

# KENTUCKY

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers <sup>5</sup>	Fuel and purchased energy		
1929	2,246	77,825	354,740	124,381	230,359	\$88,643,650	\$286,558,766	\$253,433,621	\$13,125,145	\$502,638,722	\$236,079,950
1927	1,851	74,912	318,755	144,399	174,356	83,858,007	250,632,057	238,762,287	11,870,670	447,704,901	197,132,004
1925	1,804	70,530	257,905	119,314	138,551	84,045,670	255,108,215	(6)	(6)	453,930,575	198,828,360
1923	1,975	76,724	251,554	125,561	125,993	82,647,850	242,410,082	(6)	(6)	427,093,593	184,683,511
1921	2,038	58,840	(6)	(6)	(6)	62,655,894	173,002,059	(6)	(6)	302,741,074	129,079,615
1919	3,057	69,340	246,399	189,591	56,808	67,033,546	235,715,626	224,485,689	11,229,937	395,660,417	159,044,791
1914	4,184	64,588	237,302	217,420	20,882	31,830,283	114,529,223	110,472,943	4,356,280	230,248,909	115,419,686
1909	4,776	65,400	220,921	218,607	11,314	27,887,672	111,779,317	108,189,560	3,589,757	223,754,497	111,975,180
1904	3,734	59,794	174,134	170,260	3,874	24,438,084	86,545,464	84,121,490	2,423,974	159,753,968	73,208,504
1899	3,648	51,735	143,443	141,721	1,722	18,454,252	67,406,202	(7)	(7)	126,508,660	59,102,453
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	21.3	3.9	11.3	-13.9	32.1	5.7	6.4	6.1	10.6	12.3	19.8
1925-1927	-0.7	-2.2	23.6	21.0	25.8	-1.3	-1.8			-1.4	-0.9
1923-1925	-5.6	-0.2	2.5	-5.0	10.0	2.8	5.2			6.3	7.7
1921-1923	-3.1	30.4				31.9	39.6			41.1	43.1
1919-1921	-48.5	-15.1				-6.6	-26.3			-23.5	-19.3
1919-1929	-43.2	12.2	44.0	-34.4	305.5	32.2	13.1	12.9	16.9	27.0	47.6
1909-1919	-17.1	6.0	7.2	-13.3	402.1	140.4	110.9	107.5	212.8	76.8	42.8
1899-1909	30.9	23.4	60.3	54.3	557.0	51.1	65.8			76.9	89.5

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Includes cost of foundry supplies for 1927 and earlier years but not for 1929. See GENERAL EXPLANATIONS—Comparableness With Preceding Years—Schedule Changes—Mill or Shop Supplies.  
<sup>4</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>5</sup> Not reported separately.  
<sup>6</sup> Not called for on schedule.  
<sup>7</sup> No comparable data.



TABLE 2.—SUMMARY FOR THE CINCINNATI INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929—Con.

	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufac- ture
						Total	Materials and contain- ers	Fuel and purchased energy		
<i>Counties in Kentucky</i> —Continued										
Muhlenberg.....	37,784	14	104	1,004	\$225,673	\$329,961	\$312,612	\$17,349	\$844,763	\$514,802
Nelson.....	16,551	10	31	370	26,977	60,071	58,241	1,830	120,937	60,386
Nicholas.....	8,571	6	15	180	12,278	28,811	26,207	2,604	59,069	30,268
Ohio.....	24,469	8	21	419	18,250	87,937	84,488	2,899	164,923	77,841
Owsley.....	7,223	4	17	90	8,200	12,900	12,900	—	31,200	18,300
Pendleton.....	10,876	4	49	200	24,537	86,892	85,454	1,438	201,859	114,967
Perry.....	42,186	18	274	657	210,280	160,850	147,060	13,790	689,027	528,177
Pike.....	63,267	38	277	1,479	239,878	451,080	433,455	17,625	1,046,775	506,715
Pulaski.....	35,040	40	709	3,307	924,735	1,061,592	977,593	84,089	2,444,654	1,383,062
Rockcastle.....	15,149	5	41	187	22,079	77,701	70,459	7,242	126,438	48,737
Rowan.....	10,893	9	408	1,779	505,387	328,861	170,100	149,761	1,091,310	762,449
Russell.....	11,939	3	5	81	2,500	14,500	14,500	—	23,000	8,500
Scott.....	14,400	6	25	179	27,445	163,397	161,299	2,098	242,105	78,708
Shelby.....	17,679	8	33	360	33,638	153,815	145,259	13,556	312,147	163,332
Simpson.....	11,336	10	165	348	71,176	154,515	146,901	7,614	344,536	190,021
Taylor.....	12,047	11	56	628	50,960	248,089	242,214	5,875	425,884	177,705
Trigg.....	12,831	10	124	878	92,190	181,006	179,637	1,459	373,380	192,284
Union.....	17,053	9	44	481	28,278	148,636	143,344	5,292	285,158	136,622
Warren.....	33,876	25	441	2,818	439,623	1,255,154	1,188,581	66,573	2,515,785	1,260,631
Washington.....	12,623	6	16	334	15,861	268,714	263,827	4,887	343,556	74,842
Wayne.....	15,848	12	103	593	77,093	152,683	152,033	650	349,818	197,135
Webster.....	20,534	6	19	300	14,165	46,883	45,911	972	98,451	51,568
Whitley.....	29,730	12	1,301	1,318	2,028,269	703,623	710,162	53,461	3,012,754	2,249,131
Woodford.....	10,981	5	18	161	21,484	70,228	75,892	3,336	145,873	66,646
All other counties <sup>3</sup>	185,120	66	860	4,539	853,747	2,098,779	2,075,875	22,904	3,757,588	1,658,809
<i>Cities having 10,000 inhabitants or more</i> <sup>4</sup>										
Bowling Green.....	12,348	18	380	2,283	394,093	733,975	674,285	59,690	1,733,305	999,330
Covington.....	65,252	111	3,451	7,336	4,728,141	7,926,747	7,610,966	315,781	19,393,007	11,466,260
Frankfort.....	11,626	24	1,397	1,439	811,781	2,415,033	2,363,753	51,280	4,228,574	1,813,541
Henderson.....	11,668	18	956	4,978	736,479	2,360,247	2,278,522	81,725	4,118,016	1,768,669
Hopkinsville.....	10,746	22	430	2,319	322,800	2,630,644	2,576,093	54,551	3,657,166	1,026,522
Louisville <sup>5</sup>	307,745	693	35,835	119,935	41,072,459	140,534,238	137,285,686	3,248,552	270,925,614	130,391,376
Middlesborough.....	10,350	15	700	1,195	450,404	2,802,443	2,757,864	44,579	3,767,102	964,659
Newport.....	29,744	46	2,402	11,088	3,489,221	11,750,985	11,254,149	496,836	19,895,958	8,144,973
Owensboro.....	22,765	51	1,771	6,706	1,449,094	5,870,457	5,712,791	157,666	10,899,976	5,029,519
Paducah.....	33,541	63	3,023	8,288	3,887,438	8,136,986	7,850,787	280,199	16,071,760	7,934,774

<sup>1</sup> Not including salaried employees.

<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

<sup>3</sup> The Cincinnati Industrial Area comprises Campbell and Kenton Counties, Kentucky, and Butler and Hamilton Counties, Ohio.

<sup>4</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately. In the case of Russell County, in which fewer than 10 wage earners were employed, statistics are here presented in order that comparison may be made with the corresponding figures for 1927 (published in mimeographed form).

<sup>5</sup> For statistics by industries for this county, see Table 13.

<sup>6</sup> Bath, Boone, Cumberland, Gallatin, Grant, Hancock, Henry, Livingston, McCreary, Magoffin, Martin, Menfee, Oldham, Owen, Powell, Robertson, Spencer, Todd, Trimble, and Wolfe Counties. (See footnote 4.) No manufacturing reported from Elliott County.

<sup>7</sup> Not including Ashland, Fort Thomas, and Lexington, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments located either in the cities or outside the cities but within the counties in which the cities are situated.

<sup>8</sup> Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the leading industries—"Plumbers' supplies, not including pipe or vitreous-china sanitary ware," as measured by number of wage earners, and "Motor vehicles, not including motorcycles," as measured by value of products—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	89,958	74,338	15,620	1,375	1,341	34	21,538	21,429	109	20,220	26,805	2,415	77,825	64,763	13,062
1919 <sup>1</sup>	83,954	70,676	13,278	4,003	3,850	153	1,486	1,426	60	9,125	8,816	2,308	69,340	58,584	10,756
1914 <sup>1</sup>	77,865	67,521	10,344	4,148	4,002	146	1,272	1,235	37	7,859	8,503	1,356	64,686	55,781	8,905
1909 <sup>1</sup>	79,060	67,860	11,200	5,650	4,893	157	1,304	1,274	30	7,806	6,057	1,240	65,400	55,636	9,764

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 105; male, 99; female, 6. Other salaried officers and employees—total, 330; male, 210; female, 120. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	77,825	75,414	77,444	78,475	78,059	78,513	78,980	79,324	80,837	81,732	78,728	74,571	<i>71,825</i>	87.9
1919 <sup>1</sup>	69,340	66,495	66,213	66,869	66,756	66,268	<i>65,941</i>	67,882	69,414	72,032	74,002	74,520	75,688	87.1
1914 <sup>1</sup>	64,586	63,088	63,832	65,834	66,072	65,995	65,033	65,207	66,145	66,067	64,742	61,931	<i>60,486</i>	91.4
1909 <sup>1</sup>	65,400	<i>61,110</i>	62,345	63,728	64,826	64,754	63,767	63,144	65,853	68,637	69,478	68,639	68,510	88.0

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	2,246	77,825	45 and over but under 48	63	2,007
Not reported	593	1,770	48	291	18,677
Under 40	52	378	Over 48 but under 54	322	20,162
40	35	1,954	54	130	4,139
Over 40 but under 44	7	7	Over 54 but under 60	236	19,814
44 and over but under 45	166	2,497	60 and over	351	6,411

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments	2,246	3,957	4,776	77,825	69,340	65,400	51 to 100	120	128	153	8,179	9,120	11,080
No wage earners	44	498	403				101 to 250	98	105	77	15,102	16,287	11,851
1 to 5	1,221	2,353	2,800	3,568	5,270	6,875	251 to 500	26	19	25	9,225	6,357	7,970
6 to 20	459	600	941	5,433	6,682	9,849	501 to 1,000	18	12	5	12,534	7,362	3,162
21 to 50	222	285	309	7,374	7,668	9,700	1,001 to 2,500	5			6,369		
							2,501 and over	3	6	3	10,041	10,614	4,914



TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	2,246	3,957	4,776	77,825	69,340	65,400	\$502,638,722	\$395,690,417	\$223,754,497	\$236,079,956	\$159,944,791	\$111,975,180
Less than \$5,000.....	( <sup>2</sup> )	1,100	2,200	( <sup>2</sup> )	1,149	4,857	( <sup>2</sup> )	3,070,593	5,170,841	( <sup>2</sup> )	1,831,236	3,387,013
\$5,000 to \$19,999.....	980	1,323	1,200	2,900	3,938	7,253	10,146,307	13,986,516	12,706,373	6,126,633	7,211,551	7,165,457
\$20,000 to \$99,999.....	720	912	781	7,367	9,077	13,810	34,120,513	41,839,465	35,218,448	19,010,570	18,247,170	15,769,584
\$20,000 to \$49,999.....	430	( <sup>3</sup> )	( <sup>3</sup> )	2,981	( <sup>3</sup> )	( <sup>3</sup> )	13,770,827	( <sup>3</sup> )	( <sup>3</sup> )	7,944,047	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	290	( <sup>3</sup> )	( <sup>3</sup> )	4,386	( <sup>3</sup> )	( <sup>3</sup> )	20,349,686	( <sup>3</sup> )	( <sup>3</sup> )	11,066,523	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	372	369		17,187	17,507		87,666,644	82,666,128		45,229,768	37,695,119	
\$100,000 to \$249,999.....	223	( <sup>3</sup> )		7,160	( <sup>3</sup> )		36,957,808	( <sup>3</sup> )		19,482,635	( <sup>3</sup> )	
\$250,000 to \$499,999.....	144	( <sup>3</sup> )	386	10,037	( <sup>3</sup> )	20,105	50,708,836	( <sup>3</sup> )	108,403,915	25,747,133	( <sup>3</sup> )	56,024,930
\$500,000 to \$999,999.....	79	85		9,269	9,356		55,274,926	59,419,009		20,384,746	24,800,347	
\$1,000,000 and over.....	95	72	29	41,102	28,313	10,376	315,430,242	194,678,736	92,164,920	139,328,239	70,159,368	29,628,100
\$1,000,000 to \$2,499,999.....	59	( <sup>3</sup> )	( <sup>3</sup> )	14,110	( <sup>3</sup> )	( <sup>3</sup> )	86,841,035	( <sup>3</sup> )	( <sup>3</sup> )	35,146,646	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	23	( <sup>3</sup> )	( <sup>3</sup> )	9,148	( <sup>3</sup> )	( <sup>3</sup> )	80,735,524	( <sup>3</sup> )	( <sup>3</sup> )	28,254,604	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	13	( <sup>3</sup> )	( <sup>3</sup> )	17,844	( <sup>3</sup> )	( <sup>3</sup> )	147,853,683	( <sup>3</sup> )	( <sup>3</sup> )	75,926,989	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	2,246	3,957	77,825	69,340	\$502,638,722	\$395,690,417	\$236,079,956	\$159,944,791
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1,054	1,160	71,433	59,897	469,603,405	338,646,078	219,968,008	138,048,865
Other forms of ownership or control (individual, partnership, etc.).....	1,192	2,807	6,392	10,443	32,945,317	57,013,439	16,111,948	21,906,926
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	274	( <sup>1</sup> )	39,108	( <sup>1</sup> )	246,041,710	( <sup>1</sup> )	118,045,985	( <sup>1</sup> )
Independent (single-unit).....	1,972	( <sup>1</sup> )	38,717	( <sup>1</sup> )	256,597,012	( <sup>1</sup> )	117,433,971	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR INDUSTRIAL AREAS AND IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY													
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy		ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING	
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number	Horsepower		
Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	
The State:														
1929.....	354,740	124,881	1,166	88,911	63	29,415	134	4,852	24	1,203	21,251	230,350	3,005	44,107
1927.....	318,755	144,899	832	83,796	40	52,201	237	6,820	31	1,522	16,796	174,350	3,836	45,410
1925.....	257,965	119,314	873	91,957	35	18,941	226	6,664	34	1,852	11,989	138,651	4,437	43,913
1919 <sup>1</sup> .....	249,399	189,691	2,001	159,647	58	15,663	733	10,623	123	3,758	6,187	56,808	2,429	37,572
1914 <sup>1</sup> .....	237,802	217,420	3,155	206,871	( <sup>2</sup> )	( <sup>2</sup> )	531	6,581	129	3,968	3,097	20,382	2,004	28,785
Cincinnati Industrial Area, total.....	475,196	190,704	484	115,165	85	67,961	88	4,205	7	3,283	33,327	284,492	12,275	140,886
Portion in Kentucky.....	39,048	17,789	33	9,455	6	7,760	11	574			2,274	21,259	626	7,571
Portion in Ohio.....	436,148	172,915	451	105,710	79	60,201	77	3,721	7	3,283	31,053	263,233	11,649	133,315
Counties in which aggregate horsepower exceeded 25,000: 1929														
Boyd.....	83,032	8,524	49	7,874	6	399	8	251			1,202	74,508	95	1,327
Campbell.....	29,285	16,240	7	8,370	3	7,510	3	360			1,141	13,045	572	7,022
Jefferson.....	137,631	42,406	263	26,646	39	15,667	7	93	1	( <sup>2</sup> )	12,462	95,225	2,380	27,861

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

<sup>4</sup> Item for water wheels and water turbines included with that for steam engines to avoid disclosing data for a single establishment.

## CENSUS OF MANUFACTURES: 1929

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

[This table presents statistics for each county for which separate figures are given in Table 2. See footnotes 4 and 6 on that table.]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	354,740	124,381	230,359	44,197	Kenton.....	9,763	1,549	8,214	549
Adair.....	560	560		(?)	Knott.....	243	236	7	
Allen.....	559	551	8		Knox.....	814	735	79	
Anderson.....	337	55	282		Larue.....	150	144	6	
Ballard.....	290	265	25		Laurel.....	314	226	88	
Barren.....	914	618	296		Lawrence.....	139	75	64	
Bell.....	1,554	717	837		Lee.....	331	300	31	
Bourbon.....	358	165	193		Leslie.....	117	117		
Boyd.....	83,032	8,524	74,508	1,327	Letcher.....	495	264	231	
Boyle.....	632	332	300		Lewis.....	581	459	122	(?)
Bracken.....	363	117	246		Lincoln.....	304	160	144	
Breathitt.....	95	85	10		Logan.....	791	736	55	
Breckinridge.....	1,089	921	168	683	Lyon.....	228	100	128	
Bullitt.....	230	165	65	160	McCracken.....	8,365	3,940	4,425	35
Butler.....	91				McLean.....	677	672	5	
Caldwell.....	777	342	435		Madison.....	596	349	247	
Calloway.....	1,192	766	426		Marion.....	870	400	419	250
Campbell.....	29,285	16,240	13,045	7,022	Marshall.....	224	104	60	
Carlisle.....	262	262	(?)		Mason.....	2,144	805	1,339	208
Carroll.....	577	320	257	320	Meade.....	332	332		
Carter.....	3,442	616	2,826	(?)	Mercer.....	354	88	266	
Casey.....	252	245	7		Metcalf.....	262	262		
Christian.....	2,903	2,269	644	421	Monroe.....	488	488		
Clark.....	1,148	465	683		Montgomery.....	189	75	114	
Clay.....	458				Morgan.....	90	87	3	
Clinton.....	120	120			Muhlenberg.....	1,004	384	620	
Crittenden.....	273	258	16		Nelson.....	370	310	60	
Davless.....	8,107	3,171	4,936	1,064	Nicholas.....	180	50	130	
Edmonson.....	127	125	2		Ohio.....	419	395	24	48
Estill.....	925	755	170	576	Owsley.....	90	90		
Fayette.....	3,430	234	3,196		Pendleton.....	200	190	10	
Fleming.....	281	226	55		Perry.....	657	262	395	
Floyd.....	210	171	39		Pike.....	1,479	1,323	156	
Franklin.....	2,066	865	1,201		Pulaski.....	3,307	1,824	1,483	416
Fulton.....	2,563	2,051	512	660	Rockcastle.....	187	146	41	
Garrard.....	217	92	125		Rowan.....	1,779	886	893	46
Graves.....	2,413	1,794	619	698	Russell.....	81	81		22
Grayson.....	302	260	42		Scott.....	179	165	14	
Green.....	262	186	76		Shelby.....	360	265	95	
Greenup.....	3,413	845	2,568	70	Simpson.....	348	137	211	(?)
Hardin.....	635	405	230	(?)	Taylor.....	628	312	316	
Harlan.....	655	475	210		Trigg.....	878	781	147	
Harrison.....	241	75	166		Union.....	481	301	180	
Hart.....	231	153	73		Warren.....	2,818	1,720	1,098	145
Henderson.....	5,791	4,325	1,466	1,100	Washington.....	334	230	104	
Hickman.....	208	100	48		Wayne.....	593	593	(?)	
Hopkins.....	1,398	872	526		Webster.....	300	288	12	
Jackson.....	623	623		(?)	Whitley.....	1,318	452	866	
Jefferson.....	137,631	42,406	95,225	27,861	Woodford.....	161	145	16	
Jessamine.....	393	75	318		All other counties.....	4,539	4,240	299	510
Johnson.....	185	172	13	(?)					

