605,215	570,067,824	20,449,588,023	8,335,014,934
1904	3,184,884,275	574,439,322	2,610,444,953	8,438,860,722	8,113,662,806	324,867,826	14,617,774,351	6,178,913,629
1899	2,389,132,440	380,771,321	2,008,361,119	6,576,851,491	6,368,711,044	207,139,547	11,406,926,701	4,831,075,210
PER CENT OF INCREASE OR DECREASE (—)								
1927-1929 ⁴	8.1	11.3	7.1	(⁹)	(⁹)	-1.6	12.3	(⁹)
1925-1927 ⁴	3.1	10.5	1.1	-2.2			(⁹)	3.0
1923-1925 ⁴	-1.2	4.1	-2.5	3.5			3.6	3.6
1921-1923	28.3	9.5	34.2	37.1			38.7	41.0
1919-1921	-19.3	-11.0	-21.6	-32.0			-29.6	-26.1
1919-1929	14.0	24.8	11.1	(⁹)	(⁹)	13.9	13.5	(⁹)
1909-1919	205.6	206.9	205.3	208.6	209.7	187.4	203.4	195.9
1899-1909	82.7	146.5	70.6	83.5	80.5	175.2	79.3	73.6

¹ Data for employees of central-administrative offices are included in the figures for 1921 and earlier years but not in those for 1923 and subsequent years. The numbers and salaries of such employees, as reported for 1929, 1925, and 1923, are as follows: For 1929, 208,365 employees, \$600,437,331; 1925, 84,646, \$225,512,788; 1923, 83,373, \$207,840,169. Corresponding data for 1921 and earlier years can not be segregated. No percentages are, therefore, given for the 1921-1923 and 1919-1929. No data in regard to central-administrative-office employees were collected for 1927.

² Not called for on schedule.

³ No comparable data available for proprietors and firm members.

⁴ Because of the omission of data for the "Coffee and spice, roasting and grinding" industry for 1925 and of data for the "Poultry killing, dressing, and packing, wholesale" industry for 1927 (see headnote), the percentages for 1923-1925 understate slightly the true increases and overstate slightly the true decreases, and those for 1925-1927 and for 1927-1929 overstate slightly the true increases and understate slightly the true decreases.

⁵ Less than one-tenth of 1 per cent.

⁶ Manufacturers' profits can not be calculated from the census figures because no data are collected for certain expense items, such as interest on investment, rent, depreciation, taxes, insurance, and advertising.

⁷ The aggregates for cost of materials and value of products include large but indeterminate amounts of duplication due to the use of the products of some industries as materials by others.

⁸ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture. The figures for 1927 and earlier years are not strictly comparable with those for 1929 because of a change in the cost-of-materials item, and therefore no percentages of increase are shown for 1927-1929 and 1919-1929. (See footnote 9.)

⁹ The cost-of-materials items for 1927 and earlier years, which include data on the cost of mill or shop supplies, are not strictly comparable with that for 1929, which does not include such data, and therefore no percentage of increase is shown. See GENERAL EXPLANATIONS—Comparableness with Preceding Years—Schedule Changes—Mill or Shop Supplies.

¹⁰ Not reported separately.

* Not comparable with figures for later years. Includes number reporting products valued at less than \$5,000. See headnote.

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TABLE 4.—GENERAL STATISTICS FOR ALL INDUSTRIES, BY GEOGRAPHIC DIVISIONS AND BY STATES: 1929, 1927, AND 1919

[Data for the "Automobile repairing" industry and data for establishments with products valued at \$500 or more but less than \$5,000, in all industries, are included in the geographic division and State items for 1919 but not in the United States totals. No data for either of these classes of establishments are included in any of the figures for 1927 or 1929.]

DIVISION AND STATE	Census year	Number of establishments	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES ¹				Salaries ¹	Wages	Total	Materials and purchased energy	Value of products	Value added by manufacture ²	
			Total	Proprietors and firm members ¹	Salaried officers and employ-ees ¹	Wage earners (average for the year) ¹							Horse-power
UNITED STATES													
1929	1927	210,959	10,330,728	1,353,775	8,838,748	\$1,630,976,284	\$89,540,870,782	\$70,484,865,443	\$1,866,155,719	6,028,474,916	\$31,885,283,711		
1927	1919	101,566	9,783,438	1,301,092	8,349,755	3,220,924,818	35,253,836,889	62,718,547,289	1,633,257,523	7,185,005,860	27,886,210,400		
1919		214,383	10,688,849	1,486,219	9,000,039	2,860,808,375	37,252,702,820	62,041,795,316	1,638,258,905	24,909,082,926			
GEOGRAPHIC DIVISIONS:													
New England													
1929	1927	18,272	1,256,504	109,514	1,098,514	386,308,899	4,686,822	3,183,415,191	143,998,615	6,398,214,685	8,289,798,494		
1927	1919	17,745	1,068,815	1,098,748	4,866,155	1,328,690,205	3,043,861,047	6,028,474,916	150,005,890	6,028,474,916	2,979,611,869		
1919		25,528	1,583,055	1,351,389	3,779,818	334,236,008	3,951,008,159	7,185,005,860	140,266,888	7,185,005,860	3,231,162,640		
Middle Atlantic													
1929	1927	64,730	3,047,316	440,593	2,562,840	3,640,419,529	11,183,618,642	21,359,573,975	602,424,862	19,583,075,975	10,175,955,333		
1927	1919	62,276	2,974,216	491,674	2,487,791	3,494,678,907	10,488,831,747	19,583,075,975	612,497,617	19,583,075,975	9,044,243,332		
1919		88,860	3,450,583	86,286	2,872,653	3,464,931,287	11,424,065,820	19,584,772,780	580,308,618	19,584,772,780	8,430,676,934		
East North Central													
1929	1927	46,396	2,974,216	407,180	2,542,176	3,738,804,079	11,658,798,724	11,040,248,599	649,650,125	21,663,283,041	9,873,490,217		
1927	1919	43,671	2,369,860	433,632	2,396,618	3,840,800,715	10,528,303,203	18,988,400,328	637,293,156	8,463,007,125	8,463,007,125		
1919		61,332	2,884,836	49,586	7,702,551	870,019,894	10,621,687,080	17,787,479,599	507,741,884	17,787,479,599	7,115,792,510		
West North Central													
1929	1927	17,792	577,214	93,045	474,115	215,510,466	3,507,302,341	5,377,382,978	94,948,102	4,831,111,987	1,869,990,673		
1927	1919	16,192	448,192	112,829	3,806,088	590,698,481	3,170,882,447	4,733,111,987	4,631,982,156	4,631,982,156	1,462,122,550		
1919		29,166	639,323	26,859	499,635	199,496,362	3,778,126,226	5,187,064,766	88,188,622	5,187,064,766	1,403,693,540		
South Atlantic													
1929	1927	20,860	1,014,505	87,748	912,247	298,768,172	825,902,832	2,670,855,550	140,460,648	2,869,276,426	2,458,221,327		
1927	1919	17,029	831,595	84,500	789,660	168,602,742	778,028,847	2,346,656,241	107,114,941	3,074,167,429	1,462,122,550		
1919		29,976	1,014,505	29,883	789,660	168,602,742	2,996,284,087	4,659,161,661	107,114,941	4,659,161,661	1,858,891,004		
East South Central													
1929	1927	9,880	428,880	39,085	377,870	91,787,383	348,733,174	1,090,015,001	1,014,461,541	76,658,460	924,428,157		
1927	1919	7,637	382,595	37,749	369,542	71,439,834	298,710,318	1,025,122,182	932,675,099	1,808,318,353	789,896,171		
1919		14,655	382,595	37,749	329,226	71,439,834	298,710,318	977,824,517	897,695,744	1,642,391,461	664,566,944		
West South Central													
1929	1927	10,576	347,435	43,366	297,743	316,474,819	1,851,629,694	5,479,297	53,479,297	2,802,091,813	950,462,119		
1927	1919	8,208	267,142	41,269	267,142	281,155,572	1,410,553	2,395,410,248	78,747,172	1,808,318,353	755,255,329		
1919		13,909	339,950	41,269	285,244	293,021,663	1,647,993,671	2,277,861,268	47,146,562	2,277,861,268	729,867,732		
Mountain													
1929	1927	4,319	121,185	16,286	102,492	36,915,676	144,485,836	827,859,292	41,996,224	1,239,910,858	370,055,342		
1927	1919	3,919	94,957	17,402	94,957	32,598,594	130,308,790	615,783,939	43,816,900	881,000,820	321,490,390		
1919		7,612	133,447	6,829	109,216	32,598,594	141,900,942	569,407,154	41,231,964	922,676,082	312,456,974		
Pacific													
1929	1927	18,154	568,473	12,939	471,246	239,365,318	670,599,107	2,387,493,889	64,345,296	4,319,680,504	1,922,881,940		
1927	1919	13,189	515,352	19,187	424,468	119,793,206	399,969,363	2,018,417,460	66,899,254	3,614,013,174	1,631,793,160		
1919		19,567	515,352	19,187	453,179	119,793,206	381,269,365	1,868,242,060	56,858,665	3,157,610,312	1,269,806,222		
NEW ENGLAND:													
Maine													
1929	1927	1,568	77,690	891	70,159	16,100,485	74,199,961	217,866,820	204,622,889	391,751,864	174,884,514		
1927	1919	1,426	99,312	7,916	88,142	17,502,853	94,225,346	298,868,679	19,076,350	372,929,229	163,272,785		
1919		2,995	99,312	7,916	88,142	17,502,853	94,225,346	254,568,523	13,483,662	456,821,783	202,258,260		
New Hampshire													
1929	1927	1,075	71,941	708	65,511	14,732,103	70,513,919	185,402,323	176,903,427	332,534,753	147,132,430		
1927	1919	1,028	60,332	5,882	57,673	13,212,402	72,809,397	182,106,375	7,928,171	327,523,366	145,421,993		
1919		1,499	90,332	1,426	83,074	13,212,402	79,226,341	230,827,617	7,928,171	407,204,934	167,077,317		
Vermont													
1929	1927	927	31,189	649	27,421	8,136,403	33,809,987	66,827,873	62,871,755	143,523,547	77,259,674		
1927	1919	880	26,241	1,804	26,241	7,345,179	32,305,433	68,491,640	3,465,792	134,030,978	64,072,546		
1919		1,790	38,845	3,560	33,491	7,345,179	34,083,985	99,172,581	3,465,792	168,108,072	72,835,491		
Massachusetts													
1929	1927	9,872	645,081	5,867	557,494	215,218,070	694,805,312	1,608,241,295	1,608,241,295	3,392,162,287	1,710,729,449		
1927	1919	10,097	512,521	89,284	578,668	183,435,405	705,929,549	1,948,573,556	1,948,573,556	3,317,851,888	1,693,039,477		
1919		11,906	812,521	9,451	718,806	183,435,405	706,628,387	2,360,715,060	2,188,368,757	4,011,131,592	1,750,466,496		
Rhode Island													
1929	1927	1,701	141,074	958	126,088	38,701,802	144,196,984	342,990,071	328,999,079	666,398,210	324,078,139		
1927	1919	1,487	136,012	2,124	120,009	31,013,981	138,895,884	313,107,076	297,356,633	592,832,647	279,137,592		
1919		2,466	186,012	14,223	139,665	31,013,981	137,496,377	415,989,203	402,205,892	747,823,858	351,859,656		
Connecticut													
1929	1927	3,129	289,579	1,563	251,861	93,480,036	398,985,412	665,661,317	633,379,231	1,471,875,604	806,214,288		
1927	1919	2,877	338,063	3,920	240,866	81,785,188	304,503,907	585,957,199	585,957,199	1,284,756,563	688,542,773		
1919		4,872	338,063	3,920	292,672	81,785,188	324,682,281	685,957,199	656,772,879	1,392,431,620	706,494,421		

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—GENERAL STATISTICS FOR ALL INDUSTRIES, BY GEOGRAPHIC DIVISIONS AND BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

DIVISION AND STATE	Census year	Number of establishments	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES ¹				Horse power	Salaries ¹	Wages	Total	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture ²
			Total	Proprietors and firm members ¹	Salaried officers and employees ¹	Wage earners (average for the year)					Materials and containers	Fuel and purchased energy			
MIDDLE ATLANTIC															
New York	1929	39,395	1,359,731	28,374	225,391	1,105,966	644,503,633	\$1,650,378,858	\$5,004,633,985	\$4,310,232,972	\$194,403,013	\$9,978,556,143	\$4,973,920,158		
	1927	36,650	1,072,284	24,717	202,810	1,072,284	513,547,903	1,605,373,086	4,904,172,874	4,606,940,039	197,232,835	9,400,061,376	4,693,888,502		
	1919	40,330	1,524,761	49,464	247,147	1,228,130	513,547,903	1,458,206,884	4,943,213,919	4,780,956,952	162,256,967	8,867,004,006	3,922,700,987		
New Jersey	1929	8,388	521,262	4,686	74,248	442,228	198,265,860	610,596,378	2,168,372,126	2,090,853,202	74,873,924	3,937,153,649	1,771,429,649		
	1927	8,312	602,170	9,349	84,135	408,003	171,074,267	570,308,502	1,956,597,097	1,866,372,802	90,224,295	3,417,450,248	1,460,653,151		
	1919	11,067	602,170	9,349	84,135	508,686	171,074,267	600,658,345	2,270,473,275	2,194,512,449	75,960,826	3,672,064,987	1,401,591,708		
Pennsylvania	1929	16,947	1,166,323	11,413	140,864	1,014,046	369,843,068	1,379,444,293	4,013,255,531	3,680,107,606	333,147,925	7,448,861,087	3,430,605,526		
	1927	17,314	1,087,414	10,900	136,935	987,414	334,763,215	1,315,993,319	3,728,061,776	3,403,021,289	325,040,487	6,715,563,455	2,857,501,879		
	1919	27,973	1,323,662	27,433	160,392	1,135,837	334,763,215	1,406,066,138	4,210,408,628	3,868,317,807	342,090,821	7,105,294,239	3,105,294,239		
EAST NORTH CENTRAL															
Ohio	1929	11,855	859,269	5,904	112,242	741,143	302,013,905	1,102,166,499	3,138,088,834	2,919,341,176	218,757,658	6,027,903,137	2,859,804,303		
	1927	10,961	882,918	12,823	139,362	689,097	273,714,359	944,631,794	2,877,126,245	2,661,934,504	215,141,741	5,230,323,268	2,353,197,923		
	1919	16,125	882,918	12,823	139,362	730,733	273,714,359	944,631,794	2,911,947,871	2,739,083,617	182,811,254	5,100,308,729	2,183,360,857		
Indiana	1929	5,091	362,453	2,565	45,190	314,698	115,415,151	418,771,194	1,403,431,157	1,280,124,322	123,306,835	2,539,893,849	1,136,462,692		
	1927	4,726	330,145	6,768	45,797	290,717	85,116,446	375,217,514	1,277,919,071	1,100,861,504	126,057,567	2,153,479,337	925,310,875		
	1919	7,916	330,145	6,768	45,797	277,580	85,116,446	317,042,997	1,174,950,566	1,084,756,375	90,194,193	1,895,763,382	723,802,819		
Illinois	1929	15,333	836,347	8,840	135,952	691,555	368,721,898	1,024,870,235	3,352,054,479	3,198,957,624	153,096,855	6,293,092,240	2,930,097,761		
	1927	14,711	804,806	15,232	136,409	623,468	274,616,349	914,102,612	2,766,719,071	2,562,381,054	204,338,017	5,386,003,235	2,464,911,128		
	1919	18,593	804,806	15,232	136,409	653,114	274,616,349	801,087,359	3,488,270,446	3,362,381,054	126,889,392	5,423,244,694	1,696,974,248		
Michigan	1929	6,686	602,988	3,809	69,144	530,035	201,283,914	840,595,363	2,589,374,167	2,480,160,584	109,213,583	4,658,718,046	2,067,243,879		
	1927	6,800	549,059	6,762	71,065	471,242	149,034,998	760,602,319	2,346,678,396	2,248,213,128	98,466,268	4,244,941,132	1,898,262,736		
	1919	8,305	549,059	6,762	71,065	471,242	149,034,998	639,708,063	1,919,243,243	1,852,906,090	66,337,153	3,466,188,483	1,546,945,240		
Wisconsin	1929	7,431	313,139	3,742	44,652	264,745	115,033,424	352,400,893	1,206,800,087	1,161,664,893	45,135,194	2,156,681,769	949,841,682		
	1927	7,473	317,899	7,851	45,999	263,049	87,557,742	322,697,105	1,153,327,898	1,110,321,838	43,006,060	1,973,653,261	820,325,363		
	1919	10,303	317,899	7,851	45,999	263,049	87,557,742	290,440,561	1,127,274,961	1,084,868,069	42,406,892	1,846,984,307	710,760,346		
WEST NORTH CENTRAL															
Minnesota	1929	4,315	126,409	2,178	20,317	103,414	47,724,098	132,418,195	768,218,329	741,454,482	26,763,847	1,173,213,606	404,995,277		
	1927	3,886	147,678	5,128	26,927	115,623	45,359,926	127,619,231	726,390,744	700,530,491	25,860,253	1,066,727,215	340,336,471		
	1919	6,225	147,678	5,128	26,927	115,623	45,359,926	127,619,231	883,080,777	860,607,299	22,492,478	1,218,129,735	335,039,958		
Iowa	1929	3,317	99,311	1,897	15,756	81,678	34,916,521	102,326,738	574,393,729	556,592,882	17,800,847	888,213,272	323,819,543		
	1927	3,061	105,439	5,393	19,485	73,692	34,916,521	91,246,664	496,930,635	480,095,864	16,839,771	769,340,610	272,400,975		
	1919	5,683	105,439	5,393	19,485	80,551	34,916,521	90,117,169	520,240,807	506,034,871	14,205,936	745,472,697	225,231,890		
Missouri	1929	5,765	243,778	3,176	37,723	202,879	91,909,198	240,368,682	1,139,638,083	1,111,265,172	28,392,910	1,917,155,275	777,497,193		
	1927	5,422	244,939	7,676	42,226	195,037	79,044,650	250,017,241	1,094,707,373	1,029,812,810	26,844,564	1,665,173,438	660,464,000		
	1919	8,392	244,939	7,676	42,226	195,037	79,044,650	196,515,353	1,066,457,164	1,029,812,810	26,644,354	1,594,208,398	537,751,174		
North Dakota	1929	373	5,211	194	993	4,024	2,074,697	5,687,028	39,684,462	38,573,196	1,111,265	58,321,592	15,637,130		
	1927	307	6,148	774	902	3,260	1,434,037	4,808,122	34,271,002	33,203,479	987,523	47,003,022	12,792,020		
	1919	894	6,148	774	902	4,472	1,434,037	5,401,330	44,489,499	43,477,254	1,012,245	57,373,622	12,884,123		
South Dakota	1929	615	8,204	401	1,268	6,535	2,658,447	8,132,240	75,016,424	73,544,176	1,472,248	97,697,636	22,651,212		
	1927	472	9,034	1,410	1,242	6,382	2,076,199	7,905,426	63,619,877	62,252,264	1,367,613	83,901,185	19,381,262		
	1919	1,411	9,034	1,410	1,242	6,382	2,076,199	7,905,426	42,885,870	41,821,013	1,064,857	62,170,782	19,184,812		
Nebraska	1929	1,491	35,682	930	6,540	28,212	14,466,307	36,881,112	357,509,696	357,509,696	6,665,014	484,168,409	119,993,699		
	1927	1,277	49,076	2,916	9,639	26,110	14,466,307	34,296,241	326,917,400	319,900,229	6,927,261	420,206,100	93,378,700		
	1919	2,884	49,076	2,916	9,639	36,321	15,741,657	46,068,738	480,746,122	473,636,425	7,137,697	506,042,498	116,263,376		
Kansas	1929	1,016	58,619	1,278	9,968	47,373	21,861,196	63,348,326	546,246,575	534,104,695	12,141,970	751,613,194	205,365,619		
	1927	1,707	77,009	3,562	12,398	43,948	21,861,196	50,925,089	518,141,326	502,695,148	15,446,173	681,570,334	163,420,008		
	1919	3,474	77,009	3,562	12,398	61,049	21,795,653	73,060,019	750,087,987	734,546,932	15,341,059	913,667,094	163,579,107		

GENERAL SUMMARY

Year	1929	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900		
SOUTH ATLANTIC:	460	446	26,828	272	3,004	25,552	114,961	8,344,542	29,062,739	80,490,738	76,110,568	4,380,170	149,642,042	69,151,304	60,867,015	79,640,076	422,086,747	379,290,902	324,597,895	52,772,815	54,290,902	37,886,470	88,972,885	90,889,537	68,526,570	37,886,470	380,065,734	325,181,039	271,970,768		
Delaware.....	460	446	32,972	593	3,344	21,324	103,166	7,709,068	23,222,182	69,032,720	64,774,245	4,258,475	129,699,735	60,867,015	79,640,076																
Maryland.....	3,221	3,205	153,276	2,370	19,807	131,089	659,823	46,178,193	148,858,163	695,985,542	662,885,813	34,089,729	1,119,082,289	422,086,747	379,290,902																
District of Columbia.....	4,937	4,937	163,875	5,129	20,404	140,342	406,637	42,004,007	147,866,545	949,347,379	527,696,308	21,651,071	873,944,774																		
Virginia.....	547	503	14,328	326	4,260	9,752	44,916	9,986,418	15,512,711	36,200,070	33,095,733	3,104,337	88,972,885	52,772,815	54,290,902																
West Virginia.....	3,287	2,432	133,908	2,322	11,313	120,273	646,251	29,263,340	118,088,986	365,824,341	350,109,073	15,715,268	745,910,075	380,065,734	325,181,039																
North Carolina.....	5,093	5,093	139,178	5,900	13,926	119,352	419,738	25,908,084	120,065,452	371,540,833	352,059,572	19,481,261	643,511,621																		
South Carolina.....	1,488	1,488	94,359	794	8,239	85,326	650,199	20,996,351	115,294,705	261,897,785	232,984,404	28,413,332	292,984,404	380,065,734	325,181,039																
Georgia.....	2,785	2,785	93,088	2,524	8,128	83,036	328,455	17,686,073	101,840,420	270,940,696	260,192,627	20,747,969	471,970,877																		
Florida.....	3,797	2,984	228,959	2,594	16,999	209,926	839,945	37,942,407	160,867,988	618,911,690	596,046,728	22,864,902	1,311,924,352	693,012,602	593,827,376																
East South Central:	5,999	5,999	175,423	6,076	11,688	157,659	549,808	23,774,333	126,680,099	528,906,181	512,989,300	13,916,881	943,807,949																		
Kentucky.....	1,659	1,659	114,980	1,113	5,099	108,777	527,326	12,800,005	73,223,327	226,541,603	214,617,334	11,924,269	1,154,646,812	693,012,602	593,827,376																
Tennessee.....	1,060	1,060	88,360	1,764	5,156	79,450	399,466	10,513,029	62,565,413	227,890,884	226,416,614	7,669,770	385,892,252	159,850,649	151,460,600																
Alabama.....	4,170	4,170	175,081	3,347	12,960	158,774	641,899	30,288,500	108,435,015	427,805,688	412,632,696	15,172,993	722,453,803	294,648,715	249,653,976																
West South Central:	4,803	4,803	141,012	4,776	12,795	124,441	438,719	25,595,423	101,180,339	460,490,057	428,451,511	13,086,170	693,237,096	252,747,639	252,747,639																
Texas.....	2,212	2,212	74,777	1,432	6,477	64,808	192,695	14,068,356	64,582,198	96,898,240	92,102,202	4,795,038	232,366,227	135,488,187	127,074,628																
Louisiana.....	1,012	1,012	82,986	2,616	5,955	74,415	139,091	10,835,346	67,433,229	92,680,224	88,448,851	4,231,373	218,790,162	120,046,955	120,046,955																
Arkansas.....	2,246	2,246	89,958	1,375	10,738	77,825	354,740	24,979,014	88,643,659	266,558,766	288,483,621	18,126,145	502,638,722	236,079,956	197,132,004																
Mississippi.....	1,851	1,851	88,954	4,003	10,611	69,340	246,399	19,677,651	67,083,546	235,715,626	224,483,689	11,229,937	395,660,417	159,944,791	159,944,791																
Oklahoma.....	2,855	2,855	143,915	1,895	13,020	128,400	606,704	33,203,137	115,877,077	407,610,550	390,520,881	17,089,719	730,508,612	322,898,062	262,604,199																
New Mexico.....	2,068	2,068	113,300	4,892	13,241	96,167	475,243	25,297,959	81,355,256	344,766,730	330,552,028	14,214,702	556,253,102	211,486,432	211,486,432																
Texas.....	4,589	4,589	182,200	2,169	10,475	119,559	785,330	24,385,366	102,004,881	302,253,388	280,833,732	41,399,656	560,378,132	258,124,744	232,878,719																
Louisiana.....	2,355	2,355	120,880	3,914	9,816	107,189	428,287	18,567,405	105,488,817	317,498,407	275,246,282	42,147,124	550,372,125	232,878,719	232,878,719																
Mississippi.....	1,911	1,911	57,807	1,539	4,182	52,086	262,580	9,219,836	42,207,557	113,692,297	109,633,357	3,868,040	228,917,692	107,325,395	91,081,249																
Arkansas.....	2,455	2,455	64,492	2,371	4,081	57,560	200,772	7,926,819	51,255,716	105,659,693	93,682,626	2,995,245	197,746,937	101,069,116	101,069,116																
Louisiana.....	1,731	1,731	50,118	1,371	4,542	44,205	228,034	9,942,946	39,503,121	116,648,475	112,303,093	4,345,382	210,903,228	94,254,753	78,936,691																
Oklahoma.....	3,123	3,123	88,202	3,682	4,566	49,954	212,219	9,329,043	47,186,189	102,812,977	99,881,410	2,031,567	200,312,868	97,499,881	97,499,881																
Texas.....	1,989	1,989	98,475	924	10,206	87,345	430,404	24,092,926	88,807,448	438,540,094	425,644,573	12,895,621	685,036,857	246,496,763	210,866,874																
Louisiana.....	2,617	2,617	112,523	2,042	12,216	96,265	387,233	22,946,287	94,405,732	431,403,867	421,147,141	10,256,726	676,189,770	244,785,903	244,785,903																
Oklahoma.....	1,658	1,658	39,032	994	6,943	31,695	185,480	16,326,552	41,276,983	306,501,427	297,452,619	9,048,878	455,905,297	149,403,980	149,403,980																
Texas.....	2,445	2,445	88,314	2,320	6,481	29,508	139,650	11,961,191	85,025,942	312,603,829	301,539,816	11,065,013	401,362,869	88,757,040	88,757,040																
Louisiana.....	5,198	5,198	169,210	3,067	21,645	184,498	822,860	49,904,900	151,892,688	689,839,688	982,760,112	27,189,516	1,450,246,461	460,306,676	363,652,833																
Texas.....	4,065	4,065	116,768	655,455	17,995	116,768	655,455	31,503,978	130,408,661	842,927,286	797,157,948	27,189,516	1,203,573,931	363,652,833	298,824,898																
Louisiana.....	5,724	5,724	130,911	5,393	17,995	107,522	440,894	31,503,978	116,403,809	701,170,998	678,278,642	22,892,256	1,000,000,000	460,306,676	363,652,833																