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.<sup>2</sup> Included in total for State but not shown separately to avoid disclosing data for a single establishment.<sup>3</sup> Item for electric motors included with that for prime movers to avoid disclosing data for a single establishment.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
<b>Fuel:</b>							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	2, 019, 263	\$5, 665, 104	2, 227, 486	2, 268, 129	2, 202, 449	2, 076, 405	1, 467, 203
Anthracite (tons, 2,240 pounds).....	9, 484	40, 572	( <sup>3</sup> )	17, 212	1, 596	2, 670	2, 207
Bituminous (tons, 2,000 pounds).....	2, 008, 641	5, 624, 532	( <sup>3</sup> )	2, 248, 862	2, 200, 661	2, 073, 415	1, 464, 781
Coke (tons, 2,000 pounds).....	259, 477	1, 134, 811	( <sup>4</sup> )	( <sup>4</sup> )	252, 519	190, 235	193, 238
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	27, 655, 917	842, 834	( <sup>6</sup> )	( <sup>6</sup> )	3, 455, 928		
Gasoline and kerosene (gallons) <sup>5</sup> .....	190, 855	31, 028	( <sup>6</sup> )	( <sup>6</sup> )	542, 472	2, 539, 110	6, 570, 816
Gas, natural (M cubic feet).....	5, 142, 483	1, 824, 640	( <sup>6</sup> )	( <sup>6</sup> )			
Gas, manufactured (M cubic feet).....	5, 569, 193	622, 382	( <sup>6</sup> )	( <sup>6</sup> )	3, 602, 772	2, 608, 215	2, 203, 014
Other fuels.....		122, 822	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Electric energy purchased (kilowatt-hours).....	271, 700, 501	3, 899, 653	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
<b>Total cost of fuel and purchased energy.....</b>		<b>\$13, 643, 274</b>	<b>Cost</b> <b>\$11, 870, 670</b>	<b>Cost</b> <b>(<sup>6</sup>)</b>	<b>Cost</b> <b>\$11, 229, 937</b>	<b>Cost</b> <b>\$4, 356, 280</b>	<b>Cost</b> <b>\$3, 589, 757</b>

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.

<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

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

<sup>4</sup> No data.

<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.

<sup>6</sup> Data incomplete.

<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.

<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	2, 246	\$10, 758	77, 825	124, 381	230, 359	\$24, 979, 014	\$88, 643, 659	\$253, 433, 021	\$18, 125, 145	\$502, 638, 722	\$236, 079, 956
Awnings, tents, sails, and canvas covers.....	9	17	58		45	28, 784	55, 460	137, 786	2, 597	319, 692	179, 300
Beverages.....	80	149	535	889	894	325, 885	593, 334	1, 677, 542	57, 957	4, 622, 443	2, 086, 044
Bookbinding and blank-book making.....	5	11	39		32	22, 151	32, 421	19, 835	1, 092	113, 092	91, 775
Boots and shoes, other than rubber.....	6	135	2, 438		1, 022	229, 167	1, 780, 856	4, 441, 941	46, 195	7, 056, 878	3, 468, 742
Boxes, wooden, except cigar boxes.....	7	52	614	478	1, 982	111, 412	503, 336	1, 321, 231	31, 300	2, 471, 759	1, 119, 228
Bread and other bakery products.....	171	188	1, 620	69	3, 298	312, 314	1, 985, 580	5, 258, 740	196, 752	10, 205, 588	4, 750, 066
Brooms.....	13	32	294		171	58, 540	170, 073	618, 507	9, 194	1, 061, 862	433, 661
Butter.....	21	138	283	1, 005	2, 734	277, 188	333, 987	8, 119, 604	77, 685	10, 203, 676	2, 006, 887
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces.....	35	143	893	1, 201	639	269, 063	519, 831	3, 524, 758	45, 546	5, 320, 804	1, 750, 500
Car and general construction and repairs, steam-railroad repair shops.....	27	731	12, 723	7, 790	11, 029	1, 764, 726	19, 327, 420	11, 192, 463	660, 236	33, 054, 363	21, 211, 614
Carriage, wagon, sleigh, and sled materials.....	4	4	54	495	5	8, 100	30, 488	63, 835	1, 288	139, 746	74, 623
Carriages, wagons, sleighs, and sleds.....	4	21	131	800	56	39, 854	127, 308	255, 291	19, 074	566, 719	292, 354
Caskets, coffins, burial cases, and other morticians' goods.....	7	38	172		77	98, 309	198, 176	319, 941	12, 062	918, 334	586, 331
Cigars and cigarettes.....	18	117	2, 284	150	1, 601	288, 012	1, 353, 517	8, 064, 417	44, 350	25, 917, 627	17, 808, 860
Clay products (other than pottery) and nonclay refractories.....	39	194	2, 481	4, 704	6, 575	470, 204	2, 593, 852	1, 195, 561	919, 767	7, 407, 314	5, 291, 986
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	24	135	2, 186	575	356	322, 235	1, 603, 550	3, 731, 734	38, 061	7, 446, 096	3, 676, 901
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	5	43	914		171	76, 046	440, 368	1, 421, 181	11, 540	2, 180, 474	727, 753
Coffee and spice, roasting and grinding.....	13	61	104	16	460	104, 456	105, 888	2, 267, 023	11, 529	2, 884, 292	1, 098, 926
Concrete products.....	30	37	127	74	654	80, 221	145, 912	246, 743	10, 968	751, 640	493, 929
Confectionery.....	19	57	371	250	441	83, 493	295, 416	853, 952	21, 116	1, 672, 233	797, 165
Cooperage.....	8	25	408	650	476	59, 666	327, 732	1, 392, 526	9, 273	2, 039, 035	687, 236
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	22	113	278		1, 528	248, 592	422, 901	3, 588, 198	26, 292	4, 997, 315	1, 882, 826
Cordage and twine.....	6	32	652	825	1, 805	91, 921	438, 650	1, 276, 699	51, 187	2, 426, 812	1, 098, 926
Cotton goods.....	6	38	1, 214	3, 589	2, 453	131, 681	780, 542	2, 754, 347	96, 190	4, 082, 728	1, 232, 191
Electrical machinery, apparatus, and supplies.....	15	173	1, 031	50	1, 691	347, 556	865, 095	2, 178, 321	58, 595	6, 471, 539	4, 234, 623
Electroplating.....	5	4	41	25	161	5, 054	62, 437	18, 639	5, 515	121, 767	97, 613
Engraving, steel and copperplate, and plate printing.....	9	52	181		86	107, 860	169, 353	302, 828	3, 404	801, 684	495, 452
Fancy and miscellaneous articles, not elsewhere classified.....	5	22	162	12	72	56, 561	118, 570	259, 175	4, 230	526, 495	268, 080
Feeds, prepared, for animals and fowls.....	9	49	133	75	2, 730	121, 853	148, 725	3, 960, 079	39, 096	4, 665, 480	666, 305
Flour and other grain-mill products.....	205	281	856	9, 198	9, 123	626, 241	899, 511	17, 530, 781	260, 209	22, 617, 153	4, 826, 183
Food preparations, not elsewhere classified.....	7	14	100		168	48, 665	80, 054	346, 054	7, 166	560, 615	207, 395
Foundry and machine-shop products, not elsewhere classified.....	61	581	2, 776	4, 676	9, 065	1, 604, 202	3, 635, 590	6, 209, 398	291, 020	16, 028, 316	9, 527, 998

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Furniture, including store and office fixtures.....	39	330	2,890	2,666	4,738	\$796,523	\$2,934,773	\$5,151,955	\$137,183	\$11,524,491	\$6,235,360
Gas and electric fixtures; lamps, lanterns, and reflectors.....	3	8	17	6	39	13,112	13,532	7,769	864	42,331	34,198
Gas, manufactured, illuminating and heating.....	8	27	94	3,981	4,108	36,274	104,004	73,349	301,297	860,443	485,797
Grease and tallow, not including lubricating greases.....	4	7	14	201	210	9,082	15,770	25,579	5,567	78,220	47,083
Hardware not elsewhere classified.....	4	38	328	75	367	120,635	284,331	520,885	19,301	1,212,295	671,549
Hats and caps, except felt and straw, men's.....	7	26	142	-----	28	89,039	133,884	305,048	3,169	739,440	371,223
House-furnishing goods, not elsewhere classified.....	4	32	146	-----	391	101,700	168,244	603,384	13,204	1,206,112	679,524
Ice cream.....	51	54	184	243	1,570	117,627	230,223	892,539	63,390	2,165,421	1,209,486
Ice, manufactured.....	97	131	591	6,534	9,523	293,910	642,312	182,103	460,716	3,267,087	2,015,268
Iron and steel: Steel works and rolling mills.....	4	499	5,358	19,902	78,106	1,120,640	8,822,487	21,920,573	3,538,011	44,890,648	19,423,064
Jewelry.....	7	2	23	-----	11	(5)	27,426	31,070	284	86,137	54,783
Knit goods.....	10	70	1,195	100	699	140,523	714,080	1,458,935	33,031	2,937,213	1,445,247
Leather: Tanned, curried, and finished.....	6	39	435	1,032	373	102,603	454,782	2,364,366	70,679	3,287,004	852,559
Lithographing.....	5	86	347	-----	426	224,305	466,527	458,534	12,602	2,840,223	2,360,192
Lumber and timber products, not elsewhere classified.....	341	332	4,604	16,121	3,385	890,221	3,919,139	6,509,800	123,980	15,486,006	8,852,226
Marble, granite, slate, and other stone products.....	22	81	329	541	2,051	214,803	453,417	535,077	40,991	1,545,959	970,191
Mattresses and bed springs, not elsewhere classified.....	8	23	133	4	180	46,265	109,428	394,031	7,325	709,855	308,409
Meat packing, wholesale.....	25	224	892	1,355	1,993	504,634	1,110,310	16,528,393	140,353	20,161,905	3,493,159
Models and patterns, not including paper patterns.....	3	-----	7	-----	16	-----	12,035	6,377	-----	30,780	24,403
Nonferrous-metal alloys and products, not including aluminum products.....	7	42	219	15	315	122,227	345,891	603,144	18,569	1,276,888	659,176
Paints and varnishes.....	22	279	465	285	3,148	875,804	662,800	5,890,998	78,278	10,573,502	4,604,223
Patent or proprietary medicines and compounds.....	15	37	56	-----	81	89,737	54,017	197,019	2,961	846,886	646,006
Petroleum refining.....	8	86	579	3,679	1,736	244,086	824,126	14,800,532	173,854	17,311,979	2,277,192
Photo-engraving, not done in printing establishments.....	6	36	116	-----	180	68,560	192,887	247,142	12,997	629,741	369,602
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	80	290	1,439	4,354	6,326	752,775	1,703,254	4,107,573	120,637	8,003,034	3,774,869
Printing and publishing, book and job.....	100	287	1,392	5	2,741	793,665	1,822,744	1,978,374	80,423	6,118,405	4,059,693
Printing and publishing, newspaper and periodical.....	107	1,540	1,364	11	2,397	2,454,175	2,238,070	2,943,694	108,244	11,958,611	8,906,673
Saddlery and harness.....	11	27	151	-----	217	42,380	151,231	935,205	6,083	1,401,005	460,317
Ship and boat building, steel and wooden, including repair work.....	3	12	110	505	80	25,720	118,550	245,935	6,375	406,159	153,849
Shirts.....	6	59	596	-----	100	124,960	344,767	2,208,799	15,185	3,585,477	1,361,493
Signs and advertising novelties.....	9	64	243	15	287	119,073	223,784	419,750	9,997	999,575	599,828
Stoves and ranges (other than electric) and warm-air furnaces.....	9	117	458	15	900	259,350	507,803	860,667	34,490	2,343,915	1,439,758
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	11	106	342	50	1,159	250,670	383,786	807,465	24,916	2,204,163	1,371,782
Wall plaster, wall board, insulating board, and floor composition.....	4	15	21	-----	184	23,886	22,327	88,832	2,466	154,072	62,774
Wood preserving.....	3	14	363	326	191	31,485	425,285	5,385,236	46,642	5,907,118	475,240
Wood turned and shaped and other wooden goods, not elsewhere classified.....	17	51	447	983	704	165,746	414,856	779,615	15,736	1,699,417	904,066
Other industries.....	220	2,000	15,582	23,704	37,374	5,892,469	17,373,814	58,370,895	4,324,693	123,471,260	60,775,672

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 435 employees of central administrative offices, with salaries aggregating \$1,710,600. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Includes item for "Iron and steel: Blast furnaces" industry. All figures for that industry except those for power are included in the "Other industries" items to avoid disclosing the data reported by an individual establishment.

<sup>5</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

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**TABLE 13.—GENERAL STATISTICS COMBINED FOR ALL INDUSTRIES FOR THE CINCINNATI INDUSTRIAL AREA AND FOR CAMPBELL AND JEFFERSON COUNTIES, AND GENERAL STATISTICS BY INDUSTRIES FOR KENTON COUNTY: 1929**

[This table presents, for Kenton County, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the industries shown separately. Campbell and Jefferson Counties are also industrially important, but no statistics by industries can be published for them, for the reasons given in the explanatory notes]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

### CINCINNATI INDUSTRIAL AREA

[This industrial area comprises Campbell and Kenton Counties, Ky., and Butler and Hamilton Counties, Ohio. For statistics by industries for the area as a whole, see report for Ohio]

All industries, total.....	2,373	19,942	114,068	100,704	284,402	\$52,165,178	\$157,583,726	\$478,214,297	\$16,018,429	\$933,290,890	\$430,058,164
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### CAMPBELL COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Iron and steel. Steel works and rolling mills"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report]

All industries, total.....	64	512	4,506	16,240	13,045	\$1,288,762	\$6,757,926	\$18,357,049	\$1,246,569	\$33,060,834	\$13,457,216
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### JEFFERSON COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industries—"Plumbers' supplies, not including pipe or vitreous-china sanitary ware," as measured by value of products—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report]

All industries, total.....	715	6,235	36,860	42,408	95,225	\$14,834,688	\$42,471,407	\$146,259,965	\$3,806,710	\$283,468,610	\$133,401,935
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### KENTON COUNTY

[Separate figures are presented for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and combined statistics are given for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

All industries, total.....	124	684	4,548	1,549	8,214	\$1,745,080	\$6,401,891	\$11,562,041	\$401,209	\$25,492,655	\$13,520,405
Bread and other bakery products.....	21	5	87	-----	150	6,828	129,508	300,222	11,004	565,785	254,559
Car and general construction and repairs, steam-railroad repair shops.....	4	133	1,855	50	1,907	354,965	2,947,148	1,079,677	96,509	4,478,289	3,302,113
Concrete products.....	6	3	21	-----	72	4,326	26,805	30,567	1,116	87,350	55,987
Meat packing, wholesale.....	3	11	30	-----	208	32,200	42,678	1,346,186	9,978	1,532,750	176,588
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	6	32	107	245	294	75,024	174,270	315,062	10,917	641,407	315,428
Printing and publishing, book and job.....	7	2	23	-----	54	(1)	31,980	36,046	1,485	110,886	73,355
Other industries.....	77	498	2,425	1,254	5,529	1,271,717	3,049,502	8,454,281	270,200	18,076,178	9,361,697

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>1</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

# LOUISIANA

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1920	1,989	87,345	480,404	350,165	130,239	\$83,807,448	\$438,540,094	\$425,644,573	\$12,895,521	\$685,036,857	\$246,466,763
1927	1,624	82,415	415,582	307,541	108,041	79,673,477	427,994,341	411,190,945	16,803,396	638,381,215	210,366,874
1925	1,742	85,058	410,298	342,222	68,076	79,762,794	465,426,439	( <sup>5</sup> )	( <sup>5</sup> )	710,050,100	244,623,661
1923	1,781	94,719	402,938	351,251	51,687	83,030,577	407,414,316	( <sup>5</sup> )	( <sup>5</sup> )	624,682,620	217,268,304
1921	1,854	85,170	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	76,761,093	311,589,476	( <sup>5</sup> )	( <sup>5</sup> )	479,099,889	167,510,413
1919	2,617	93,265	387,233	346,142	41,091	94,405,732	431,403,867	421,147,141	10,256,726	676,189,770	244,785,903
1914	2,211	77,666	354,765	338,185	16,580	39,544,460	157,886,027	153,300,764	4,585,273	255,312,648	97,423,021
1909	2,516	76,165	346,410	337,342	9,077	33,385,904	134,864,775	130,912,666	3,952,109	223,948,638	89,083,868
1904	2,091	55,859	251,800	249,112	2,778	25,315,750	117,035,305	113,440,487	3,594,818	186,379,592	69,344,287
1899	1,826	40,378	189,990	188,689	1,401	14,725,437	75,403,937	( <sup>5</sup> )	( <sup>5</sup> )	111,397,919	35,993,982
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929	22.5	6.0	15.6	13.9	20.5	5.3	2.5	3.5	-23.3	7.3	17.2
1925-1927	-6.8	-6.4	1.3	-10.1	58.7	-0.1	-8.0			-10.1	-14.0
1923-1925	-2.2	-7.0	1.8	-2.6	31.7	-3.9	14.2			13.7	12.6
1921-1923	-3.8	11.2				8.2	30.8			30.4	29.7
1919-1921	-29.3	-13.3				-18.7	-27.8			-29.1	-31.6
919-1929	-24.0	-11.1	24.1	1.2	217.0	-11.2	1.7	1.1	25.7	1.3	0.7
909-1919	4.0	20.0	11.8	2.6	352.7	182.8	219.9	221.7	159.5	201.9	174.8
899-1909	37.8	86.3	82.3	78.9	547.9	126.7	78.9			101.0	147.5

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Not reported separately.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> No comparable data.

TABLE 2.—SUMMARY FOR PARISHES AND CITIES: 1929

PARISH OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	2,101,593	1,989	87,345	480,404	\$83,807,448	\$438,540,094	\$425,644,573	\$12,895,521	\$685,036,857	\$246,466,763
<i>Parishes<sup>3</sup></i>										
Acadia	39,326	27	443	3,146	305,663	7,506,166	7,467,951	38,215	9,629,381	2,123,215
Allen	15,261	15	1,200	10,858	1,014,662	1,867,883	1,752,472	115,411	4,725,267	2,857,384
Ascension	18,438	16	582	1,787	285,530	526,676	494,084	32,492	1,177,802	651,226
Assumption	15,990	13	260	7,580	190,244	1,238,822	1,147,199	91,623	1,754,645	515,723
Avoyelles	34,926	13	91	1,390	68,704	441,250	414,655	26,595	734,278	293,028
Beauregard	14,569	16	1,147	7,580	891,115	2,434,669	2,402,090	32,579	4,829,762	2,095,093
Bienvenue	23,789	12	358	1,078	249,367	481,404	464,163	17,238	1,176,734	695,330
Bossier	28,388	18	1,024	6,525	1,070,669	8,666,425	8,417,709	248,716	11,385,980	2,719,555
Caddo	124,670	111	4,253	18,506	5,297,733	33,288,953	32,413,639	875,314	49,113,936	15,824,983
Calcasieu	41,963	45	1,168	6,968	1,162,701	5,122,761	4,995,820	126,941	8,839,307	3,716,636
Claiborne	32,285	17	717	1,891	567,644	495,134	484,061	11,073	1,634,278	1,139,144
Concordia	12,778	9	780	4,265	609,205	656,635	644,858	11,777	1,978,311	1,321,676
De Soto	31,016	13	295	1,372	294,517	555,927	539,515	16,412	1,689,930	1,034,003
East Baton Rouge	65,208	50	6,000	30,300	8,849,581	84,614,415	81,949,832	2,564,583	102,424,633	17,910,218
East Feliciana	17,449	5	154	310	113,020	71,512	69,914	1,598	320,557	249,045
Grant	15,709	9	1,318	5,203	1,489,395	468,694	465,533	3,161	2,994,624	2,526,230
Iberia	28,192	40	1,273	9,902	944,149	2,788,310	2,563,059	235,260	6,353,663	3,565,344
Iberville	24,638	30	1,435	11,089	935,422	2,357,483	2,266,534	90,949	4,808,084	2,450,601
Jackson	13,808	8	952	11,010	882,390	3,592,054	3,519,376	72,676	6,841,270	2,240,216
Jefferson	40,032	62	4,061	31,600	3,702,499	44,834,041	43,553,103	1,280,938	65,077,479	20,243,438
Jefferson Davis	19,765	12	178	833	144,357	1,034,710	1,027,987	6,723	1,554,430	519,720
Lafayette	38,827	30	410	8,517	427,448	1,531,387	1,454,927	76,460	2,651,906	1,120,519
Lafourche	32,419	22	626	7,231	342,898	2,120,596	1,977,215	143,381	3,279,701	1,159,105
La Salle	11,668	11	1,901	5,928	1,426,629	916,441	888,880	27,561	4,571,728	3,655,287
Lincoln	22,822	17	488	1,696	323,972	668,092	646,336	22,656	1,234,498	565,506

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR PARISHES AND CITIES: 1929—Continued

PARISH OR CITY	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufac- ture
						Total	Materials and con- tainers	Fuel and purchased energy		
<i>Parishes<sup>3</sup>—Continued</i>										
Livingston.....	18,206	27	406	1,801	\$298,149	\$180,376	\$179,599	\$777	\$745,235	\$504,850
Madison.....	14,829	9	554	1,500	543,031	514,897	504,590	10,307	1,832,374	1,307,477
Morehouse.....	23,689	20	1,222	26,281	1,496,654	6,419,722	5,739,411	680,311	11,260,080	4,840,358
Natchitoches.....	38,477	22	653	2,457	530,183	655,908	632,800	23,108	1,985,510	1,329,602
Orleans <sup>4</sup> .....	458,702	786	22,592	73,050	21,120,099	82,736,172	80,495,757	2,240,415	148,388,315	65,652,143
Ouachita.....	54,337	65	2,925	25,379	3,360,527	9,380,336	8,752,843	627,493	19,644,572	10,264,236
Plaquemines.....	9,608	5	349	3,655	261,786	2,010,330	1,809,060	201,270	2,989,406	979,076
Pointe Coupee.....	21,007	11	505	1,844	309,436	515,808	501,380	14,428	1,334,593	818,785
Rapides.....	65,455	63	2,954	13,057	2,669,627	6,574,440	6,415,589	158,851	14,056,074	7,481,634
Richland.....	26,374	8	334	1,394	220,418	106,081	157,796	8,285	656,969	490,878
Sabine.....	24,110	8	1,324	5,084	930,168	531,182	528,092	2,190	3,204,193	2,733,011
St. Bernard.....	6,512	11	2,233	7,021	2,631,731	44,563,325	44,042,924	520,401	55,705,994	11,142,069
St. Landry.....	60,074	35	957	3,906	695,233	1,851,083	1,811,041	40,342	3,417,805	1,566,522
St. Martin.....	21,787	11	135	3,338	90,902	643,693	607,629	36,064	960,254	310,561
St. Mary.....	29,397	31	1,406	14,637	1,064,830	3,746,785	3,512,104	234,681	7,074,816	3,328,031
St. Tammany.....	20,929	24	626	2,099	374,508	1,306,388	1,164,913	141,475	2,467,410	1,161,022
Tangipahoa.....	40,227	33	1,556	5,357	1,347,167	1,352,754	1,299,020	53,734	4,229,107	2,376,353
Tensas.....	15,096	7	362	1,010	325,768	283,423	280,138	3,285	849,197	565,774
Terrebonne.....	29,810	23	1,378	5,546	746,858	2,178,464	2,044,218	134,246	4,247,136	2,068,672
Union.....	20,731	5	413	890	354,444	415,071	369,938	45,133	847,600	432,529
Vermillion.....	33,684	14	177	5,000	125,826	3,118,357	3,097,657	20,700	3,991,283	872,026
Vernon.....	20,047	13	1,886	6,033	1,483,817	1,704,122	1,674,742	29,380	5,364,770	3,660,048
Washington.....	29,904	25	2,932	30,422	3,524,604	7,343,507	6,759,605	583,902	17,038,795	9,095,288
Webster.....	29,458	20	1,075	2,493	969,112	738,435	703,425	35,010	2,234,163	1,495,723
West Baton Rouge.....	9,716	10	241	6,856	177,826	999,378	935,656	63,722	1,548,481	549,103
West Carroll.....	13,895	5	392	1,355	324,812	387,078	383,595	3,483	956,995	569,917
West Feliciana.....	10,924	6	121	409	106,039	83,023	78,692	4,331	325,744	242,721
Winn.....	14,766	9	392	897	308,750	720,365	691,921	28,944	1,234,298	513,433
All other parishes <sup>5</sup> .....	106,800	58	5,990	30,790	5,810,514	49,236,042	48,458,018	778,924	66,953,224	17,716,282
<i>Cities having 10,000 inhabitants or more</i>										
Alexandria.....	23,025	42	745	3,802	761,370	2,438,801	2,329,513	109,288	4,668,710	2,229,909
Baton Rouge.....	30,729	36	1,061	4,391	853,303	1,890,897	1,755,653	141,244	4,563,133	2,660,236
Bogalusa.....	14,029	21	2,908	30,287	3,505,419	7,318,268	6,734,366	583,902	16,967,070	9,648,802
Lafayette.....	14,635	23	306	1,285	359,583	633,493	699,081	34,412	1,384,729	751,236
Lake Charles.....	15,791	25	321	3,117	332,649	2,963,765	2,383,827	79,938	4,666,767	1,703,002
Monroe.....	26,028	33	1,511	5,246	1,937,131	4,070,844	3,950,512	120,332	7,787,769	3,716,925
New Orleans <sup>6</sup> .....	458,762	736	22,592	73,050	21,120,099	82,736,172	80,495,757	2,240,415	148,388,315	65,652,143
Shreveport.....	76,655	97	2,632	13,139	2,959,889	13,083,553	12,766,863	316,690	22,020,242	8,936,689

<sup>1</sup> Not including salaried employees.

<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

<sup>3</sup> Statistics are presented for each parish in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining parishes as a single group ("All other parishes"). Certain of the parishes for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.

<sup>4</sup> For statistics by industries for this parish, see Table 13.

<sup>5</sup> Caldwell, Catahoula, East Carroll, Evangeline, Franklin, Red River, St. Charles, St. Helena, St. James, and St. John the Baptist Parishes. (See footnote 3.) No manufacturing was recorded from Cameron Parish.

<sup>6</sup> For statistics by industries for this city, which is coextensive with Orleans Parish, see Table 13.

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup> .....	98,475	87,166	11,309	924	888	36	2,271	1,217	54	8,935	7,457	1,478	87,845	77,604	9,741
1919 <sup>1</sup> .....	112,523	100,581	11,942	2,042	1,930	112	1,480	1,434	46	10,756	8,958	1,778	98,265	88,259	10,006
1914 <sup>1</sup> .....	88,014	81,473	6,541	1,850	1,735	115	966	947	19	7,533	6,896	667	77,665	71,925	5,740
1909.....	86,563	80,787	5,776	2,295	2,144	151	872	861	11	7,231	6,655	576	76,165	71,127	5,038

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.

<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 104; male, 103; female, 1. Other salaried officers and employees—total, 881; male, 835; female, 146. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.



TABLE 4.—WAGE EARNERS, BY MONTHS, 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929	87,345	84,858	<i>84,208</i>	80,028	86,055	85,271	84,986	85,084	88,341	88,902	93,300	91,606	89,527	90.2
1919	88,266	93,443	91,919	89,172	80,695	91,541	89,800	95,420	97,890	98,808	106,465	117,665	117,293	75.8
1914	77,665	78,445	77,385	78,311	78,905	76,604	76,265	77,889	76,848	<i>76,158</i>	78,032	81,183	77,955	92.6
1909	76,165	71,118	<i>69,620</i>	72,237	71,911	70,050	72,086	73,270	73,576	74,272	83,413	90,630	91,814	75.8

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	1,989	87,345	45 and over but under 48	52	2,242
Not reported	370	1,266	48	200	15,123
Under 40	44	785	Over 48 but under 54	150	10,470
40	36	1,610	54	140	4,407
Over 40 but under 44	17	1,140	Over 54 but under 60	159	10,974
44 and over but under 45	168	3,940	60 and over	563	35,322

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments	1,989	2,617	2,516	87,345	98,265	76,165	51 to 100	139	146	109	9,052	9,806	7,964
No wage earners	35	178	118				101 to 250	139	150	110	22,073	24,132	17,832
1 to 5	815	1,084	1,021	2,620	2,628	2,804	251 to 500	52	60	47	15,615	22,443	16,165
6 to 20	512	642	778	5,854	7,317	8,993	501 to 1,000	23	19	8	15,387	13,591	5,250
21 to 50	271	338	321	8,916	11,067	10,909	1,001 to 2,500	2					
							2,501 and over	1	5	4	16,928	7,281	6,748

<sup>1</sup> Combined to avoid disclosing number of wage earners reported by an individual establishment.

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments	1,989	2,617	2,516	87,345	98,265	76,165	\$685,036,857	\$676,189,770	\$223,948,638	\$246,496,703	\$244,785,903	\$89,083,863
Less than \$5,000	(?)	475	661	(?)	522	1,432	(?)	1,245,308	1,707,700	(?)	808,318	1,109,029
\$5,000 to \$19,999	607	719	814	2,161	2,051	5,703	7,232,394	7,913,113	8,633,602	4,001,673	4,430,659	5,012,465
\$20,000 to \$99,999	665	721	634	7,728	9,858	14,739	32,311,014	34,920,345	30,049,092	18,229,100	18,108,780	14,591,951
\$20,000 to \$49,999	384	(?)	(?)	3,029	(?)	(?)	12,428,772	(?)	(?)	7,239,044	(?)	(?)
\$50,000 to \$99,999	281	(?)	(?)	4,699	(?)	(?)	19,882,242	(?)	(?)	10,990,056	(?)	(?)
\$100,000 to \$499,999	417	441		23,913	27,140		97,077,523	108,104,027		49,903,036	50,435,014	
\$100,000 to \$249,999	260	(?)		10,502	(?)		41,543,745	(?)		22,255,308	(?)	
\$250,000 to \$499,999	167	(?)	384	13,321	(?)	44,649	56,533,778	(?)	108,140,739	27,647,728	(?)	40,200,737
\$500,000 to \$999,999	115	146		16,615	22,217		79,368,966	105,644,994		38,294,202	49,651,845	
\$1,000,000 and over	125	115	23	36,928	35,877	9,642	469,046,960	418,361,893	75,417,505	135,558,752	121,351,287	19,079,681
\$1,000,000 to \$2,499,999	91	(?)	(?)	20,279	(?)	(?)	184,346,454	(?)	(?)	57,358,291	(?)	(?)
\$2,500,000 to \$4,999,999	18	(?)	(?)	4,075	(?)	(?)	66,483,108	(?)	(?)	19,592,006	(?)	(?)
\$5,000,000 and over	16	(?)	(?)	12,574	(?)	(?)	268,217,398	(?)	(?)	58,637,855	(?)	(?)

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.  
<sup>3</sup> Not tabulated separately.



CENSUS OF MANUFACTURES: 1929

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
	Total	1,980	2,617	87,345	98,265	\$685,036,857	\$676,189,770	\$246,496,763
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control	1,111	1,118	79,351	86,357	640,727,282	609,292,719	228,640,476	220,793,463
Other forms of ownership or control (individual, partnership, etc.)	878	1,499	7,994	11,908	44,309,575	66,897,051	17,856,287	23,992,440
TYPE OF OPERATION								
Central-administrative-office (plural-unit)	400	(1)	27,235	(1)	333,865,528	(1)	115,615,415	(1)
Independent (single-unit)	1,589	(1)	60,110	(1)	351,171,329	(1)	130,881,348	(1)

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR IMPORTANT PARISHES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING			
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy				
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horsepower	
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower					
The State:															
1929	480,404	350,165	2,068	221,521	186	107,897	294	20,617	0	130	11,617	130,239	5,577	118,118	
1927	415,582	307,541	1,750	207,297	125	78,766	274	18,754	97	2,724	9,067	108,041	3,917	95,047	
1925	410,298	342,222	2,178	272,735	117	50,882	283	18,480	7	125	7,138	68,076	3,463	85,776	
1919	387,233	346,142	3,023	316,684	56	15,470	587	13,928	5	00	4,834	41,091	1,967	43,113	
1914	354,765	338,185	* 3,345	* 328,718	(3)	(2)	406	8,020	29	1,447	1,988	16,580	1,557	33,426	
Parishes in which aggregate horsepower exceeded \$5,000: 1929															
East Baton Rouge	30,300	27,825	21	4,005	7	21,800	8	2,020			357	2,475	795	27,589	
Jefferson	31,500	11,419	71	6,726	8	4,465	10	238			1,080	20,081	210	841	
Morehouse	26,281	7,632	40	1,827	15	4,005	11	1,800			642	18,649	11	36	
Orleans	73,050	18,288	140	12,011	10	4,220	20	1,977	7	80	6,288	64,762	619	5,353	
Ouachita	25,379	23,457	105	6,045	3	15,163	57	1,049			233	1,922	455	13,076	
Washington	30,422	29,091	24	9,591	6	19,500					203	1,331	511	17,928	

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. <sup>2</sup> Reported as "Steam engines and turbines." <sup>3</sup> Not reported separately. See footnote 2.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY PARISHES: 1929

[This table presents statistics for each parish for which separate figures are given in Table 2. See footnotes 3 and 5 on that table]

PARISHES	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	PARISHES	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State	480,404	350,165	130,239	118,118	Livingston	1,801	1,758	43	
Acadia	3,146	2,793	353	22	Madison	1,500	1,329	171	
Allen	10,858	6,700	4,158	3,035	Morehouse	26,281	7,632	18,649	36
Ascension	1,787	1,676	111	50	Natchitoches	2,457	2,313	144	25
Assumption	7,580	7,388	192	11	Orleans	73,050	18,288	54,762	5,353
Avoyelles	1,390	1,248	142		Ouachita	25,379	23,457	1,922	13,076
Beauregard	7,580	7,367	213	3,462	Plaquemines	3,665	3,665		3,935
Bienville	1,078	878	200		Pointe Coupee	1,844	1,831	13	(2)
Bossier	6,525	3,940	2,585		Rapides	13,057	11,080	1,977	937
Caddo	18,506	10,761	7,745	3,783	Richland	1,394	1,205	99	
Calcasieu	6,968	5,817	1,651	1,918	Sabine	5,084	5,063	21	231
Claiborne	1,891	1,718	173		St. Bernard	7,021	4,830	2,191	7,228
Concordia	4,265	4,254	11	925	St. Landry	3,966	3,516	450	221
De Soto	1,372	995	377	22	St. Martin	3,338	3,276	62	
East Baton Rouge	30,300	27,825	2,475	27,589	St. Mary	14,637	13,950	687	509
East Feliciana	310	310			St. Tammany	2,099	1,823	276	892
Grant	5,203	5,198	5	2,128	Tangipahoa	5,357	4,125	1,232	2,084
Iberia	9,902	8,253	1,649	2,576	Tensas	1,019	1,019	(3)	235
Iberville	11,089	10,993	96	60	Terrebonne	6,546	5,374	172	407
Jackson	11,010	10,710	300	5,750	Union	890	890		15
Jefferson	31,500	11,419	20,081	841	Vermilion	5,000	4,947	53	48
Jefferson Davis	833	628	305	(2)	Vernon	6,033	5,927	106	125
Lafayette	8,817	8,175	642	327	Washington	30,422	29,091	1,331	17,928
Lafourche	7,231	7,182	49	75	Webster	2,493	2,225	268	978
La Salle	5,928	5,906	22	60	West Baton Rouge	6,356	6,332	24	950
Lincoln	1,695	1,584	111	60	West Carroll	1,355	1,285	70	255
					West Feliciana	409	403	6	
					Winn	897	615	282	
					All other parishes	30,790	29,208	1,582	9,940

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting. <sup>2</sup> Included in total for State but not shown separately, to avoid disclosing data for individual establishments. <sup>3</sup> Item for electric motors included in that for prime movers to avoid disclosing data for a single establishment.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.)	209,424	\$933,315	571,661	277,432	479,683	622,149	1,089,798
Anthracite (tons, 2,240 lbs.)	4,598	88,098	( <sup>3</sup> )	14,736	4,955	13,749	13,358
Bituminous (tons, 2,000 lbs.)	204,274	805,217	( <sup>3</sup> )	260,928	474,133	606,750	1,074,837
Coke (tons, 2,000 lbs.)	10,344	84,892	( <sup>4</sup> )	( <sup>4</sup> )	101,608	25,621	21,980
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup>	189,646,864	4,282,044	( <sup>4</sup> )	( <sup>4</sup> )	119,931,588	81,116,280	105,686,070
Gasoline and kerosene (gallons) <sup>6</sup>	536,639	72,486	( <sup>4</sup> )	( <sup>4</sup> )	2,234,568		
Gas, natural (M cu. ft.)	39,707,702	4,835,543	( <sup>4</sup> )	( <sup>4</sup> )			
Gas, manufactured (M cu. ft.)	7,833,260	1,702,843	( <sup>4</sup> )	( <sup>4</sup> )	24,181,161	1,748,117	509,626
Other fuels		1,372,677	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours)	252,675,049	3,400,568	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Total cost of fuel and purchased energy		\$16,664,368	\$16,803,396	Cost ( <sup>7</sup> )	Cost ( <sup>7</sup> )	Cost ( <sup>7</sup> )	Cost ( <sup>7</sup> )
				\$10,256,726	\$4,585,273	\$3,952,109	