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—GENERAL STATISTICS FOR ALL INDUSTRIES, BY GEOGRAPHIC DIVISIONS AND BY STATES: 1929, 1927, AND 1919—Continued

DIVISION AND STATE	Cen- sus year	Number of estab- lish- ments	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES ¹				Horse- power	Salaries ¹	Wages	Total	Materials and containers	Fuel and purchased energy	Value of products	Value added by manufac- ture ²
			Total ¹	Proprie- tors and firm mem- bers ¹	Salari- ed officers and employ- ees ¹	Wage earners (average for the year)								
MOUNTAIN: Montana.....	1929	580	17,465	330	2,266	14,869	\$5,254,612	\$24,214,895	\$209,845,438	\$202,615,534	\$7,229,904	\$271,094,446	\$81,249,008	
	1927	565	20,692	1,200	2,332	14,242	4,741,455	20,945,203	151,791,508	144,794,553	6,996,955	203,503,250	51,711,742	
	1919	1,290	17,358	335	1,375	15,648	3,086,272	24,742,562	123,151,924	117,594,952	4,556,972	166,694,518	44,512,594	
Idaho.....	1929	562	17,358	335	1,375	15,648	2,701,547	22,451,545	51,853,505	50,225,704	1,627,801	96,352,026	44,488,521	
	1927	470	16,268	851	1,500	13,513	2,188,979	18,970,643	47,927,463	46,875,197	1,052,266	86,256,399	38,328,936	
	1919	922	7,281	127	896	6,258	1,702,238	18,548,272	43,948,505	42,345,546	1,602,959	80,510,749	33,562,244	
Wyoming.....	1929	248	8,085	567	894	5,577	1,580,172	10,255,365	62,720,084	60,083,573	2,656,511	96,345,076	33,627,992	
	1927	229	8,085	567	894	5,577	1,702,238	9,086,022	63,741,294	60,846,173	2,895,061	85,388,360	21,627,126	
	1919	576	39,980	867	6,223	32,890	13,580,172	11,188,979	42,250,528	40,510,297	1,740,231	81,445,394	38,194,866	
Colorado.....	1929	1,548	44,729	2,294	7,241	35,254	13,045,975	43,640,403	183,739,553	170,113,113	13,626,440	306,071,081	122,331,478	
	1927	1,483	5,234	164	594	4,476	1,266,139	43,193,765	173,277,399	155,046,505	18,230,891	278,231,431	104,944,032	
	1919	2,631	6,646	336	574	32,000	1,027,341	42,974,879	174,870,275	160,204,060	14,666,215	275,622,335	100,752,060	
New Mexico.....	1929	250	12,400	191	1,659	10,550	4,288,292	15,074,528	157,713,595	159,518,783	8,194,812	200,002,217	32,298,522	
	1927	200	10,347	416	1,403	8,528	4,288,292	12,132,957	77,798,198	71,850,888	5,938,310	117,624,434	39,826,295	
	1919	387	18,833	323	2,909	15,601	3,111,838	12,014,769	92,645,437	84,273,872	8,371,565	120,769,112	28,123,676	
Arizona.....	1929	348	23,107	1,089	3,150	18,388	5,680,485	19,698,684	157,902,021	150,715,551	7,186,470	214,628,855	56,726,834	
	1927	556	18,833	323	2,909	15,601	6,407,917	16,688,574	120,597,348	113,537,697	6,976,651	163,118,376	42,551,023	
	1919	480	23,107	1,089	3,150	18,388	5,680,485	21,454,967	110,154,349	103,106,899	7,047,950	156,933,071	46,778,722	
Utah.....	1929	651	2,634	70	364	2,200	813,640	3,585,425	25,651,871	24,900,633	751,238	33,717,089	8,065,188	
	1927	116	3,563	136	308	2,419	587,665	3,915,155	14,440,437	13,330,999	1,109,438	26,815,907	12,375,470	
	1919	166	130,873	2,138	13,910	114,830	35,904,583	4,318,022	16,490,617	14,997,907	1,492,710	22,874,311	6,383,694	
Nevada.....	1929	3,672	130,873	2,138	13,910	114,830	35,904,583	100,670,891	428,413,026	415,134,051	13,278,976	705,561,961	367,148,835	
	1927	3,344	150,479	4,195	13,336	104,468	30,373,766	145,930,950	339,884,596	378,852,862	11,301,736	677,913,579	283,028,981	
	1919	4,918	75,567	1,702	8,300	65,505	19,412,571	194,968,222	443,177,531	431,896,276	11,281,255	809,622,964	366,445,453	
PACIFIC: Washington.....	1929	2,463	68,005	2,540	6,906	58,559	13,999,171	86,828,988	205,227,190	198,542,375	6,684,815	411,768,975	206,541,785	
	1927	1,779	362,028	9,089	62,018	57,179	13,948,164	78,716,972	187,771,163	182,134,441	5,636,722	342,832,371	156,081,208	
	1919	2,707	296,868	12,462	40,774	262,816	73,420,269	31,063,784	266,206,041	201,354,721	4,851,320	366,782,627	160,376,366	
Oregon.....	1929	12,018	362,028	9,089	62,018	230,911	134,048,164	423,089,248	1,754,135,339	1,709,776,845	44,381,496	3,108,349,668	1,349,191,229	
	1927	10,066	296,868	12,462	40,774	262,816	73,420,269	378,321,461	1,504,638,033	1,497,700,137	49,954,896	2,584,747,224	1,069,027,111	
	1919	11,942	296,868	12,462	40,774	262,816	73,420,269	306,207,389	1,218,838,318	1,181,132,228	37,726,080	1,981,264,701	762,346,183	
California.....	1929	12,018	362,028	9,089	62,018	230,911	134,048,164	423,089,248	1,754,135,339	1,709,776,845	44,381,496	3,108,349,668	1,349,191,229	
	1927	10,066	296,868	12,462	40,774	262,816	73,420,269	378,321,461	1,504,638,033	1,497,700,137	49,954,896	2,584,747,224	1,069,027,111	
	1919	11,942	296,868	12,462	40,774	262,816	73,420,269	306,207,389	1,218,838,318	1,181,132,228	37,726,080	1,981,264,701	762,346,183	

¹ Data for employees of central-administrative offices are included in the totals and in the numbers of salaried employees for 1919 for the United States and for each State, but are not included for 1927 or for 1929. The total number of such employees, as reported for 1923, was 288,368, and their compensation amounted to \$600,487,331. The corresponding data for 1919 cannot be segregated, and no such data were collected for 1927. The numbers of proprietors and firm members and the amounts of salaries were not tabulated for States at the census for 1927.

² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

GENERAL SUMMARY

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919

(Data for establishments with products valued at \$500 or more but less than \$5,000 are included in the 1919 figures for individual industries but not in the United States totals. No data for such establishments are included in any of the figures for 1927 or 1929)

INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Horse- power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ³	Value added by manu- facture ⁴
			Total	Pro- prietors and firm members	Salaried officers and employees ¹	Wago earners (average for the year)						
All industries, total.....	1929	210,959	10,330,728	133,210	1,353,775	6,838,743	42,931,061	3,595,064,061	11,620,973,254	38,549,679,732	70,434,868,443	31,885,283,711
	1927	191,806	9,783,438	132,681	1,301,002	6,349,755	38,825,681	3,220,624,618	10,848,802,532	36,133,136,889	62,718,347,289	27,585,210,400
	1919	214,383	10,083,849	250,871	1,438,219	6,000,059	20,327,669	2,880,868,375	10,401,793,809	37,232,702,300	62,041,795,316	24,809,002,926
Agricultural implements.....	1929	293	47,023	107	5,853	41,063	128,499	13,300,184	58,041,930	113,069,484	277,854,402	163,884,978
	1927	277	38,061	91	5,224	33,346	117,966	11,217,674	46,616,180	85,666,186	202,732,120	117,065,940
	1919	521	67,177	321	12,488	54,368	128,240	21,025,743	60,704,434	144,571,943	304,061,265	160,389,322
Aircraft and parts.....	1929	132	18,635	15	3,910	14,710	16,505	0,524,258	21,923,844	27,398,103	71,152,924	43,784,821
	1927	70	5,499	13	1,064	4,422	6,081	2,293,054	6,857,014	7,517,183	21,161,853	13,044,070
	1919	31	4,202	14	645	3,543	12,612	2,000,090	4,006,740	7,126,965	14,372,643	7,245,678
Alcohol, ethyl, and distilled liquors.....	1929	30	1,853	1	368	1,484	13,577	1,105,111	2,131,188	35,046,063	54,284,065	19,238,602
	1927	28	1,479	3	290	1,180	7,201	866,813	1,704,618	18,309,772	33,971,150	14,001,378
	1919	34	1,741	2	359	1,380	16,494	1,137,784	1,716,699	19,655,522	31,854,035	12,198,563
Aluminum manufactures.....	1929	160	23,788	61	2,517	21,210	107,846	5,749,124	20,892,727	94,036,463	153,457,248	60,420,785
	1927	139	16,945	54	2,093	14,798	71,907	4,831,843	20,681,843	79,838,609	123,567,112	43,718,003
	1919	83	13,257	34	1,821	11,402	30,280	3,306,674	13,327,806	49,271,861	75,277,948	26,006,087
Ammunition and related products.....	1929	21	7,065	3	730	7,223	17,061	1,785,523	8,272,618	19,841,065	43,808,520	23,900,355
	1927	20	8,475	1	873	7,602	17,175	2,603,673	10,945,130	25,456,163	45,002,184	24,057,054
	1919	42	27,471	10	4,645	22,816	39,128	7,607,161	23,537,092	38,101,002	88,038,223	49,936,021
Artificial and preserved flowers and plants.....	1929	191	3,770	128	435	3,210	625	1,257,610	3,217,642	5,527,451	14,425,420	8,897,069
	1927	190	5,494	186	593	4,715	541	1,459,958	3,050,438	7,888,833	19,570,337	11,087,504
	1919	224	4,370	234	504	4,138	468	851,790	3,740,911	7,004,646	16,143,165	9,138,519
Artificial leather.....	1929	17	3,160	1	570	2,590	14,056	1,643,071	3,955,702	22,267,038	32,061,252	10,693,314
	1927	10	3,282	1	562	2,730	14,487	1,625,700	4,060,613	21,827,645	34,228,101	12,400,456
	1919	17	2,351	1	339	2,011	4,852	322,335	2,163,171	18,132,204	26,281,960	8,149,762
Artists' materials.....	1929	68	1,510	36	307	1,107	3,397	921,156	1,426,728	4,156,317	9,450,565	5,304,248
	1927	61	1,578	37	330	1,211	3,250	796,477	1,429,933	3,771,563	8,204,521	4,433,018
	1919	58	1,205	40	239	926	3,206	678,930	895,764	2,687,226	5,507,056	2,820,430
Asbestos products, other than steam packing and pipe and boiler covering.....	1929	67	9,237	9	1,136	8,092	40,458	3,119,663	10,776,712	25,408,002	50,164,036	30,766,034
	1927	62	7,103	9	757	6,337	26,525	2,681,209	8,375,602	21,617,740	44,550,388	22,638,648
	1919	46	4,195	11	530	3,654	9,657	1,699,733	3,731,974	12,947,702	23,977,557	11,020,855
Asphalted-felt-base floor covering.....	1929	14	2,754	1	408	2,345	11,092	1,124,057	3,501,238	14,278,806	31,888,002	17,010,157
	1927	12	2,834	1	391	2,442	8,094	814,920	3,694,808	16,180,459	34,100,535	17,014,126
Awnings, tents, sails, and canvas covers.....	1929	1,002	9,989	813	2,014	7,462	4,995	4,719,334	8,559,321	25,328,140	40,237,576	23,909,436
	1927	933	9,328	920	1,863	6,543	4,850	4,103,367	8,229,362	24,409,718	47,029,352	23,519,634
	1919	895	8,413	871	1,514	6,028	4,871	3,002,147	5,868,523	20,061,140	45,690,360	18,729,250
Bags, other than paper, not made in textile mills.....	1929	202	13,578	103	1,647	11,928	19,159	4,734,471	9,044,876	144,275,477	170,175,893	25,900,416
	1927	181	12,863	94	1,545	11,164	16,754	4,189,781	7,548,317	130,748,406	162,949,837	20,201,431
	1919	216	12,042	166	1,720	10,750	9,076	4,093,062	9,666,582	170,017,560	214,059,474	38,041,012
Bags, paper, exclusive of those made in paper mills.....	1929	95	7,861	18	873	6,970	13,416	2,347,743	6,061,235	43,238,392	64,621,192	21,382,800
	1927	89	7,323	27	833	6,463	9,336	2,112,610	6,393,075	40,734,599	57,486,020	16,755,053
	1919	75	5,087	41	878	4,168	4,420	2,176,360	3,662,830	33,350,481	47,203,990	13,913,509
Baking powders, yeast, and other leavening compounds.....	1929	48	3,867	8	653	3,006	42,788	2,400,835	4,846,730	22,698,378	52,336,812	29,738,434
	1927	47	4,039	15	902	3,032	42,316	2,670,790	4,793,624	24,619,450	55,716,025	31,065,575
	1919	83	4,893	52	1,510	3,331	20,071	2,807,416	3,554,534	26,035,429	46,230,312	19,594,883
Baskets and rattan and willow ware, not including furniture.....	1929	273	10,155	172	630	9,353	20,180	1,448,216	6,671,089	8,320,160	22,851,043	14,030,877
	1927	236	10,081	153	623	9,295	17,821	1,436,750	6,807,806	9,231,144	21,728,900	12,407,750
	1919	375	5,370	400	437	4,533	6,319	803,946	3,309,086	4,904,241	11,821,167	6,916,926
Belting other than leather and rubber, not made in textile mills.....	1929	9	383	6	122	256	1,048	495,346	298,910	1,328,090	2,788,627	1,480,537
	1927	11	504	6	156	343	1,457	531,398	410,698	1,489,841	3,211,875	1,722,034
Belting, leather.....	1929	207	3,511	94	815	2,602	6,326	2,358,594	3,549,721	20,679,778	35,631,682	14,951,904
	1927	173	3,022	97	761	2,164	6,728	2,018,941	2,925,416	16,185,267	27,265,752	11,080,485
	1919	172	4,019	91	1,163	2,765	7,012	2,695,779	3,200,439	28,156,711	40,480,654	12,323,943
Beverages.....	1929	5,154	40,606	4,534	7,791	28,281	149,166	19,581,666	38,314,414	103,026,180	270,323,893	167,297,023
	1927	4,789	38,878	4,769	7,147	26,072	153,731	17,158,450	36,100,934	95,430,198	242,490,456	147,204,258
Billiard and pool tables, bowling alleys, and accessories.....	1929	40	1,625	26	209	1,390	6,402	428,489	1,802,917	3,238,396	8,821,363	5,582,967
	1927	34	1,409	21	204	1,184	2,335	415,853	1,549,890	2,393,993	7,111,871	4,717,878
	1919	49	2,327	43	183	2,101	5,261	271,408	2,425,363	6,100,852	16,783,047	9,632,196
Blacking, stains, and dressings.....	1929	170	2,466	83	768	1,617	3,317	2,025,338	1,959,443	8,345,234	24,681,836	16,389,602
	1927	176	2,677	107	754	1,716	4,005	1,771,845	2,180,733	9,185,543	22,548,235	13,362,692
	1919	220	3,765	179	1,131	2,455	2,446	2,619,283	2,109,103	14,041,840	25,284,072	11,242,232
Bluing.....	1929	20	151	13	33	165	169	100,136	106,917	468,867	1,304,510	895,643
	1927	20	210	9	46	155	363	113,768	151,364	598,725	1,674,140	1,080,415
	1919	57	515	45	110	360	423	163,492	285,063	1,542,954	2,731,277	1,188,323
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	1929	117	18,226	17	2,034	16,175	66,343	6,949,294	22,115,532	44,211,785	102,392,099	58,180,314
	1927	115	15,672	27	1,931	13,614	57,403	6,636,016	17,324,415	38,301,814	75,876,170	37,674,856
	1919	144	20,066	39	2,000	17,967	49,950	5,306,419	20,973,834	44,277,117	89,743,882	45,466,765
Bone black, carbon black, and lamp-black.....	1929	77	2,140	3	232	1,915	11,268	690,444	2,593,253	9,096,098	20,199,722	11,073,624
	1927	67	1,798	2	243	1,553	8,065	508,472	2,047,044	6,571,019	14,261,775	7,690,756
	1919	35	826	30	121	676	1,857	312,386	808,332	2,848,059	6,136,204	3,338,145

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Cen- sus year	Number of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY			Horse- power	Salaries 1	Wages	Cost of materials, containers for products, fuel, and purchased electric energy 2	Value of products 2	Value added by manu- facture 3	
			Total	Pro- prietors and firm mem- bers	Salaried officers and em- ployees 1							Wage earners (average for the year)
Bookbinding and blank-book making.	1929	1, 108	29, 495	676	4, 065	24, 754	21, 741	Dollars 10, 854, 665	31, 779, 037	30, 754, 777	102, 783, 405	Dollars 72, 028, 628
	1927	1, 068	26, 477	927	3, 641	21, 909	19, 038	8, 832, 184	28, 281, 066	25, 875, 185	87, 327, 392	61, 452, 207
	1919	1, 113	25, 297	1, 111	3, 515	20, 361	11, 037	7, 453, 912	18, 658, 821	23, 235, 171	86, 020, 677	42, 785, 506
Boot and shoe cut stock, not made in boot and shoe factories.	1929	210	10, 639	160	980	9, 409	15, 822	2, 293, 324	10, 319, 996	107, 545, 777	133, 447, 914	25, 902, 137
	1927	201	9, 938	192	1, 185	8, 611	13, 718	2, 391, 255	9, 354, 049	97, 966, 431	121, 022, 421	23, 055, 990
	1919	252	11, 512	234	1, 503	9, 715	8, 448	3, 328, 226	9, 124, 778	133, 887, 276	161, 203, 310	27, 316, 034
Boot and shoe findings, not made in boot and shoe factories.	1929	382	12, 037	225	1, 435	10, 370	20, 250	3, 966, 441	11, 058, 252	31, 964, 401	58, 625, 445	26, 661, 044
	1927	370	11, 730	255	1, 534	9, 950	18, 021	3, 304, 138	11, 201, 872	31, 862, 332	57, 433, 389	25, 571, 067
	1919	427	10, 615	424	1, 250	8, 941	9, 070	2, 618, 593	8, 187, 190	40, 428, 347	62, 825, 408	22, 307, 061
Boots and shoes, other than rubber.	1929	1, 341	225, 701	466	19, 595	205, 640	140, 329	44, 284, 882	222, 407, 732	515, 055, 246	965, 922, 694	450, 867, 448
	1927	1, 357	224, 004	568	20, 326	203, 110	138, 706	43, 343, 517	225, 090, 242	494, 563, 016	944, 714, 463	450, 161, 447
	1919	1, 440	237, 107	893	25, 175	211, 049	116, 886	58, 124, 966	210, 784, 610	515, 055, 246	1, 155, 041, 436	439, 772, 121
Boots and shoes, rubber.	1929	22	20, 278	1	3, 010	25, 659	62, 603	7, 745, 144	29, 945, 265	34, 396, 466	102, 537, 625	68, 141, 159
	1927	22	20, 267	1	3, 419	26, 848	68, 359	5, 180, 753	32, 078, 056	43, 372, 916	124, 607, 801	81, 234, 885
	1919	25	37, 929	1	5, 053	32, 875	49, 400	7, 401, 383	30, 882, 722	50, 346, 880	116, 917, 434	66, 570, 554
Boxes, cigar, wooden.	1929	118	4, 740	98	268	4, 374	5, 518	814, 228	3, 507, 711	5, 238, 209	12, 459, 425	7, 221, 216
	1927	136	5, 014	105	332	4, 577	6, 478	794, 052	3, 925, 329	5, 620, 725	12, 908, 739	7, 288, 014
	1919	189	6, 761	187	356	5, 218	5, 009	797, 525	3, 512, 236	6, 336, 540	13, 110, 213	6, 773, 673
Boxes, paper, not elsewhere classified.	1929	1, 249	63, 894	440	7, 800	55, 654	80, 064	22, 314, 874	57, 109, 700	150, 839, 577	204, 253, 296	134, 413, 719
	1927	1, 210	64, 649	512	7, 739	56, 398	81, 900	20, 738, 937	57, 700, 664	168, 463, 769	306, 555, 062	138, 091, 263
	1919	1, 201	63, 408	767	6, 779	55, 802	54, 675	15, 572, 451	43, 325, 554	206, 419, 343	206, 419, 343	103, 001, 263
Boxes, wooden, except cigar boxes.	1929	792	33, 581	498	2, 589	30, 554	187, 261	7, 261, 078	29, 193, 576	74, 081, 937	135, 025, 675	60, 943, 738
	1927	743	33, 662	383	2, 482	30, 707	136, 637	6, 684, 243	29, 250, 351	75, 797, 392	133, 992, 877	58, 196, 485
	1919	1, 140	46, 897	849	3, 603	42, 445	148, 583	8, 664, 633	36, 811, 186	102, 946, 255	177, 818, 454	73, 872, 219
Bread and other bakery products.	1929	20, 785	244, 070	21, 588	21, 641	200, 841	355, 523	49, 884, 765	274, 561, 581	737, 090, 500	1, 520, 110, 811	789, 011, 311
	1927	18, 129	211, 113	19, 481	19, 637	171, 995	284, 244	46, 739, 672	236, 225, 862	693, 236, 163	1, 394, 700, 224	701, 464, 061
	1919	25, 095	200, 642	27, 908	31, 142	141, 592	165, 711	48, 819, 926	168, 237, 059	515, 239, 411	1, 151, 896, 318	438, 656, 907
Brooms.	1929	407	5, 405	380	474	4, 542	4, 672	1, 097, 040	4, 169, 087	9, 647, 688	19, 166, 363	9, 518, 665
	1927	394	5, 388	388	550	4, 450	4, 401	1, 187, 459	4, 274, 688	9, 175, 710	18, 444, 912	9, 269, 202
	1919	1, 034	8, 536	1, 162	1, 061	6, 313	6, 087	1, 940, 126	5, 708, 886	17, 365, 109	30, 205, 207	12, 840, 158
Brushes, other than rubber.	1929	303	8, 947	188	1, 498	7, 261	11, 915	4, 240, 287	7, 962, 538	21, 088, 253	45, 549, 270	23, 861, 017
	1927	302	9, 450	202	1, 584	7, 073	12, 098	3, 752, 209	8, 244, 032	22, 553, 063	47, 844, 124	25, 291, 066
	1919	379	9, 941	330	1, 643	7, 908	7, 307	3, 648, 594	7, 113, 201	19, 698, 183	39, 005, 607	19, 407, 474
Butter.	1929	3, 527	27, 934	1, 307	7, 530	19, 097	164, 413	12, 489, 080	24, 197, 840	635, 873, 586	746, 417, 620	110, 544, 034
	1927	3, 519	28, 043	1, 279	7, 573	20, 006	145, 973	11, 897, 609	25, 632, 586	637, 396, 685	739, 010, 876	101, 674, 191
	1919	3, 738	26, 339	2, 006	6, 692	17, 041	94, 962	9, 522, 039	18, 852, 729	514, 846, 739	583, 163, 011	68, 617, 272
Buttons.	1929	242	10, 055	127	894	9, 094	14, 615	2, 442, 244	8, 813, 927	11, 501, 401	28, 977, 919	17, 476, 518
	1927	220	10, 662	131	839	9, 642	15, 869	2, 174, 699	9, 436, 821	11, 237, 579	29, 130, 168	17, 892, 589
	1919	557	17, 758	575	1, 606	16, 677	15, 708	3, 349, 328	13, 772, 699	16, 746, 357	41, 840, 459	26, 096, 102
Candles.	1929	20	941	4	156	781	1, 971	501, 787	923, 039	3, 250, 627	6, 686, 194	3, 435, 567
	1927	17	932	11	212	709	996	642, 518	761, 464	2, 958, 987	6, 350, 931	3, 391, 944
	1919	19	666	13	112	541	597	287, 832	487, 681	2, 178, 528	3, 350, 806	1, 172, 278
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.	1929	348	14, 898	128	1, 158	13, 612	21, 092	2, 806, 704	8, 799, 058	53, 239, 911	80, 848, 513	27, 608, 602
	1927	337	13, 999	155	1, 194	12, 650	18, 574	2, 499, 283	8, 105, 681	42, 891, 556	65, 082, 127	22, 190, 631
	1919	475	14, 136	326	1, 373	12, 437	25, 830	3, 051, 623	9, 505, 019	53, 993, 789	80, 260, 423	26, 266, 634
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.	1929	2, 997	110, 551	1, 755	9, 930	98, 596	224, 097	22, 133, 979	74, 978, 590	462, 062, 128	750, 342, 041	289, 279, 913
	1927	2, 436	91, 518	1, 614	8, 980	80, 924	189, 831	19, 237, 459	62, 309, 660	355, 185, 602	572, 345, 802	127, 160, 260
	1919	3, 805	94, 125	3, 833	12, 806	77, 486	154, 031	21, 717, 036	56, 399, 004	358, 066, 968	548, 027, 502	189, 361, 544
Car and general construction and re- pairs, electric-railroad repair shops.	1929	446	31, 932	2, 507	20, 475	70, 424	70, 424	5, 423, 674	47, 108, 710	32, 781, 113	85, 481, 577	52, 700, 464
	1927	515	34, 137	2, 553	31, 584	73, 357	83, 357	5, 249, 032	48, 391, 897	30, 421, 470	84, 504, 448	54, 082, 969
	1919	624	33, 120	1	1, 847	31, 272	59, 805	2, 979, 367	39, 073, 154	32, 026, 484	75, 210, 701	43, 186, 217
Car and general construction and re- pairs, steam-railroad repair shops.	1929	1, 851	398, 655	29, 974	368, 681	1, 076, 728	1, 076, 728	76, 171, 019	590, 202, 724	515, 532, 462	1, 184, 435, 262	668, 872, 810
	1927	1, 794	432, 147	35, 059	397, 088	1, 037, 464	1, 037, 464	85, 366, 132	600, 510, 555	515, 070, 275	1, 205, 190, 710	690, 120, 435
	1919	1, 744	616, 279	2	31, 840	484, 437	591, 070	66, 948, 100	687, 617, 812	515, 803, 210	1, 279, 235, 393	763, 432, 183
Carbon paper and inked ribbons.	1929	87	1, 781	21	509	1, 251	3, 642	1, 530, 423	1, 702, 358	7, 990, 763	17, 295, 140	9, 304, 387
	1927	49	1, 519	20	421	1, 078	3, 287	1, 113, 835	1, 514, 230	6, 019, 768	13, 793, 128	7, 773, 370
Cardboard, not made in paper mills.	1929	13	820	1	210	609	1, 549	863, 208	810, 178	2, 065, 258	5, 629, 498	2, 964, 240
	1927	9	897	1	238	653	1, 779	788, 260	848, 807	2, 868, 066	5, 581, 164	2, 713, 108
	1919	16	1, 714	2	287	1, 426	3, 251	743, 723	1, 337, 177	4, 053, 916	9, 138, 415	4, 184, 500
Card cutting and designing.	1929	70	2, 853	45	470	2, 338	3, 909	1, 333, 196	2, 725, 047	9, 285, 651	19, 648, 179	10, 362, 248
	1927	60	2, 605	31	450	2, 024	3, 915	1, 227, 691	2, 705, 833	7, 544, 043	16, 871, 312	9, 327, 269
	1919	75	1, 397	69	180	1, 143	743	442, 902	958, 877	2, 288, 859	5, 323, 349	3, 024, 960
Carpets and rugs, rag.	1929	94	1, 866	83	254	1, 529	2, 416	480, 079	1, 562, 372	1, 658, 937	5, 510, 768	3, 851, 831
	1927	110	2, 006	92	281	1, 633	2, 005	611, 189	1, 677, 572	1, 636, 371	5, 890, 265	4, 253, 894
	1919	339	2, 716	391	309	2, 016	2, 659	383, 870	1, 550, 501	2, 037, 874	5, 597, 667	3, 559, 183
Carpets and rugs, wool, other than rag.	1929	67	35, 051	10	2, 418	32, 623	65, 205	7, 359, 683	40, 014, 207	80, 650, 892	1	

GENERAL SUMMARY

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Cen- sus year	Number of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Horse- power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ³	Value added by manu- facture ⁴			
			Total	Pro- priators and firm members	Salari- ed officers and em- ployees ¹	Wage earners (aver- age for the year)									
Carriages and sleds, children's.....	1929	79	7,909	15	792	7,102	10,885	Dollars	8,313,356	Dollars	13,514,787	Dollars	28,817,860	Dollars	15,303,073
	1927	89	7,812	24	758	7,030	10,309	1,960,574	8,313,356	13,514,787	28,817,860	15,303,073			
	1919	103	7,513	65	762	6,686	6,071	1,757,595	7,813,648	13,895,086	28,668,145	14,773,059			
Carriages, wagons, sleighs, and sleds....	1929	88	3,465	22	570	2,873	14,899	Dollars	3,417,903	Dollars	8,458,294	Dollars	16,449,879	Dollars	7,991,585
	1927	117	4,074	48	639	3,387	18,207	1,417,687	3,417,903	8,458,294	16,449,879	7,991,585			
	1919	117	4,074	48	639	3,387	18,207	1,502,142	4,211,610	10,648,271	19,422,235	8,773,964			
Cars, electric and steam railroad, not built in railroad repair shops.	1929	147	40,116	3	0,098	40,015	238,455	13,365,728	08,387,382	223,889,897	328,220,204	104,830,807			
	1927	135	44,275	3	0,244	38,031	236,415	13,851,043	00,624,856	200,112,561	312,508,598	103,890,637			
	1919	106	62,008	3	0,847	55,218	167,180	14,698,243	82,416,737	368,143,487	550,604,807	188,621,320			
Cash registers and adding, calculating, and card-tabulating machines.	1929	46	20,188	9	3,339	16,840	28,257	9,280,453	29,745,865	10,760,013	110,000,986	90,234,973			
	1927	41	17,702	6	3,415	14,372	21,954	8,712,951	21,756,094	11,132,191	106,844,959	95,712,778			
	1919	65	18,958	26	2,388	10,544	14,645	3,982,670	22,537,266	10,889,998	83,539,025	72,649,027			
Caskets, coffins, burial cases, and other morticians' goods.	1929	414	15,390	154	2,173	13,033	39,609	6,475,756	16,411,027	36,350,294	89,281,872	48,931,578			
	1927	340	18,830	130	2,044	11,665	31,105	6,640,433	14,420,598	33,327,469	74,850,850	41,503,381			
	1919	351	14,546	226	2,431	11,890	22,190	5,831,208	11,450,957	31,595,287	64,377,133	32,781,846			
Cast-iron pipe.....	1929	72	21,086	9	1,286	19,741	69,757	3,750,877	22,551,778	34,289,365	80,299,550	45,071,185			
	1927	82	24,183	5	1,280	22,902	63,196	3,427,122	25,982,196	48,224,970	96,088,622	46,088,622			
	1919	59	13,777	4	1,148	12,626	28,741	2,431,212	14,705,398	26,386,562	60,235,101	24,848,549			
Cement.....	1929	174	38,750	4	5,384	33,368	1,183,989	13,985,102	48,849,096	95,242,497	267,509,260	172,206,793			
	1927	161	42,884	6	6,556	30,322	1,069,390	16,331,680	53,110,745	120,012,025	293,565,293	173,553,265			
	1919	123	30,247	9	4,714	25,524	488,808	9,495,801	33,194,920	70,509,800	175,264,910	95,755,110			
Cereal preparations.....	1929	121	8,204	6	1,670	6,488	66,291	3,355,063	8,875,622	161,471,521	175,223,128	73,751,695			
	1927	77	7,245	35	1,182	6,028	50,979	2,615,105	8,417,246	91,748,332	155,563,283	63,814,964			
	1919	105	10,919	45	3,240	7,634	46,992	5,748,813	8,508,879	117,838,248	159,223,466	41,335,217			
Cheese.....	1929	2,758	5,786	1,524	5,786	3,401	24,739	859,419	4,588,007	92,727,217	110,644,732	17,917,515			
	1927	2,738	5,596	1,241	855	3,520	20,076	768,903	4,897,205	100,787,583	118,447,757	17,900,174			
	1919	3,530	6,993	2,400	596	3,997	24,411	1,050,043	4,808,991	129,425,265	143,456,704	14,030,439			
Chemicals, not elsewhere classified.....	1929	551	75,558	41	13,318	62,199	854,358	35,924,786	94,680,013	303,576,811	738,048,386	374,471,575			
	1927	492	62,694	53	10,294	52,347	570,285	28,182,303	78,274,975	290,677,164	672,060,732	275,413,598			
	1919	836	95,272	154	18,200	76,918	480,435	39,038,561	106,002,261	301,519,132	614,278,849	312,759,607			
Chewing gum.....	1929	37	2,850	7	587	2,265	10,350	1,462,151	2,782,946	23,231,172	60,160,126	36,928,956			
	1927	40	3,299	12	733	2,524	10,097	1,680,285	2,727,236	27,107,504	62,001,320	34,833,814			
	1919	62	4,056	23	843	3,190	6,172	1,847,689	2,679,803	25,202,312	51,240,156	20,037,844			
China firing and decorating, not done in potteries.	1929	27	407	22	68	317	53	145,673	420,303	640,361	1,554,093	613,642			
	1927	31	464	28	72	360	43	147,850	428,232	681,093	1,692,079	1,010,420			
	1919	43	321	45	32	244	43	81,625	244,211	310,785	860,762	555,977			
Chocolate and cocoa products, not in- cluding confectionery.	1929	59	7,072	4	819	6,249	68,236	2,498,263	7,778,031	70,540,871	119,540,693	39,691,522			
	1927	69	7,350	5	918	6,427	62,742	2,785,682	7,339,405	90,422,862	122,723,229	32,300,377			
	1919	48	10,287	21	1,183	9,083	33,414	4,038,456	9,270,077	101,754,466	139,258,296	37,503,830			
Cigars and cigarettes.....	1929	1,630	115,957	1,518	9,131	105,308	49,517	19,765,539	85,623,298	356,778,023	1,066,908,888	710,130,865			
	1927	1,097	128,345	1,882	10,280	116,174	35,819	19,600,453	94,580,211	335,356,075	965,823,792	630,167,027			
	1919	9,926	161,097	10,464	11,860	138,773	24,497	22,392,437	111,313,348	353,297,360	773,662,495	420,305,120			
Clay products (other than pottery) and nonclay refractories.	1929	1,740	102,055	530	8,189	93,336	533,887	21,330,806	106,918,327	81,698,742	294,934,513	213,235,771			
	1927	1,846	109,983	600	8,411	100,972	520,581	21,868,995	121,087,507	99,869,690	319,907,843	220,038,174			
	1919	2,414	86,593	1,649	7,939	76,915	405,157	15,840,907	78,256,086	67,488,113	208,422,920	140,934,807			
Cleaning and polishing preparations....	1929	429	4,505	103	1,624	2,713	10,609	4,340,271	3,356,161	19,399,041	50,779,632	31,350,561			
	1927	341	3,993	132	1,408	2,403	8,485	3,540,621	2,988,430	15,210,635	41,234,466	26,014,831			
	1919	499	4,264	356	1,953	1,955	4,510	3,698,314	1,898,447	12,923,518	29,703,109	13,779,561			
Clocks, clock movements, time-record- ing devices, and time stamps.	1929	56	11,943	4	1,538	10,401	12,451	3,827,459	12,481,894	10,675,113	42,105,875	31,490,792			
	1927	52	11,268	7	1,399	9,865	9,610	3,507,361	11,750,620	10,062,795	39,196,803	28,133,038			
	1919	46	9,260	11	997	8,252	6,952	1,998,374	7,801,611	7,177,818	28,389,190	16,202,377			
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.	1929	3,691	169,143	3,952	15,323	149,868	40,325	41,904,877	179,768,808	440,504,679	991,104,295	460,599,226			
	1927	3,562	168,708	4,231	18,378	146,099	34,351	43,046,189	184,618,090	447,244,686	932,181,718	434,937,053			
	1919	107	342	36	14	292	104	26,570	314,192	60,792	573,909	513,117			
Clothing, men's, buttonholes.....	1929	32	494	47	35	412	132	71,325	428,817	98,020	917,982	819,093			
	1927	40	494	47	35	412	132	71,325	428,817	98,020	917,982	819,093			
	1919	107	635	181	20	484	176	64,578	514,600	123,266	1,000,049	966,783			
Clothing, women's, not elsewhere clas- sified.	1929	8,082	222,404	7,689	27,215	187,500	35,291	83,916,680	243,851,143	634,413,683	1,709,880,505	775,160,822			
	1927	7,588	187,464	8,336	24,619	154,459	30,287	62,289,316	211,349,759	809,520,125	1,494,401,044	654,850,919			
	1919	7,711	202,243	10,306	26,228	165,649	32,421	59,035,975	195,295,534	650,406,844	1,208,543,128	528,136,284			
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.	1929	511	41,196	323	2,672	38,201	11,492	6,219,073	26,647,078	383,561,715	135,450,078	54,898,383			
	1927	556	43,948	423	2,913	40,612	11,218	6,232,951	29,946,916	85,134,183	147,289,026	62,154,842			
	1919	46	1,083	20	161	902	800	559,463	1,457,104	88,340	3,361,221	3,272,881			
Cloth sponging and refinishing.....	1929	52	941	29	170	736	933	604,017	1,502,111	160,779	3,457,938	3,297,159			
	1927	67	1,454	55	193	1,206	927	612,363	1,564,661	178,161	3,690,858	3,512,697			
	1919	67	1,454	55	193	1,206	927	612,363	1,564,661	178,161	3,690,858	3,512,697			
Coffee and spice, roasting and grinding..	1929	928	13,792	436	4,303	9,053	45,465	12,008,823	10,606,360	332,150,200	424,344,887	92,194,037			
	1927	784	13,063	423	4,445	8,195	42,542	12,215,938	9,537,473	284,652,793	384,281,306	90,628,513			
	1919	794	20,187	556	9,091	10,540	29,706	16,504,017	9,201,242	243,899,108	304,791,677	60,892,569			
Coke, not including gas-house coke....	1929	153	23,508	5	2,951	20,552	393,211	7,451,438	33,389,425	281,592,430	416,348,458	134,756,028			
	1927	171	23,899	4	2,727	21,082	451,874	7,200,470	34,167,692	286,728,701	382,012,617	95,283,916			
	1919	278	32,882	41	3,522	29,819	224,879	7,605,785	42,299,292	224,2					

CENSUS OF MANUFACTURES: 1929

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ¹	Value of products ¹	Value added by manufacture ¹
			Total	Proprietors and firm members	Salaried officers and employees ¹	Wage earners (average for the year)						
Collapsible tubes.....	1929	17	1,963		147	1,821	2,272	646,966	1,782,024	5,385,906	8,912,977	3,527,071
	1927	17	2,169		185	1,984	2,849	650,000	1,918,927	7,103,927	11,350,710	4,246,783
Collars, men's.....	1929	15	3,192	7	233	2,952	1,281	341,353	2,263,335	3,630,168	8,740,396	5,110,225
	1927	24	3,608	18	318	3,270	3,131	652,086	2,966,038	5,866,677	13,264,207	7,397,530
	1919	39	12,562	37	1,422	11,103	6,270	2,012,639	7,430,729	19,434,095	47,564,949	28,130,854
Combs and hairpins, not made from metal or rubber.	1929	24	793	16	121	656	1,015	267,983	640,857	1,006,824	2,482,419	1,476,595
	1927	30	1,474	15	200	1,259	1,591	491,550	1,249,064	1,873,093	4,436,656	2,563,653
	1919	45	2,475	38	208	2,229	1,688	488,327	1,809,453	3,168,818	6,566,365	3,397,547
Compressed and liquefied gases.....	1929	354	6,449	3	3,056	3,390	85,293	5,602,732	5,378,211	14,528,603	52,189,779	37,661,176
	1927	313	5,756	3	2,541	3,212	70,469	4,779,837	4,947,577	11,748,839	50,547,395	38,798,556
Concrete products.....	1929	2,438	21,697	1,734	3,453	16,505	67,651	8,349,404	22,688,062	34,035,184	92,900,749	58,865,565
	1927	2,330	22,980	1,866	3,306	17,808	54,342	7,402,907	24,897,709	33,913,086	93,259,206	59,346,120
	1919	2,785	12,879	3,055	1,440	8,378	22,178	2,290,989	9,310,899	13,913,317	33,664,332	19,751,016
Condensed and evaporated milk.....	1929	535	8,536	38	1,433	7,065	86,268	2,885,342	8,795,629	163,786,818	209,109,700	45,322,882
	1927	464	8,703	21	1,352	7,390	63,969	2,565,997	9,190,599	159,680,081	200,086,091	40,406,010
	1919	401	16,533	46	2,812	13,675	49,178	5,645,566	14,277,966	282,595,292	339,506,774	66,911,482
Confectionery.....	1929	2,021	73,940	1,222	9,217	63,501	112,644	23,585,476	56,442,674	215,192,474	393,269,849	178,077,375
	1927	1,908	74,525	1,383	9,979	63,163	110,595	24,594,735	56,980,648	218,372,553	391,927,343	173,554,790
	1919	3,149	93,982	3,146	14,343	76,493	77,036	31,244,470	64,461,057	252,433,691	447,726,103	195,292,412
Cooperage.....	1929	588	11,064	303	970	10,091	33,885	2,548,874	11,705,704	41,515,500	64,841,788	23,326,288
	1927	528	12,685	261	909	11,455	33,553	2,554,298	12,937,460	43,821,250	66,947,424	23,126,174
	1919	1,069	15,369	941	1,209	13,219	30,088	2,923,177	14,082,224	68,420,655	88,236,061	29,715,406
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.	1929	2,161	37,003	1,516	6,954	28,593	53,749	18,413,534	49,254,611	112,048,112	222,434,025	109,836,513
	1927	1,981	32,005	1,623	5,915	24,527	35,880	16,856,751	38,667,690	98,385,897	191,128,636	92,742,739
	1919	4,796	38,559	5,056	5,863	27,640	24,130	11,009,498	33,866,823	80,898,528	160,313,945	79,415,417
Cordage and twine.....	1929	123	15,915	17	1,409	14,489	73,021	3,995,968	12,833,661	64,573,259	91,455,117	36,881,858
	1927	116	16,508	19	1,405	15,084	74,924	3,856,090	13,674,081	66,105,063	89,172,495	33,667,432
	1919	120	19,232	29	1,581	17,622	66,555	4,015,501	14,700,061	89,705,282	133,366,470	43,661,194
Cork products.....	1929	35	4,265	12	411	3,842	14,820	902,800	4,203,674	12,602,522	23,023,329	10,420,807
	1927	27	3,562	4	373	3,185	11,683	874,273	3,560,013	9,395,123	17,368,825	7,973,702
	1919	62	4,061	30	486	3,545	8,556	1,028,039	3,387,114	9,134,950	16,282,239	7,147,289
Corn sirup, corn sugar, corn oil, and starch.	1929	35	8,227	9	1,488	6,730	84,686	4,136,258	9,872,909	104,284,827	165,983,739	61,698,912
	1927	26	8,257	3	1,282	6,972	81,003	3,075,503	10,489,679	90,905,770	134,461,166	43,555,390
	1919	59	8,694	37	862	7,795	52,036	2,212,362	11,962,483	130,328,848	186,256,260	55,927,412
Corsets and allied garments.....	1929	213	15,958	99	2,195	13,664	6,048	6,233,226	12,446,334	36,035,079	76,802,199	40,767,120
	1927	222	16,239	131	2,330	13,778	7,810	5,369,850	12,402,288	35,394,422	77,218,202	41,823,780
	1919	188	21,751	98	3,238	18,415	6,950	7,160,167	15,082,242	38,815,803	75,541,959	36,726,156
Cotton goods.....	1929	1,281	439,101	91	14,094	424,916	2,269,340	41,020,722	324,289,094	898,028,977	1,524,177,087	626,148,110
	1927	1,347	480,817	167	13,054	467,596	2,328,830	38,164,444	380,909,543	871,591,901	1,567,400,612	695,808,711
	1919	1,288	445,423	239	14,218	430,906	1,836,298	37,364,478	355,474,937	1,277,785,597	2,125,272,193	847,486,596
Cotton small wares.....	1929	202	16,680	69	1,330	15,281	27,308	4,015,407	15,449,435	33,636,208	65,169,753	31,593,545
	1927	220	16,621	105	1,558	14,968	29,205	4,514,817	15,333,332	32,222,020	64,819,965	32,597,945
Crucibles.....	1929	11	413		92	321	1,680	310,540	430,141	1,035,414	2,944,724	1,909,310
	1927	11	360		102	258	1,088	370,452	343,552	772,155	1,982,135	1,208,980
	1919	6	289		50	239	608	160,739	257,119	1,045,718	2,146,236	1,100,518
Cutlery (not including silver and plated cutlery) and edge tools.	1929	239	17,005	111	1,903	14,991	49,886	5,414,960	17,651,292	14,789,335	78,660,872	63,871,537
	1927	230	17,858	115	1,911	15,832	49,419	4,710,217	18,892,154	18,130,385	76,688,444	58,508,069
	1919	304	22,529	173	2,497	19,859	35,555	4,740,961	20,048,405	19,477,437	66,029,570	47,152,133
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; poultrymen's and apiarists' supplies.	1929	172	7,210	96	1,664	5,460	13,672	3,816,437	6,925,320	16,371,116	42,246,758	25,875,642
	1927	152	6,587	60	1,430	5,061	13,576	3,352,138	6,373,561	15,086,293	36,823,648	21,137,355
	1919	244	8,614	164	2,013	6,437	11,756	3,504,406	7,078,433	18,626,743	37,397,448	18,870,705
Dental goods and equipment.....	1929	87	5,555	38	958	4,559	6,210	2,716,592	5,359,432	17,326,748	35,180,165	17,853,417
	1927	97	4,534	61	714	3,759	3,792	1,657,884	3,041,289	18,188,584	32,348,979	14,160,395
Doors, shutters, and window sash and frames, metal.	1929	148	11,949	33	2,359	9,557	25,027	7,199,256	17,005,422	30,178,161	72,160,388	41,982,227
	1927	117	10,109	29	2,030	8,050	20,626	6,053,343	15,564,458	25,602,238	65,279,973	39,077,735
	1919	57	2,600	22	561	2,077	4,013	1,268,034	2,729,774	4,677,934	10,877,001	6,299,067
Druggists' preparations.....	1929	429	14,753	135	3,930	10,688	19,448	11,417,620	12,452,066	43,775,986	124,778,487	81,002,501
	1927	373	14,770	154	4,478	10,138	15,919	10,872,755	11,042,469	40,499,392	110,309,139	69,809,747
	1919	524	22,569	283	6,718	15,568	12,670	13,818,486	12,161,925	55,138,475	114,593,486	59,455,011
Drug grinding.....	1929	26	844	5	162	677	5,277	599,422	840,935	5,075,079	9,669,220	3,994,141
	1927	25	837	9	169	650	5,622	555,020	820,187	5,683,720	9,205,243	3,521,523
	1919	31	1,661	16	298	1,347	6,723	797,642	1,526,137	11,556,480	16,937,698	5,381,218
Dyeing and finishing textiles.....	1929	732	36,647	217	10,103	79,327	304,057	31,274,996	94,244,685	235,712,156	465,820,629	230,108,473
	1927	743	33,487	267	9,330	73,851	287,212	27,002,701	91,697,219	210,680,900	406,047,372	195,366,472
	1919	628	62,588	368	6,240	55,985	159,357	16,251,555	57,186,978	174,742,815	323,967,683	149,224,868
Electrical machinery, apparatus, and supplies.	1929	1,802	405,653	464	75,887	328,722	803,519	170,847,326	456,377,629	971,017,623	2,300,915,572	1,329,897,949
	1927	1,777	306,968	615	64,487	241,566	661,108	148,248,997	336,238,750	845,761,099	1,637,307,035	991,545,336
	1919	1,404	271,912	473	59,065	212,374	438,082	98,180,439	233,185,352	425,068,211	997,968,119	572,869,908
Electroplating.....	1929	534	7,313	470	915	5,928	24,015	2,587,492	9,536,800	4,798,667	23,727,916	18,029,249
	1927	419	4,589	463	570	3,556	14,090	1,365,534	5,629,104	3,835,140	13,930,321	10,995,181
	1919	515	4,082	590	418	3,024	6,783	743,256	3,793,605	2,639,248	10,389,617	7,760,369

See footnotes at end of table.