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.  
<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.  
<sup>3</sup> Not tabulated separately.  
<sup>4</sup> No data.  
<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.  
<sup>6</sup> Data incomplete.  
<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.  
<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total	1,089	310,206	87,345	350,165	130,239	\$24,092,926	\$83,867,448	\$425,644,573	\$12,895,521	\$685,030,857	\$246,406,763
Alcohol, ethyl, and distilled liquors	9	79	342	1,782	279	109,855	881,848	8,648,697	401,645	13,592,515	4,542,173
Awnings, tents, sails, and canvas covers	7	35	70		65	110,696	81,780	455,737	5,219	755,309	290,353
Bags, other than paper, not made in textile mills	6	114	1,195	200	776	342,953	603,559	10,105,193	80,955	12,190,439	2,044,291
Bags, paper, exclusive of those made in paper mills	6	31	590		818	61,662	428,208	2,847,904	26,719	3,952,211	1,077,588
Beverages	76	187	683	775	1,705	538,124	715,531	2,350,080	93,603	6,626,892	4,182,603
Bone black, carbon black, and lampblack	30	81	689	4,207	80	260,922	817,520	2,732,264	390,437	6,869,011	3,746,310
Bookbinding and blank-book making	9	8	48		43	4,678	49,958	19,397	1,128	129,674	109,154
Boxes, paper, not elsewhere classified	7	41	310		342	126,522	204,584	869,044	6,592	1,551,010	675,374
Boxes, wooden, except cigar boxes	12	72	1,029	3,082	736	193,073	875,999	2,440,909	16,641	4,205,377	1,742,427
Bread and other bakery products	208	206	2,418	303	3,200	537,002	2,353,284	0,513,697	286,850	15,489,311	6,638,704
Brooms	6	1	47		26	( <sup>3</sup> )	54,093	79,211	713	148,715	68,791
Butter	7	6	15		283	11,195	18,354	292,730	6,605	394,551	95,210
Canning and preserving: Fish, crabs, shrimps, oysters, and clams	27	61	1,402	647	17	105,394	389,434	1,061,283	48,502	3,126,499	1,116,714
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	22	51	415	735	253	116,097	171,683	950,288	19,963	1,788,126	808,875
Car and general construction and repairs, electric-railroad repair shops	5	11	155		860	25,220	234,882	127,279	3,909	395,807	264,619
Car and general construction and repairs, steam-railroad repair shops	31	340	4,742	3,063	3,781	837,069	6,040,602	4,238,842	281,973	12,499,129	7,075,314
Cereal preparations	3	6	11		53	4,419	6,702	47,923	1,014	90,479	41,542
Cigars and cigarettes	12	54	1,287		76	130,160	915,513	1,811,253	7,970	3,768,489	1,949,216
Clay products (other than pottery) and nonclay refractories	16	31	325	1,595	248	94,720	199,465	12,792	187,449	580,013	429,772
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified)	17	88	1,337		201	269,997	729,143	2,045,893	22,777	3,982,649	1,913,979
Clothing, women's, not elsewhere classified	7	48	328	2	23	99,311	116,198	575,277	4,309	997,623	418,037
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts, men's)	7	51	1,101		278	91,799	436,678	1,775,051	8,780	2,783,930	1,000,090
Coffee and spice, roasting and grinding	36	100	249		804	281,619	270,829	7,784,702	41,731	10,359,539	2,533,106
Concrete products	18	36	177	18	221	68,515	157,256	386,765	7,365	803,319	409,189
Confectionery	26	60	375	160	284	168,832	250,644	815,941	20,109	1,709,472	873,422
Copperage	9	56	610	625	969	113,337	458,152	2,230,498	22,683	3,190,825	987,674
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	17	40	281	15	264	97,440	343,291	413,907	8,422	1,275,800	853,471
Engraving, steel and copperplate, and plate printing	4	4	20		23	6,400	21,437	24,920	1,010	73,516	47,588
Feds, prepared, for animals and fowls	9	95	265	1,580	1,734	259,731	260,044	2,514,752	116,117	4,635,871	2,004,702
Fertilizers	11	137	858	275	4,109	332,533	478,493	5,613,254	89,423	8,349,043	2,646,368
Flavoring extracts and flavoring sirups	10	28	49		94	63,311	48,088	1,844,638	2,910	6,008,832	4,156,284
Flour and other grain-mill products	5	32	70	150	673	68,994	59,822	2,826,510	14,754	3,480,218	618,654
Food preparations, not elsewhere classified	14	70	223	1,050	116	178,877	186,422	3,169,879	26,520	5,380,681	2,184,282

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Foundry and machine-shop products, not elsewhere classified	58	169	1,016	1,100	3,659	\$422,476	\$1,428,599	\$1,817,903	\$124,705	\$5,330,405	\$3,387,797
Furniture, including store and office fixtures	22	74	942	465	924	280,555	737,568	1,383,306	22,527	3,040,868	1,636,035
Hand stamps and stencils and brands	5	8	24	-----	10	8,160	29,500	80,036	882	97,231	66,313
House-furnishing goods, not elsewhere classified	5	15	71	-----	69	27,550	33,586	192,025	1,976	3,67,841	173,240
Ice cream	50	71	189	54	1,187	140,709	214,301	907,054	57,469	2,038,519	1,073,996
Ice, manufactured	128	239	1,111	15,104	12,462	473,673	1,201,445	361,015	770,604	5,890,682	4,759,053
Iron and steel: Steel works and rolling mills	3	24	282	-----	976	82,296	408,236	111,071	50,416	768,094	606,607
Jewelry	6	4	61	-----	45	11,600	71,299	34,488	975	163,171	127,708
Lumber and timber products, not elsewhere classified	274	1,880	30,116	107,930	700	4,541,173	24,496,113	23,028,813	307,880	78,752,821	55,416,128
Macaroni, spaghetti, vermicelli, and noodles	12	20	114	70	629	50,631	121,685	673,602	29,987	1,068,362	364,873
Marble, granite, slate, and other stone products	10	14	118	200	320	60,401	184,387	174,929	12,403	625,772	438,440
Mattresses and bed springs, not elsewhere classified	14	25	131	-----	504	47,923	93,399	286,044	8,224	573,286	284,018
Meat packing, wholesale	6	42	281	670	825	113,330	348,937	2,438,176	51,890	3,480,857	990,701
Motor-vehicle bodies and motor-vehicle parts	9	9	72	-----	157	14,600	81,649	101,247	4,517	246,040	140,876
Nonferrous-metal alloys and products, not including aluminum products	4	14	32	-----	114	28,877	44,966	85,603	4,080	190,087	100,398
Oil, cake, and meal, cottonseed	23	155	704	7,020	4,689	401,975	518,976	17,848,072	194,947	21,266,279	3,255,260
Paints and varnishes	10	59	116	-----	618	148,907	129,976	1,065,129	14,198	2,486,814	1,408,987
Paper	11	132	1,150	51,068	23,706	309,206	1,592,769	10,022,601	1,438,486	18,058,539	6,597,452
Pulp (wood and other fiber)	7	91	996	-----	34	131,300	1,360,201	3,724,872	312,846	8,126,987	4,088,269
Patent or proprietary medicines and compounds	21	47	123	-----	8	111,720	77,320	518,900	3,006	1,587,862	1,065,356
Peanuts, walnuts, and other nuts, processed or shelled	3	9	253	-----	53	17,770	90,567	255,608	3,220	418,744	159,916
Perfumes, cosmetics, and other toilet preparations	9	16	46	-----	23	25,085	21,169	99,781	573	285,615	135,261
Petroleum refining	13	884	6,982	35,859	3,877	2,557,725	11,337,372	124,733,957	2,974,773	151,960,142	24,267,412
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	54	270	1,423	5,875	3,066	698,304	1,420,326	4,837,016	63,362	8,782,540	3,882,181
Printing and publishing, book and job	115	270	762	-----	1,061	698,713	1,122,769	1,268,942	49,315	4,204,669	2,896,412
Printing and publishing, newspaper and periodical	63	1,037	651	33	2,275	1,064,806	1,547,760	2,467,931	81,106	10,019,412	7,480,375
Rice cleaning and polishing	28	250	775	7,223	598	582,641	572,248	17,010,801	50,266	21,580,613	4,519,546
Salt	3	82	733	2,750	1,050	240,836	593,314	1,010,947	146,703	3,302,015	2,144,365
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	8	26	58	54	293	64,399	56,336	748,614	13,578	1,004,809	242,617
Ship and boat building, steel and wooden, including repair work	12	131	1,277	2,315	4,709	374,338	2,107,085	1,019,926	127,700	4,176,111	3,028,395
Signs and advertising novelties	5	7	30	-----	10	14,765	45,088	42,457	1,732	121,294	77,105
Statuary and art goods, factory products	3	-----	4	-----	1	-----	4,500	4,200	-----	10,100	14,900
Sugar, cane, not including products of refineries	70	404	2,319	66,513	266	459,510	1,642,463	11,437,579	784,979	18,325,792	6,103,234
Sugar refining, cane	4	202	2,223	7,250	-----	339,655	1,900,287	63,637,217	988,021	74,708,373	10,081,135
Surgical and orthopedic appliances, including artificial limbs	3	0	28	-----	11	25,200	29,807	8,896	360	53,219	43,963
Upholstering materials, not elsewhere classified	19	19	307	457	170	32,520	90,613	734,791	9,113	1,039,962	296,058
Window and door screens and weather strip	7	2	21	-----	97	(5)	25,905	28,022	834	82,811	53,965
Wirework, not elsewhere classified	3	3	9	-----	19	3,742	7,852	17,082	370	36,212	18,160
Wood preserving	9	53	560	3,792	374	118,294	448,474	6,084,471	135,744	8,183,810	1,968,096
Wood turned and shaped and other wooden goods, not elsewhere classified	9	25	277	695	283	71,317	180,948	460,562	7,045	849,665	375,458
Other industries	152	1,159	8,384	11,594	36,856	2,571,911	8,164,083	46,400,795	1,882,231	82,572,698	34,289,672

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 735 employees of central administrative offices, with salaries aggregating \$1,986,599. See GENERAL EXPLANATIONS—Persons engaged.

<sup>4</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

TABLE 13.—GENERAL STATISTICS BY INDUSTRIES FOR ORLEANS PARISH, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR EAST BATON ROUGE PARISH: 1929

[This table presents, for Orleans Parish, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the industries shown separately. East Baton Rouge Parish is also industrially important, but no statistics by industries can be published for it, for the reason given in the explanatory note]

INDUSTRY	Num-ber of estab-lish-ments	Salar-ied offi-cers and em-ploy-ees	Wage earners (aver-age for the year)	HORSEPOWER (RATED CAPAC-ITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of mat-erials and con-tainers for prod-ucts <sup>a</sup>	Cost of fuel and pur-chased electric energy	Value of products <sup>a</sup>	Value added by manufac-ture <sup>b</sup>
				Prime movers	Electric motors driven by pur-chased energy						

EAST BATON ROUGE PARISH

[Because of the amount of manufacturing industry in this parish, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Petroleum refining"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report]

All industries, total.....	50	723	6,000	27,825	2,475	\$2,104,550	\$8,849,581	\$81,949,832	\$2,604,588	\$102,424,033	\$17,910,218
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ORLEANS PARISH (COEXTENSIVE WITH NEW ORLEANS CITY)

[The totals for all industries do not include data for a few establishments located outside the parish (see footnote 1), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	786	3,591	22,592	18,288	54,762	\$8,717,326	\$21,120,099	\$80,405,757	\$2,240,415	\$148,388,315	\$65,062,148
Awnings, tents, sails, and canvas covers <sup>1</sup> .....	7	35	70	---	55	110,566	81,780	455,737	3,210	755,309	290,383
Bags, other than paper, not made in textile mills.....	6	114	1,195	200	776	342,963	603,559	10,105,193	30,655	12,180,439	2,044,291
Beverages.....	11	89	334	639	1,040	281,410	370,883	1,249,851	57,716	3,088,579	2,381,000
Bookbinding and blank-book making.....	9	3	43	---	43	4,078	49,958	19,397	1,123	129,074	109,184
Bread and other bakery products.....	118	145	1,607	206	2,013	383,413	1,624,322	4,349,302	185,866	9,227,910	4,692,742
Brooms.....	3	1	33	---	17	(?)	41,292	55,576	713	100,901	60,612
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	9	25	106	---	74	62,028	60,183	410,128	4,826	957,740	236,795
Car and general construction and repairs, steam-railroad repair shops.....	8	105	1,821	890	1,461	249,805	2,625,637	1,344,021	70,567	4,383,398	2,018,750
Cereal preparations.....	3	6	11	---	53	6,702	6,702	47,923	1,014	90,479	41,542
Cigars and cigarettes <sup>1</sup> .....	12	54	1,287	---	76	130,160	915,513	1,811,253	7,070	3,768,489	1,040,216
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....)	17	88	1,337	---	201	269,997	729,143	2,045,893	22,777	3,682,649	1,013,970
Clothing, women's, not elsewhere classified.....	7	48	323	2	28	90,311	110,108	575,277	4,300	907,623	418,037
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	7	51	1,101	---	278	91,799	436,673	1,775,051	8,780	2,783,930	1,000,099
Coffee and spice, roasting and grinding.....	15	86	186	---	667	243,969	196,367	6,367,533	27,003	8,529,530	2,134,994
Concrete products.....	12	26	152	18	114	50,383	135,574	343,207	6,882	684,580	335,497
Confectionery.....	20	65	352	160	216	156,686	229,015	762,412	18,944	1,595,382	814,026
Cooperage.....	4	8	55	---	20	10,791	40,662	212,052	582	321,985	109,351
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	11	33	244	---	244	82,040	200,824	334,462	6,569	1,093,893	752,872
Feeds, prepared, for animals and fowls.....	4	39	70	---	1,395	101,890	75,998	1,958,044	19,213	2,813,500	836,301
Flavoring extracts and flavoring syrups <sup>1</sup> .....	10	28	49	---	94	68,811	48,088	1,844,635	2,910	6,003,832	4,156,284
Food preparations, not elsewhere classified.....	7	25	85	8	112	63,562	52,484	826,247	5,825	1,272,012	439,940
Foundry and machine-shop products, not elsewhere classified.....	21	52	294	146	1,065	137,826	440,409	460,489	27,939	1,328,809	840,441
Furniture, including store and office fixtures <sup>1</sup> .....	22	74	942	465	924	280,555	737,568	1,383,306	22,527	3,040,898	1,035,035
Hand stamps and stencils and brands.....	5	3	24	---	10	8,160	29,500	30,086	882	97,231	60,313
House-furnishing goods, not elsewhere classified.....	5	15	71	---	69	27,550	33,586	192,625	1,976	367,841	173,240
Ice cream.....	24	30	111	---	445	70,307	114,474	446,541	20,173	1,013,444	540,730
Ice, manufactured.....	29	76	345	3,245	7,784	205,498	421,055	94,539	342,311	2,181,711	1,744,861
Jewelry <sup>1</sup> .....	6	4	61	---	45	11,500	71,299	34,488	975	163,171	127,708
Macaroni, spaghetti, vermicelli, and noodles <sup>1</sup> .....	12	26	114	70	629	50,531	121,685	673,502	29,987	1,098,362	364,873
Marble, granite, slate, and other stone products.....	6	12	109	200	297	56,582	172,284	143,821	11,347	550,002	389,834
Mattresses and bed springs, not elsewhere classified.....	7	15	75	---	341	34,373	56,465	154,544	5,400	328,512	168,568
Paints and varnishes <sup>1</sup> .....	10	59	116	---	618	148,907	126,976	1,065,129	14,198	2,480,314	1,400,987
Patent or proprietary medicines and compounds <sup>1</sup> .....	21	47	128	---	34	111,720	77,320	518,900	3,666	1,587,862	1,065,356
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	25	95	380	1,825	1,283	228,504	415,204	1,656,122	18,552	3,025,875	1,351,201
Printing and publishing, book and job.....	88	213	600	---	883	493,409	887,249	967,322	37,521	3,316,029	2,321,723
Printing and publishing, newspaper and periodical.....	25	789	496	---	1,315	1,463,111	877,306	1,700,619	44,880	6,585,122	4,749,614
Rice cleaning and polishing.....	3	34	104	625	375	82,594	66,116	1,864,158	23,223	2,443,149	555,768
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5	14	34	44	190	33,956	36,772	583,387	9,683	780,499	187,420
Ship and boat building, steel and wooden, including repair work.....	6	112	1,117	2,058	4,694	334,295	2,002,321	961,065	120,620	3,976,797	2,895,112
Statuary and art goods, factory product.....	3	---	4	---	1	---	4,500	4,200	---	19,100	14,900
Surgical and orthopedic appliances, including artificial limbs.....	3	9	28	---	11	25,200	29,807	8,896	360	53,219	43,963
Window and door screens and weather strip.....	7	2	21	---	97	(?)	25,965	28,022	834	82,811	53,955
Other industries.....	164	868	7,195	7,522	24,950	2,152,172	5,802,360	30,859,237	1,015,849	49,531,689	17,656,603

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>1</sup> The figures for the following numbers of establishments located outside the parish have been included in the items for the parish to avoid disclosing the data reported by those establishments: Awnings, tents, sails, and canvas covers, 1; cigars and cigarettes, 1; flavoring extracts and flavoring syrups, 1; furniture, including store and office fixtures, 1; jewelry, 1; macaroni, spaghetti, vermicelli, and noodles, 2; paints and varnishes, 2; and patent or proprietary medicines and compounds, 2.  
<sup>2</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

# MAINE

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	1,568	70,159	679,153	510,505	168,648	\$74,199,961	\$217,366,820	\$204,622,589	\$12,744,231	\$301,751,334	\$174,384,514
1927	1,426	68,142	628,941	468,272	160,669	74,212,035	208,805,679	196,073,350	12,792,329	372,098,474	163,227,795
1925	1,500	73,849	600,787	460,727	140,060	79,777,217	205,708,596	( <sup>5</sup> )	( <sup>5</sup> )	371,849,483	166,140,887
1923	1,642	83,328	570,582	432,690	137,842	81,854,303	217,069,933	( <sup>5</sup> )	( <sup>5</sup> )	402,650,287	185,580,384
1921	1,761	75,710	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	83,429,077	192,102,483	( <sup>5</sup> )	( <sup>5</sup> )	339,561,543	147,450,090
1919	2,995	88,651	545,613	452,864	92,749	94,225,346	254,568,523	241,084,861	13,483,662	456,821,783	202,253,260
1914	3,378	82,149	486,032	439,688	46,844	43,253,703	117,664,969	111,720,678	5,944,291	200,450,118	82,795,269
1909	3,546	79,955	458,302	431,090	27,203	37,632,284	97,101,224	92,213,984	4,887,240	176,029,393	78,928,169
1904	3,145	74,958	341,506	333,445	8,061	32,691,759	80,042,050	76,309,958	3,732,132	144,020,107	63,978,107
1899	2,878	69,914	258,016	250,443	7,572	25,730,735	61,210,327	( <sup>5</sup> )	( <sup>5</sup> )	112,959,068	61,748,771
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929	10.0	3.0	8.0	9.0	5.0	( <sup>7</sup> )	4.1	4.4	-0.4	5.3	6.8
1925-1927	-4.9	-7.7	4.7	1.6	14.7	-7.0	1.5			0.1	-1.8
1923-1925	-8.6	-11.4	5.3	6.5	1.6	-13.1	-5.2			-7.6	-10.5
1921-1923	-6.8	10.1				10.1	13.0			18.6	25.0
1919-1921	-41.2	-14.6				-11.5	-24.5			-25.7	-27.1
1919-1929	-47.6	-20.9	24.5	12.7	81.8	-21.3	-14.0	-15.1	-5.5	-14.2	-13.8
1909-1919	-15.5	10.9	10.1	5.0	241.0	150.4	162.2	161.4	175.9	169.5	156.2
1899-1909	23.2	14.4	77.6	72.1	259.3	46.8	58.6			55.8	52.5

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Not reported separately.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> No comparable data.  
<sup>7</sup> Less than one-tenth of 1 per cent.