GENERAL SUMMARY

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Cen- sus year	Number of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Horse- power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ³	Value added by manu- facture ⁴
			Total	Pro- priators and firm mem- bers	Salaried officers and em- ployees ¹	Wage earners (average for the year)						
Embroideries.....	1929	813	8,161	819	720	6,622	2,279	Dollars 1,839,075	Dollars 7,867,908	Dollars 6,408,840	Dollars 25,280,800	Dollars 18,677,950
	1927	1,069	11,234	1,273	997	8,964	2,930	2,050,191	10,962,090	7,959,769	32,418,798	24,450,110
Emery wheels and other abrasive and polishing appliances.	1929	67	4,080	16	1,091	3,873	18,113	2,900,160	5,820,143	12,416,663	32,154,311	10,737,648
	1927	68	3,956	15	680	3,261	13,464	1,628,256	4,608,167	10,830,973	24,181,837	13,341,864
	1919	60	6,921	20	1,300	5,601	12,963	2,387,470	5,878,748	12,228,187	30,049,270	18,721,083
Engines, turbines, tractors, and water wheels.	1929	199	72,207	27	11,032	61,148	287,079	28,256,279	98,705,030	202,900,430	457,217,009	254,317,239
	1927	215	63,433	33	9,059	54,341	241,788	22,467,103	84,790,771	165,202,801	307,878,588	202,675,787
	1919	370	96,286	93	18,576	77,617	190,005	30,912,039	105,435,455	217,550,771	464,774,785	247,223,904
Engravers' materials.....	1929	19	388	3	67	313	1,493	270,807	448,385	1,794,804	3,120,483	1,334,079
	1927	17	245	3	64	178	864	189,404	298,962	1,289,201	2,168,737	870,470
	1919	21	262	11	67	174	733	168,179	212,171	1,484,209	2,248,122	763,853
Engraving (other than steel, copper- plate, or wood), chasing, etching, and diesinking.	1929	189	2,833	182	411	2,240	2,965	1,323,075	3,211,743	2,583,039	10,633,741	8,350,702
	1927	173	2,295	164	326	1,805	2,023	949,841	2,612,434	2,078,160	7,930,688	5,852,628
	1919	478	2,656	533	245	1,878	1,750	491,951	2,391,504	1,927,323	7,350,602	5,423,270
Engraving, steel and copperplate, and plate printing.	1929	456	12,498	817	2,051	10,130	8,506	5,936,587	14,489,730	11,894,764	47,161,041	35,200,877
	1927	303	10,567	311	1,707	8,549	6,894	4,350,705	11,885,737	10,236,210	30,071,105	28,834,880
	1919	421	8,779	370	1,895	7,014	5,353	2,879,317	7,008,109	6,980,747	24,200,164	17,228,407
Engraving, wood.....	1929	27	200	30	28	142	54	73,860	323,211	82,250	738,951	650,701
	1927	23	194	26	36	132	45	77,316	290,777	76,354	641,437	565,083
	1919	55	387	62	90	235	67	152,162	407,215	219,268	1,153,618	934,850
Envelopes.....	1929	171	12,432	38	2,027	10,367	13,077	5,424,406	11,526,849	20,027,683	61,286,002	31,359,800
	1927	153	11,496	33	1,718	9,745	11,391	4,176,574	10,754,636	28,973,192	50,006,225	27,033,033
	1919	106	9,493	33	1,331	8,129	7,124	2,798,311	6,640,989	21,954,743	39,664,077	17,099,384
Excelsior.....	1929	66	1,391	54	96	1,241	10,667	272,214	1,210,144	2,439,530	5,008,769	2,569,230
	1927	64	1,433	42	119	1,272	10,930	312,588	1,181,488	2,547,114	4,821,098	2,273,984
	1919	95	1,491	81	168	1,242	10,332	326,041	1,144,503	2,621,067	4,913,460	2,391,483
Explosives.....	1929	95	6,433	28	791	5,614	51,612	2,226,390	8,487,800	31,764,807	72,539,724	40,775,417
	1927	100	6,690	25	862	5,803	38,239	2,272,514	8,131,234	36,893,570	72,489,068	35,596,002
	1919	118	15,429	28	6,152	9,249	61,635	13,244,224	12,504,986	45,911,049	92,474,813	46,603,704
Fancy and miscellaneous articles, not elsewhere classified.	1929	814	21,969	472	2,775	18,722	11,071	7,972,209	19,040,511	35,130,854	85,388,961	50,240,107
	1927	595	20,299	467	2,867	16,965	10,802	6,815,477	18,306,510	34,673,611	83,006,431	48,332,820
	1919	661	17,140	607	2,573	13,961	8,057	5,622,193	12,207,913	32,590,073	64,054,481	31,933,408
Feathers, plumes, and manufactures thereof.	1929	39	332	23	52	257	100	127,144	309,603	386,350	1,141,418	755,062
	1927	38	410	32	62	322	103	139,102	306,683	534,149	1,438,441	904,292
	1919	216	4,224	239	481	3,504	502	1,023,964	3,405,765	6,694,596	15,377,953	8,683,367
Feeds, prepared, for animals and fowls..	1929	750	14,736	352	4,161	10,223	170,482	9,579,066	12,821,386	327,919,743	402,752,534	74,832,701
	1927	447	11,567	189	3,746	7,632	115,855	7,772,436	9,702,954	244,075,705	299,792,642	55,116,937
Felt goods, wool, hair, or jute.....	1929	54	6,185	8	637	5,540	25,655	2,505,186	7,531,298	26,223,967	45,465,823	19,241,856
	1927	60	6,014	7	555	5,452	23,479	2,201,898	6,653,147	23,289,338	41,894,844	18,605,566
	1919	49	5,934	8	690	5,236	16,411	2,097,342	4,873,400	22,780,775	39,229,540	16,448,765
Fertilizers.....	1929	638	25,116	139	4,051	20,926	169,984	9,397,707	17,883,925	159,801,195	232,510,936	72,709,741
	1927	621	22,711	119	3,980	18,612	166,274	8,936,036	17,640,661	138,142,025	190,384,800	62,241,965
	1919	600	32,522	219	6,007	26,296	125,939	11,571,600	25,363,132	185,040,522	281,143,587	96,103,065
Files.....	1929	33	4,299	6	319	3,974	12,091	981,668	5,239,808	3,052,675	14,114,878	11,061,703
	1927	36	4,259	11	300	3,948	10,979	848,927	5,144,987	3,135,955	12,073,784	9,837,779
	1919	50	6,343	24	552	5,787	11,897	953,113	6,192,444	4,227,380	17,610,569	13,388,683
Firearms.....	1929	21	7,747	1	908	6,838	15,427	1,979,971	9,209,551	4,117,099	21,970,367	17,853,268
	1927	20	6,885	1	754	6,130	15,747	1,079,624	7,633,639	5,047,555	19,452,372	14,404,817
	1919	28	12,534	9	1,238	11,287	26,167	2,094,183	13,333,495	7,613,784	30,181,370	22,567,586
Fire extinguishers, chemical.....	1929	28	1,084	8	336	740	1,464	907,375	958,570	4,187,524	8,560,089	4,378,565
	1927	26	1,193	6	355	832	1,564	607,132	1,191,703	4,009,775	8,035,156	4,025,381
	1919	32	1,128	19	332	777	855	646,611	751,119	2,693,416	5,563,180	2,809,704
Fireworks.....	1929	50	2,002	16	175	1,811	1,746	453,215	1,930,595	2,464,617	6,583,502	4,118,885
	1927	36	1,710	8	138	1,564	1,300	367,070	2,623,672	6,623,672	5,884,939	3,261,267
	1919	57	1,996	20	148	1,222	1,005	325,274	994,251	2,108,150	4,020,934	2,521,823
Flags and banners.....	1929	54	1,159	31	190	938	577	439,488	794,328	1,771,320	3,835,824	2,064,504
	1927	46	1,258	35	177	1,048	700	362,693	897,906	2,282,456	4,536,348	2,253,892
	1919	79	1,845	60	220	1,055	778	480,960	795,242	3,286,165	5,340,089	2,059,924
Flavoring extracts and flavoring sirups.	1929	642	7,847	302	2,504	5,041	33,838	7,748,504	7,070,860	55,517,920	120,086,237	73,508,311
	1927	500	7,887	219	2,057	5,011	27,963	7,134,274	7,137,333	61,090,727	107,219,395	56,128,693
	1919	602	6,771	452	2,753	3,586	6,553	5,230,933	2,962,560	50,416,804	70,923,850	20,506,346
Flax and hemp, dressed.....	1929	6	62	2	13	47	499	18,428	35,406	93,477	107,035	103,558
	1927	7	77	5	10	62	654	12,012	51,399	116,166	282,895	166,720
	1919	20	491	26	45	420	1,020	87,591	447,373	1,708,070	2,369,114	600,444
Flour and other grain-mill products....	1929	4,022	39,126	3,334	8,764	27,028	641,456	20,594,955	35,072,386	868,872,569	1,000,260,418	191,396,840
	1927	4,035	43,780	3,602	10,146	30,982	641,698	22,231,064	37,559,472	972,711,040	1,148,760,860	176,049,820
	1919	10,708	75,769	11,987	18,851	45,481	875,464	32,013,030	50,888,383	1,799,180,987	2,062,434,385	253,253,398
Food preparations, not elsewhere classi- fied.	1929	862	14,376	971	3,189	10,616	36,716	8,792,802	11,657,726	96,387,689	171,860,087	75,473,343
	1927	674	18,942	456	3,192	10,294	34,773	7,785,967	11,889,636	98,248,740	165,964,672	68,715,932

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ³	Value added by manufacture ⁴
			Total	Proprietors and firm members	Salaries officers and employees	Wage earners (average for the year)						
Forgings, iron and steel, not made in plants operated in connection with rolling mills.	1929	218	23,555	43	2,680	20,882	147,491	8,715,758	34,505,349	71,606,964	156,248,947	84,641,983
	1927	219	17,972	53	2,325	16,594	127,975	7,266,830	23,530,561	52,101,695	106,036,719	52,933,724
	1919	261	33,536	70	4,331	28,135	104,870	10,710,965	40,602,802	83,561,111	177,119,105	93,557,994
Foundry and machine-shop products, not elsewhere classified.	1929	8,005	545,377	3,087	87,240	454,441	1,804,886	247,867,074	697,508,589	1,038,006,092	2,791,461,964	1,753,395,872
	1927	8,095	484,084	4,164	87,228	396,672	1,550,240	218,246,076	580,624,020	878,771,144	2,263,663,217	1,329,882,078
	1919	10,934	577,308	7,602	81,979	495,839	1,561,034	215,394,585	601,022,908	883,651,734	2,201,543,110	1,407,891,376
Foundry supplies	1929	59	1,151	10	288	853	9,396	986,500	1,255,801	5,534,648	10,458,589	4,024,041
	1927	65	1,365	12	412	941	11,133	1,096,313	1,200,141	6,539,050	11,636,060	5,096,010
	1919	76	1,331	23	402	906	6,327	887,522	1,032,029	5,667,256	9,964,676	4,287,440
Fuel: Briquettes and boulets	1929	23	515	---	89	426	14,893	265,252	584,020	5,918,799	9,497,657	3,578,868
	1927	20	331	---	57	274	9,594	182,748	445,511	4,873,195	7,203,410	2,330,215
	1919	11	228	---	57	171	5,180	134,110	221,546	1,380,394	1,973,877	587,483
Fur goods	1929	2,865	23,014	3,161	4,101	15,752	5,511	12,757,711	33,320,965	176,106,910	277,592,752	101,485,842
	1927	2,756	24,488	3,755	4,093	16,640	5,655	10,092,880	37,670,610	195,322,988	299,015,047	104,292,059
	1919	1,816	19,894	2,527	3,608	13,639	5,327	7,093,146	24,149,212	105,596,065	178,137,739	67,541,134
Furnishing goods, men's, not elsewhere classified.	1929	598	29,582	468	2,526	26,588	7,088	7,450,130	23,009,301	83,631,818	150,963,603	67,331,785
	1927	534	28,712	436	3,093	25,183	7,190	6,553,571	22,070,339	82,339,406	145,474,143	62,634,737
	1919	487	22,530	533	3,083	18,944	6,659	8,115,308	18,562,866	64,743,912	107,834,695	43,090,783
Furniture, including store and office fixtures.	1929	3,778	219,799	1,833	24,517	193,300	503,970	70,847,029	242,832,096	420,454,169	948,116,358	521,662,189
	1927	3,228	212,256	1,576	22,537	188,143	455,881	61,188,728	238,240,107	302,008,519	885,204,300	493,105,751
	1919	3,279	162,660	2,468	19,940	140,262	265,166	7,132,520	143,152,217	265,725,010	579,900,396	314,131,386
Furs, dressed	1929	248	6,121	174	780	5,167	10,760	3,081,003	8,596,377	18,648,954	40,237,192	21,588,238
	1927	172	6,458	100	818	5,540	12,467	2,808,429	10,360,987	7,071,850	27,680,035	20,608,785
	1919	141	5,679	127	477	5,075	5,421	1,504,541	7,093,286	6,338,835	20,384,669	14,675,082
Galvanizing and other coating, not done in plants operated in connection with rolling mills.	1929	65	1,362	24	213	1,125	2,266	673,380	1,563,716	3,939,417	7,606,541	3,727,124
	1927	59	1,170	26	191	953	2,657	583,927	1,448,940	3,722,411	6,950,855	3,226,444
	1919	52	1,065	33	267	1,665	1,671	601,841	2,247,953	10,632,288	14,475,682	3,943,394
Gas and electric fixtures; lamps, lanterns, and reflectors.	1929	614	28,609	270	4,759	23,580	40,209	13,710,800	33,268,595	57,018,407	144,965,706	87,047,299
	1927	481	26,082	261	4,791	21,030	31,291	12,636,807	20,260,824	55,603,545	127,802,407	72,193,682
	1919	512	22,113	337	3,621	18,155	23,278	7,132,926	19,094,877	38,867,877	80,366,870	41,679,299
Gas machines, gas meters, and water and other liquid meters.	1929	72	7,475	7	1,307	6,101	11,029	3,854,617	8,931,025	15,187,488	40,623,344	25,436,850
	1927	68	7,125	4	1,208	5,915	10,427	3,229,073	8,792,394	15,590,977	36,715,190	21,124,213
	1919	105	7,076	24	1,463	5,589	8,586	2,756,353	6,996,377	10,647,002	20,267,074	15,619,672
Gas, manufactured, illuminating and heating.	1929	754	65,624	---	22,550	43,065	544,024	40,774,202	60,160,926	188,416,183	512,652,595	324,236,412
	1927	828	75,285	---	26,788	48,497	496,014	45,514,425	68,356,443	211,785,523	616,705,170	304,910,647
	1919	1,022	63,328	27	20,393	42,908	283,454	25,172,453	52,755,628	167,550,832	329,278,008	171,728,026
Glass	1929	263	73,427	81	5,869	67,527	341,979	15,586,531	87,795,111	103,293,943	303,818,560	200,524,617
	1927	269	71,833	79	5,629	65,825	318,298	13,863,732	81,852,734	109,911,484	282,394,330	172,842,866
	1919	371	83,056	60	6,076	77,620	207,338	13,364,569	87,526,625	90,780,124	261,884,080	171,103,956
Glass products (except mirrors) made from purchased glass.	1929	431	7,335	301	1,005	6,029	5,757	2,728,382	7,814,551	10,818,633	33,273,093	16,954,370
	1927	400	5,905	343	797	4,465	3,316	1,996,862	6,214,552	8,778,568	22,327,581	13,549,013
	1919	616	8,248	531	1,237	6,480	5,042	2,138,100	6,154,831	14,357,878	28,443,321	14,085,443
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.	1929	125	9,924	63	582	9,279	3,702	1,012,521	5,914,275	10,289,234	29,882,968	10,693,724
	1927	131	10,824	72	456	10,266	4,112	956,181	6,669,708	17,392,166	30,202,162	12,809,986
	1919	182	9,746	133	627	8,985	3,364	1,237,076	4,855,246	16,092,462	28,220,113	12,127,661
Gloves and mittens, leather	1929	257	10,332	231	898	9,203	3,498	2,272,323	9,203,911	20,205,740	39,122,729	18,916,989
	1927	232	10,397	251	1,040	9,108	2,603	2,037,884	8,813,912	19,276,416	36,062,053	17,385,637
	1919	355	12,594	406	1,504	10,685	3,288	3,093,046	8,150,784	26,286,129	46,940,511	20,654,382
Glue and gelatin	1929	74	3,552	14	545	2,983	23,584	1,658,419	4,236,092	18,978,027	32,458,010	13,479,092
	1927	61	3,779	18	635	3,226	24,763	1,610,424	4,624,232	19,222,384	31,196,807	11,973,423
	1919	62	4,906	23	618	4,264	16,979	1,378,636	4,776,724	19,279,906	32,134,067	12,864,162
Gold leaf and foil	1929	75	1,327	60	81	1,177	383	261,790	1,134,044	1,932,667	3,978,024	2,045,357
	1927	77	1,302	84	72	1,146	340	1,120,484	1,120,484	3,571,190	5,549,013	1,850,016
	1919	87	1,146	97	99	950	408	204,692	983,600	2,655,335	4,461,568	1,806,233
Gold, silver, and platinum, reducing and refining, not from the ore.	1929	69	1,416	46	439	931	4,280	1,303,597	1,633,888	51,570,093	67,959,149	6,389,947
	1927	67	1,146	82	313	801	4,288	951,456	1,434,620	58,677,476	62,647,127	3,769,661
	1919	87	995	81	270	644	3,141	637,693	843,608	49,736,978	55,483,215	5,746,287
Graphite, ground and refined	1929	11	561	2	65	494	3,166	185,619	627,235	1,457,860	3,769,969	2,302,109
	1927	13	363	2	72	289	3,011	1,610,424	340,510	1,319,161	2,931,684	1,612,423
	1919	24	664	10	157	497	7,445	277,267	434,317	1,092,684	2,239,687	1,140,903
Grease and tallow, not including lubricating grease	1929	297	6,311	177	959	5,475	41,686	2,615,255	7,862,149	40,142,447	61,807,990	21,465,543
	1927	247	6,245	143	1,050	5,052	34,069	2,809,968	7,402,936	38,272,446	56,279,868	18,007,612
	1919	482	8,276	464	1,175	6,647	25,544	2,005,084	7,954,378	47,756,341	67,265,206	10,508,895
Haircloth	1929	13	504	12	42	460	1,113	126,838	526,669	2,550,563	3,855,388	1,304,825
	1927	16	442	18	39	385	1,312	83,897	480,045	2,685,784	3,616,119	927,335
	1919	18	511	19	67	425	972	143,910	425,149	2,269,142	3,315,113	1,056,971
Hair work	1929	59	474	29	86	359	44	184,390	432,340	538,479	1,693,588	1,155,109
	1927	69	683	57	111	515	21	281,885	598,034	829,891	2,270,226	1,440,335
	1919	198	1,549	210	255	1,084	119	482,316	1,064,630	3,829,197	6,963,033	3,133,836

See footnotes at end of table.

GENERAL SUMMARY

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TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY			Horse-power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ³	Value added by manufacture ³	
			Total	Proprietors and firm members	Salaries officers and employees							Wage earners (average for the year)
Handkerchiefs.....	1929	105	6,525	60	451	6,014	2,409	<i>Dollars</i> 1,172,291	<i>Dollars</i> 4,635,901	<i>Dollars</i> 16,342,735	<i>Dollars</i> 29,553,777	<i>Dollars</i> 13,211,042
	1927	115	7,314	71	594	6,659	2,665	1,339,522	5,264,147	18,205,237	31,588,220	13,382,983
Hand stamps and stencils and brands..	1929	332	4,112	211	930	2,971	3,596	2,346,875	4,080,780	3,811,168	15,030,023	11,224,865
	1927	293	3,968	220	1,075	2,668	3,159	2,398,157	3,841,771	3,733,718	14,155,607	10,421,889
	1919	382	3,341	377	828	2,186	1,848	1,405,066	2,261,287	3,148,667	9,336,558	6,187,891
Hardware not elsewhere classified.....	1929	485	60,260	124	7,820	52,306	112,705	19,768,563	67,702,255	76,480,210	229,477,507	152,997,297
	1927	485	55,050	188	7,028	47,834	99,674	17,313,654	60,827,474	71,877,056	208,253,586	136,376,531
	1919	585	53,027	340	6,507	46,180	74,240	13,121,850	49,273,749	62,815,868	168,661,444	105,846,086
Hat and cap materials, men's.....	1929	112	2,937	77	298	2,564	5,164	958,415	2,875,718	17,305,116	25,030,948	7,728,828
	1927	96	3,116	87	267	2,762	5,158	994,499	2,668,871	15,671,702	23,339,341	7,667,649
	1919	133	3,484	134	341	3,009	4,927	950,127	3,132,571	16,643,919	26,521,212	9,877,293
Hats and caps, except felt and straw, men's.	1929	576	7,279	594	889	5,826	1,796	2,314,648	7,694,078	16,907,661	35,900,604	18,969,063
	1927	598	8,015	701	1,014	6,300	1,999	2,438,033	9,126,438	20,702,296	41,213,965	20,611,669
	1919	709	6,762	931	1,282	7,539	1,687	2,765,699	9,438,864	24,170,614	44,539,861	20,253,347
Hats, fur-felt.....	1929	159	18,272	72	1,661	16,539	19,894	5,677,530	22,502,542	55,298,045	102,004,165	46,706,120
	1927	139	17,531	103	1,632	15,896	20,517	4,568,167	22,854,664	51,053,257	99,134,842	45,131,685
	1919	176	20,318	148	1,600	18,510	20,377	4,631,672	19,642,531	40,158,019	82,745,308	42,687,289
Hats, straw, men's.....	1929	50	3,792	12	400	3,380	1,836	1,368,351	3,687,570	8,704,621	18,738,994	10,034,373
	1927	48	3,772	11	498	3,263	1,554	1,289,630	4,232,332	11,782,956	21,717,689	9,934,783
Hats, wool-felt.....	1929	14	2,202	5	169	2,028	2,811	395,830	2,814,680	4,078,189	9,055,590	4,377,401
	1927	12	2,214	9	92	2,113	2,405	258,938	2,190,031	4,489,717	8,806,616	4,316,899
	1919	40	1,648	43	157	1,448	2,694	358,251	1,387,777	3,699,822	6,739,652	3,039,830
Hones, whetstones, and similar products.	1929	6	192	3	15	174	850	40,554	182,155	340,669	868,811	528,142
Horse blankets, fly nets, and related products.	1929	14	658	5	71	582	1,375	187,453	497,871	1,470,670	2,895,158	1,424,488
	1927	16	737	6	71	660	1,421	170,105	574,177	1,877,898	3,379,105	1,601,209
	1919	28	959	25	168	766	1,577	318,431	551,278	3,456,688	6,020,612	2,694,926
House-furnishing goods, not elsewhere classified.	1929	984	10,163	639	2,730	15,794	16,866	7,580,280	16,150,499	76,624,989	127,602,002	50,977,013
	1927	948	13,988	442	1,825	11,691	12,997	4,787,552	10,947,259	52,704,735	87,076,606	34,979,829
	1919	467	10,010	417	1,740	7,863	11,857	3,770,328	6,443,015	39,793,962	60,211,804	20,417,842
Ice cream.....	1929	3,150	31,625	2,194	7,032	22,399	230,882	17,144,814	33,803,044	155,964,388	328,413,911	172,449,525
	1927	2,961	31,065	2,362	6,776	21,927	206,315	16,457,225	33,107,615	160,602,029	301,644,991	151,042,952
	1919	3,475	28,046	3,905	4,986	19,165	102,640	8,551,559	21,698,809	116,375,479	189,483,065	73,107,586
Ice, manufactured.....	1929	4,110	40,710	1,161	7,365	32,184	1,077,295	16,820,375	42,399,295	39,808,164	210,952,264	171,144,100
	1927	3,159	30,092	637	7,035	22,120	965,400	14,671,605	32,611,118	40,815,612	184,794,988	143,670,476
	1919	2,867	38,605	1,566	6,792	30,247	569,925	10,952,131	34,001,837	42,877,509	137,004,798	94,127,289
Ink, printing.....	1929	147	3,597	36	1,113	2,448	20,300	4,311,804	3,957,185	19,204,715	42,749,992	23,545,277
	1927	123	3,282	36	958	2,288	18,001	3,813,582	3,605,199	16,054,110	37,734,493	21,680,393
	1919	90	3,061	50	1,023	1,988	10,229	2,817,162	2,574,920	14,061,115	26,244,470	11,686,865
Ink, writing.....	1929	29	766	14	326	419	847	635,736	479,995	1,992,573	4,594,974	2,602,401
	1927	24	787	20	276	491	743	629,090	576,091	2,203,335	5,342,037	3,133,192
	1919	61	1,216	55	459	702	610	967,046	596,168	3,320,346	6,433,941	3,113,695
Instruments, professional and scientific.	1929	276	21,185	124	4,185	16,876	22,816	11,014,706	22,682,052	28,411,430	89,746,369	61,334,939
	1927	280	20,270	197	5,659	10,414	25,587	8,695,655	22,288,973	28,890,222	87,783,458	59,903,286
	1919	861	19,787	248	5,608	15,931	12,981	7,061,646	17,499,888	19,494,634	58,136,691	38,642,667
Iron and steel: Blast furnaces.....	1929	105	27,376	-----	2,416	24,960	-----	6,846,369	41,958,569	610,293,691	771,425,464	161,131,773
	1927	116	30,514	-----	2,550	27,968	-----	7,335,957	44,258,499	579,555,036	708,904,238	129,849,202
	1919	196	46,966	41	5,256	41,960	7,582,530 6,781,058 6,399,574	13,435,048	73,769,395	621,289,490	794,466,558	173,180,662
Iron and steel: Steel works and rolling mills.	1929	486	431,528	17	36,937	394,574	103,432,723	689,015,541	1,904,083,157	3,865,788,805	1,461,705,648	
	1927	486	397,347	16	36,019	361,312	97,199,944	601,275,499	1,689,655,295	2,779,840,238	1,090,184,943	
	1919	500	421,861	35	46,738	375,088	99,880,420	637,637,430	1,680,676,758	2,528,902,370	1,148,326,618	
Iron and steel, processed.....	1929	46	692	15	166	511	2,210	878,459	1,088,672	3,865,480	2,776,808	
	1927	33	331	15	85	231	1,716	392,275	509,690	1,443,289	933,599	
Ivory, shell, and bone work, not including buttons, combs, or hairpins.	1929	21	444	17	26	391	642	88,627	424,783	517,325	1,260,426	743,101
	1927	22	357	25	38	294	599	85,296	329,752	329,007	911,342	683,275
	1919	44	991	45	104	842	879	217,750	734,932	1,293,870	2,816,530	1,622,664
Jewelry.....	1929	1,536	34,797	1,340	5,535	27,922	27,402	16,090,552	39,079,810	79,804,617	177,380,932	97,582,315
	1927	1,367	31,174	1,337	5,721	24,116	17,070	13,947,534	36,765,805	76,615,375	164,855,037	87,949,687
	1919	2,064	39,690	2,339	6,420	30,871	15,096	14,187,847	35,893,718	110,450,683	208,939,230	93,488,547
Jewelry and instrument cases.....	1929	113	2,690	101	310	2,269	1,603	982,466	2,472,880	3,324,459	8,826,727	5,502,268
	1927	107	2,825	88	331	2,406	1,440	856,461	2,597,056	3,293,686	8,810,065	6,516,079
	1919	142	3,166	146	286	2,734	1,075	669,120	2,147,648	3,505,840	8,126,300	4,620,460
Jute goods.....	1929	20	5,330	5	394	4,931	85,079	1,033,423	4,276,143	11,967,578	21,899,757	9,902,179
	1927	23	5,772	8	406	5,358	86,210	1,085,846	4,687,228	11,802,328	23,185,907	11,383,969
	1919	26	7,537	13	436	7,138	32,135	1,114,016	6,436,286	17,708,834	34,442,698	16,733,864
Knit goods.....	1929	1,888	223,340	823	14,029	208,468	181,879	42,846,788	210,714,335	456,700,958	899,718,672	443,015,714
	1927	1,869	204,232	690	12,969	190,283	177,216	34,569,194	188,183,458	424,069,384	816,620,494	392,521,119
	1919	2,050	186,673	1,488	12,613	172,572	149,438	32,326,582	125,199,820	427,096,560	713,139,689	286,044,120

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Cen- sus year	Number of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Horse- power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ³	Value added by manu- facture ⁴
			Total	Pro- priators and firm members	Salaried officers and em- ployees ¹	Wage earners (average for the year)						
Labels and tags.....	1929	163	5,528	57	997	4,474	6,473	Dollars 3,107,478	Dollars 5,888,952	Dollars 10,555,674	Dollars 28,042,325	Dollars 17,480,051
	1927	121	7,879	49	1,689	6,141	6,869	3,479,380	8,000,426	16,269,439	34,397,630	18,138,191
	1919	119	6,048	73	1,348	5,227	4,033	2,458,276	4,549,902	11,274,707	24,243,992	12,969,225
Lace goods.....	1929	42	7,094	4	836	6,854	10,466	2,899,807	7,670,122	10,112,363	29,237,434	19,125,081
	1927	48	7,250	10	752	6,482	11,309	2,213,902	7,584,848	11,309,379	27,398,159	16,905,789
	1919	44	7,196	8	908	6,490	9,078	2,024,441	6,086,557	13,075,994	29,396,853	16,320,859
Lapidary work.....	1929	100	741	112	123	808	474	396,877	1,001,706	8,234,889	11,942,421	3,707,632
	1927	92	782	101	134	547	513	366,197	1,220,647	9,133,059	12,351,503	3,218,444
	1919	124	1,469	147	167	1,155	680	698,643	2,837,811	19,363,064	30,051,460	10,088,456
Lasts and related products.....	1929	58	2,078	13	305	1,700	7,230	919,285	2,569,308	2,314,597	7,689,555	5,374,958
	1927	59	2,069	22	329	1,718	7,655	905,150	2,504,116	2,605,032	7,529,149	5,024,117
	1919	64	3,344	43	391	2,910	6,539	1,110,367	3,415,950	3,832,662	12,470,539	8,537,877
Leather goods, not elsewhere classified..	1929	392	7,210	283	892	6,035	3,196	2,582,733	6,759,742	18,013,489	35,951,013	17,037,524
	1927	413	8,754	328	1,238	7,188	3,651	2,937,367	8,379,080	21,539,590	43,291,552	21,751,962
	1919	503	11,141	488	1,708	8,945	3,840	4,022,442	9,415,403	30,035,537	52,952,772	22,917,265
Leather: Tanned, curried, and finished..	1929	471	54,316	93	4,201	49,932	220,060	15,649,249	63,413,707	337,597,868	481,340,299	143,742,431
	1927	494	57,487	163	4,400	52,924	220,530	13,856,133	67,887,231	331,984,736	494,255,833	162,271,102
	1919	680	70,292	398	6,418	72,470	217,761	20,178,972	88,205,473	646,521,527	928,591,701	282,070,174
Lime.....	1929	237	9,440	54	832	8,554	90,276	2,049,311	9,476,314	13,907,760	35,815,658	21,907,898
	1927	260	12,048	72	1,073	10,903	84,195	2,355,483	12,190,913	17,266,467	41,687,458	24,317,991
	1919	476	12,865	349	1,101	11,405	81,735	1,995,880	10,869,196	14,296,925	33,970,463	19,073,538
Linen goods.....	1929	10	2,410	-----	215	2,195	11,006	535,554	2,185,339	5,214,423	9,736,398	4,522,470
	1927	18	2,741	-----	211	2,530	11,473	617,488	2,545,210	5,409,441	10,377,346	4,907,905
	1919	10	2,070	-----	180	1,890	11,890	6,069	1,636,642	4,190,187	6,998,046	2,807,365
Linoleum.....	1929	7	6,894	-----	1,350	5,544	51,647	2,470,590	8,560,183	27,489,253	57,250,449	29,761,196
	1927	7	6,147	-----	783	5,364	41,432	1,757,082	8,176,644	24,215,618	47,442,441	23,226,823
Liquors, vinous.....	1929	24	254	13	55	186	1,188	282,393	277,963	608,857	2,447,912	1,839,055
	1927	13	242	5	87	150	1,999	294,211	177,073	1,205,217	2,692,556	1,486,639
	1919	342	1,661	364	286	1,011	5,189	1,370,088	1,013,898	3,116,841	17,454,194	9,338,363
Lithography.....	1929	370	23,719	92	4,648	18,079	35,471	15,510,752	32,021,919	38,992,142	121,014,321	82,022,179
	1927	309	20,127	76	3,703	16,248	28,541	12,060,439	27,465,552	32,703,772	97,050,124	64,346,363
	1919	331	19,305	150	3,537	15,618	18,550	9,112,951	18,201,089	27,718,217	78,151,115	45,482,898
Locomotives, not made in railroad repair shops.	1929	16	12,851	5	1,801	11,045	98,482	5,519,072	17,994,078	52,808,092	83,858,258	31,050,166
	1927	17	14,011	-----	1,650	12,901	148,971	4,953,951	17,648,206	41,687,458	70,719,403	31,080,963
	1919	17	28,742	1	2,026	20,715	90,504	4,778,316	33,798,641	72,376,950	156,269,730	83,893,780
Lubricating oils and greases, not made in petroleum refineries.	1929	177	4,093	34	1,432	2,577	13,281	4,167,049	3,738,637	39,571,373	69,584,246	30,012,873
	1927	177	4,093	34	1,432	2,577	13,281	4,167,049	3,738,637	39,571,373	69,584,246	30,012,873
Lumber and timber products, not elsewhere classified.	1929	12,915	454,143	13,345	21,714	419,084	1,985,301	56,438,365	421,584,874	419,603,383	1,273,472,320	853,868,932
	1927	7,510	441,793	6,514	21,333	413,946	1,781,734	61,956,991	413,381,954	493,959,120	1,214,646,683	720,636,563
	1919	26,119	538,788	31,348	26,495	480,945	2,355,345	55,928,273	430,419,081	470,960,488	1,387,471,413	916,510,926
Macaroni, spaghetti, vermicelli, and noodles.	1929	353	6,341	377	892	5,072	24,448	2,802,756	5,384,353	27,336,126	47,074,230	19,738,104
	1927	353	5,844	425	872	4,687	21,406	2,093,762	5,070,936	27,433,792	45,353,200	17,019,408
	1919	557	6,226	637	990	4,543	16,693	1,707,351	4,168,009	25,109,951	37,067,198	11,947,247
Machine-tool accessories and small metal-working tools, not elsewhere classified.	1929	722	30,973	406	3,835	26,632	64,393	12,825,679	51,084,540	26,992,631	144,410,890	117,418,269
	1927	722	30,973	406	3,835	26,632	64,393	12,825,679	51,084,540	26,992,631	144,410,890	117,418,269
Machine tools.....	1929	280	56,298	42	8,865	47,391	141,778	24,493,039	76,410,237	64,284,022	244,578,088	180,294,066
	1927	283	59,134	55	6,686	38,383	125,428	18,274,626	47,403,355	45,161,422	145,864,981	102,703,499
	1927	355	42,642	98	7,275	35,289	131,670	20,086,861	52,365,692	46,114,349	159,513,125	113,398,276
	1919	403	61,762	132	8,519	53,111	100,294	18,037,856	66,178,969	59,034,308	212,400,158	163,365,850
Malt.....	1929	28	742	1	151	590	18,068	613,682	1,056,759	18,923,749	23,602,938	4,679,189
	1927	23	628	4	124	500	15,390	461,886	904,420	17,186,750	20,274,172	3,087,422
	1919	55	1,713	8	363	1,352	27,483	1,017,501	1,845,210	31,612,707	39,340,414	7,727,707
Marble, granite, slate, and other stone products.	1929	1,881	45,258	1,525	5,916	37,817	305,915	18,495,849	63,040,864	57,637,838	192,163,916	134,526,078
	1927	1,978	48,201	1,694	6,033	40,474	295,174	16,719,146	68,490,655	66,328,248	201,181,281	134,853,033
	1919	4,240	42,214	4,774	4,672	32,768	169,177	8,700,854	38,354,822	49,524,341	126,164,653	79,640,312
Matches.....	1929	21	4,122	1	361	3,760	17,907	802,295	4,118,093	12,526,327	20,351,025	7,824,693
	1927	19	4,181	-----	276	3,905	17,607	557,164	4,180,988	11,884,075	24,906,835	13,021,760
	1919	21	5,126	3	1,397	3,726	12,947	1,805,995	3,059,537	6,852,970	18,496,876	11,642,906
Mats and matting, grass and coir.....	1929	7	523	4	52	467	1,293	145,975	439,802	684,951	1,692,200	1,007,249
	1927	7	478	3	53	422	1,425	115,991	393,426	668,856	1,536,567	867,711
	1919	12	1,173	7	93	1,073	1,670	229,644	810,907	2,102,580	4,860,855	2,758,275
Mattresses and bed springs, not elsewhere classified.	1929	951	20,544	688	2,669	17,187	50,554	7,013,752	22,583,835	61,527,026	123,270,717	61,752,691
	1927	838	16,821	615	2,725	13,481	32,937	7,003,802	16,886,711	52,182,075	98,834,553	46,652,483
	1919	1,041	16,244	983	2,624	12,637	23,387	5,563,845	12,805,361	49,208,560	83,952,609	34,744,049
Meat packing, wholesale.....	1929	1,277	146,717	893	23,349	122,505	624,989	54,733,864	165,897,420	2,974,127,767	3,434,654,098	460,526,341
	1927	1,250	144,224	885	24,244	119,095	489,676	54,641,992	161,593,827	2,663,740,403	3,037,215,718	399,475,515
	1919	1,304	197,992	1,071	35,325	160,996	368,522	59,685,365	209,489,263	3,732,929,533	4,246,290,614	463,361,081
Millinery.....	1929	1,293	38,155	782	5,167	32,206	10,176	15,898,015	42,715,059	98,089,660	195,603,457	97,603,798
	1927	1,148	39,499	843	5,346	33,311	7,920	14,020,920	46,787,735	103,489,714	209,494,825	109,005,114

See footnotes at end of table.

GENERAL SUMMARY

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Horse- power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ²	Value added by manu- facture ¹
			Total	Pro- pri- etors and firm mem- bers	Salaried officers and em- ployees ¹	Wage earnors (average for the year)						
Minerals and earths, ground or other- wise treated.	1929	88	2,053	7	367	1,679	39,117	Dollars 1,202,305	Dollars 2,187,923	Dollars 8,937,883	Dollars 17,409,056	Dollars 8,471,178
Mirror and picture frames.....	1929	178	5,226	99	681	4,446	8,334	2,206,339	5,752,166	6,532,524	19,237,897	12,706,373
	1927	166	5,208	119	629	4,400	6,228	1,748,837	5,898,073	7,056,460	19,488,721	12,432,261
	1919	429	5,929	398	823	4,708	4,659	1,726,101	4,775,227	7,227,232	18,384,582	11,167,330
Mirrors, framed and unframed.....	1929	304	5,859	172	905	4,782	8,414	2,504,154	6,941,976	15,659,049	31,842,740	16,183,091
	1927	250	5,321	153	860	4,308	7,630	2,266,992	6,360,813	16,188,614	31,424,943	16,236,329
	1919	186	3,802	154	549	2,599	4,233	1,382,014	2,819,140	12,498,783	20,830,775	8,332,042
Models and patterns, not including paper patterns.	1929	804	3,484	684	1,022	6,778	12,378	3,212,408	13,233,622	5,314,369	30,621,074	25,300,715
	1927	693	7,100	725	791	5,584	11,465	2,329,654	10,544,694	4,659,266	23,494,992	18,856,726
	1919	928	8,860	1,078	833	6,949	13,760	1,908,116	10,318,104	6,396,834	25,300,389	18,904,555
Motion pictures, not including projec- tion in theaters.	1929	142	19,639	37	8,818	10,784	49,732	60,187,520	24,860,092	38,441,025	184,102,419	145,061,394
	1927	142	16,055	42	7,598	8,415	32,160	56,298,560	18,637,005	34,867,472	134,343,360	99,475,888
Motor-vehicle bodies and motor-vehicle parts.	1929	1,154	241,813	540	19,941	221,332	824,705	57,663,412	366,603,385	856,985,637	1,537,920,793	680,944,166
	1927	1,213	200,895	493	18,913	181,489	551,639	40,437,407	291,290,968	641,306,662	1,151,426,365	510,119,893
	1919	2,515	153,182	2,129	18,497	132,556	256,770	39,908,340	178,065,608	392,027,302	692,170,692	330,143,390
Motor vehicles, not including motor- cycles.	1929	244	253,228	36	27,076	226,116	713,912	79,865,972	366,579,233	2,401,511,763	3,722,793,274	1,321,281,511
	1927	264	213,970	30	26,030	187,910	725,674	71,118,022	321,664,098	1,889,426,249	2,848,442,843	959,016,594
	1919	315	242,922	36	32,327	210,569	282,328	67,215,804	312,166,570	1,578,661,574	2,387,903,287	809,251,713
Motorcycles, bicycles, and parts.....	1929	21	5,117	3	722	4,392	11,124	1,754,837	6,263,870	11,281,327	23,894,805	12,613,478
	1927	29	4,598	4	697	3,897	10,733	1,542,212	5,441,502	10,174,092	21,454,149	11,280,067
	1919	51	12,200	16	1,293	10,888	14,420	2,200,368	12,763,265	25,985,015	53,105,895	27,119,980
Mucilage, paste, and other adhesives, except glue and rubber cement.	1929	84	698	47	237	414	2,564	712,860	546,926	3,668,707	6,638,387	2,969,680
	1927	80	885	42	341	502	2,219	817,712	679,468	4,270,361	7,946,403	3,675,042
Musical instrument parts and mate- rials: Piano and organ.	1929	67	3,621	21	510	3,090	11,099	1,565,421	3,597,210	4,247,919	11,883,093	7,635,179
	1927	85	6,150	31	720	5,399	14,185	2,238,419	6,593,045	9,657,860	22,244,731	12,587,381
	1919	113	11,886	38	839	11,009	15,716	2,042,424	10,467,137	16,693,140	36,789,627	20,066,487
Musical instruments and parts and materials, not elsewhere classified.	1929	106	3,983	52	755	3,176	6,060	1,751,258	4,580,720	3,825,294	14,274,078	10,448,784
	1927	99	4,796	78	700	4,018	5,366	1,563,504	3,737,005	4,640,563	17,891,948	13,251,395
	1919	240	4,957	223	621	4,113	3,219	1,032,172	3,984,656	4,444,720	12,506,334	8,061,605
Musical instruments: Organs.....	1929	62	2,756	47	320	2,389	4,740	1,014,866	3,603,631	3,090,676	11,322,736	8,232,060
	1927	63	3,138	33	335	2,770	4,332	2,238,419	4,363,781	4,494,449	15,438,623	10,944,174
	1919	68	2,285	56	288	1,941	3,245	523,672	1,978,518	2,217,097	5,978,268	3,766,171
Musical instruments: Pianos.....	1929	81	11,101	9	1,122	9,070	27,193	3,357,717	14,000,826	18,866,437	42,501,375	23,634,938
	1927	124	18,343	18	1,743	16,532	29,725	4,484,298	23,898,668	33,898,668	76,490,681	41,662,013
	1919	191	25,760	33	2,770	22,957	28,697	6,397,666	25,474,200	54,364,656	107,088,050	52,722,394
Nails, spikes, etc., not made in wire mills or in plants operated in connec- tion with rolling mills.	1929	55	2,413	10	376	2,027	9,096	1,045,014	2,553,417	5,955,661	12,854,745	6,899,084
	1927	56	2,483	25	358	2,100	8,073	989,111	5,156,906	11,763,468	17,763,468	6,596,662
	1919	65	3,941	32	554	3,355	8,971	1,177,235	3,397,662	8,874,747	17,583,344	8,708,597
Needles, pins, hooks and eyes, and snap fasteners.	1929	43	7,023	9	772	6,242	6,094	2,021,477	6,555,782	6,187,822	22,030,950	15,843,128
	1927	45	6,338	10	722	5,606	7,250	1,865,555	6,098,477	5,922,844	20,030,950	14,402,400
	1919	92	10,389	39	1,056	9,294	8,423	2,506,250	8,800,781	10,227,199	29,304,995	19,077,766
Nets and seines.....	1929	19	1,048	7	138	903	1,155	314,614	768,871	3,789,356	6,164,403	2,375,047
	1927	21	1,000	11	120	869	1,162	412,786	776,326	3,347,719	5,401,173	2,053,464
	1919	19	943	5	79	869	959	209,205	561,282	3,645,206	5,114,414	1,466,208
Nonferrous-metal alloys and products, not including aluminum products.	1929	1,225	92,005	604	12,218	79,183	503,273	34,513,121	116,943,996	600,410,913	909,804,050	309,393,137
	1927	1,197	78,790	672	10,195	65,928	411,925	28,406,136	95,351,041	375,190,134	581,568,797	203,378,633
	1919	1,252	90,877	824	11,541	78,512	277,713	26,401,152	93,286,297	367,752,118	559,455,010	191,702,892
Oil, cake, and meal, cottonseed.....	1929	553	19,039	34	3,180	15,825	234,395	6,732,607	11,203,227	249,019,800	263,376,039	49,856,239
	1927	547	21,665	59	3,172	18,484	270,600	6,713,857	14,258,555	220,038,437	276,338,488	56,300,661
	1919	711	32,193	145	5,282	26,768	289,981	9,935,717	20,615,193	495,192,294	581,244,798	86,052,504
Oil, cake, and meal, linseed.....	1929	29	2,949	2	232	2,715	31,191	637,214	4,097,712	101,562,787	119,926,867	18,364,080
	1927	33	3,029	5	306	2,718	28,273	924,430	4,324,938	97,750,350	111,543,845	13,793,495
	1919	26	2,751	4	574	2,173	17,621	1,409,403	3,052,269	100,577,538	120,633,100	20,060,562
Oils, essential.....	1929	22	367	8	94	265	1,894	306,143	325,881	3,804,228	6,653,353	2,840,125
	1927	14	225	7	49	169	763	189,728	258,036	3,427,334	4,641,861	1,214,527
	1919	73	493	74	98	321	1,833	228,790	391,213	3,903,417	5,698,403	1,794,986
Oils, not elsewhere classified.....	1929	75	1,742	16	492	1,234	14,670	1,422,981	1,950,432	36,895,506	45,159,825	8,264,319
Oilcloth.....	1929	9	1,869	-----	257	1,412	5,017	625,157	2,144,067	14,924,651	23,107,272	8,182,621
	1927	8	1,294	-----	192	1,072	3,555	511,553	1,745,875	11,818,824	17,642,442	5,823,818
	1919	11	1,819	4	185	1,130	4,251	403,877	1,200,877	11,140,723	15,436,375	4,296,152
Oleomargarine, not made in meat-pack- ing establishments.	1929	41	2,120	4	582	1,534	6,670	1,390,073	2,263,700	30,890,075	46,521,823	15,631,748
	1927	36	2,071	3	596	1,502	8,746	1,281,700	2,263,494	27,145,141	39,282,364	12,187,223
	1919	42	3,368	1	1,016	2,851	9,435	1,983,566	3,184,118	66,042,792	79,815,580	13,772,788
Optical goods.....	1929	117	11,243	55	1,487	9,701	15,626	4,205,251	12,633,947	11,869,128	40,562,459	28,703,331
	1927	96	9,598	38	1,874	7,596	12,401	3,991,845	9,560,725	8,865,025	32,757,210	23,892,885

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ²	Value added by manufacture ³
			Total	Proprietors and firm members	Salaryed officers and employees ¹	Wage earners (average for the year)						
Paints and varnishes.....	1929	1,063	42,833	234	12,888	29,211	180,315	<i>Dollars</i> 38,033,685	<i>Dollars</i> 42,244,095	<i>Dollars</i> 334,132,065	<i>Dollars</i> 568,975,838	<i>Dollars</i> 234,843,773
	1927	1,006	40,953	258	12,684	28,061	163,187	33,310,287	40,184,732	307,724,370	519,009,842	211,286,472
	1919	830	34,030	298	12,225	21,507	84,827	26,522,628	24,118,159	217,112,372	340,346,803	123,234,431
Paper.....	1929	685	115,006	32	11,744	103,320		<i>Dollars</i> 37,623,897	<i>Dollars</i> 140,398,374	<i>Dollars</i> 674,607,978	<i>Dollars</i> 967,186,026	<i>Dollars</i> 392,578,048
	1927	710	109,141	38	10,637	98,566	2,968,431	8,018,599	130,474,739	572,785,538	919,891,465	347,105,927
	1919						2,642,806					
Pulp (wood and other fiber).....	1929	198	26,525	11	1,885	24,729		<i>Dollars</i> 5,844,301	<i>Dollars</i> 32,679,407	<i>Dollars</i> 148,752,729	<i>Dollars</i> 238,928,279	<i>Dollars</i> 90,175,550
	1927	219	26,896	7	2,095	24,794		5,003,432	31,527,358	151,325,425	218,198,201	66,872,776
	1919											
Paper goods, not elsewhere classified...	1929	436	24,618	103	4,288	20,227	67,145	12,835,089	23,810,118	100,368,676	182,647,712	82,270,036
	1927	340	17,870	90	2,934	14,837	42,955	8,638,956	17,765,281	78,796,805	140,947,815	62,151,010
	1919	308	17,177	124	2,918	14,135	35,369	6,741,607	12,666,024	65,295,494	107,284,750	41,989,275
Patent or proprietary medicines and compounds.	1929	1,622	26,120	462	9,224	16,484	44,538	25,560,155	18,780,980	94,769,833	318,006,928	224,137,095
	1927	1,282	24,167	633	8,463	15,071	34,082	21,362,430	16,607,425	84,640,850	278,242,929	193,602,079
	1919	2,467	31,970	1,648	12,878	17,444	25,409	24,736,212	13,748,813	88,819,417	212,162,255	123,342,838
Paving materials: Asphalt, tar, crushed slag, and mixtures.	1929	126	2,870	15	486	2,375	30,893	1,338,764	3,730,807	13,588,502	29,275,369	15,086,867
	1927											
	1919											
Peanuts, walnuts, and other nuts, processed or shelled.	1929	169	8,546	49	564	7,983	16,193	1,137,678	3,070,740	39,529,486	49,608,894	10,079,408
	1927	144	7,951	55	520	7,376	13,956	1,003,898	3,287,114	45,800,488	55,949,802	10,059,314
	1919											
Pencils, lead (including mechanical).....	1929	38	6,872	6	1,163	5,703	9,921	3,039,360	6,292,276	10,756,296	27,772,955	17,016,650
	1927	27	6,286	5	980	5,301	9,832	2,959,828	5,942,783	9,931,493	24,499,839	14,568,846
	1919	12	6,713		743	5,970	8,009	1,684,427	5,299,050	9,073,563	24,134,159	15,000,596
Pens, fountain and stylographic; pen points, gold, steel, and brass.	1929	76	5,402	37	765	4,000	4,235	1,801,916	5,304,142	11,459,411	34,211,384	22,751,973
	1927	68	4,838	58	749	4,031	3,721	1,601,232	10,374,789	4,734,565	25,645,189	15,270,400
	1919	75	5,287	54	803	4,490	1,942	1,920,355	4,177,191	7,172,212	19,477,809	12,305,597
Perfumes, cosmetics, and other toilet preparations.	1929	815	19,465	266	6,120	13,109	12,150	16,107,298	13,762,961	58,298,879	193,440,550	135,141,871
	1927	705	16,280	375	5,412	10,463	10,431	12,593,978	10,965,085	52,705,346	161,245,659	108,480,613
	1919	569	9,446	373	3,668	5,405	2,196	6,430,611	3,983,016	26,147,020	59,613,391	33,466,365
Petroleum refining.....	1929	390	94,405	12	13,797	80,596	789,849	33,577,874	131,176,993	2,031,341,408	2,639,665,001	608,323,593
	1927	354	83,305	12	12,059	71,234	552,651	30,909,277	113,715,705	1,752,997,043	2,142,648,503	389,651,460
	1919	320	73,473	59	14,525	58,839	238,906	26,619,024	89,749,637	1,247,908,355	1,632,532,766	384,624,411
Phonographs.....	1929	59	16,698	4	2,278	14,416	38,483	4,447,058	17,825,855	37,323,137	96,849,048	59,525,911
	1927	60	16,358	14	2,128	14,210	48,607	4,085,543	20,176,208	37,467,717	55,296,137	57,828,226
	1919	166	33,826	43	5,062	28,721	40,163	8,687,568	33,963,148	59,740,205	158,547,870	98,807,665
Photo-engraving, not done in printing establishments.	1929	654	10,851	232	4,266	12,353	9,349	14,576,905	31,831,176	11,003,121	77,882,259	66,379,138
	1927	611	15,014	238	3,693	11,033	9,395	11,993,351	28,381,480	10,790,123	69,207,376	58,417,248
	1919	422	9,198	264	2,165	6,799	3,800	4,862,387	10,423,541	5,038,332	29,389,386	24,351,004
Photographic apparatus and materials.	1929	115	16,360	52	3,335	12,967	31,904	7,863,176	20,507,499	30,362,511	102,827,386	72,434,855
	1927	122	15,266	68	3,084	12,120	24,838	6,855,724	18,310,992	29,020,235	90,827,737	61,907,502
	1919	187	10,303	93	2,835	13,485	24,610	4,578,228	14,900,237	33,806,708	88,393,022	54,586,314
Pipes (tobacco)	1929	24	1,948	11	257	1,680	2,276	618,778	1,961,020	1,749,222	5,557,982	3,808,760
	1927	23	2,034	17	210	1,807	1,928	485,706	2,272,705	7,273,806	7,273,806	5,411,100
	1919	56	2,902	54	309	2,539	2,001	993,924	2,555,291	3,497,414	11,653,777	8,056,363
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.	1929	4,849	109,864	2,763	16,967	90,134	677,998	46,030,495	116,422,664	286,008,499	553,583,498	257,574,995
	1927	4,561	115,681	2,360	10,732	96,539	930,674	42,466,620	126,139,713	321,443,318	581,638,737	260,190,419
	1919	5,309	106,481	4,430	15,095	86,956	417,070	28,536,340	91,976,526	289,265,652	500,438,258	201,172,606
Plated ware.....	1929	96	12,683	30	1,025	10,728	28,899	5,184,089	14,941,552	16,750,985	55,429,959	38,678,974
	1927	94	13,693	31	1,810	11,752	4,724,969	27,712	16,141,501	16,141,501	59,719,982	30,579,940
	1919	98	11,459	24	1,043	9,492	14,212	3,436,530	10,913,091	17,766,536	41,634,685	23,869,049
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.	1929	255	31,353	50	3,843	27,960	100,821	9,800,680	37,066,997	49,032,599	129,678,784	80,641,185
	1927	231	33,125	111	3,769	29,245	90,293	9,360,875	40,212,198	55,633,327	145,262,311	89,628,984
	1919											
Pocketbooks, purses, and cardcases.....	1929	290	12,652	181	1,441	10,430	1,828	4,661,566	15,229,422	35,351,605	68,627,515	33,275,910
	1927	287	10,008	205	1,223	8,870	1,725	3,170,059	13,169,509	29,618,524	57,344,655	27,720,131
	1919	139	3,497	108	424	2,905	431	1,125,264	3,061,903	7,557,155	14,549,659	6,992,504
Pottery, including porcelain ware.....	1929	313	38,588	95	3,084	35,409	61,898	8,927,286	43,655,980	27,007,364	110,622,453	83,615,089
	1927	316	39,749	120	2,962	36,697	54,879	8,013,390	45,149,818	33,580,795	110,597,338	77,019,543
	1919	340	30,692	183	2,675	27,934	29,040	6,005,432	29,820,278	20,694,076	74,919,186	54,125,110
Poultry killing, dressing, and packing, wholesale.	1929	485	9,361	207	1,385	7,769	13,500	2,584,579	7,284,558	106,865,508	130,161,230	23,295,724
	1927											
	1919											
Printing and publishing, book and job.	1929	12,712	294,901	7,859	40,893	150,649	211,448	125,134,513	261,576,692	266,749,365	1,006,656,768	730,907,403
	1927	11,466	195,826	9,137	44,342	142,347	194,718	111,108,906	241,810,478	253,056,059	920,251,123	687,195,094
	1919	13,108	171,701	12,396	30,997	123,408	131,544	65,880,364	141,850,722	211,384,064	599,191,610	387,807,546
Printing and publishing, music.....	1929	124	2,211	31	1,870	810	956	3,839,366	1,314,401	5,242,042	15,240,268	13,698,226
	1927	119	2,979	87	1,618	994	1,843	3,530,908	1,677,080	1,655,367	15,831,634	14,223,267
	1919	160	2,622	107	1,616	890	634	3,047,240	1,223,781	2,123,781	14,592,177	12,468,396
Printing and publishing, newspaper and periodical.	1929	11,524	277,672	5,274	142,738	129,660	332,184	318,201,762	253,399,075	391,737,705	1,738,298,892	1,346,661,187
	1927	10,973	257,770	7,285	131,088	119,399	285,234	279,224,917	231,150,638	400,813,880	1,585,075,512	1,175,261,632
	1919	17,362	228,630	14,070	93,079	120,381	194,674	143,505,528	144,348,173	300,385,187	924,152,878	623,767,691
Printing materials, not including type or ink.	1929	84	1,317	18	295	1,004	2,709	973,729	1,649,276	2,184,544	8,579,006	6,394,462
	1927	70	1,181	27	272	882	2,339	867,738	1,402,256	2,034,348	7,022,343	4,987,995
	1919	82	1,035	41	271	723	1,351	678,493	1,619,718			