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY AND CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	797,423	1,568	70,159	679,153	\$74,199,961	\$217,366,820	\$204,622,589	\$12,744,231	\$301,751,334	\$174,384,514
<i>Counties</i>										
Androscoggin <sup>3</sup>	71,214	178	12,726	58,808	12,146,138	26,233,372	25,358,080	875,292	51,798,033	25,564,661
Aroostook	87,843	84	1,779	27,383	2,117,107	8,023,566	7,499,074	524,482	13,139,206	5,116,050
Cumberland	134,645	315	9,643	60,402	10,612,524	29,450,663	27,804,128	1,646,535	57,028,797	28,178,134
Franklin	,941	66	2,610	73,859	2,317,286	8,365,111	7,903,973	461,138	15,380,940	7,016,829
Hancock	30,721	41	686	3,614	546,582	1,530,873	1,478,189	52,684	2,840,033	1,315,760
Kennebec	70,601	121	8,338	65,724	9,238,244	26,760,275	24,852,854	1,907,421	47,377,412	20,617,137
Knox	27,603	66	2,295	20,029	2,499,646	3,828,795	3,197,596	631,199	9,007,616	5,238,821
Lincoln	15,498	26	342	794	311,694	488,619	478,268	10,351	1,139,348	660,729
Oxford	41,483	103	5,194	57,439	5,497,296	23,733,038	22,158,138	1,574,000	35,490,544	11,787,506
Penobscot	92,379	193	6,500	133,230	8,282,437	38,870,813	35,892,105	2,978,708	64,661,520	25,790,707
Piscataquis	18,231	33	1,485	5,686	1,658,694	3,207,494	3,091,168	116,326	7,545,249	4,337,765
Sagadahoc	16,927	29	1,906	22,191	2,193,071	5,452,034	5,212,101	239,933	9,409,631	3,967,597
Somerset	39,111	79	2,590	41,593	2,906,580	9,800,114	9,348,222	460,892	15,269,952	5,460,838
Waldo	20,286	34	384	1,634	346,031	1,204,128	1,187,870	16,258	2,190,408	980,280
Washington	37,826	74	2,690	34,549	2,090,168	0,155,710	8,790,330	365,380	14,487,692	5,331,982
York	72,984	126	10,976	67,158	10,935,954	21,263,225	20,370,493	882,732	44,318,363	23,065,128
<i>Cities having 10,000 inhabitants or more</i>										
Auburn	18,571	55	4,932	7,161	4,474,515	10,027,828	9,878,955	148,873	20,263,040	10,225,812
Augusta	17,198	29	1,831	19,096	1,940,367	6,872,659	6,123,341	749,318	11,243,678	4,371,019
Bangor	28,749	65	785	919,608	2,525	2,424,407	2,312,289	112,118	4,946,109	2,521,702
Biddeford	17,633	30	4,395	33,284	4,434,284	6,807,226	6,562,666	244,560	14,244,177	7,480,961
Lewiston	34,948	76	5,992	28,280	5,753,745	9,834,245	9,416,405	417,840	21,069,612	11,235,367
Portland	70,810	213	4,513	14,965	5,191,186	14,106,617	13,309,408	797,209	28,291,351	14,184,784
South Portland	13,840	8	349	2,030	388,847	711,132	654,061	57,121	1,445,558	784,376
Waterville	15,454	27	2,293	16,950	2,394,237	4,510,624	4,162,006	348,618	9,823,731	5,318,107
Westbrook	10,807	15	2,325	26,526	2,778,580	9,244,467	8,639,078	605,389	17,804,227	8,569,760

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.  
<sup>3</sup> For statistics by industries for this county, see Table 13.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	77,600	57,369	19,821	891	865	26	3,844	2,799	245	5,796	4,043	2,153	70,159	52,162	17,997
1919 <sup>1</sup>	99,312	76,831	22,481	2,745	2,679	66	1,029	976	53	6,887	4,046	2,241	88,651	68,530	20,121
1914 <sup>1</sup>	90,758	71,040	19,718	3,344	3,246	98	725	705	20	4,540	3,467	1,073	82,149	63,022	18,527
1909	85,474	68,647	19,829	3,661	3,532	129	643	632	11	4,217	3,063	1,154	79,955	61,420	18,535

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.

<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 92; male, 89; female, 3. Other salaried officers and employees—total, 333; male, 199; female, 134. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which the industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	70,159	<i>63,951</i>	66,357	68,119	69,626	69,990	71,617	72,087	74,263	77,318	74,725	67,485	66,070	82.7
1919 <sup>1</sup>	88,651	84,884	79,492	<b>78,696</b>	78,698	85,289	87,769	89,503	94,092	98,407	97,474	95,134	94,374	80.0
1914 <sup>1</sup>	82,149	82,527	82,406	81,457	79,169	83,812	80,810	78,888	79,811	88,053	87,519	83,540	77,796	88.4
1909 <sup>1</sup>	70,955	70,737	77,541	77,956	77,722	81,355	76,315	<i>76,489</i>	78,086	85,309	85,591	84,468	78,925	89.5

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	1,568	70,159	45 and over but under 48.....	46	1,098
Not reported.....	253	904	48.....	259	17,489
Under 40.....	31	991	Over 48 but under 54.....	175	12,292
40.....	30	1,980	54.....	506	27,300
Over 40 but under 44.....	13	562	Over 54 but under 60.....	53	2,842
44 and over but under 45.....	96	2,085	60 and over.....	106	2,626

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	1,568	2,995	3,546	70,159	88,651	70,955	51 to 100.....	100	127	133	7,018	9,310	9,745
No wage earners.....	19	330	298				101 to 250.....	94	118	96	13,592	18,702	15,632
1 to 5.....	700	1,583	1,999	2,170	3,288	4,407	251 to 500.....	35	28	27	12,022	9,898	9,575
6 to 20.....	404	527	717	4,289	5,684	7,956	501 to 1,000.....	18	13	11	12,667	8,776	7,313
21 to 50.....	190	253	254	6,352	8,178	8,445	1,001 to 2,500.....	7					
							2,501 and over.....	1	16	11	12,049	24,815	16,882

<sup>1</sup> Combined to avoid disclosing number of wage earners for an individual establishment.

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,568	2,995	3,546	70,159	88,651	70,955	\$391,751,334	\$456,821,783	\$176,020,303	\$174,384,514	\$202,253,260	\$78,928,169
Less than \$5,000.....	( <sup>2</sup> )	880	1,451	( <sup>2</sup> )	645	2,178	( <sup>2</sup> )	2,049,050	3,286,165	( <sup>2</sup> )	1,258,842	2,098,923
\$5,000 to \$19,999.....	620	921	1,194	2,059	2,920	6,919	7,048,305	9,818,256	12,260,959	4,107,298	5,267,536	6,526,905
\$20,000 to \$99,999.....	514	698	610	5,876	8,364	13,308	23,648,655	31,874,867	26,688,867	12,929,042	15,192,561	12,840,097
\$100,000 to \$499,999.....	338	( <sup>3</sup> )	( <sup>3</sup> )	2,923	( <sup>3</sup> )	( <sup>3</sup> )	11,222,626	( <sup>3</sup> )	( <sup>3</sup> )	6,321,031	( <sup>3</sup> )	( <sup>3</sup> )
\$500,000 to \$999,999.....	176	( <sup>3</sup> )	( <sup>3</sup> )	2,653	( <sup>3</sup> )	( <sup>3</sup> )	12,426,029	( <sup>3</sup> )	( <sup>3</sup> )	6,608,011	( <sup>3</sup> )	( <sup>3</sup> )
\$1,000,000 to \$499,999.....	287	311	( <sup>3</sup> )	14,451	16,399	( <sup>3</sup> )	63,570,901	69,479,529	( <sup>3</sup> )	31,541,634	31,499,590	( <sup>3</sup> )
\$100,000 to \$249,999.....	189	( <sup>3</sup> )	( <sup>3</sup> )	6,576	( <sup>3</sup> )	( <sup>3</sup> )	28,461,132	( <sup>3</sup> )	( <sup>3</sup> )	13,523,739	( <sup>3</sup> )	( <sup>3</sup> )
\$250,000 to \$499,999.....	98	( <sup>3</sup> )	266	7,875	( <sup>3</sup> )	32,098	35,109,769	( <sup>3</sup> )	70,542,507	18,017,895	( <sup>3</sup> )	32,216,172
\$500,000 to \$999,999.....	63	84	( <sup>3</sup> )	8,834	10,407	( <sup>3</sup> )	44,928,085	59,168,310	( <sup>3</sup> )	19,997,451	25,650,628	( <sup>3</sup> )
\$1,000,000 and over.....	84	101	25	38,939	49,826	24,552	262,555,388	284,431,781	57,250,905	105,809,039	123,394,113	25,237,582
\$1,000,000 to \$2,499,999.....	49	( <sup>3</sup> )	( <sup>3</sup> )	13,093	( <sup>3</sup> )	( <sup>3</sup> )	75,784,957	( <sup>3</sup> )	( <sup>3</sup> )	33,278,081	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	25	( <sup>3</sup> )	( <sup>3</sup> )	14,845	( <sup>3</sup> )	( <sup>3</sup> )	82,438,757	( <sup>3</sup> )	( <sup>3</sup> )	33,458,340	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	10	( <sup>3</sup> )	( <sup>3</sup> )	11,001	( <sup>3</sup> )	( <sup>3</sup> )	94,331,674	( <sup>3</sup> )	( <sup>3</sup> )	39,072,668	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.  
<sup>3</sup> Not tabulated separately.

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	1,568	2,995	70,159	88,651	\$391,751,334	\$456,821,783	\$174,384,514	\$202,253,260
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	779	894	63,484	78,642	304,900,284	410,003,137	160,214,817	180,525,294
Other forms of ownership or control (individual, partnership, etc.).....	789	2,101	6,675	10,009	26,851,050	46,818,646	14,169,697	21,727,966
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	334	( <sup>1</sup> )	40,098	( <sup>1</sup> )	250,725,672	( <sup>1</sup> )	104,946,246	( <sup>1</sup> )
Independent (single-unit).....	1,234	( <sup>1</sup> )	30,061	( <sup>1</sup> )	141,025,662	( <sup>1</sup> )	69,438,268	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horsepower
The State:			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower
1929.....	679,153	510,505	702	103,370	78	67,234	95	2,217	668	337,684	15,108	168,648	11,671	203,072
1927.....	628,941	468,272	749	91,554	62	57,125	109	1,723	655	317,870	12,888	160,669	8,982	192,590
1925.....	600,787	460,727	855	104,840	80	51,969	101	2,386	763	301,532	11,667	140,060	7,999	150,991
1919 <sup>1</sup> .....	545,613	452,864	1,424	141,437	69	32,418	400	4,481	1,104	274,528	7,043	92,740	3,306	72,047
1914 <sup>1</sup> .....	486,032	430,088	1,898	176,792	( <sup>3</sup> )	( <sup>3</sup> )	440	4,582	1,429	258,314	3,680	46,344	1,919	61,356
Counties in which aggregate horsepower exceeded 25,000: 1929														
Androscoggin.....	58,868	46,381	42	6,128	5	2,164	7	62	97	38,027	2,298	12,487	3,230	22,977
Aroostook.....	27,383	25,109	33	24,704	10	250	2	155	2	155	234	2,274	540	15,820
Cumberland.....	60,402	39,747	99	7,625	16	7,919	11	187	91	24,016	2,897	20,655	1,148	22,178
Franklin.....	78,859	71,761	70	7,239	4	5,800	12	258	61	58,464	317	2,098	366	9,843
Kennebec.....	65,724	39,493	75	8,908	10	4,695	1	( <sup>4</sup> )	73	25,900	1,931	26,231	1,042	19,999
Oxford.....	57,439	34,035	105	14,313	2	110	6	109	36	20,103	851	22,804	411	10,607
Penobscot.....	138,230	117,336	65	13,310	14	13,218	1	( <sup>4</sup> )	155	90,808	1,597	20,894	1,183	45,941
Somerset.....	41,593	30,205	31	4,397	5	139	33	25,669	549	11,388	549	11,388	173	12,841
Washington.....	34,649	32,551	40	2,818	13	2,398	19	250	23	27,085	284	1,998	572	15,113
York.....	67,158	47,259	44	6,184	11	30,590	1	( <sup>4</sup> )	60	10,485	2,755	19,899	2,779	22,433

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

<sup>4</sup> Item for internal-combustion engines included with that for steam engines to avoid disclosing data for a single establishment

## CENSUS OF MANUFACTURES: 1929

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	679, 153	510, 505	108, 648	203, 072	Oxford.....	57, 439	34, 635	22, 804	10, 507
Androscoggin.....	58, 868	46, 381	12, 487	22, 977	Penobscot.....	138, 230	117, 336	20, 894	45, 941
Aroostook.....	27, 383	25, 100	2, 274	15, 820	Piscataquis.....	5, 686	2, 902	2, 784	598
Cumberland.....	60, 402	39, 747	20, 655	22, 176	Sagadahoc.....	22, 191	16, 210	5, 981	3, 029
Franklin.....	73, 859	71, 761	2, 098	9, 843	Somerset.....	41, 593	30, 205	11, 388	12, 841
Hancock.....	3, 614	2, 428	1, 186	1, 329	Waldo.....	1, 634	1, 138	496	15, 113
Kennebec.....	65, 724	39, 493	26, 231	19, 990	Washington.....	34, 549	32, 551	1, 998	22, 433
Knox.....	20, 029	2, 620	17, 109	466	York.....	67, 153	47, 259	19, 899	
Lincoln.....	794	430	364						

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	1, 253, 504	\$7, 753, 404	1, 047, 740	1, 201, 786	1, 306, 045	1, 102, 720	987, 661
Anthracite (tons, 2,240 pounds).....	31, 342	247, 480	( <sup>3</sup> )	54, 378	43, 234	70, 024	46, 728
Bituminous (tons, 2,000 pounds).....	1, 218, 401	7, 505, 924	( <sup>3</sup> )	1, 140, 883	1, 257, 623	1, 014, 213	935, 326
Coke (tons, 2,000 pounds).....	0, 434	100, 326	( <sup>3</sup> )	( <sup>3</sup> )	21, 972	9, 034	10, 714
Fuel oils, including crude oils and gas oils (gallons) <sup>4</sup> .....	33, 627, 515	1, 382, 757	( <sup>3</sup> )	( <sup>3</sup> )	23, 856, 168	1, 317, 792	879, 270
Gasoline and kerosene (gallons) <sup>4</sup> .....	140, 506	23, 350	( <sup>3</sup> )	( <sup>3</sup> )	313, 866		
Gas, natural (M cubic feet).....			( <sup>3</sup> )	( <sup>3</sup> )	45, 503	( <sup>3</sup> )	8, 099
Gas, manufactured (M cubic feet).....	110, 443	90, 945	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	0, 497	( <sup>3</sup> )
Other fuels.....		148, 268	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Electric energy purchased (kilowatt-hours).....	328, 959, 106	3, 245, 838	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Total cost of fuel and purchased energy.....		7 12, 744, 888	Cost \$12, 792, 329	Cost ( <sup>3</sup> )	Cost \$13, 483, 602	Cost \$5, 934, 231	Cost \$4, 887, 240

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.

<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

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

<sup>4</sup> No data.

<sup>5</sup> For years prior to 1929 reported in barrels; converted on basis of 42 gallons per barrel.

<sup>6</sup> Data incomplete.

<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.

<sup>8</sup> Not reported separately.



TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	1,568	6,640	70,150	510,505	108,648	\$16,100,485	\$74,199,901	\$204,622,589	\$12,744,231	\$391,751,334	\$174,884,514
Agricultural implements.....	5	12	111	25	464	28,062	143,157	121,250	21,735	434,245	291,260
Awnings, tents, sails, and canvas covers.....	6	5	23	-----	13	13,580	26,727	68,487	1,487	159,893	89,919
Beverages.....	50	31	108	6	357	51,977	128,848	335,506	14,334	939,670	689,830
Bookbinding and blank-book making.....	5	7	44	-----	30	14,692	46,648	44,274	1,783	173,825	127,768
Boot and shoe findings, not made in boot and shoe factories.....	6	35	299	250	520	120,285	242,052	452,946	12,737	1,258,017	792,334
Boots and shoes, other than rubber.....	42	867	9,067	505	5,878	2,088,146	9,288,957	20,578,007	215,338	38,931,948	18,138,603
Boxes, paper, not elsewhere classified.....	13	28	270	-----	198	58,511	212,664	331,503	9,467	728,094	387,064
Boxes, wooden, except cigar boxes.....	13	43	694	1,769	1,686	120,665	687,505	1,296,122	32,243	2,567,807	1,249,442
Bread and other bakery products.....	133	121	1,042	6	1,331	293,163	1,143,224	3,500,639	173,907	7,426,748	3,762,202
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	63	176	2,393	1,682	2,281	283,314	1,226,661	5,394,485	143,593	8,470,859	2,932,781
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	106	178	1,140	2,833	1,089	262,896	862,535	5,223,348	71,720	8,313,883	3,018,815
Car and general construction and repairs, electric-railroad repair shops.....	8	17	119	-----	314	42,098	138,243	88,225	7,516	276,082	180,341
Car and general construction and repairs, steam-railroad repair shops.....	10	153	983	80	3,964	342,107	1,376,310	1,378,212	130,178	3,228,451	1,720,061
Caskets, coffins, burial cases, and other morticians' goods.....	5	15	65	128	197	49,047	81,895	223,765	5,051	388,536	159,717
Cigars and cigarettes.....	6	8	105	-----	6	13,055	107,756	161,138	1,099	375,913	213,070
Clay products (other than pottery) and nonclay refractories.....	16	22	249	137	1,190	58,405	284,704	50,638	145,639	633,159	430,882
Cleaning and polishing preparations.....	4	5	5	-----	6	8,398	8,460	19,103	533	71,815	52,174
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	9	21	311	-----	69	35,774	238,809	514,766	6,620	994,154	472,768
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	6	12	151	-----	39	21,222	110,401	282,399	3,471	475,488	189,618
Concrete products.....	9	5	31	21	100	6,700	30,318	31,079	1,972	98,593	65,542
Confectionery.....	23	27	124	550	142	39,341	93,958	269,224	12,370	577,859	290,365
Copperage.....	10	3	43	178	107	4,650	46,317	146,535	3,016	225,185	75,584
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	7	17	54	67	67	41,846	84,340	199,950	4,050	483,997	279,997
Corn sirup, corn sugar, corn oil, and starch.....	17	1	78	131	548	(4)	64,529	222,990	7,443	493,703	263,470
Druggists' preparations.....	4	7	37	-----	13	9,128	28,901	30,366	1,438	93,715	62,011
Fertilizers.....	11	54	195	510	503	103,603	199,113	2,288,379	17,545	3,226,760	930,845
Flavoring extracts and flavoring sirups.....	10	27	53	49	49	80,846	63,245	320,948	8,742	834,650	510,260
Flour and other grain-mill products.....	37	29	61	260	1,490	36,813	58,394	1,397,034	16,041	1,606,767	254,692
Foundry and machine-shop products, not elsewhere classified.....	36	135	1,145	215	4,233	336,059	1,335,264	980,889	101,666	3,788,048	2,640,493
Fur goods.....	6	18	30	-----	23	42,895	37,037	58,042	2,608	187,422	130,772
Furniture, including store and office fixtures.....	15	38	305	-----	1,287	109,275	318,373	479,087	17,504	1,188,462	691,871
Gas, manufactured, illuminating and heating.....	9	96	227	570	913	168,610	348,598	572,226	519,833	2,056,191	964,627
Ice cream.....	19	53	164	-----	1,557	193,148	217,481	915,769	82,702	2,172,063	1,233,552
Leather: Tanned, curried, and finished.....	5	21	147	525	468	52,879	148,224	419,430	26,410	742,740	302,900
Lumber and timber products, not elsewhere classified.....	235	175	3,430	21,567	5,792	358,182	3,326,744	4,044,298	56,582	11,077,511	6,976,631
Marble, granite, slate, and other stone products.....	29	58	696	2,278	4,049	169,725	1,375,382	4,463,142	88,161	2,888,046	2,336,743
Mattresses and bed springs, not elsewhere classified.....	4	12	67	-----	292	60,003	64,871	234,151	4,482	423,165	184,532
Meat packing, wholesale.....	8	21	114	-----	410	43,941	130,555	1,687,670	15,021	1,991,314	388,717
Paper.....	28	813	8,296	395,605	50,304	2,240,097	10,994,794	51,849,634	4,970,050	90,072,846	33,253,162
Pulp (wood and other fiber).....	24	286	3,535	-----	34	746,092	5,129,503	26,583,350	2,628,460	43,497,951	14,286,141
Patent or proprietary medicines and compounds.....	9	18	33	-----	34	58,803	29,011	88,206	3,053	390,930	299,671
Photo-engraving, not done in printing establishments.....	6	8	23	-----	43	16,890	35,673	19,574	1,763	110,987	89,660
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	51	127	596	1,608	4,498	287,288	704,427	1,488,462	45,358	3,224,507	1,690,687
Printing and publishing, book and job.....	66	110	432	-----	829	250,448	567,851	482,421	25,381	1,864,835	1,367,053
Printing and publishing, newspaper and periodical.....	51	681	1,011	-----	1,569	1,258,406	1,299,254	1,511,969	70,702	6,872,043	5,289,372
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	10	11	55	-----	357	30,246	64,824	621,277	11,873	924,763	291,613
Ship and boat building, steel and wooden, including repair work.....	24	83	1,134	859	2,779	194,205	1,362,209	2,380,400	53,327	4,421,069	1,987,342
Shirts.....	7	46	542	-----	177	103,127	398,436	562,206	9,280	1,239,655	668,169
Signs and advertising novelties.....	7	6	34	-----	11	17,140	38,688	34,204	895	163,641	118,542
Sporting and athletic goods, not including firearms or ammunition.....	5	6	52	-----	144	8,329	50,227	47,329	3,245	141,024	91,050
Stoves and ranges (other than electric) and warm-air furnaces.....	4	38	161	235	129	103,328	191,840	137,762	11,933	543,405	393,705
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	3	13	71	-----	287	55,316	114,150	258,349	5,435	507,348	248,059
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	7	59	455	1,600	762	146,604	417,201	486,615	25,079	1,312,316	800,622
Wood turned and shaped and other wooden goods, not elsewhere classified.....	72	213	2,212	8,428	3,332	396,740	2,187,269	2,452,049	61,114	6,613,430	4,100,267
Woolen goods.....	48	507	6,526	13,790	9,696	1,409,720	7,484,852	16,218,548	699,812	31,782,318	14,863,968
Wool shoddy.....	3	13	77	-----	973	47,360	78,724	637,315	19,436	838,405	181,657
Worsteds.....	7	126	3,956	3,390	12,261	546,185	3,850,018	10,229,857	465,211	22,119,590	11,425,031
Other industries.....	138	975	15,259	80,704	37,872	2,513,940	14,869,707	33,816,739	1,703,294	65,094,937	20,574,904

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 425 employees of central administrative offices, with salaries aggregating \$1,234,574. See GENERAL EXPLANATIONS—Persons Employed.

<sup>4</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS BY INDUSTRIES FOR ANDROSCOGGIN COUNTY, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR CUMBERLAND AND FOR YORK COUNTIES: 1929

[This table presents separate figures for each industry in Androscoggin County for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the industries shown separately. Cumberland and York counties are also industrially important, but no statistics by industries can be published for them, for the reasons given in the explanatory notes]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>ANDROSCOGGIN COUNTY</b>											
All industries, total.....	178	1,148	12,726	46,381	12,487	\$2,396,167	\$12,146,138	\$25,358,080	\$875,292	\$51,798,033	\$25,564,661
Beverages.....	4	5	8		46	4,114	13,275	28,217	1,697	72,172	42,258
Boots and shoes, other than rubber.....	14	481	4,577		3,173	1,046,666	4,096,111	8,032,094	90,710	16,812,428	8,889,624
Boxes, wooden, except cigar boxes.....	5	6	85	204	433	8,136	79,956	180,453	4,844	335,599	150,302
Bread and other bakery products.....	27	11	154	2	180	11,977	178,083	608,777	29,157	1,178,880	536,946
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	10	11	96	274	79	17,717	58,370	353,298	4,874	609,320	251,648
Clay products (other than pottery) and nonclay refractories.....	6		39	20	115		42,620	2,442	23,316	90,320	64,502
Foundry and machine-shop products, not elsewhere classified.....	4	9	67	50	139	13,814	83,113	38,248	7,948	207,673	161,477
Lumber and timber products, not elsewhere classified.....	7	2	35	430	50	(1)	28,574	26,068	824	87,462	60,570
Marble, granite, slate, and other stone products.....	4	6	27		209	12,071	57,092	29,121	3,039	144,171	112,011
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	7	22	60	150	1,107	55,355	75,724	133,074	7,669	311,563	170,820
Printing and publishing, book and job.....	7	21	54		116	59,094	73,308	59,568	3,275	240,246	177,403
Wood turned and shaped and other wooden goods, not elsewhere classified.....	6	13	124	340	203	27,824	101,284	150,977	6,993	343,477	185,507
Woolen goods.....	6	103	1,112	3,258	493	344,415	1,225,742	3,062,361	82,044	6,268,498	3,124,093
Other industries.....	71	458	6,288	41,663	6,094	1,289,984	6,032,880	12,653,362	609,402	25,101,224	11,838,440
<b>CUMBERLAND COUNTY</b>											
All industries, total.....	315	1,608	9,648	30,747	20,655	\$3,648,567	\$10,612,524	\$27,804,128	\$1,946,535	\$57,628,707	\$28,178,134
<b>YORK COUNTY</b>											
All industries, total.....	126	667	10,976	47,259	19,809	\$1,599,360	\$10,935,954	\$20,370,493	\$832,732	\$44,318,353	\$23,065,128

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>1</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

# MARYLAND

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1910 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	3,231	131,009	659,823	297,592	362,231	\$148,835,163	\$696,985,542	\$662,885,813	\$34,099,729	\$1,119,082,289	\$422,066,747
1927	3,205	129,700	679,713	275,434	304,279	141,902,797	564,120,437	531,135,234	32,985,203	943,410,896	379,290,459
1925	3,184	125,787	644,558	259,220	285,338	138,590,034	568,591,242	( <sup>5</sup> )	( <sup>5</sup> )	926,251,640	357,660,398
1923	3,168	128,826	497,945	187,171	310,774	130,285,549	599,035,133	( <sup>5</sup> )	( <sup>5</sup> )	903,446,222	334,411,089
1921	3,128	107,985	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	110,484,020	386,808,228	( <sup>5</sup> )	( <sup>5</sup> )	637,573,713	250,705,486
1919	4,937	140,342	406,037	251,006	155,031	147,866,545	540,347,379	527,696,308	21,651,071	873,944,774	324,597,395
1914	4,797	111,585	262,199	219,956	42,243	53,792,339	238,971,973	231,246,890	7,725,083	377,749,078	138,777,105
1909	4,837	107,921	217,313	200,205	17,108	45,435,829	199,048,905	192,004,856	7,044,049	315,669,150	116,620,245
1904	3,852	94,174	164,090	160,781	3,309	30,144,244	150,024,066	145,271,690	4,752,476	243,375,996	93,351,930
1899	3,886	94,170	130,402	129,669	733	32,414,429	129,364,412	( <sup>5</sup> )	( <sup>5</sup> )	211,076,143	81,721,731
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	0.8	3.5	13.8	8.0	19.0	4.9	23.0	24.8	3.4	18.6	11.3
1925-1927	0.7	0.7	6.5	6.3	6.6	2.4	-0.8			1.9	6.0
1923-1925	0.5	-2.4	9.4	38.5	-8.2	1.7	-0.1			2.5	7.0
1921-1923	1.3	20.3				23.4	47.1			41.7	33.4
1919-1921	-36.6	-23.7				-25.3	-29.0			-27.0	-22.8
1910-1929	-34.6	-6.6	62.3	18.3	133.7	0.7	26.9	25.6	57.5	28.0	30.0
1909-1919	2.1	30.0	87.1	25.7	806.2	225.4	176.0	174.8	207.4	170.9	178.3
1899-1909	24.5	14.6	66.6	54.4	2,234.0	40.2	53.9			49.6	42.7

<sup>1</sup> Not including salaried employees.

<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>4</sup> Not reported separately.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> No comparable data.

TABLE 2.—SUMMARY FOR THE BALTIMORE INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State <sup>3</sup>	1,631,520	3,231	131,009	659,823	\$148,835,163	\$696,985,542	\$662,885,813	\$34,099,729	\$1,119,082,289	\$422,066,747
Baltimore Industrial Area <sup>4</sup>	929,430	2,211	99,001	503,520	119,016,754	606,837,414	576,684,590	30,152,824	940,853,470	343,016,062
<i>Counties</i>										
Allegany	79,093	80	9,940	63,430	11,852,910	30,349,400	28,943,616	1,405,784	63,188,523	32,830,123
Anne Arundel	55,167	26	601	1,610	740,804	2,117,549	2,010,377	98,172	3,675,785	1,458,236
Baltimore	124,565	71	13,046	209,729	22,632,419	84,898,368	73,675,845	11,222,613	135,071,279	50,172,921
Calvert	9,528	5	94	272	55,139	74,618	73,224	1,394	184,651	110,033
Caroline	17,387	66	878	1,849	490,640	2,888,136	2,829,676	58,460	4,338,633	1,450,497
Carroll	35,978	80	1,787	16,110	1,481,040	6,242,009	5,730,342	511,667	10,438,045	4,106,936
Cecil	25,827	31	1,035	4,706	1,041,272	3,386,408	3,153,825	232,583	5,712,477	2,320,069
Charles	10,166	6	16	172	14,864	36,287	33,110	3,177	78,771	42,484
Dorchester	26,813	83	1,919	3,904	1,047,402	5,903,931	5,798,354	105,577	9,064,162	3,160,231
Frederick	54,440	87	2,035	12,523	2,446,351	8,105,692	7,783,747	321,945	13,073,078	4,907,356
Garrett	19,908	12	175	466	170,053	236,806	235,545	1,261	538,343	301,537
Harford	31,603	74	702	2,800	520,622	1,942,138	1,885,023	57,115	3,450,775	1,608,637
Howard	16,169	12	806	6,891	740,627	4,271,459	4,180,366	90,693	6,724,240	2,452,790
Kent	14,242	18	195	1,028	123,104	722,996	706,011	16,985	1,239,799	510,803
Montgomery	49,206	37	239	3,264	356,625	987,028	946,888	40,140	1,862,779	876,751
Prince Georges	60,095	27	255	680	223,601	312,209	271,065	41,144	924,788	612,579
Queen Annes	14,671	24	254	1,082	153,475	751,637	732,600	19,031	1,230,023	528,386
St. Marys	15,189	16	45	619	26,457	136,162	130,072	6,090	233,014	96,852
Somerset	23,382	53	775	3,002	465,417	1,548,744	1,474,548	74,196	2,715,553	1,160,809
Talbot	18,883	43	709	2,069	421,853	1,514,776	1,457,899	66,876	2,598,223	1,053,448
Washington	55,832	100	5,748	23,316	5,679,899	14,010,701	13,971,454	639,247	29,615,204	16,004,503
Wicomico	31,229	86	1,971	4,112	1,842,185	2,796,628	2,667,451	129,177	6,128,075	3,331,447
Worcester	21,624	54	719	2,398	412,269	1,212,816	1,186,524	26,291	2,292,963	1,080,148
<i>Cities having 10,000 inhabitants or more</i>										
Annapolis	12,531	8	31	34	42,771	56,277	54,090	2,181	184,993	128,716
Baltimore <sup>4</sup>	804,374	2,140	85,655	293,791	96,384,335	521,939,056	503,008,745	18,930,311	814,782,107	292,843,141
Cumberland	37,747	49	5,664	24,770	7,506,866	20,969,829	20,377,925	591,904	37,949,536	16,979,707
Frederick	14,434	44	1,488	5,508	1,271,554	5,744,366	5,575,087	169,279	8,897,992	3,153,626
Hagerstown	30,801	78	4,946	13,131	4,927,076	11,952,713	11,642,678	310,035	23,003,598	11,050,885
Salisbury	10,997	39	995	2,691	825,557	1,672,096	1,562,843	109,253	3,869,608	2,197,512

<sup>1</sup> Not including salaried employees.

<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

<sup>3</sup> The State items are equivalent to the sums of the county items and those for the city of Baltimore, which is not included in any county.

<sup>4</sup> The Baltimore Industrial Area comprises Baltimore County and the independent city of Baltimore. For statistics by industries for the area and for Baltimore city see Table 13.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929	153,276	112,548	40,728	2,370	2,309	61	2,386	2,267	129	17,421	12,248	5,173	131,099	95,734	35,365
1919	165,375	125,016	40,259	5,129	4,993	136	1,875	1,820	55	18,520	13,826	4,703	140,342	104,977	35,365
1914	131,301	95,356	36,035	5,005	4,834	171	1,608	1,471	37	13,293	10,747	2,546	111,585	78,304	33,281
1909	125,489	91,239	34,250	5,376	5,220	156	1,317	1,294	23	10,875	9,152	1,723	107,921	75,573	32,348

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 230; male, 227; female 3. Other salaried officers and employees—total, 1,224; male, 685; female, 539. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929	131,099	<i>121,063</i>	124,627	126,879	129,147	128,673	130,504	132,696	141,203	147,868	137,708	128,550	124,270	81.9
1919	140,342	140,953	135,797	131,774	<b>129,123</b>	130,161	133,009	137,450	144,217	160,313	160,567	141,261	139,768	80.4
1914	111,585	109,837	106,839	108,456	110,107	110,998	110,879	107,202	123,844	134,437	118,693	101,335	99,863	73.9
1909	107,921	<i>95,070</i>	97,225	99,541	100,753	103,000	105,652	105,116	124,505	133,268	118,475	106,932	105,514	71.3

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	3,231	131,099	45 and over but under 48	198	11,611
Not reported	534	1,755	48	469	34,990
Under 40	52	692	Over 48 but under 54	501	30,768
40	96	1,270	54	147	4,454
Over 40 but under 44	23	1,892	Over 54 but under 60	293	14,084
44 and over but under 45	608	22,327	60 and over	315	7,174

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments	3,231	4,937	4,837	131,099	140,342	107,921	51 to 100	226	194	182	15,997	14,004	13,085
No wage earners	89	630	504				101 to 250	150	143	127	23,909	22,375	19,858
1 to 5	1,375	2,351	2,348	4,176	5,221	5,630	251 to 500	49	47	42	17,499	15,005	14,318
6 to 20	881	1,062	1,190	9,887	11,880	12,999	501 to 1,000	35	25	22	23,570	18,968	15,628
21 to 50	418	464	414	13,725	14,879	13,184	1,001 to 2,500	5	15	8	7,160	40,010	13,219
							2,501 and over	3					