GENERAL SUMMARY

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY			Horse-power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ³	Value added by manufacture ⁴	
			Total	Proprietors and firm members	Salaryed officers and employees ¹							Wage earners (average for the year)
Pumps (hand and power) and pumping equipment.	1929 1927 1919	322 278 239	30,128 24,609 20,906	101 129 114	6,921 5,809 4,720	23,106 18,671 16,072	82,403 64,763 32,441	16,665,750 14,222,792 9,036,225	34,920,261 27,118,924 19,731,647	66,802,372 52,765,023 36,069,781	184,000,307 130,591,191 85,401,940	97,207,025 77,826,163 49,832,159
Rayon and allied products.....	1929 1927	29 19	41,384 27,696		2,278 1,355	30,106 26,341	165,844 122,406	5,768,565 3,993,947	44,697,129 28,649,441	33,334,753 25,747,792	149,546,107 109,888,330	116,211,354 84,140,544
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.	1929 1927 1919	188 165 122	11,535 11,259 6,994	78 74 72	1,673 1,034 1,136	9,784 9,551 5,786	28,493 24,216 13,029	4,662,178 4,618,892 2,551,322	13,181,650 12,017,121 5,809,351	26,451,148 25,094,718 11,948,972	60,483,314 58,163,054 26,048,808	34,032,166 33,068,336 14,009,836
Refrigerators, mechanical.....	1929 1927	34 22	19,380 13,371	4	2,493 2,086	10,883 11,285	44,953 32,551	7,024,046 6,106,278	26,196,076 17,712,006	72,413,047 42,051,292	161,565,676 96,513,649	89,152,629 53,892,387
Regalia, badges, and emblems.....	1929 1927 1919	77 70 115	2,161 2,191 2,919	43 42 90	361 474 606	1,767 1,675 2,223	1,105 1,015 1,821	902,513 1,001,050 951,095	1,824,500 1,760,438 1,800,383	3,227,236 3,018,048 4,287,055	7,927,214 7,691,253 9,395,470	4,609,978 4,672,305 5,108,415
Rice cleaning and polishing.....	1929 1927 1919	60 60 86	2,141 2,165 3,249	25 19 40	527 622 1,096	1,589 1,524 2,113	22,901 23,012 25,340	1,200,394 1,205,487 1,608,940	1,448,594 1,546,316 1,932,196	38,443,520 46,480,679 76,633,816	58,738,777 54,129,046 90,038,412	19,350,248 7,048,967 13,404,596
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.	1929 1927 1919	102 100 178	7,426 9,020 11,805	16 23 79	1,384 1,742 2,855	6,027 7,255 8,871	33,791 41,740 39,247	3,604,548 4,464,231 5,414,650	8,951,537 10,712,626 10,344,043	61,891,590 67,327,735 52,687,777	103,506,090 123,210,305 85,895,860	42,114,500 55,852,570 33,307,582
Rubber goods other than tires, inner tubes, and boots and shoes.	1929 1927	412 385	46,535 43,009	105 101	6,234 6,195	40,226 35,893	295,452 270,539	16,609,835 16,047,926	50,278,617 45,930,934	114,674,244 117,776,051	244,745,737 240,781,260	130,071,493 113,004,599
Rubber tires and inner tubes.....	1929 1927	91 109	96,249 95,422	5 4	12,981 17,162	83,293 78,256	463,257 451,724	31,097,602 40,430,162	127,081,975 120,063,854	429,606,971 400,220,642	770,176,890 869,688,063	340,509,919 370,467,421
Saddlery and harness.....	1929 1927 1919	260 204 1,823	4,243 5,111 14,863	216 211 1,046	688 877 2,506	3,339 4,023 10,411	4,608 4,008 8,205	1,473,907 1,659,780 4,389,685	3,713,728 4,541,398 10,849,066	13,834,124 16,626,180 52,442,907	23,338,555 7,692,244 33,718,010	9,504,431 10,830,061 31,270,193
Safes and vaults.....	1929 1927	27 25	3,789 3,045	7 9	749 550	3,033 3,386	10,800 9,688	2,003,041 1,801,864	4,438,608 4,494,497	6,392,461 7,226,295	19,362,192 18,439,550	12,969,731 11,213,255
Salt.....	1929 1927 1919	58 58 86	6,216 6,823 7,682	2 8 40	750 854 1,147	5,458 5,901 6,495	57,711 55,928 42,051	2,044,073 2,352,424 2,650,086	6,735,484 7,117,454 7,353,420	14,187,797 14,664,126 16,627,701	37,808,697 34,329,236 37,513,821	23,680,900 19,665,110 21,486,030
Sand-lime brick.....	1929 1927 1919	40 45 32	707 941 600	4 8 3	137 143 98	566 700 504	7,346 8,598 4,358	370,381 373,340 135,773	776,202 1,051,495 675,402	944,534 1,157,965 1,063,052	2,970,923 3,616,456 1,063,052	2,026,389 2,458,491 1,087,650
Sandpaper, emery paper, and other abrasive paper and cloth.	1929 1927 1919	11 10 12	1,817 1,331 1,102	1 1 3	588 413 328	1,228 917 771	6,027 2,834 3,977	1,613,018 1,127,893 744,282	1,739,544 1,228,420 840,766	3,375,277 5,470,629 5,000,561	17,218,500 12,232,004 9,303,734	8,843,813 6,761,456 4,243,473
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.	1929 1927 1919	681 505 633	7,794 6,568 4,994	678 493 704	1,219 1,108 819	5,897 4,907 3,471	25,755 19,980 12,671	3,037,162 2,959,017 1,463,437	8,860,172 7,463,677 4,679,118	81,371,687 60,215,599 43,940,356	108,240,194 81,548,299 56,010,092	26,874,507 21,332,700 12,669,736
Saws.....	1929 1927 1919	81 77 112	5,117 5,179 6,704	40 45 83	940 952 1,111	4,137 4,182 5,510	11,894 14,526 15,040	2,274,313 2,118,981 2,390,725	5,727,416 5,753,856 6,280,807	6,884,331 7,674,394 11,792,224	22,614,958 22,627,990 31,400,557	15,730,627 14,953,690 19,068,393
Scales and balances.....	1929 1927 1919	59 60 79	5,214 5,020 6,821	31 32 38	1,065 1,082 1,531	4,118 3,906 5,432	9,738 8,766 7,441	2,849,331 2,430,583 2,265,970	5,995,475 5,460,742 6,533,978	7,438,190 7,468,027 6,998,682	30,381,424 24,655,442 20,641,038	22,048,284 17,201,515 13,047,356
Screw-machine products and wood screws.	1929 1927 1919	273 218 154	22,454 15,575 17,060	106 82 71	2,467 1,803 1,838	19,881 13,690 15,151	64,840 43,468 31,281	8,065,349 4,824,921 3,887,859	28,986,604 18,055,995 16,909,393	39,462,568 25,910,223 25,635,431	105,974,662 60,020,261 55,475,042	66,512,094 34,110,038 34,930,611
Sewing machines and attachments.....	1929 1927	39 35	12,189 11,776	19 12	1,703 1,707	10,467 9,997	29,659 31,286	3,610,859 3,692,875	14,976,182 13,748,151	16,468,425 14,072,679	45,094,600 39,723,822	28,636,175 26,651,243
Ship and boat building, steel and wooden, including repair work.	1929 1927 1919	624 559 1,075	61,369 60,831 413,236	345 337 816	5,935 5,486 24,974	55,089 55,014 387,446	337,455 314,474 553,271	15,717,446 14,606,996 65,114,494	88,274,153 87,081,444 597,446,648	85,848,690 78,626,391 710,522,676	231,300,165 211,127,087 1,622,301,261	145,451,475 132,600,676 911,838,585
Shirts.....	1929 1927 1919	963 907 896	63,854 62,360 45,274	530 611 949	3,494 4,523 4,722	59,830 57,216 30,603	17,040 14,916 14,800	8,149,844 9,695,000 9,820,355	43,428,224 42,997,827 25,833,855	116,678,496 129,743,737 127,087,745	228,321,616 241,649,939 205,327,133	111,643,120 111,906,202 78,239,338
Shortenings (not including lard) and vegetable cooking oils.	1929 1927	40 33	3,487 3,190		775 531	2,712 2,655	36,647 33,462	1,719,996 1,288,472	3,003,946 2,624,371	139,030,964 137,078,600	154,553,197 145,468,076	15,522,233 11,389,476
Signs and advertising novelties.....	1929 1927 1919	1,239 813 779	25,716 22,071 14,832	597 601 624	5,119 4,563 3,776	20,000 16,907 10,432	19,627 15,325 7,714	13,126,635 10,411,959 6,631,470	27,900,805 24,044,389 9,715,216	35,701,412 30,892,294 16,071,924	118,044,157 98,481,624 48,343,093	82,342,745 67,538,730 27,271,169
Silk and rayon manufactures.....	1929 1927 1919	1,491 1,648 1,869	139,039 136,978 136,775	721 920 1,011	7,851 8,415 8,982	130,467 127,643 126,782	220,225 221,249 26,370,962	23,093,437 21,920,563 26,370,962	137,547,146 140,053,688 108,229,330	412,181,260 445,890,676 388,469,022	731,200,231 750,123,705 688,469,523	319,018,971 304,733,029 300,000,501
Silversmithing and silverware.....	1929 1927 1919	83 84 99	6,091 6,068 7,599	47 72 58	1,037 1,029 1,088	5,007 4,967 6,453	7,325 7,499 6,843	2,516,811 2,315,082 2,329,514	7,636,413 7,803,183 7,359,409	10,134,708 11,165,098 13,060,929	30,452,366 30,794,218 29,126,133	20,317,658 19,539,150 16,065,294

See footnotes at end of table.

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ¹	Value of products ²	Value added by manufacture ³
			Total	Proprietors and firm members	Salaried officers and employees ¹	Wage earners (average for the year)						
Smelting and refining, copper	1929	26	16,537	—	1,993	14,544	412,244	5,677,743	23,951,955	920,351,441	994,733,862	74,432,421
	1927	26	15,690	—	1,786	13,024	323,799	3,943,652	20,581,865	627,763,711	609,239,017	81,535,306
	1919	34	19,654	—	2,309	17,345	321,610	5,836,345	25,723,371	584,410,173	651,101,591	66,691,418
Smelting and refining, lead	1929	19	5,690	—	871	4,819	59,936	2,206,453	7,577,694	203,913,730	232,115,009	28,201,279
	1927	18	6,103	—	770	5,398	45,298	2,244,024	7,689,680	202,859,134	225,137,872	22,378,738
	1919	25	7,354	1	915	6,438	49,668	2,101,736	9,179,615	179,373,646	196,794,519	17,420,873
Smelting and refining, metals other than gold, silver, or platinum, not from the ore	1929	106	4,091	36	821	4,134	18,174	3,223,793	5,574,322	83,444,918	105,832,655	22,437,737
	1927	102	3,517	47	694	2,776	11,980	2,244,024	4,280,291	68,894,494	80,770,546	11,876,052
	1919	81	2,793	53	573	2,167	7,921	1,571,130	3,093,140	40,675,880	50,246,088	9,570,208
Smelting and refining, zinc	1929	30	12,701	—	1,083	11,618	123,901	3,043,505	17,710,270	74,760,088	118,901,070	44,140,982
	1927	25	12,058	—	870	11,188	93,067	2,463,481	16,528,264	76,619,331	108,297,975	31,678,644
	1919	30	14,903	—	1,107	13,796	73,604	2,461,460	17,783,278	70,014,728	104,122,938	34,108,210
Soap	1929	232	19,137	86	4,688	14,363	65,856	11,503,622	18,994,656	180,352,984	310,191,530	129,838,546
	1927	256	17,681	90	4,159	13,432	62,025	9,766,398	19,716,931	172,244,180	237,050,935	114,815,805
	1919	348	28,019	183	8,300	20,436	33,700	14,171,851	21,228,063	238,518,858	316,740,115	78,221,257
Soda-water apparatus	1929	54	3,624	21	839	2,794	5,271	2,186,822	3,921,538	10,489,871	24,590,733	14,019,912
	1927	48	3,518	13	667	2,838	5,042	1,677,576	4,222,944	10,300,971	23,020,068	13,638,097
	1919	60	3,448	43	806	2,599	4,131	1,350,335	3,232,398	6,626,868	15,185,370	8,558,502
Sporting and athletic goods, not including firearms or ammunition	1929	242	12,739	111	1,835	10,793	18,039	4,530,710	13,135,484	24,452,236	58,288,728	33,806,492
	1927	188	11,332	90	1,553	9,689	13,484	3,516,550	11,595,480	19,393,661	44,042,778	25,549,117
	1919	188	7,490	143	935	6,412	6,780	1,605,097	5,752,963	11,969,388	23,859,991	11,870,603
Springs, steel, except wire, not made in plants operated in connection with rolling mills	1929	86	6,675	12	821	5,842	24,318	2,654,504	9,813,927	25,372,478	46,672,319	21,299,841
	1927	94	6,711	20	938	5,763	22,328	2,903,528	8,912,961	24,598,568	43,820,683	19,222,065
	1919	112	10,401	55	1,365	8,981	16,560	3,544,630	11,167,874	28,019,180	51,479,535	23,460,355
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	1929	582	46,052	164	5,888	40,000	93,184	17,625,920	50,091,700	87,639,495	204,306,134	116,666,839
	1927	476	35,615	200	4,662	30,853	73,619	12,094,326	38,172,046	68,880,269	150,936,058	82,055,784
	1919	433	40,700	218	5,245	35,237	62,767	10,591,932	35,902,259	66,628,109	147,069,733	80,441,674
Stationary goods, not elsewhere classified	1929	203	13,428	63	2,287	11,078	11,523	6,229,513	12,429,726	32,177,837	74,062,047	41,884,160
	1927	194	11,096	65	2,044	8,987	8,391	4,453,213	9,791,788	27,016,343	56,937,490	29,971,142
	1919	223	14,535	130	3,144	11,261	8,342	6,582,175	9,577,867	28,160,239	58,368,244	30,203,005
Statuary and art goods, factory product	1929	171	2,681	176	398	2,112	1,639	1,106,213	4,235,907	2,044,955	10,045,159	8,000,294
	1927	136	2,470	124	318	2,028	1,187	1,130,139	4,403,742	2,414,919	10,137,247	7,772,323
	1919	105	1,906	233	207	1,466	682	354,837	1,716,067	1,378,540	5,019,521	3,640,981
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	1929	171	8,713	55	1,392	7,296	30,881	4,132,547	9,660,414	21,596,489	45,433,135	23,336,646
	1927	159	7,568	89	1,533	5,946	29,810	4,237,064	7,904,603	19,794,205	43,044,501	23,250,296
	1919	169	7,761	72	1,542	6,147	26,755	3,263,877	7,103,275	22,724,561	49,524,779	17,800,218
Steam fittings and steam and hot-water heating apparatus	1929	240	45,945	25	6,209	39,621	137,339	16,527,334	58,974,874	72,708,258	228,310,254	155,601,986
	1927	232	49,599	38	6,008	42,593	182,728	17,012,434	78,835,287	76,835,287	225,168,390	148,323,123
	1919	261	43,804	73	7,105	36,696	67,494	12,401,708	43,742,525	72,019,393	160,235,488	88,260,005
Steel barrels, kegs, and drums	1929	53	4,674	8	556	4,110	15,289	1,896,232	5,769,097	21,946,559	37,825,027	15,878,468
	1927	39	3,853	9	491	2,853	11,229	1,404,524	3,985,629	14,735,518	24,104,669	9,389,151
	1919	33	3,907	11	634	3,322	10,554	1,463,977	4,435,444	15,151,210	24,942,650	9,791,440
Stereotyping and electrotyping, not done in printing establishments	1929	230	7,041	68	1,386	6,487	21,347	4,852,832	13,770,676	6,546,881	35,617,297	29,070,416
	1927	197	5,722	80	1,140	4,502	16,888	3,430,110	10,272,775	4,679,853	25,849,214	20,872,661
	1919	171	4,623	85	874	3,664	9,498	2,029,906	5,002,545	4,234,479	15,919,014	11,084,655
Stoves and ranges (other than electric) and warm-air furnaces	1929	609	54,813	166	8,031	46,616	113,100	21,946,123	65,145,509	100,747,049	271,747,009	170,999,960
	1927	564	53,459	171	8,108	45,180	100,099	21,131,508	64,327,405	93,095,971	258,235,829	165,189,858
	1919	588	51,931	238	8,269	43,433	60,698	17,597,247	53,399,963	79,275,286	201,509,992	122,234,706
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	1929	1,482	69,337	732	13,658	54,947	266,175	39,081,519	87,785,606	244,696,254	477,036,827	232,340,673
	1927	1,284	65,902	778	12,732	52,392	251,670	35,669,878	84,578,048	243,445,072	440,376,360	196,930,283
	1919	1,146	56,205	721	11,522	43,962	166,179	23,110,232	59,920,132	168,800,715	294,962,419	120,161,704
Sugar, beet	1929	82	8,943	—	1,447	7,496	146,393	2,798,028	10,020,743	70,960,908	108,552,581	37,591,673
	1927	79	8,872	—	1,470	7,402	142,023	3,014,775	9,709,989	79,016,770	104,926,584	25,909,814
	1919	85	14,190	1	2,408	11,781	127,394	4,427,956	15,908,118	87,029,144	149,156,892	62,129,748
Sugar, cane, not including products of refineries	1929	70	2,745	22	404	2,319	60,779	450,516	1,642,463	12,222,558	18,325,792	6,103,234
	1927	63	1,225	21	238	971	45,705	1,292,710	839,154	5,830,411	8,009,120	2,178,709
	1919	202	7,045	165	779	6,101	101,859	1,695,448	4,009,369	44,143,416	57,741,320	13,597,904
Sugar refining, cane	1929	21	15,659	4	1,743	13,912	98,637	4,559,528	17,850,493	438,399,151	507,389,262	68,990,111
	1927	21	15,742	—	1,746	13,996	86,979	4,645,827	17,707,257	551,594,278	597,446,632	45,851,354
	1919	20	20,921	6	2,713	18,202	52,541	5,442,187	22,710,464	662,143,981	780,986,706	63,842,725
Surgical and orthopedic appliances, including artificial limbs	1929	363	10,372	214	2,248	7,910	13,407	5,722,067	8,921,668	36,004,844	71,007,119	35,602,275
	1927	335	9,543	216	2,017	7,310	9,662	4,540,779	8,371,278	30,763,598	60,823,497	29,859,898
	1919	445	10,073	373	2,639	7,061	13,239	6,637,930	6,873,668	22,988,068	46,806,266	23,817,193
Suspenders, garters, and other elastic woven goods, made from purchased webbing	1929	91	4,955	75	539	4,341	1,180	1,439,298	3,971,030	17,905,748	30,473,169	12,567,421
	1927	91	4,915	38	766	4,061	983	2,207,076	3,529,147	16,259,683	26,985,376	10,726,693
Tanning materials, natural dyestuffs, mordants and assistants, and sizes	1929	126	3,162	34	709	2,419	22,575	2,805,779	3,113,617	25,335,629	39,836,035	14,500,406
	1927	122	3,240	28	807	2,414	29,172	2,517,609	2,971,477	23,073,625	35,677,033	12,603,108
	1919	144	5,205	59	804	4,342	34,265	2,320,914	4,734,614	34,592,698	59,744,283	19,161,585

See footnotes at end of table

GENERAL SUMMARY

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TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ¹	Value of products ¹	Value added by manufacture ²
			Total	Proprietors and firm members	Salaried officers and employees ¹	Wage earners (average for the year)						
							Dollars	Dollars	Dollars	Dollars	Dollars	
Textile machinery and parts.....	1929	376	31,494	231	4,244	27,019	66,539	12,660,745	37,830,406	36,556,299	122,438,614	85,882,216
	1927	367	30,438	218	4,066	26,154	64,632	10,917,207	36,481,196	36,180,689	116,921,130	80,740,441
	1919	432	36,126	354	3,949	31,823	41,744	8,098,770	38,528,729	45,636,628	122,089,264	70,462,636
Theatrical scenery and stage equipment.	1929	55	767	30	180	547	618	727,710	992,133	2,098,498	5,607,827	3,409,329
	1927	39	752	26	165	561	998	533,817	1,379,971	2,330,377	5,745,472	3,415,095
	1919	17	290	6	75	149	104	138,021	237,608	504,655	1,067,033	502,378
Tin and other foils, not including gold foil.	1929	7	1,998	-----	288	1,710	18,642	1,177,614	1,856,371	13,548,369	20,954,849	7,406,540
	1927	10	1,879	-----	221	1,668	18,770	580,716	2,083,678	13,350,016	20,951,679	5,601,663
Tin cans and other tinware, not elsewhere classified.	1929	232	35,312	58	3,757	31,497	77,332	8,288,015	38,173,240	194,986,803	296,901,426	101,914,623
	1927	236	33,118	62	3,335	29,721	64,005	7,399,133	35,000,822	169,421,340	198,244,677	84,057,351
	1919	301	38,958	177	4,305	34,386	30,234	8,200,888	34,493,999	165,170,736	253,964,000	68,703,264
Tobacco: Chewing and smoking, and snuff.	1929	152	11,981	117	1,053	10,811	15,467	3,281,688	8,955,461	72,494,329	179,332,051	100,838,622
	1927	159	14,548	109	1,314	13,125	16,668	3,520,768	10,661,420	85,310,438	198,244,677	112,934,290
	1919	305	22,468	325	3,819	18,324	18,893	6,918,491	12,674,736	130,270,888	239,270,718	109,000,390
Tools, not including edge tools, machine tools, files, or saws.	1929	534	23,102	279	3,518	19,305	65,965	9,744,359	25,808,289	32,110,507	99,462,032	67,351,525
	1927	405	19,504	237	2,880	16,447	67,024	6,842,966	20,941,443	23,067,384	76,607,384	48,549,353
	1927	657	30,243	370	4,644	25,232	85,963	11,641,300	34,464,964	37,056,684	117,430,620	80,376,940
	1919	1,125	44,142	856	7,701	35,585	67,730	12,608,796	43,836,069	46,790,067	144,201,668	98,404,701
Toys (not including children's wheel goods or sleds), games, and playground equipment.	1929	476	19,433	283	2,400	16,660	25,642	6,775,788	17,060,673	29,981,527	74,828,981	44,847,464
	1927	397	17,020	222	2,060	14,788	19,028	5,307,402	15,543,388	25,805,418	39,902,971	27,759,577
	1919	541	16,483	469	1,813	14,201	14,423	3,562,480	11,847,277	19,841,498	45,656,803	25,418,305
Trimmings (not made in textile mills) and stamped art goods for embroidering.	1929	639	9,826	466	1,426	7,934	3,068	3,786,252	9,761,881	20,783,226	45,179,933	24,396,707
	1927	467	13,383	314	1,710	11,359	10,220	4,925,688	13,756,761	31,693,935	63,968,929	32,274,994
	1919	597	14,216	601	2,145	11,470	7,690	5,271,777	12,468,767	33,222,432	63,932,266	30,709,834
Turpentine and rosin.	1929	1,183	43,224	1,484	1,583	40,157	1,995	1,941,210	15,036,175	10,299,954	36,281,632	25,987,673
	1927	1,149	40,876	843	2,120	37,913	3,211	2,616,681	16,963,064	12,173,304	39,902,971	27,759,577
	1919	1,191	31,093	1,460	1,566	28,067	2,276	2,242,856	16,972,881	13,929,888	53,061,294	39,121,406
Type founding.	1929	19	540	12	61	467	1,218	160,662	556,051	648,114	2,603,619	1,955,505
	1927	19	611	11	75	525	1,230	180,420	668,381	749,085	2,683,704	1,034,610
	1919	23	870	11	49	810	845	77,161	867,517	943,245	2,089,787	1,146,512
Typewriters and parts.	1929	26	18,410	1	1,464	16,045	23,383	3,336,603	22,319,327	7,248,601	61,857,615	54,609,014
	1927	26	17,224	2	1,619	15,008	14,653	2,939,184	10,397,911	9,930,070	55,318,864	45,382,785
Umbrellas, parasols, and canes.	1929	141	3,461	127	479	2,855	3,069	1,191,701	2,768,410	10,907,373	17,994,376	7,087,003
	1927	164	4,085	164	614	3,308	2,411	1,306,419	3,411,261	14,020,984	23,156,400	9,135,416
	1919	193	4,173	232	573	3,368	3,357	1,636,828	3,139,662	15,632,089	25,808,826	9,675,837
Upholstering materials, not elsewhere classified.	1929	53	1,624	31	183	1,410	3,915	612,789	1,317,371	7,046,334	11,234,192	4,187,858
	1927	39	1,273	22	171	1,080	4,482	541,076	1,162,466	6,556,109	9,672,806	3,116,697
	1919	51	1,778	41	189	1,587	4,338	460,100	1,739,633	4,794,722	8,694,295	3,899,673
Vinegar and cider.	1929	172	1,367	105	233	979	8,674	629,942	1,021,581	6,016,029	10,450,332	4,484,303
	1927	153	1,550	112	315	1,123	7,602	685,625	1,236,996	5,858,241	10,755,246	4,897,065
	1919	720	3,333	724	628	1,981	17,943	1,168,017	2,047,469	15,568,526	24,722,610	9,164,085
Wall paper.	1929	56	5,421	1	715	4,705	12,740	2,550,885	5,781,932	13,480,205	30,907,649	16,527,444
	1927	53	5,638	1	826	4,811	13,343	2,287,981	5,981,451	14,612,415	30,059,163	15,446,738
	1919	48	5,698	3	833	4,262	8,123	1,767,335	3,882,368	13,162,603	23,047,901	9,895,398
Wall plaster, wall board, insulating board, and floor composition.	1929	238	8,994	43	1,489	7,462	142,354	3,640,261	10,180,301	28,312,628	70,662,746	42,350,118
	1927	221	11,899	36	1,849	10,014	116,230	4,423,677	14,411,777	31,998,385	83,856,008	51,857,623
Washing machines, wringers, driers, and ironing machines, for household use.	1929	65	9,911	9	1,713	8,189	26,732	4,722,829	12,071,910	40,707,373	82,329,024	41,622,651
	1927	75	9,453	29	1,635	7,789	20,697	3,766,639	10,960,046	34,628,335	70,244,407	38,716,072
	1919	105	7,555	40	1,569	5,956	8,316	2,752,083	6,431,378	23,388,925	40,771,285	17,382,360
Waste.	1929	136	4,581	79	597	3,905	18,592	2,084,732	3,316,344	25,633,015	36,013,705	10,380,890
	1927	118	4,077	86	497	3,404	14,529	1,699,840	2,862,971	23,049,393	33,377,276	19,327,883
	1919	98	3,331	65	456	2,810	11,837	1,279,684	2,224,872	22,719,612	30,683,825	7,964,213
Watch and clock materials and parts, except watchcases.	1929	17	361	11	39	311	197	92,276	287,079	256,084	930,837	673,853
	1927	17	495	12	68	416	210	110,423	407,345	1,309,303	1,993,517	993,817
	1919	27	678	24	72	582	252	115,001	412,820	649,621	1,341,697	792,176
Watchcases.	1929	40	3,944	23	517	3,404	5,581	1,325,805	4,026,111	4,631,225	13,491,045	8,859,320
	1927	40	3,966	22	554	3,360	4,121	1,472,544	4,326,393	5,310,674	13,724,703	8,414,029
	1919	33	4,587	15	672	3,900	4,275	1,816,735	4,000,727	8,205,764	19,618,773	11,413,019
Watches and watch movements.	1929	8	11,635	-----	897	10,738	10,146	1,752,497	12,981,115	10,455,921	34,370,369	23,914,478
	1927	11	12,985	3	790	12,192	9,357	1,519,979	15,090,229	8,871,384	32,278,362	25,406,973
	1919	18	16,862	3	961	15,888	7,202	1,697,030	16,598,896	6,392,562	32,044,299	26,651,787
Whips.	1929	8	70	6	7	57	82	7,520	47,714	80,303	224,219	143,916
	1927	7	104	6	8	90	252	9,821	80,366	175,756	310,303	184,647
	1919	26	912	26	169	717	863	431,518	682,230	1,096,642	2,986,285	1,880,643
Windmills and windmill towers.	1929	15	1,845	3	288	1,554	4,491	834,349	2,144,682	3,571,539	8,460,265	5,068,729
	1927	16	1,641	5	281	1,365	3,608	689,842	1,881,520	3,293,593	7,814,149	4,280,555
	1919	31	2,383	10	441	1,932	4,686	794,380	2,145,301	4,960,426	9,932,686	4,972,156

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—GENERAL STATISTICS, BY INDUSTRIES, FOR THE UNITED STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

INDUSTRY	Census year	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY			Horse-power	Salaries ¹	Wages	Cost of materials, containers for products, fuel, and purchased electric energy ²	Value of products ³	Value added by manufacture ⁴	
			Total	Proprietors and firm members	Salariat officers and employees ⁵							Wage earners (average for the year)
Window and door screens and weather strip.	1929	280	5,055	192	829	4,034	14,034	2,410,318	4,957,061	10,512,746	24,451,700	13,938,954
	1927	214	4,573	134	778	3,061	11,520	1,994,342	4,805,057	9,303,982	22,643,361	13,339,379
	1919	214	2,782	197	406	2,179	7,515	825,868	2,046,708	4,897,889	10,932,857	6,035,468
Window shades and fixtures.	1929	482	5,991	295	978	4,708	8,389	2,404,744	5,623,588	19,785,350	36,964,694	17,170,344
	1927	386	5,075	358	984	4,733	8,679	2,380,879	5,855,781	21,065,474	37,081,937	16,016,468
	1919	287	5,494	258	825	4,411	8,946	1,778,807	3,660,286	18,249,540	29,130,649	10,941,109
Wire, drawn from purchased bars or rods.	1929	81	26,024	3	2,554	22,467	150,620	6,979,078	35,110,335	126,182,429	213,997,410	87,814,981
	1927	73	22,222	9	2,347	19,890	152,574	6,201,089	30,038,299	128,092,414	190,709,730	62,617,876
	1919	66	22,236	13	2,482	19,741	119,301	5,664,406	29,289,667	102,813,591	162,161,236	59,397,648
Wirework, not elsewhere classified.	1929	547	25,908	204	3,221	22,388	48,864	9,588,688	27,912,231	68,144,047	146,805,049	78,661,002
	1927	512	25,448	274	3,477	21,997	45,888	9,436,300	26,439,144	63,093,221	128,535,783	65,442,562
	1919	558	18,340	467	2,659	18,224	29,036	6,078,557	15,505,992	50,754,070	90,549,245	39,795,178
Wood distillation and charcoal manufacture.	1929	91	5,223	9	566	4,648	25,509	1,479,928	5,293,240	14,791,111	29,593,672	14,802,561
	1927	88	5,115	12	565	4,537	16,883	1,421,379	4,789,163	15,422,575	27,030,457	12,207,912
	1919	156	5,497	58	694	5,155	16,320	1,869,475	5,465,761	20,319,973	37,134,732	12,814,769
Wood preserving.	1929	199	14,497	7	1,413	13,077	57,913	3,621,564	14,989,973	147,702,724	100,944,645	43,241,921
	1927	193	13,725	5	1,461	12,269	50,006	3,290,771	13,725,557	141,554,898	184,557,640	48,002,742
	1919	78	4,015	1	686	3,978	10,104	1,269,239	4,342,277	28,241,868	33,239,313	9,997,455
Wood turned and shaped and other wooden goods, not elsewhere classified.	1929	694	21,490	587	2,200	18,712	88,308	5,565,664	18,616,688	28,428,593	69,619,990	41,101,427
	1927	748	18,200	443	1,829	15,937	77,425	4,370,124	16,333,285	24,063,907	50,530,005	34,466,098
	1919	667	19,910	885	1,933	17,092	66,596	3,408,734	14,668,910	26,732,593	56,640,400	20,857,832
Woolen goods.	1929	460	62,645	115	4,056	58,474	195,247	13,815,454	66,013,599	165,882,063	290,938,940	125,056,886
	1927	471	65,509	149	3,570	61,760	171,703	12,959,574	72,156,158	172,700,233	301,308,743	128,608,510
	1919	560	67,020	288	3,805	62,957	172,191	13,141,066	66,595,826	217,965,393	304,896,500	140,931,257
Wool pulling.	1929	18	675	7	72	596	1,847	251,871	907,278	10,916,994	13,648,064	2,731,070
	1927	18	608	14	70	524	2,403	191,328	788,990	12,466,058	14,640,401	2,174,345
	1919	24	839	23	111	705	2,162	283,208	909,788	12,809,592	17,361,231	4,551,639
Wool scouring.	1929	21	1,466	2	192	1,302	8,241	624,397	1,770,974	3,021,731	6,241,264	3,219,533
	1927	25	1,551	7	188	1,386	7,935	491,440	1,931,774	3,000,956	6,661,994	3,652,038
	1919	33	2,407	9	221	2,177	6,710	727,174	2,896,463	7,228,350	13,670,584	6,451,284
Wool shoddy.	1929	50	2,057	17	278	1,762	15,940	1,017,154	2,109,374	10,126,717	15,344,978	5,218,261
	1927	55	1,950	35	236	1,670	15,853	819,350	1,916,195	7,980,875	13,508,728	4,615,851
	1919	73	2,056	64	328	2,506	16,557	1,017,223	2,653,169	16,076,316	23,254,398	7,178,083
Worsted goods.	1929	284	93,768	53	5,225	88,485	372,536	16,322,297	98,137,732	336,640,450	536,087,399	199,417,940
	1927	288	97,456	62	4,823	92,571	364,422	15,894,253	101,665,747	329,407,609	516,689,556	187,261,947
	1919	292	109,372	129	5,413	103,830	294,028	17,840,660	101,512,855	447,629,350	700,837,482	252,908,132
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.	1929	50	12,839	3	1,419	11,417	68,690	4,395,003	18,762,303	70,120,941	124,658,966	54,538,025
	1927	44	12,200	6	1,111	11,083	53,938	3,514,435	16,066,001	55,778,864	98,186,341	42,407,477
	1919	50	11,783	13	1,344	10,426	23,925	2,354,928	14,919,676	51,155,653	81,869,115	30,713,462

¹ Data for employees of central-administrative offices included in the figures for 1919 but not in those for 1927 or 1929. The number of such employees, as reported for 1929, was 208,363, and their compensation amounted to \$600,437,331. The corresponding data for 1919 can not be segregated, and no such data were collected for 1927.

² The aggregates for cost of materials and value of products include large but indeterminate amounts of duplication due to the use of the products of some establishments as materials by others. This duplication occurs, as a rule, between different industries, and is not found to any great extent in individual industries.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ No comparable data available for 1919.

⁵ Because of changes in classification, the figures for 1919 are not strictly comparable with those for later years.

⁶ Adjusted for comparison with 1929.

⁷ No comparable data available for 1927 or 1919.

⁸ New industry classification at the census for 1929.

GENERAL SUMMARY

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TABLE 6.—RELATIVE IMPORTANCE OF LEADING INDUSTRIES, FOR THE UNITED STATES: 1929

INDUSTRY	Number of establishments	WAGE EARNERS		COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
		Average for the year	Rank	Amount	Rank	Amount	Rank	Amount	Rank
Industries reporting 100,000 wage earners or more, total.	97,228	4,725,511		\$17,491,269,712		\$33,596,430,225		\$16,105,160,513	
Foundry and machine-shop products, not elsewhere classified.	8,605	454,441	1	1,038,066,002	5	2,791,461,964	4	1,753,395,872	1
Cotton goods.	1,281	424,916	2	898,028,977	9	1,524,177,087	11	620,148,110	13
Lumber and timber products, not elsewhere classified.	12,015	419,084	3	419,603,388	25	1,273,472,320	12	853,868,932	6
Iron and steel: Steel works and rolling mills.	486	394,574	4	1,904,083,157	4	3,395,788,805	3	1,461,705,648	2
Car and general construction and repairs, steam-railroad repair shops.	1,851	368,681	5	515,562,452	17	1,184,435,262	13	668,872,810	12
Electrical machinery, apparatus, and supplies.	1,802	328,722	6	971,017,623	0	2,300,015,572	6	1,320,897,949	4
Motor vehicles, not including motorcycles.	244	226,116	7	2,401,511,763	2	3,722,798,274	1	1,321,281,511	5
Motor-vehicle bodies and motor-vehicle parts.	1,154	221,332	8	856,985,687	11	1,537,929,793	9	680,944,156	11
Knit goods.	1,888	208,488	9	456,700,958	20	899,176,672	23	443,015,714	19
Boots and shoes, other than rubber.	1,341	205,640	10	515,055,246	18	965,922,694	19	450,867,448	18
Bread and other bakery products.	20,785	200,841	11	737,099,500	12	1,528,110,811	10	789,011,311	7
Furniture, including store and office fixtures.	3,778	193,399	12	426,454,169	24	948,116,358	20	521,062,189	15
Clothing, women's, not elsewhere classified.	8,082	187,500	13	934,413,683	7	1,709,580,505	8	775,168,822	8
Printing and publishing, book and job.	12,712	150,649	14	266,749,365	37	1,008,656,768	16	730,907,403	9
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified).	3,691	149,868	15	440,504,979	21	901,104,205	22	460,599,226	16
Silk and rayon manufactures.	1,491	130,467	16	412,181,260	26	781,200,281	29	319,018,971	24
Printing and publishing, newspaper and periodical.	11,524	120,660	17	391,737,705	27	1,738,298,892	7	1,346,561,187	3
Meat packing, wholesale.	1,277	122,605	18	2,974,127,757	1	3,434,654,098	2	460,520,341	17
Cigars and cigarettes.	1,636	105,398	19	350,778,023	29	1,066,908,888	14	710,130,895	10
Paper.	685	103,320	20	574,607,978	16	567,186,026	18	392,578,048	20
Industries reporting 50,000 to 100,000 wage earners, total.	20,494	1,283,865		6,207,879,224		10,564,076,845		4,356,197,621	
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.	2,997	98,866	21	462,062,128	19	750,342,041	26	288,279,913	26
Clay products (other than pottery) and nonclay refractories.	1,749	93,336	22	81,698,742	84	294,934,513	50	213,235,771	33
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.	4,849	90,134	23	296,008,499	35	553,583,408	31	257,574,999	27
Worsted goods.	264	88,485	24	330,049,469	31	536,067,399	32	199,417,369	31
Rubber tires and inner tubes.	91	83,263	25	429,006,971	23	770,176,890	25	340,550,919	22
Petroleum refining.	390	80,596	26	2,031,341,408	3	2,639,665,001	5	608,328,598	14
Dyeing and finishing textiles.	732	79,327	27	235,712,166	40	465,820,629	37	230,108,473	31
Nonferrous-metal alloys and products, not including aluminum products.	1,225	79,183	28	900,410,913	15	909,804,060	21	309,898,137	25
Glass.	263	67,627	29	103,293,043	66	303,818,560	47	200,524,017	34
Confectionery.	2,021	63,501	30	215,192,474	42	393,269,849	42	178,077,375	38
Chemicals, not elsewhere classified.	551	62,199	31	363,576,811	28	738,048,386	28	374,471,576	21
Engines, turbines, tractors, and water wheels.	199	61,148	32	202,000,430	44	467,217,069	38	254,317,239	28
Shirts.	863	59,830	33	110,078,496	59	228,321,616	65	111,643,120	61
Woolen goods.	490	58,474	34	165,882,063	49	290,938,949	52	125,066,886	57
Boxes, paper, not elsewhere classified.	1,249	55,654	35	169,839,577	51	284,253,296	51	134,418,719	54
Ship and boat building, steel and wooden, including repair work.	624	55,089	36	85,848,090	80	231,300,165	63	145,451,475	40
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.	1,482	54,947	37	244,096,264	39	477,036,827	30	232,340,573	30
Hardware not elsewhere classified.	485	52,306	38	70,480,210	89	229,477,507	64	152,907,297	47
Industries reporting 25,000 to 50,000 wage earners, total.	30,728	1,076,069		3,866,486,055		7,738,763,023		3,872,276,968	
Leather: Tanned, curried, and finished.	471	49,932	39	337,597,868	30	481,340,299	35	143,742,431	50
Machine tools.	280	47,391	40	64,254,022	100	244,578,088	59	180,294,006	37
Stoves and ranges (other than electric and warm-air furnaces).	609	46,616	41	100,747,049	70	271,747,099	55	170,969,600	42
Gas, manufactured, illuminating and heating.	754	43,065	42	188,416,183	46	512,062,595	33	324,236,412	23
Agricultural implements.	293	41,663	43	113,969,484	61	277,854,462	53	103,884,978	44
Rubber goods other than tires, inner tubes, and boots and shoes.	412	40,226	44	114,674,244	00	244,745,737	58	130,071,493	55
Turpentine and rosin.	1,183	40,157	45	10,293,954	232	36,281,632	194	25,987,678	161
Cars, electric and steam railroad, not built in railroad repair shops.	147	40,015	46	223,889,397	41	328,220,204	44	104,380,807	65
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.	582	40,000	47	87,639,495	78	204,306,134	71	116,666,639	59
Steam fitting and steam and hot-water heating apparatus.	240	39,621	48	72,708,268	92	228,310,254	66	155,601,986	46
Rayon and allied products.	29	39,106	49	33,394,763	140	149,546,107	91	116,211,364	60
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.	511	38,201	50	83,551,715	82	138,450,673	95	64,898,363	110
Marble, granite, slate, and other stone products.	1,881	37,817	51	97,637,838	106	192,163,916	74	134,526,078	53
Pottery, including porcelain ware.	313	35,409	52	27,007,364	159	110,622,453	112	83,615,089	80
Cement.	174	33,368	53	95,242,497	74	267,509,260	67	172,266,763	40
Carpets and rugs, wool, other than rag.	87	32,623	54	86,650,892	79	176,915,304	80	90,264,472	73
Millinery.	1,293	32,206	55	98,089,659	72	195,693,457	72	97,603,798	99
Ice, manufactured.	4,110	32,184	56	39,808,164	119	210,952,264	60	171,144,100	41
Tin cans and other tinware, not elsewhere classified.	232	31,407	57	194,986,803	45	296,901,426	49	101,014,623	66
Boxes, wooden, except cigar boxes.	792	30,554	58	74,081,937	91	135,025,675	96	60,943,738	105
Car and general construction and repairs, electric-railroad repair shops.	446	29,475	59	32,781,113	141	85,481,577	130	52,700,464	113
Paints and varnishes.	1,063	29,211	60	334,132,065	32	568,975,838	30	234,843,773	29
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.	2,161	28,593	61	112,648,112	62	222,484,625	67	109,836,513	63
Beverages.	5,154	28,281	62	103,026,180	67	270,323,803	56	167,297,623	48
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.	255	27,960	63	40,032,599	112	129,673,784	99	80,641,185	85
Jewelry.	1,536	27,922	64	79,804,617	86	177,386,932	79	97,582,315	70
Flour and other grain-mill products.	4,022	27,028	65	868,872,569	10	1,060,269,418	15	191,396,849	36
Textile machinery and parts.	376	27,019	66	36,556,299	129	122,438,514	105	85,882,215	78
Machine-tool accessories and small metal-working tools, not elsewhere classified.	722	26,682	67	26,992,631	160	144,410,890	94	117,418,250	68
Furnishing goods, men's, not elsewhere classified.	598	26,588	68	83,631,818	81	150,963,603	90	67,331,785	98
Boots and shoes, rubber.	22	25,659	69	34,396,466	136	102,537,625	121	68,141,150	96

CENSUS OF MANUFACTURES: 1929

TABLE 6.—RELATIVE IMPORTANCE OF LEADING INDUSTRIES, FOR THE UNITED STATES: 1929—Continued

INDUSTRY	WAGE EARNERS		COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE		
	Number of establishments	Average for the year	Rank	Amount	Rank	Amount	Rank	Amount	Rank
Industries reporting 10,000 to 25,000 wage earners, total	35,337	1,096,141		\$7,089,748,685		\$11,880,303,568		\$4,790,554,883	
Iron and steel: Blast furnaces.....	105	24,980	70	610,293,691	14	771,425,464	24	161,131,773	45
Bookbinding and blank-book making.....	1,108	24,764	71	30,784,777	148	102,783,405	120	72,028,628	94
Pulp (wood and other fiber).....	198	24,729	72	148,752,729	54	238,928,279	60	90,175,550	74
Gas and electric fixtures; lamps, lanterns, and reflectors.....	614	23,550	73	37,918,407	105	144,985,708	93	87,047,299	77
Pumps (hand and power) and pumping equipment.....	322	23,106	74	66,802,372	99	164,009,397	85	97,207,025	71
Wire, drawn from purchased bars or rods.....	81	22,467	75	126,182,429	58	213,997,410	68	87,814,981	76
Ice cream.....	3,150	22,399	76	165,964,386	53	328,413,911	43	172,449,525	39
Wirework, not elsewhere classified.....	547	22,368	77	68,144,447	98	146,805,049	92	78,061,002	86
Aluminum manufactures.....	150	21,210	78	94,036,463	76	153,467,248	89	59,420,785	107
Fertilizers.....	698	20,926	79	159,801,195	52	232,510,936	61	72,709,741	92
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	218	20,882	80	71,608,964	95	156,248,947	87	84,041,983	79
Coke, not including gas-house coke.....	20,552	20,552	81	281,692,430	36	416,348,468	40	134,756,028	52
Paper goods, not elsewhere classified.....	436	20,227	82	100,368,076	71	182,047,112	77	82,279,036	82
Signs and advertising novelties.....	1,239	20,000	83	35,761,412	132	118,044,157	110	82,842,745	81
Screw-machine products and wood screws.....	273	19,881	84	39,462,568	122	105,974,662	116	66,512,094	99
Cast-iron pipe.....	72	19,741	85	34,289,365	137	80,260,550	135	45,971,185	119
Tools, not including edge tools, machine tools, files, or saws.....	534	19,305	86	32,110,507	143	99,402,032	124	67,861,525	97
Butter.....	3,527	19,007	87	655,873,586	13	746,417,620	27	110,544,034	62
Lithographing.....	376	18,979	88	38,992,142	124	121,014,321	106	82,022,179	83
Fancy and miscellaneous articles, not elsewhere classified.....	814	18,722	89	35,139,854	134	85,388,961	131	50,249,107	115
Wood turned and shaped and other wooden goods, not elsewhere classified.....	894	18,712	90	28,428,593	153	69,610,990	146	41,191,427	130
Mattresses and bed springs, not elsewhere classified.....	951	17,187	91	61,527,026	102	123,279,717	104	61,752,691	102
Typewriters and parts.....	26	16,945	92	7,248,601	248	61,837,615	154	54,009,014	111
Refrigerators, mechanical.....	94	16,833	93	72,413,047	94	161,565,076	86	89,152,629	75
Instruments, professional and scientific.....	276	16,876	94	28,411,430	154	89,740,399	128	61,334,939	104
Cash registers and adding, calculating, and card-tabulating machines.....	46	16,840	95	10,766,013	225	110,000,086	113	99,234,973	68
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	476	16,660	96	29,981,527	151	74,828,981	139	44,847,454	121
Hats, fur-felt.....	159	16,539	97	55,298,045	108	102,004,165	123	46,706,120	118
Concrete products.....	2,438	16,505	98	34,035,184	138	92,900,749	126	58,865,565	108
Patent or proprietary medicines and compounds.....	1,522	16,434	99	94,709,893	75	318,906,928	45	224,137,095	32
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	117	16,175	100	44,211,785	113	102,392,096	122	58,180,314	109
Oil, cake, and meal, cottonseed.....	553	15,925	101	249,010,600	38	298,373,030	48	49,356,239	116
House-furnishing goods, not elsewhere classified.....	964	15,794	102	76,624,959	88	127,062,002	101	60,977,013	114
Fur goods.....	2,855	15,752	103	176,106,010	43	277,592,752	54	101,486,842	67
Cotton small wares.....	202	15,281	104	33,036,208	139	65,169,763	160	31,538,545	145
Cutlery (not including silver and plated cutlery) and edge tools.....	239	14,991	105	14,789,335	201	78,660,872	136	63,871,537	101
Aircraft and parts.....	132	14,710	106	27,368,103	157	71,152,924	144	43,784,821	123
Smelting and refining, copper.....	26	14,544	107	920,351,441	8	994,733,863	17	74,432,421	59
Cordage and twine.....	123	14,489	108	54,573,260	109	91,456,117	127	36,881,868	138
Phonographs.....	59	14,416	109	37,328,137	127	96,840,048	126	66,525,911	106
Soap.....	282	14,363	110	180,852,684	47	310,161,530	46	129,838,546	50
Sugar refining, cane.....	21	13,912	111	488,399,151	22	507,359,282	34	68,980,111	95
Corsets and allied garments.....	213	13,664	112	36,085,079	150	76,802,199	138	40,767,120	132
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	348	13,612	113	53,289,911	110	80,848,513	134	27,608,602	158
Perfumes, cosmetics, and other toilet preparations.....	815	13,109	114	58,298,870	104	193,440,550	73	135,141,671	51
Wood preserving.....	199	13,077	115	147,792,724	55	190,944,645	75	48,241,921	124
Caskets, coffins, burial cases, and other morticians' goods.....	414	13,033	116	39,350,294	123	88,281,872	129	48,931,578	117
Photographic apparatus and materials.....	115	12,967	117	30,392,581	149	102,827,356	119	72,434,855	93
Photo-engraving, not done in printing establishments.....	654	12,353	118	11,003,121	222	77,832,259	137	66,379,138	100
Bags, other than paper, not made in textile mills.....	202	11,828	119	144,275,477	56	170,175,893	83	25,900,416	163
Smelting and refining, zinc.....	30	11,618	120	74,700,088	90	118,901,070	109	44,140,982	122
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	50	11,417	121	70,120,941	97	124,658,966	103	54,538,025	112
Trunks, suitcases, and bags.....	467	11,359	122	31,693,935	146	63,968,929	153	32,274,964	144
Stationery goods, not elsewhere classified.....	203	11,078	123	32,177,887	142	74,062,047	140	41,884,160	128
Locomotives, not made in railroad repair shops.....	16	11,045	124	62,808,092	111	83,858,258	132	31,050,166	149
Tobacco: Chewing and smoking, and snuff.....	152	10,811	126	72,494,329	93	179,332,951	78	106,838,622	64
Sporting and athletic goods, not including firearms or ammunition.....	242	10,793	126	24,482,236	168	58,288,728	160	33,806,492	142
Motion pictures, not including projection in theaters.....	142	10,784	127	36,441,025	126	134,102,419	76	145,661,394	48
Watches and watch movements.....	8	10,738	128	10,455,921	281	34,370,399	202	23,914,478	169
Plated ware.....	96	10,728	129	16,760,985	192	55,429,959	163	38,678,074	134
Cooperage.....	536	10,691	130	41,515,500	116	64,841,788	151	32,328,288	174
Druggists' preparations.....	429	10,688	131	43,775,986	114	124,778,487	102	81,002,501	84
Food preparations, not elsewhere classified.....	802	10,616	132	96,387,639	73	171,860,987	82	75,473,348	87
Sewing machines and attachments.....	39	10,467	133	16,458,425	193	45,094,600	180	28,636,175	156
Pocketbooks, purses, and cardcases.....	290	10,430	134	35,351,605	133	68,627,615	143	33,276,910	143
Clocks, clock movements, time-recording devices, and time stamps.....	56	10,401	135	10,675,113	227	42,165,875	185	31,490,762	146
Boot and shoe findings, not made in boot and shoe factories.....	332	10,376	136	31,904,401	144	58,625,445	159	28,661,044	160
Envelopes.....	171	10,367	137	29,927,693	152	61,286,902	156	31,359,309	148
Feeds, prepared, for animals and fowls.....	750	10,223	138	327,919,743	34	402,752,534	41	74,832,791	88
Engraving, steel and copperplate, and plate printing.....	456	10,180	139	11,864,764	217	47,161,641	171	35,296,877	140
All other industries (reporting less than 10,000 wage earners), total	27,172	687,157		3,894,196,056		6,655,289,782		2,761,093,726	

GENERAL SUMMARY

TABLE 7.—ESTIMATED NET VALUE OF MANUFACTURED PRODUCTS, BY INDUSTRY GROUPS: 1929

[While the net-value figure in the final column for "All groups" represents the value of all the finished products of industry, the 16 items for the individual industry groups which together make up the total net value of products do not represent exactly the values of completely-manufactured products for the respective groups. For example: To arrive at the value of "Food and kindred products" ready for ultimate consumption it would be necessary to add to the \$9,682,000 items an estimated cost of containers obtained from other industry groups. On the other hand, for the "Rubber products" group it would be necessary to deduct from the gross-value figure the estimated value of rubber semifinished products, such as tires sold for initial installation on motor vehicles. For method of computing net value, see GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products, p. 6.]

INDUSTRY GROUP	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY					VALUE OF PRODUCTS	
	Total	Fuel and purchased energy		Raw materials and imported semifinished products	Domestic semifinished products	Gross	Net
		Coal, natural gas, and purchased energy	Manufactured fuels				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
All groups.....	\$38,549,579,732	\$1,298,310,367	\$567,846,352	\$14,531,000,000	\$22,152,000,000	\$70,434,863,443	\$47,243,000,000
Food and kindred products.....	8,632,282,857	134,218,841	27,224,952	6,156,000,000	2,315,000,000	12,023,589,289	9,682,000,000
Textiles and their products.....	5,103,845,724	109,173,983	11,030,830	1,907,000,000	3,075,000,000	9,243,302,523	5,854,000,000
Forest products.....	1,586,182,953	31,219,400	4,591,249	295,000,000	1,255,000,000	3,501,765,000	2,332,000,000
Paper and allied products.....	1,032,722,103	75,131,224	6,564,567	319,000,000	692,000,000	1,892,251,148	1,194,000,000
Printing, publishing, and allied industries.....	708,483,548	22,147,106	3,583,053	157,000,000	584,000,000	3,170,139,651	2,412,000,000
Chemicals and allied products.....	1,970,713,269	84,474,662	14,962,658	827,000,000	1,050,000,000	3,750,404,640	2,695,000,000
Products of petroleum and coal.....	2,546,840,193	294,764,176	108,461,352	1,895,000,000	248,000,000	3,647,747,957	3,291,000,000
Rubber products.....	578,677,681	19,067,788	608,587	211,000,000	348,000,000	1,117,460,252	709,000,000
Leather and its manufactures.....	1,131,941,963	13,181,407	596,494	343,000,000	775,000,000	1,905,976,775	1,130,000,000
Stone, clay, and glass products.....	526,339,979	138,813,944	18,716,826	219,000,000	150,000,000	1,561,414,590	1,303,000,000
Iron and steel and their products, not including machinery.....	3,862,873,486	160,994,501	290,133,846	760,000,000	2,640,000,000	7,137,928,058	4,202,000,000
Nonferrous metals and their products.....	2,465,444,198	43,503,400	21,281,525	825,000,000	1,576,000,000	3,697,057,717	2,000,000,000
Machinery, not including transportation equipment.....	2,694,379,629	78,113,499	32,183,361	54,000,000	2,630,000,000	7,043,380,800	4,481,000,000
Transportation equipment, air, land, and water.....	3,683,148,078	41,153,215	12,803,003	4,000,000	3,625,000,000	6,047,209,390	2,409,000,000
Railroad repair shops.....	548,343,505	20,078,923	4,504,808	---	517,000,000	1,269,916,839	748,000,000
Miscellaneous industries.....	1,359,360,506	19,683,333	3,092,841	564,000,000	772,000,000	3,424,319,134	2,651,000,000

¹ Amount deducted, \$302,059,330, representing cost of contract work.
² Contains \$38,263,293, which represents the cost of crude oil used as fuel.

² Amount deducted, \$169,898,005, representing cost of contract work.

TABLE 8.—SUMMARY BY GROUPS OF INDUSTRIES: 1914 TO 1929

[Includes, for 1919 and 1914, data for establishments reporting products valued at less than \$5,000. (See GENERAL EXPLANATIONS—Establishments Covered—Size.) The totals for all groups and the figures for Group 1 for years prior to 1927 as given in this summary differ from those published in the report for 1927 because of the inclusion in this table, but not in the corresponding table in the report for 1927, of data for the "Poultry killing and dressing" industry for 1925 and earlier years. The figures for 1927, and in most cases those for earlier years, for Groups 1, 3, 4, 5, 11, 12, 13, and 16 differ from those published in the 1927 report. The reasons for these differences are given in the introductory text for the respective groups, Chapter VIII. See GENERAL EXPLANATIONS—Changes in Groups, Industry Titles, and Classifications, p. 9.]

GROUP	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹	Horsepower
All groups, total.....	1920	210,959	8,838,743	\$11,620,973,254	\$38,549,579,732	\$70,434,863,443	\$31,885,233,711	42,931,061
	1927	191,863	8,349,755	10,848,802,632	35,133,130,889	62,718,347,289	27,585,210,400	38,825,681
	1925	187,390	8,384,261	10,729,968,927	35,935,647,704	62,713,713,730	26,778,066,026	35,772,628
	1923	196,309	8,778,156	11,009,297,726	34,705,697,749	60,555,998,200	25,850,300,451	33,094,228
	1921	196,287	6,946,570	8,202,324,339	25,321,055,346	43,653,222,833	18,332,227,437	(?)
	1910	274,598	9,041,311	10,481,786,869	37,288,731,430	62,193,426,614	24,904,695,184	20,327,669
	1914	272,518	7,023,685	4,067,718,740	14,358,935,014	24,216,514,873	9,857,570,569	22,200,899
1. Food and kindred products.....	1920	56,320	753,247	902,142,970	8,632,282,857	12,023,589,289	3,391,306,432	4,607,013
	1927	49,787	679,520	823,387,583	8,113,432,583	11,015,860,010	2,902,427,427	4,134,973
	1925	48,113	664,760	793,680,786	7,748,677,877	10,418,536,301	2,609,858,424	3,881,952
	1923	51,847	682,137	795,671,072	6,990,846,444	9,524,050,759	2,533,204,315	3,723,025
	1921	52,113	626,618	746,260,284	6,122,932,791	8,267,129,504	2,144,106,773	(?)
	1910	69,423	733,664	774,723,835	10,252,630,856	12,748,348,465	2,495,717,009	3,203,106
	1914	67,403	536,436	303,841,625	3,907,186,447	4,977,760,917	1,070,574,470	2,503,932
2. Textiles and their products.....	1920	27,404	1,707,798	1,733,031,423	5,103,845,724	9,243,302,523	4,139,456,799	4,145,998
	1927	26,843	1,694,416	1,759,958,139	4,922,715,868	8,950,472,873	4,027,767,005	4,173,438
	1925	24,450	1,628,283	1,654,814,276	5,349,924,770	9,126,154,902	3,776,230,132	3,986,522
	1923	26,783	1,715,293	1,743,797,717	5,894,441,315	9,402,281,966	4,067,840,651	3,783,401
	1921	25,955	1,509,738	1,472,352,098	5,801,090,387	6,956,464,963	3,155,374,576	(?)
	1910	28,451	1,610,003	1,481,142,946	5,379,387,636	9,210,932,957	3,831,545,321	3,248,364
	1914	23,360	1,505,912	676,781,743	2,013,737,838	3,444,310,423	1,431,072,585	2,717,078
3. Forest products.....	1920	26,912	876,383	939,382,973	1,586,182,953	3,591,765,000	2,005,582,137	3,674,204
	1927	20,169	864,508	931,020,537	1,636,647,040	3,462,925,107	1,826,278,127	3,332,457
	1925	21,026	921,266	978,472,291	1,725,350,920	3,689,126,705	1,963,775,785	3,472,970
	1923	21,678	931,816	962,694,530	1,666,395,023	3,633,385,573	1,966,990,550	3,336,236
	1921	21,398	708,360	670,461,643	1,197,627,939	2,456,857,043	1,259,220,104	(?)
	1910	41,201	804,001	859,872,003	1,368,341,322	3,113,460,426	1,745,119,104	3,409,746
	1914	43,466	865,294	446,397,411	765,935,795	1,616,452,752	880,516,957	3,176,436
4. Paper and allied products.....	1920	3,126	233,393	287,330,792	1,092,722,103	1,892,251,148	799,529,045	3,166,804
	1927	2,972	224,437	272,153,670	1,082,363,311	1,785,997,679	703,634,368	2,818,694
	1925	2,727	221,502	263,097,369	919,657,498	1,546,814,124	627,156,626	2,574,707
	1923	2,685	219,026	250,144,000	878,763,905	1,456,970,076	578,206,081	2,313,562
	1921	2,600	184,756	202,702,800	669,070,172	1,071,800,316	402,730,144	(?)
	1910	2,677	208,115	212,724,291	720,908,211	1,250,445,203	529,536,992	1,967,446
	1914	2,452	166,752	88,844,233	314,832,826	519,689,671	204,856,846	1,697,268
5. Printing, publishing, and allied industries.....	1920	27,522	357,988	636,371,372	766,483,548	3,170,139,651	2,403,656,103	649,441
	1927	25,433	328,603	586,183,261	755,037,668	2,859,860,389	2,104,822,721	569,528
	1925	23,826	315,264	542,418,876	694,576,980	2,596,870,775	1,902,293,795	486,087
	1923	23,114	307,993	492,905,953	665,654,236	2,315,318,106	1,649,663,870	429,967
	1921	22,777	282,500	434,727,594	663,800,138	2,078,763,839	1,415,463,701	(?)
	1910	33,747	301,934	351,997,797	587,293,851	1,764,386,909	1,177,093,058	379,236
	1914	34,757	286,254	207,720,932	266,435,038	937,125,476	670,690,438	341,805

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 8.—SUMMARY BY GROUPS OF INDUSTRIES: 1914 TO 1929—Continued

[See note at head of this table]

GROUP	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹	Horsepower
6. Chemicals and allied products ² -----	1929	8, 278	280, 868	\$354, 303, 308	\$1, 970, 713, 269	\$3, 769, 404, 640	\$1, 788, 691, 371	2, 812, 295
	1927	7, 541	263, 436	317, 908, 093	1, 803, 084, 544	3, 361, 892, 059	1, 548, 807, 515	1, 848, 309
	1925	7, 282	244, 812	296, 526, 641	1, 830, 591, 898	3, 211, 230, 498	1, 380, 038, 600	1, 748, 481
	1923	7, 197	246, 527	288, 833, 729	1, 702, 944, 290	2, 938, 561, 637	1, 230, 617, 347	1, 054, 228
	1921	7, 348	169, 596	224, 332, 535	1, 352, 904, 081	2, 225, 917, 456	873, 013, 375	(3)
	1919	10, 732	329, 053	364, 884, 045	2, 269, 338, 413	3, 808, 752, 377	1, 534, 414, 324	1, 720, 621
	1914	11, 461	268, 413	184, 420, 708	1, 011, 125, 288	1, 984, 630, 406	953, 505, 118	1, 459, 062
7. Products of petroleum and coal-----	1929	1, 497	147, 216	229, 050, 010	2, 546, 840, 193	3, 647, 747, 957	1, 100, 907, 764	1, 755, 268
	1927	1, 418	141, 655	217, 485, 282	2, 262, 098, 554	3, 060, 225, 699	797, 527, 145	1, 513, 314
	1925	1, 532	136, 366	210, 033, 811	2, 356, 583, 404	3, 230, 008, 511	873, 425, 107	1, 241, 877
	1923	1, 650	138, 330	212, 881, 574	1, 981, 370, 216	2, 778, 888, 167	797, 517, 951	1, 092, 914
	1921	1, 590	115, 005	180, 452, 175	1, 760, 304, 612	2, 372, 039, 178	611, 234, 566	(3)
	1919	1, 084	131, 759	185, 599, 027	1, 635, 919, 806	2, 289, 170, 161	668, 260, 355	709, 597
	1914	1, 782	90, 882	60, 881, 700	474, 558, 358	721, 656, 198	247, 097, 340	464, 669
8. Rubber products-----	1929	525	149, 148	207, 305, 867	578, 677, 681	1, 117, 460, 252	538, 782, 571	821, 312
	1927	510	141, 997	198, 078, 743	660, 370, 200	1, 225, 077, 114	564, 706, 905	790, 622
	1925	530	141, 809	191, 285, 520	721, 729, 675	1, 260, 805, 063	539, 075, 388	659, 691
	1923	529	137, 868	182, 084, 056	501, 162, 768	968, 517, 634	457, 354, 866	605, 634
	1921	496	103, 273	123, 612, 873	377, 879, 372	704, 908, 133	327, 023, 761	(3)
	1919	477	158, 549	193, 763, 089	594, 343, 590	1, 138, 216, 019	543, 827, 429	429, 273
	1914	342	74, 022	44, 167, 402	163, 034, 713	300, 993, 796	137, 959, 083	190, 242
9. Leather and its manufactures-----	1929	4, 277	318, 415	359, 412, 972	1, 131, 941, 963	1, 905, 976, 775	774, 034, 812	436, 342
	1927	4, 265	315, 991	364, 447, 396	1, 088, 640, 717	1, 809, 305, 048	780, 664, 331	419, 591
	1925	4, 243	314, 025	356, 346, 411	1, 012, 880, 605	1, 763, 709, 361	750, 828, 756	413, 173
	1923	4, 398	344, 545	388, 630, 008	1, 083, 345, 880	1, 880, 085, 716	796, 740, 336	412, 998
	1921	4, 813	280, 071	314, 411, 672	934, 397, 705	1, 544, 185, 251	609, 787, 546	(3)
	1919	6, 397	349, 362	363, 453, 419	1, 713, 807, 336	2, 610, 230, 727	896, 423, 391	382, 537
	1914	6, 758	307, 060	169, 357, 560	753, 135, 354	1, 104, 594, 657	351, 469, 203	311, 194
10. Stone, clay, and glass products-----	1929	8, 514	328, 417	432, 817, 393	526, 339, 979	1, 561, 414, 590	1, 035, 074, 011	2, 854, 402
	1927	8, 673	350, 017	464, 272, 991	594, 774, 314	1, 612, 548, 765	1, 017, 774, 451	2, 709, 131
	1925	8, 478	353, 036	467, 012, 428	603, 426, 910	1, 640, 051, 085	1, 037, 225, 075	2, 348, 157
	1923	8, 317	351, 692	453, 567, 361	573, 472, 386	1, 563, 120, 627	980, 648, 241	1, 936, 054
	1921	8, 347	252, 990	307, 004, 599	428, 258, 061	1, 083, 091, 070	604, 832, 409	(3)
	1919	12, 599	302, 810	332, 725, 753	422, 611, 208	1, 111, 746, 070	689, 134, 862	1, 584, 917
	1914	14, 790	335, 824	206, 034, 755	240, 818, 101	618, 699, 787	377, 881, 686	1, 493, 976
11. Iron and steel and their products, not including machinery-----	1929	6, 640	880, 882	1, 390, 936, 821	3, 862, 873, 480	7, 137, 928, 058	3, 275, 054, 572	9, 200, 822
	1927	6, 340	834, 967	1, 203, 812, 344	3, 544, 615, 067	6, 197, 594, 539	2, 652, 979, 522	8, 322, 730
	1925	6, 063	860, 783	1, 238, 840, 796	3, 734, 084, 771	6, 460, 222, 488	2, 726, 137, 217	7, 518, 726
	1923	6, 353	892, 135	1, 324, 172, 787	4, 152, 741, 176	6, 827, 070, 385	2, 674, 929, 200	47, 259, 009
	1921	6, 251	571, 428	780, 875, 339	2, 140, 171, 458	3, 455, 541, 015	1, 315, 369, 587	(3)
	1919	7, 617	857, 764	1, 243, 726, 202	3, 423, 280, 065	5, 887, 843, 671	2, 464, 563, 606	6, 429, 697
	1914	6, 326	617, 776	421, 746, 126	1, 315, 690, 489	2, 137, 113, 329	821, 422, 840	4, 587, 572
12. Nonferrous metals and their products.	1929	7, 522	314, 741	443, 466, 623	2, 465, 444, 198	3, 597, 057, 717	1, 131, 613, 519	1, 570, 217
	1927	6, 761	272, 667	383, 184, 596	2, 671, 215, 469	2, 877, 107, 246	893, 893, 677	1, 226, 411
	1925	7, 006	276, 616	382, 652, 356	1, 948, 438, 054	2, 839, 550, 465	891, 112, 411	1, 162, 140
	1923	7, 501	297, 798	395, 078, 970	1, 767, 637, 612	2, 637, 159, 840	869, 522, 228	1, 171, 192
	1921	7, 863	212, 680	250, 802, 785	886, 264, 843	1, 408, 059, 444	521, 794, 601	(3)
	1919	10, 441	304, 768	349, 171, 419	1, 737, 233, 945	2, 519, 031, 512	781, 797, 567	953, 109
	1914	9, 808	239, 542	154, 579, 750	964, 555, 945	1, 329, 834, 086	365, 278, 141	550, 903
13. Machinery, not including transportation equipment-----	1929	12, 955	1, 091, 269	1, 634, 165, 729	2, 694, 379, 629	7, 043, 380, 390	4, 349, 000, 761	3, 647, 343
	1927	11, 982	883, 508	1, 284, 132, 534	2, 053, 941, 924	5, 348, 723, 728	3, 294, 781, 804	2, 995, 296
	1925	11, 807	853, 843	1, 225, 359, 140	1, 985, 367, 067	5, 020, 281, 100	3, 034, 914, 033	2, 714, 377
	1923	12, 147	907, 707	1, 253, 742, 642	1, 891, 524, 166	4, 727, 818, 290	2, 836, 294, 124	2, 300, 443
	1921	12, 395	662, 277	832, 732, 828	1, 361, 163, 280	3, 235, 074, 906	1, 873, 911, 626	(3)
	1919	14, 821	998, 484	1, 240, 436, 944	1, 973, 457, 572	4, 768, 673, 395	2, 795, 215, 873	2, 000, 325
	1914	13, 467	618, 737	412, 406, 274	662, 966, 570	1, 582, 408, 404	910, 441, 334	1, 256, 908
14. Transportation equipment, air, land, and water-----	1929	2, 550	583, 355	943, 221, 905	3, 683, 148, 078	6, 047, 209, 390	2, 364, 061, 312	2, 271, 192
	1927	2, 537	494, 905	803, 297, 856	2, 907, 949, 390	4, 693, 971, 006	1, 786, 022, 207	2, 027, 686
	1925	2, 778	559, 578	908, 487, 593	3, 389, 101, 383	5, 451, 753, 433	2, 062, 652, 050	1, 888, 991
	1923	3, 573	600, 328	963, 939, 377	3, 394, 594, 710	5, 333, 479, 375	1, 938, 974, 665	1, 624, 468
	1921	4, 273	405, 773	591, 333, 775	1, 803, 011, 413	3, 018, 154, 321	1, 215, 142, 908	(3)
	1919	6, 768	858, 582	1, 259, 014, 020	3, 200, 602, 252	5, 627, 262, 990	2, 426, 660, 738	1, 453, 804
	1914	7, 818	312, 562	230, 614, 798	639, 793, 313	1, 137, 422, 034	497, 629, 621	602, 459
15. Railroad repair shops-----	1929	2, 297	398, 166	637, 311, 434	548, 343, 555	1, 260, 916, 839	721, 573, 274	1, 153, 147
	1927	2, 809	423, 672	648, 908, 452	546, 491, 754	1, 289, 095, 159	744, 208, 404	1, 110, 821
	1925	2, 363	457, 756	668, 191, 768	569, 645, 944	1, 332, 079, 079	769, 033, 135	942, 248
	1923	2, 345	523, 430	727, 968, 122	631, 358, 483	1, 520, 002, 751	888, 734, 268	479, 005
	1921	2, 326	418, 285	671, 055, 829	506, 571, 099	1, 207, 342, 559	760, 771, 460	(3)
	1919	2, 368	515, 799	726, 990, 466	547, 828, 694	1, 354, 446, 094	806, 617, 400	644, 875
	1914	2, 011	365, 902	253, 149, 943	261, 438, 181	552, 617, 790	291, 179, 609	478, 893
16. Miscellaneous industries-----	1929	14, 620	417, 467	500, 581, 672	1, 359, 360, 506	3, 426, 319, 134	2, 066, 968, 628	664, 371
	1927	14, 320	440, 456	529, 676, 055	1, 375, 160, 493	3, 317, 090, 159	1, 938, 929, 691	837, 860
	1925	14, 210	439, 693	503, 749, 896	1, 351, 609, 943	3, 125, 318, 940	1, 773, 708, 992	732, 559
	1923	15, 439	475, 481	528, 385, 828	1, 429, 535, 549	3, 003, 597, 298	1, 674, 061, 749	701, 619
	1921	15, 762	418, 221	442, 100, 510	1, 315, 607, 395	2, 587, 958, 775	1, 242, 351, 880	(3)
	1919	25, 195	516, 754	611, 812, 383	1, 461, 746, 515	2, 995, 478, 626	1, 633, 732, 111	751, 116
	1914	29, 537	442, 317	227, 722, 928	693, 691, 216	1, 270, 703, 669	667, 012, 453	449, 612

¹ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

² Not called for on schedule.

³ The comparableness of the figures for 1914 and 1919 with those for later years is affected by the decrease in the legal manufacture of alcoholic beverages resulting from the enactment of the national prohibition act.

⁴ Revised; revision not carried into total for all groups.

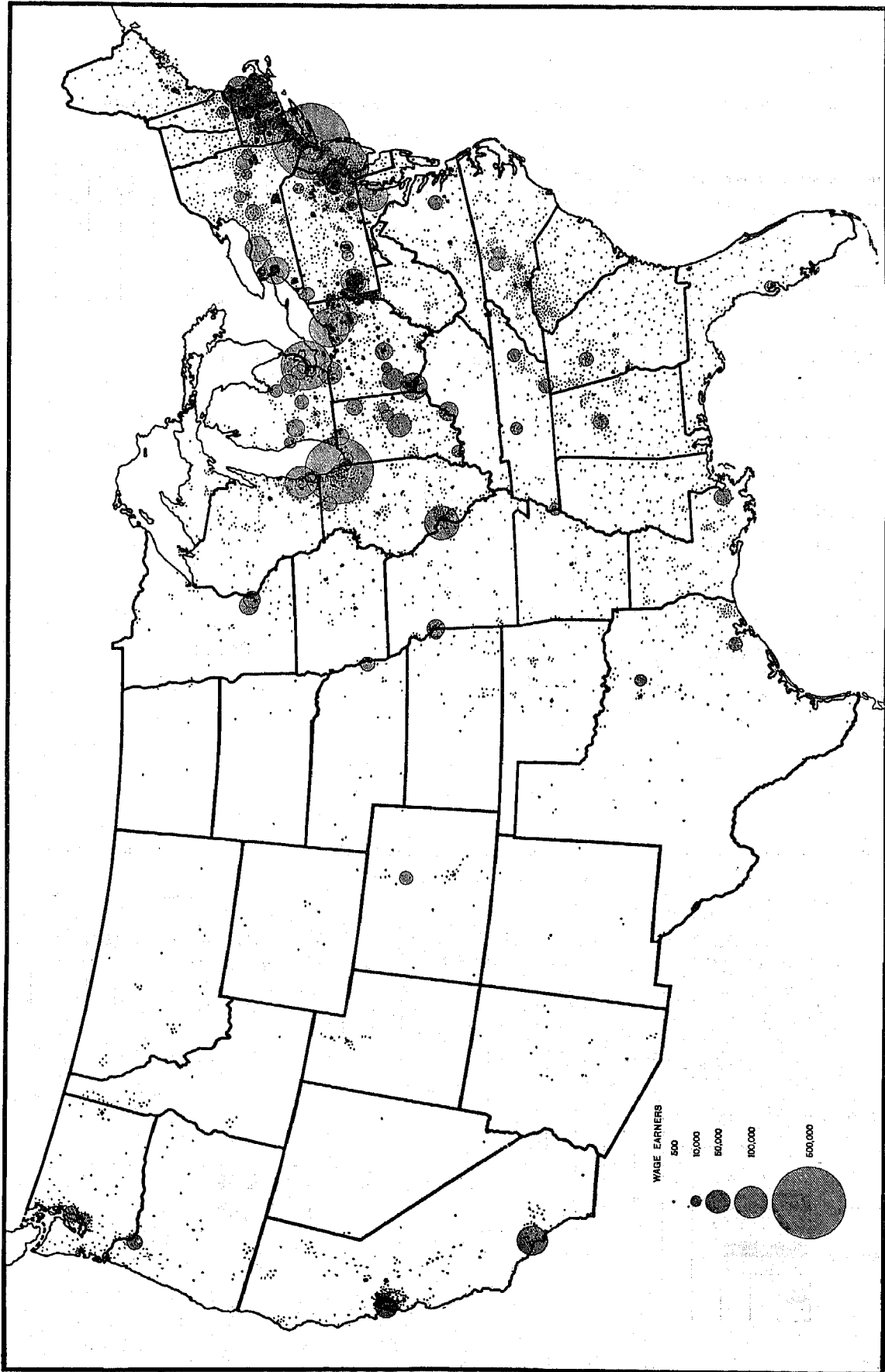


FIGURE 1.—GEOGRAPHIC DISTRIBUTION OF WAGE EARNERS IN MANUFACTURING INDUSTRIES: 1929

[Circles indicate cities reporting 10,000 or more wage earners; dots indicate other areas]

FIGURE 2.—WAGE EARNERS IN MANUFACTURES, BY INDUSTRY GROUPS: 1929 AND 1919

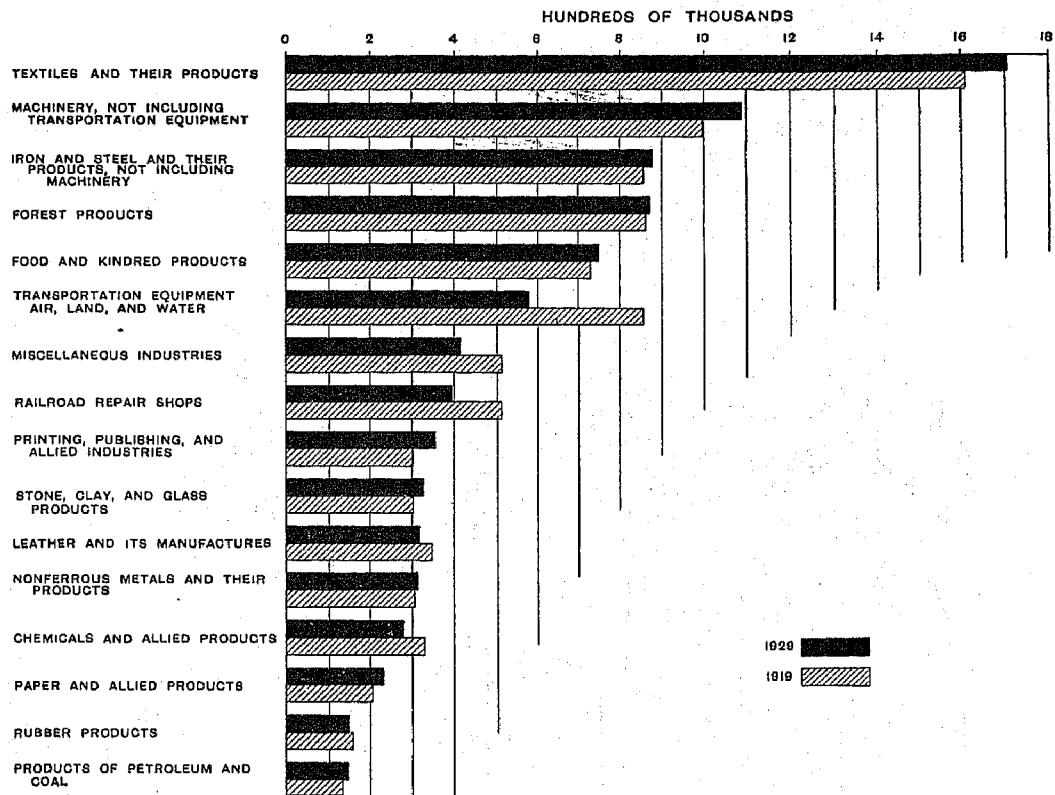


FIGURE 3.—WAGE EARNERS IN MANUFACTURING INDUSTRIES, BY GEOGRAPHIC DIVISIONS: 1929 AND 1919