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1910 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	3,231	4,937	4,837	131,099	140,342	107,021	\$1,119,082,289	\$878,944,774	\$315,669,160	\$422,096,747	\$324,597,395	\$116,620,245
Less than \$5,000.....	( <sup>2</sup> )	1,122	1,089	( <sup>2</sup> )	941	3,040	( <sup>2</sup> )	2,706,913	4,227,777	( <sup>2</sup> )	1,631,219	2,547,434
\$5,000 to \$19,999.....	1,101	1,603	1,767	3,992	5,486	11,346	12,343,262	17,830,308	17,825,972	7,508,332	8,972,817	8,899,931
\$20,000 to \$99,999.....	1,131	1,273	899	12,910	14,026	18,344	54,630,995	57,806,410	38,980,488	29,521,991	25,632,799	17,364,568
\$20,000 to \$49,999.....	679	( <sup>2</sup> )	( <sup>2</sup> )	5,633	( <sup>2</sup> )	( <sup>2</sup> )	22,227,521	( <sup>2</sup> )	( <sup>2</sup> )	12,559,145	( <sup>2</sup> )	( <sup>2</sup> )
\$50,000 to \$99,999.....	452	( <sup>2</sup> )	( <sup>2</sup> )	7,277	( <sup>2</sup> )	( <sup>2</sup> )	32,403,474	( <sup>2</sup> )	( <sup>2</sup> )	16,962,846	( <sup>2</sup> )	( <sup>2</sup> )
\$100,000 to \$499,999.....	702	675	441	29,861	29,068	46,859	156,830,044	148,743,829	130,048,877	77,406,220	63,006,491	53,355,009
\$100,000 to \$249,999.....	464	( <sup>2</sup> )	( <sup>2</sup> )	14,301	( <sup>2</sup> )	( <sup>2</sup> )	73,364,794	( <sup>2</sup> )	( <sup>2</sup> )	36,877,409	( <sup>2</sup> )	( <sup>2</sup> )
\$250,000 to \$499,999.....	238	( <sup>2</sup> )	( <sup>2</sup> )	15,560	( <sup>2</sup> )	( <sup>2</sup> )	83,465,250	( <sup>2</sup> )	( <sup>2</sup> )	40,528,811	( <sup>2</sup> )	( <sup>2</sup> )
\$500,000 to \$999,999.....	130	123	( <sup>2</sup> )	14,036	14,772	( <sup>2</sup> )	90,639,175	86,730,231	( <sup>2</sup> )	42,149,406	36,786,292	( <sup>2</sup> )
\$1,000,000 and over.....	187	141	41	70,300	76,049	28,332	804,638,823	560,618,088	124,589,041	265,510,798	188,597,777	34,453,258
\$1,000,000 to \$2,499,999.....	110	( <sup>2</sup> )	( <sup>2</sup> )	25,395	( <sup>2</sup> )	( <sup>2</sup> )	172,613,055	( <sup>2</sup> )	( <sup>2</sup> )	77,193,635	( <sup>2</sup> )	( <sup>2</sup> )
\$2,500,000 to \$4,999,999.....	26	( <sup>2</sup> )	( <sup>2</sup> )	11,260	( <sup>2</sup> )	( <sup>2</sup> )	91,794,576	( <sup>2</sup> )	( <sup>2</sup> )	37,809,636	( <sup>2</sup> )	( <sup>2</sup> )
\$5,000,000 and over.....	31	( <sup>2</sup> )	( <sup>2</sup> )	33,645	( <sup>2</sup> )	( <sup>2</sup> )	540,331,192	( <sup>2</sup> )	( <sup>2</sup> )	150,537,227	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1910 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	3,231	4,937	131,099	140,342	\$1,119,082,289	\$878,944,774	\$422,096,747	\$324,597,395
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1,355	1,209	110,026	110,856	1,007,994,680	707,408,302	371,038,513	268,834,823
Other forms of ownership or control (individual, partnership, etc.).....	1,876	3,728	20,174	29,486	111,087,609	166,536,472	51,058,234	65,762,572
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	443	( <sup>1</sup> )	66,669	( <sup>1</sup> )	704,949,961	( <sup>1</sup> )	226,633,368	( <sup>1</sup> )
Independent (single-unit).....	2,788	( <sup>1</sup> )	64,430	( <sup>1</sup> )	414,132,328	( <sup>1</sup> )	105,413,879	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR THE BALTIMORE INDUSTRIAL AREA AND IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY												ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Electric motors driven by purchased energy				
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower			
The State:															
1929.....	659,823	297,592	1,454	95,225	154	118,795	230	79,797	40	3,775	37,675	362,231	10,020	297,684	
1927.....	579,713	275,434	1,454	104,461	99	85,621	301	80,473	63	4,879	30,373	304,279	7,815	244,733	
1925.....	544,558	259,220	1,598	109,473	134	65,165	329	79,892	67	4,690	24,909	285,338	6,462	213,117	
1919.....	406,637	261,606	2,191	149,756	96	27,350	567	65,493	222	9,007	15,654	156,031	5,325	168,780	
1914.....	262,199	219,956	2,574	196,199	( <sup>2</sup> )	( <sup>2</sup> )	522	13,822	250	9,935	5,863	42,243	4,284	75,464	
Baltimore Industrial Area (Baltimore County and the independent city of Baltimore).....	503,520	215,243	824	63,941	117	76,231	70	74,815	9	1,166	29,834	288,277	7,212	238,004	
Counties and city in which aggregate horsepower exceeded 25,000: 1929															
Allegany County.....	63,430	32,616	34	4,884	8	27,632					3,154	30,914	1,618	41,000	
Baltimore County.....	209,729	159,044	457	20,772	19	63,629	29	73,555	6	1,088	2,090	50,685	4,723	206,468	
Baltimore city.....	293,761	56,199	367	42,269	68	12,602	41	1,260	3	68	27,738	237,592	2,489	81,533	

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

CENSUS OF MANUFACTURES: 1929

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES, AND FOR BALTIMORE CITY: 1929

COUNTY OR CITY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY OR CITY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	659,823	207,592	362,231	297,984	Frederick County.....	12,523	3,825	8,098	849
Allegheny County.....	63,430	32,516	30,914	41,000	Garrett County.....	466	405	61	5
Anne Arundel County.....	1,610	413	1,197	( <sup>2</sup> )	Harford County.....	2,800	1,743	1,057	5
Baltimore County.....	208,726	159,044	50,685	206,468	Howard County.....	6,891	5,380	1,511	1,848
Baltimore city (independent, not included in any county).....	293,791	56,199	237,592	31,533	Kent County.....	1,028	864	164	8
Calvert County.....	272	272			Montgomery County.....	3,264	467	2,797	15
Caroline County.....	1,849	1,266	588	103	Prince Georges County.....	680	246	434	
Carroll County.....	16,110	8,800	7,310	6,089	Queen Annes County.....	1,082	779	308	
Cecil County.....	4,706	3,800	906	686	St. Marys County.....	619	600	19	
Charles County.....	172	130	42		Somerset County.....	3,002	1,597	1,405	
Dorchester County.....	3,904	2,273	1,631		Talbot County.....	2,069	1,410	650	
					Washington County.....	23,316	11,825	11,491	9,047
					Wicomico County.....	4,112	1,645	2,467	310
					Worcester County.....	2,398	2,093	306	46

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.  
<sup>2</sup> Item for Anne Arundel County combined with that for Howard County to avoid disclosing data for a single establishment.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume 1, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	3,651,911	\$14,898,815	3,100,249	2,878,753	2,093,235	1,508,418	1,734,662
Anthracite (tons, 2,240 pounds).....	134,048	598,497	( <sup>3</sup> )	151,695	65,239	127,598	84,091
Bituminous (tons, 2,000 pounds).....	3,501,777	14,210,318	( <sup>3</sup> )	2,708,555	2,020,167	1,425,508	1,640,480
Coke (tons, 2,000 pounds).....	1,451,396	6,460,088	( <sup>4</sup> )	( <sup>4</sup> )	430,764	320,133	433,044
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	181,269,216	5,723,778	( <sup>4</sup> )	( <sup>4</sup> )	45,629,808	26,153,148	10,543,554
Gasoline and kerosene (gallons) <sup>5</sup> .....	307,816	40,742	( <sup>4</sup> )	( <sup>4</sup> )	1,394,568		
Gas, natural (M cubic feet).....	92,540	47,155	( <sup>4</sup> )	( <sup>4</sup> )			
Gas, manufactured (M cubic feet).....	23,248,636	3,797,653	( <sup>4</sup> )	( <sup>4</sup> )	1,270,991	1,102,357	1,281,303
Other fuels.....		533,640	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt hours).....	463,644,743	6,369,143	( <sup>6</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Total cost of fuel and purchased energy.....		\$7,37,789,914	\$32,985,203	( <sup>6</sup> )	\$21,651,071	\$7,725,083	\$7,044,040

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.  
<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.  
<sup>3</sup> Not tabulated separately.  
<sup>4</sup> No data.  
<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.  
<sup>6</sup> Data incomplete.  
<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.  
<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER-EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	3,231	19,807	131,099	297,592	362,231	\$46,178,193	\$148,835,163	\$662,885,813	\$34,099,729	\$1,119,082,289	\$422,096,747
Aircraft and parts.....	5	299	468		1,902	555,072	517,462	458,147	23,070	1,705,361	1,224,144
Awnings, tents, sails, and canvas covers.....	19	23	31		41	49,594	83,415	219,451	2,088	460,162	233,623
Bags, other than paper, not made in textile mills.....	9	10	137		113	41,922	95,413	1,527,221	4,116	1,931,493	400,156
Baking powders, yeast, and other leavening compounds.....	3	20	137	1,930	721	75,525	225,765	530,840	78,411	1,292,049	676,798
Baskets and rattan and willow ware, not including furniture.....	10	10	268		65	20,977	174,074	198,187	2,276	568,054	367,591
Beverages.....	69	106	519		393	2,464	272,162	1,308,674	114,692	3,956,862	2,473,596
Blacking, stains, and dressings.....	7	29	53		18	67,497	41,670	149,944	2,614	403,324	250,760
Bookbinding and blank-book making.....	13	19	261		191	60,667	263,677	170,938	8,283	678,644	493,428

See footnotes at end of table.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>1</sup>
				Prime movers	Electric motors driven by purchased energy						
Boots and shoes, other than rubber.....	13	210	2,239	360	1,175	\$461,857	\$1,981,327	\$4,529,348	\$51,197	\$8,488,619	\$3,908,074
Boxes, cigar, wooden.....	3	3	56	41	2	4,910	42,051	44,367	1,028	120,142	74,747
Boxes, paper, not elsewhere classified.....	29	133	1,301	1,205	1,373	351,739	1,012,701	2,814,974	63,639	5,145,420	2,260,816
Boxes, wooden, except cigar boxes.....	23	72	1,136	3,050	1,502	190,523	900,975	2,105,792	21,151	3,792,629	1,666,080
Bread and other bakery products.....	290	403	3,452	136	7,013	921,916	4,404,532	12,121,310	482,714	25,010,441	12,406,417
Brushes, other than rubber.....	8	129	806	1,481	140	298,977	745,359	2,263,804	21,300	3,944,304	1,659,200
Butter.....	5	2	24	24	181	1,739	1,739	64,909	1,132	68,167	12,126
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	8	15	141	78	30	30,514	61,152	314,444	5,607	494,458	174,407
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	264	563	6,059	8,934	4,247	991,728	3,184,522	19,381,067	201,291	30,283,185	10,610,827
Car and general construction and repairs, steam-railroad repair shops.....	19	449	7,504	8,419	16,257	1,221,753	12,108,193	14,121,552	609,550	28,021,053	13,889,951
Chemicals, not elsewhere classified.....	9	141	1,230	1,100	5,225	305,826	1,512,963	6,921,151	660,990	12,042,414	5,351,273
Cigars and cigarettes.....	20	44	563	84	84	73,850	391,139	853,958	5,798	1,775,075	915,919
Clay products (other than pottery) and non-clay refractories.....	23	95	1,076	1,725	5,694	208,085	1,154,030	2,631,344	562,781	5,612,657	2,418,532
Cleaning and polishing preparations.....	7	29	27	54	54	27,806	27,336	165,608	3,628	554,054	384,818
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	217	851	10,007	800	1,654	1,843,470	9,015,520	21,336,359	215,297	45,270,809	23,725,153
Clothing, men's, buttonholes.....	4	1	27	7	7	(*)	27,204	4,922	429	55,788	50,437
Clothing, women's, not elsewhere classified.....	80	298	3,769	20	802	853,220	3,153,128	8,500,830	64,550	10,685,638	8,120,208
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	11	82	679	181	181	142,480	641,364	3,458,407	12,589	5,028,953	1,557,057
Cloth sponging and refinishing.....	3	11	48	32	32	30,521	74,556	74,556	6,102	178,318	172,038
Coffee and spice, roasting and grinding.....	21	135	203	1,345	1,345	396,114	237,106	7,690,360	48,181	10,361,275	2,622,734
Concrete products.....	42	55	306	179	797	122,593	360,752	495,328	20,003	1,445,440	930,100
Condensed and evaporated milk.....	6	12	54	665	337	21,387	51,414	861,742	40,700	1,288,226	885,784
Confectionery.....	46	174	1,187	385	1,371	385,254	846,113	3,221,447	78,012	6,003,174	2,703,715
Cooperage.....	20	29	293	425	407	81,381	322,417	1,248,069	11,346	2,042,454	782,139
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	26	37	278	150	439	151,882	389,272	853,150	12,280	1,838,394	672,094
Cotton goods.....	9	150	1,901	4,125	9,169	340,080	1,570,859	4,825,285	252,737	8,447,031	3,368,059
Dyeing and finishing textiles.....	5	11	53	343	343	35,105	50,184	79,062	20,015	212,469	112,732
Electrical machinery, apparatus, and supplies.....	14	590	665	8,369	8,369	603,540	875,246	2,758,990	34,639	5,186,720	2,393,335
Electroplating.....	7	5	45	115	115	10,351	57,717	19,980	4,235	130,615	115,894
Embroideries.....	6	19	132	39	39	65,228	96,897	139,295	2,564	402,406	290,557
Engines, turbines, tractors, and water wheels.....	3	7	13	25	0	14,609	20,778	25,034	1,819	74,326	47,473
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	5	2	18	10	(*)	(*)	25,483	8,245	282	71,087	62,500
Engraving, steel and copperplate, and plate printing.....	6	10	47	48	48	19,314	45,936	24,229	1,071	125,638	100,338
Envelopes.....	4	17	92	160	160	40,592	98,075	284,982	5,869	684,040	293,239
Feeds, prepared, for animals and fowls.....	12	60	174	119	1,951	128,167	153,366	3,818,056	44,320	4,607,225	644,249
Fertilizers.....	39	572	2,855	1,306	23,739	1,402,342	2,819,099	16,292,772	472,300	25,506,620	8,771,548
Flavoring extracts and flavoring sirups.....	19	47	101	450	354	111,793	124,829	3,691,810	32,191	6,263,851	5,629,850
Flour and grain-mill products.....	96	33	250	3,207	3,465	140,258	275,443	6,475,741	98,367	1,620,089	1,020,089
Food preparations, not elsewhere classified.....	19	72	190	23	185	208,779	164,305	1,430,236	37,490	2,514,194	1,045,348
Foundry and machine-shop products, not elsewhere classified.....	121	995	4,735	1,204	18,113	2,779,238	6,464,776	10,069,405	478,794	26,515,394	15,967,195
Fur goods.....	23	19	105	29	29	52,272	121,917	495,484	3,758	830,820	331,587
Furnishing goods, men's, not elsewhere classified.....	44	231	4,634	330	956	585,493	2,718,830	8,061,408	68,121	15,598,981	7,469,467
Furniture, including store and office fixtures.....	64	334	2,409	355	6,456	706,762	2,804,651	6,011,633	126,931	12,206,930	6,068,276
Gas and electric fixtures; lamps, lanterns, and reflectors.....	6	10	26	82	82	19,355	28,445	50,926	1,708	150,675	92,041
Gas, manufactured, illuminating and heating.....	11	663	665	8,175	2,059	1,174,621	823,712	1,061,644	1,359,345	11,314,576	8,293,587
Glass.....	7	140	1,603	230	3,697	484,116	1,629,697	847,912	412,342	5,039,607	3,770,353
Glass products (except mirrors) made from purchased glass.....	9	18	64	23	23	21,021	74,385	95,136	6,732	224,068	122,200
Grease and tallow, not including lubricating greases.....	5	14	117	260	20	60,064	154,506	400,809	76,177	744,606	267,620
Hand stamps and stencils and brands.....	3	9	9	2	2	10,715	11,451	11,451	38,161	21,710	21,710
Hats and caps, except felt and straw, men's.....	15	24	99	25	25	46,758	108,921	292,548	2,591	642,256	347,117
House-furnishing goods, not elsewhere classified.....	9	34	140	99	99	60,164	111,208	654,274	3,420	1,008,116	350,413
Ice cream.....	51	100	333	121	4,890	320,624	455,151	2,596,144	134,590	6,017,606	3,289,872
Ice, manufactured.....	67	107	397	4,742	12,393	241,936	528,147	128,113	441,853	3,713,640	3,107,675
Jewelry.....	12	31	71	37	37	60,837	101,804	128,841	3,851	426,123	293,931
Knit goods.....	8	43	843	95	406	86,102	457,105	1,103,218	24,492	2,226,890	1,098,219
Leather goods, not elsewhere classified.....	6	15	61	25	22	34,133	40,900	100,816	1,965	244,923	136,148
Leather: Tanned, curried, and finished.....	4	49	641	1,475	443	249,251	541,014	3,283,046	58,519	5,674,094	2,331,630
Lime.....	6	29	256	1,430	1,838	64,487	175,934	205,684	87,967	589,522	295,571
Lithographing.....	11	192	806	250	1,616	522,763	1,193,844	1,750,551	49,951	4,015,873	8,121,371
Lubricating oils and greases, not made in petroleum refineries.....	7	73	59	5	171	136,946	85,616	1,085,004	7,848	2,388,724	666,872
Lumber and timber products, not elsewhere classified.....	98	42	810	2,952	835	136,657	664,755	929,366	9,025	2,488,683	1,550,302
Macaroni, spaghetti, vermicelli, and noodles.....	6	6	38	149	149	6,266	43,497	167,945	6,560	327,188	153,283
Marble, granite, slate, and other stone products.....	34	102	566	205	6,221	340,833	933,398	1,067,361	82,373	3,043,041	1,894,207
Mattresses and bed springs, not elsewhere classified.....	13	62	360	150	523	160,129	381,393	1,155,657	21,749	2,558,781	1,381,375
Meat packing, wholesale.....	44	489	1,753	1,859	4,854	932,448	2,356,573	38,816,846	243,071	46,215,184	7,156,267
Mirror and picture frames.....	8	27	219	160	192	58,156	183,612	282,605	7,417	722,055	432,033
Mirrors, framed and unframed.....	4	11	50	60	60	17,304	49,904	102,620	4,380	247,663	140,657
Models and patterns, not including paper patterns.....	10	35	35	99	99	54,456	27,215	27,215	816	130,147	102,116

See footnotes at end of table.



## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

(See headnote on first page of this table)

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Motor-vehicle bodies and motor-vehicle parts...	13	18	165	-----	342	\$32,303	\$251,135	\$212,389	\$7,342	\$607,398	\$387,067
Nonferrous-metal alloys and products, not including aluminum products.....	23	624	1,872	40	22,106	935,595	2,491,104	20,535,108	483,972	38,507,710	8,488,579
Paints and varnishes.....	21	148	480	370	2,111	410,860	609,103	3,120,011	195,537	5,877,347	2,555,799
Paper.....	6	88	1,240	21,626	5,206	300,060	1,400,721	7,133,934	449,418	10,410,840	2,830,488
Patent or proprietary medicines and compounds.....	37	246	508	200	1,419	854,808	528,711	4,023,734	55,697	13,861,209	9,281,778
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	3	11	52	-----	548	20,881	55,947	230,389	24,189	638,024	377,440
Perfumes, cosmetics, and other toilet preparations.....	16	36	87	-----	41	70,850	67,606	404,828	2,535	965,268	557,905
Petroleum refining.....	4	243	1,021	15,631	2,028	515,740	1,675,799	34,709,789	42,452	43,456,428	8,707,187
Photo-engraving, not done in printing establishments.....	7	38	127	-----	117	145,933	383,618	133,803	12,284	854,653	708,566
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	59	320	1,218	2,461	7,440	721,089	1,430,858	3,854,044	80,293	7,292,370	3,348,442
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	6	95	1,138	-----	9,446	203,062	1,337,912	1,216,419	227,560	4,812,014	3,368,035
Poultry killing, dressing, and packing, wholesale.....	4	5	32	-----	8	12,700	36,743	695,268	1,822	787,333	90,243
Printing and publishing, book and job.....	201	595	2,531	703	3,609	1,458,206	3,522,267	4,506,138	133,214	13,824,355	9,184,973
Printing and publishing, newspaper and periodical.....	91	1,780	1,595	10	3,351	3,695,855	2,901,400	4,328,140	127,887	16,659,239	12,203,212
Printing materials, not including type or ink.....	4	3	14	-----	2	8,208	19,884	20,949	1,545	122,366	99,872
Regalia, badges, and emblems.....	5	11	48	-----	38	19,744	46,555	40,731	2,102	140,093	91,260
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	18	12	74	-----	466	27,949	115,691	1,358,194	21,158	1,890,206	510,850
Ship and boat building, steel and wooden, including repair work.....	24	181	2,312	63	12,629	479,710	3,381,397	2,548,511	102,247	8,310,347	5,699,580
Shirts.....	42	123	2,461	27	483	250,479	1,475,551	4,253,434	42,704	8,010,437	3,714,239
Signs and advertising novelties.....	21	89	610	322	159	268,967	744,110	755,367	58,124	2,657,074	1,843,683
Silk and rayon manufactures.....	6	34	869	-----	808	71,516	602,263	349,020	64,104	1,514,726	1,101,602
Silversmithing and silverware.....	4	43	244	-----	312	157,692	332,696	590,568	17,646	1,518,077	900,863
Stereotyping and electrotyping, not done in printing establishments.....	4	22	51	-----	211	79,827	80,880	34,697	7,333	287,871	245,841
Stoves and ranges (other than electric) and warm-air furnaces.....	7	191	564	-----	1,235	420,665	690,215	1,435,023	89,597	3,838,543	2,313,923
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	17	261	627	327	1,651	547,798	816,779	3,535,734	32,983	6,092,215	2,523,448
Surgical and orthopedic appliances, including artificial limbs.....	4	1	13	-----	11	(*)	17,483	10,965	294	46,035	34,776
Tin cans and other tinware, not elsewhere classified.....	22	504	4,555	1,106	6,604	1,148,273	4,611,223	25,487,336	247,539	38,402,438	12,067,563
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	5	30	180	60	76	108,469	164,968	355,175	4,293	794,238	434,770
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	8	8	65	-----	26	8,501	62,440	210,112	2,558	383,309	170,639
Trunks, suitcases, and bags.....	4	6	55	-----	27	6,589	53,771	110,053	1,278	237,237	125,906
Umbrellas, parasols, and canes.....	5	58	420	-----	53	135,485	283,974	1,550,749	6,013	2,355,923	799,161
Window and door screens and weather strip.....	6	19	62	-----	138	30,263	60,448	93,816	1,351	275,817	180,650
Window shades and fixtures.....	10	33	36	-----	22	85,575	107,757	818,890	4,862	1,304,173	480,421
Wirework, not elsewhere classified.....	13	77	378	-----	616	236,394	357,934	1,054,613	21,658	2,575,333	1,499,062
Wood turned and shaped and other wooden goods, not elsewhere classified.....	7	12	99	-----	100	21,609	109,871	176,107	6,223	358,060	176,330
Woolen goods.....	3	30	505	1,535	123	119,214	468,844	1,428,078	37,140	2,657,742	1,192,524
Other industries.....	214	3,755	32,126	187,533	107,844	9,739,291	42,892,461	279,931,886	23,249,620	428,316,126	125,134,620

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 1,454 employees of central administrative offices, with salaries aggregating \$4,001,926. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."



TABLE 13.—GENERAL STATISTICS FOR THE BALTIMORE INDUSTRIAL AREA AND FOR BALTIMORE CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR ALLEGANY COUNTY AND FOR BALTIMORE COUNTY: 1929

[This table presents, for the Baltimore Industrial Area and for Baltimore city, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the industries shown separately. The counties of Allegany and Baltimore are also industrially important, but no statistics by industries can be given for them, for the reasons stated in the explanatory notes]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>All industries, total.....</b>	<b>2, 211</b>	<b>16, 568</b>	<b>99, 001</b>	<b>215, 243</b>	<b>288, 277</b>	<b>\$39, 126, 975</b>	<b>\$119, 016, 764</b>	<b>\$576, 084, 500</b>	<b>\$30, 162, 824</b>	<b>\$949, 853, 476</b>	<b>\$343, 016, 062</b>
Awnings, tents, sails, and canvas covers.....	16	20	74	-----	31	43, 234	77, 765	200, 061	1, 870	414, 766	212, 835
Bags, other than paper, not made in textile mills.....	9	19	137	-----	113	41, 922	95, 413	1, 527, 221	4, 116	1, 031, 493	400, 166
Baking powders, yeast, and other leavening compounds.....	3	20	137	1, 930	721	75, 525	225, 705	536, 840	78, 411	1, 292, 049	676, 798
Baskets and rattan and willow ware, not including furniture.....	3	-----	11	-----	1	-----	10, 030	11, 816	71	26, 725	14, 338
Beverages.....	39	92	397	393	2, 215	243, 097	536, 293	980, 680	97, 439	2, 966, 545	1, 888, 426
Blacking, stains, and dressings.....	7	29	53	18	38	67, 497	41, 070	149, 944	2, 614	403, 324	260, 760
Bookbinding and blank-book making.....	13	10	261	-----	191	60, 667	263, 677	176, 933	8, 283	678, 644	463, 423
Boots and shoes, other than rubber.....	10	94	1, 086	-----	544	226, 781	1, 097, 518	2, 166, 079	31, 483	4, 166, 197	1, 977, 635
Boxes, cigar, wooden.....	3	3	56	41	2	4, 910	42, 051	44, 367	1, 028	120, 142	74, 747
Boxes, paper, not elsewhere classified.....	25	110	1, 103	25	1, 250	309, 354	801, 356	2, 571, 452	44, 642	4, 680, 420	2, 064, 320
Boxes, wooden, except cigar boxes.....	13	60	658	2, 485	1, 287	173, 503	824, 782	1, 941, 244	17, 536	3, 343, 066	1, 384, 286
Bread and other bakery products.....	246	354	2, 931	130	5, 889	780, 731	3, 806, 190	10, 420, 465	402, 365	21, 047, 878	10, 825, 048
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	4	11	103	-----	25	29, 816	47, 080	233, 305	4, 457	304, 481	126, 719
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces.....	39	253	1, 814	616	1, 492	652, 586	1, 155, 182	7, 475, 501	112, 037	11, 770, 243	4, 182, 705
Chemicals, not elsewhere classified <sup>1</sup> .....	9	141	1, 236	1, 100	5, 225	305, 826	1, 512, 998	6, 921, 151	669, 990	12, 942, 414	5, 351, 273
Cigars and cigarettes.....	16	44	640	-----	84	73, 850	381, 518	837, 288	5, 700	1, 737, 457	894, 409
Clay products (other than pottery) and nonclay refractories.....	8	47	602	766	3, 422	130, 288	707, 731	2, 389, 486	366, 507	4, 317, 501	1, 561, 508
Cleaning and polishing preparations.....	7	29	27	-----	54	67, 806	27, 336	165, 603	3, 028	554, 054	384, 818
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	210	824	9, 363	860	1, 460	1, 804, 704	8, 589, 105	20, 268, 604	190, 441	43, 238, 420	22, 770, 375
Clothing, men's, buttonholes.....	4	1	27	-----	7	(?)	27, 204	4, 022	429	55, 788	50, 437
Clothing, women's, not elsewhere classified.....	72	291	3, 481	-----	720	843, 818	3, 013, 407	8, 499, 480	60, 200	10, 610, 450	7, 956, 770
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	8	76	567	-----	153	129, 442	588, 208	3, 385, 202	10, 874	4, 861, 014	1, 404, 938
Cloth sponging and refinishing.....	3	11	48	-----	32	39, 521	74, 556	173	0, 102	173, 318	172, 038
Coffee and spice, roasting and grinding.....	18	131	191	-----	1, 293	387, 621	223, 617	7, 514, 721	45, 825	10, 141, 000	2, 580, 520
Concrete products.....	20	41	210	44	691	99, 239	264, 011	305, 119	15, 182	1, 091, 949	708, 648
Confectionery.....	43	172	1, 178	355	1, 853	382, 654	836, 703	3, 201, 639	75, 931	5, 643, 774	2, 669, 204
Cooperage.....	8	27	262	385	384	78, 861	297, 292	1, 125, 511	11, 046	1, 865, 045	728, 488
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified <sup>1</sup> .....	20	87	278	150	439	151, 882	389, 272	853, 150	12, 280	1, 838, 394	972, 064
Dyeing and finishing textiles <sup>1</sup> .....	5	11	53	-----	343	38, 105	59, 184	79, 602	20, 018	212, 409	112, 732
Electrical machinery, apparatus, and supplies <sup>1</sup> .....	14	590	665	-----	8, 369	603, 640	875, 246	2, 758, 696	34, 639	5, 186, 720	2, 393, 536
Electroplating.....	7	5	45	-----	115	10, 351	57, 717	19, 986	4, 235	139, 015	115, 394
Embroideries.....	6	19	132	-----	30	65, 228	96, 897	139, 295	2, 564	402, 400	260, 557
Engraving (other than steel, copperplate, or wood), chasing, etching, and dieinking.....	5	2	18	-----	10	(?)	25, 483	8, 245	282	71, 067	62, 660
Engraving steel and copperplate, and plate printing.....	6	10	47	-----	48	19, 314	46, 936	24, 226	1, 071	125, 638	100, 338
Envelopes.....	4	17	92	-----	150	49, 692	98, 076	284, 932	5, 969	684, 040	293, 230
Feeds, prepared, for animals and fowls.....	6	31	92	-----	543	58, 217	77, 892	1, 082, 884	17, 713	1, 359, 748	253, 151
Fertilizers.....	17	479	2, 696	1, 075	22, 591	1, 236, 946	2, 030, 185	14, 377, 097	455, 701	22, 600, 588	6, 667, 790
Flavoring extracts and flavoring sirups.....	19	47	101	450	354	111, 793	124, 829	3, 601, 810	32, 191	6, 643, 774	5, 029, 850
Flour and other grain-mill products.....	8	7	9	-----	102	6, 818	8, 540	161, 306	3, 352	231, 726	67, 008
Food preparations, not elsewhere classified.....	15	71	182	23	177	203, 187	156, 426	1, 402, 139	35, 994	2, 442, 301	1, 004, 108
Foundry and machine-shop products, not elsewhere classified.....	102	797	4, 002	974	14, 960	2, 283, 820	5, 478, 583	8, 000, 957	396, 647	22, 423, 931	13, 426, 357
Fur goods.....	23	19	105	-----	29	52, 272	121, 917	495, 484	3, 758	830, 829	331, 587
Furnishing goods, men's, not elsewhere classified.....	24	208	3, 711	330	798	547, 953	2, 297, 903	7, 470, 701	47, 773	14, 329, 054	6, 810, 680
Furniture, including store and office fixtures.....	55	253	1, 850	100	4, 555	547, 671	2, 298, 071	5, 275, 507	88, 605	10, 350, 312	4, 986, 500
Gas and electric fixtures; lamps, lanterns, and reflectors.....	6	10	26	-----	82	10, 355	28, 445	58, 926	1, 708	150, 675	92, 041
Glass <sup>1</sup> .....	7	140	1, 003	230	3, 597	484, 116	1, 620, 697	847, 012	412, 342	5, 039, 607	3, 779, 353
Glass products (except mirrors) made from purchased glass.....	9	13	64	-----	23	21, 021	74, 385	95, 136	6, 732	224, 068	122, 200
Hand stamps and stencils and brands.....	3	-----	9	-----	2	-----	10, 715	11, 451	-----	33, 161	21, 710
Hats and caps, except felt and straw, men's.....	15	24	99	-----	25	46, 758	108, 921	292, 548	2, 591	642, 266	347, 117
House-furnishing goods, not elsewhere classified.....	9	34	140	-----	99	60, 164	111, 208	654, 274	3, 429	1, 008, 116	350, 413
Ice cream.....	29	69	186	-----	3, 667	263, 683	259, 678	2, 000, 231	78, 657	4, 588, 249	2, 507, 361
Ice, manufactured.....	22	63	183	2, 125	8, 176	135, 135	272, 177	78, 410	284, 770	2, 594, 850	2, 233, 661
Jewelry.....	12	31	71	-----	37	69, 837	101, 804	128, 541	3, 851	426, 123	293, 931
Lithographing.....	11	192	805	250	1, 516	522, 753	1, 193, 844	1, 750, 851	43, 951	4, 015, 873	3, 121, 371
Lubricating oils and greases, not made in petroleum refineries.....	7	73	59	5	171	136, 946	85, 614	1, 655, 004	7, 848	2, 388, 724	695, 372
Marble, granite, slate, and other stone products.....	25	73	401	105	3, 790	257, 322	621, 025	773, 989	47, 362	2, 122, 938	1, 301, 687
Mattresses and bed springs, not elsewhere classified <sup>1</sup> .....	13	62	360	150	623	100, 129	381, 303	1, 155, 657	21, 749	2, 558, 781	1, 381, 375
Meat packing, wholesale.....	40	480	1, 715	1, 833	4, 342	914, 320	2, 310, 121	37, 013, 183	226, 454	45, 147, 536	7, 007, 890
Mirror and picture frames.....	8	27	50	150	192	55, 156	183, 612	232, 605	7, 417	722, 055	432, 033
Mirrors, framed and unframed.....	4	11	219	-----	60	17, 304	49, 904	102, 620	4, 386	247, 063	140, 657
Models and patterns, not including paper patterns.....	10	-----	35	-----	99	-----	64, 456	27, 215	816	130, 147	102, 116
Motor-vehicle bodies and motor-vehicle parts <sup>1</sup> .....	13	18	165	-----	342	32, 303	251, 135	212, 389	7, 342	607, 398	387, 067
Nonferrous-metal alloys and products, not including aluminum products.....	23	624	1, 872	40	22, 106	935, 595	2, 491, 104	29, 585, 168	483, 972	38, 507, 710	8, 488, 579

See footnotes at end of this section, p. 224.

CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE BALTIMORE INDUSTRIAL AREA AND FOR BALTIMORE CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR ALLEGANY COUNTY AND FOR BALTIMORE COUNTY: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Primomovers	Electric motors driven by purchased energy						
<b>BALTIMORE INDUSTRIAL AREA—Continued</b>											
Paints and varnishes.....	21	148	480	370	2,111	\$416,869	\$609,103	\$3,126,011	\$195,537	\$5,877,347	\$2,555,799
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	3	11	52	-----	548	20,881	55,947	236,380	24,180	638,024	377,446
Petroleum refining.....	4	243	1,021	15,631	2,028	515,740	1,675,799	34,706,789	42,452	43,456,428	8,707,187
Photo-engraving, not done in printing establishments.....	7	38	127	-----	117	145,933	333,618	133,803	12,284	854,653	708,566
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	34	167	760	1,501	4,726	393,238	932,384	2,490,670	48,831	4,561,850	2,022,440
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	6	95	1,138	-----	0,440	203,062	1,337,912	1,216,410	227,500	4,812,014	3,368,035
Poultry killing, dressing, and packing, wholesale.....	4	5	32	-----	8	12,700	36,743	695,268	1,822	787,333	90,243
Printing and publishing, book and job.....	179	565	2,400	701	3,456	1,411,939	3,372,200	4,311,289	125,227	13,275,086	8,838,570
Printing and publishing, newspaper and periodical.....	41	1,515	1,230	-----	2,728	3,247,847	2,394,091	3,924,095	98,025	14,302,919	10,280,799
Printing materials, not including type or ink.....	4	3	14	2	18	8,208	19,884	20,949	1,545	122,366	90,872
Regalia, badges, and emblems.....	5	11	43	-----	38	19,744	46,555	40,731	2,102	140,093	91,260
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	18	12	74	-----	466	27,049	115,691	1,358,104	21,153	1,899,206	519,850
Ship and boat building, steel and wooden, including repair work.....	11	162	2,690	-----	12,078	439,382	3,119,412	2,268,645	156,088	7,666,804	5,241,471
Shirts.....	10	82	1,120	-----	222	187,085	782,206	3,293,781	20,610	5,930,011	2,615,614
Signs and advertising novelties.....	21	89	610	322	150	268,867	744,110	755,367	68,124	2,657,074	1,843,585
Silversmithing and silverware.....	4	43	244	-----	312	157,692	382,696	590,568	17,040	1,518,077	909,803
Stereotyping and electrotyping, not done in printing establishments.....	4	22	51	-----	211	79,827	80,880	34,607	7,333	287,871	245,841
Stoves and ranges (other than electric) and warm-air furnaces.....	7	191	504	-----	1,235	429,565	696,215	1,435,023	80,597	3,838,543	2,313,923
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	17	261	627	327	1,651	547,798	816,779	3,535,784	32,083	6,092,215	2,523,448
Surgical and orthopedic appliances, including artificial limbs.....	4	1	13	-----	11	(?)	17,483	10,965	294	46,035	34,776
Tin cans and other tinware, not elsewhere classified.....	18	473	4,392	1,106	6,280	1,097,901	4,473,862	23,007,014	234,637	35,624,777	11,693,126
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	8	8	65	-----	26	8,501	62,440	216,112	2,558	383,309	170,639
Trunks, suitcases, and bags.....	4	0	55	-----	27	6,689	53,774	116,053	1,278	237,237	125,900
Umbrellas, parasols, and canes.....	5	58	420	-----	53	135,485	283,974	1,550,749	6,013	2,555,923	799,101
Window shades and fixtures.....	10	33	86	-----	22	85,575	107,757	818,800	4,862	1,804,173	480,421
Wirework, not elsewhere classified.....	18	77	378	25	616	236,394	357,934	1,054,613	21,658	2,575,333	1,499,062
Other industries.....	291	4,764	33,107	177,871	111,023	11,928,795	45,819,788	277,994,823	23,762,188	428,203,690	120,446,729

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>1</sup> The figures for the following numbers of establishments located outside the area have been included in the items for the area, to avoid disclosing the data reported by those establishments: Chemicals, not elsewhere classified, 1; copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified, 2; dyeing and finishing textiles, 1; electrical machinery, apparatus, and supplies, 1; glass, 2; mattresses and bed springs, not elsewhere classified, 2; motor-vehicle bodies and motor-vehicle parts, 2; sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments, 2; motor-vehicle bodies and motor-vehicle (other than electric) and warm-air furnaces, 1; wirework, not elsewhere classified, 2.

<sup>2</sup> Withheld to avoid disclosing compensation of individual officers or employees, included in item for "Other industries."

<sup>3</sup> The figures for "Other industries" include data for the "Iron and steel: Steel works and rollings mills" industry, which reported a larger number of wage earners than any other industry in the area, and for the "Smelting and refining, copper" industry, which reported a larger value of products than any other industry in the area. Separate figures can not be given for either of these industries without disclosing approximations of the data for individual establishments.

**BALTIMORE CITY (INDEPENDENT, NOT INCLUDED IN ANY COUNTY)**

[The totals for all industries do not include data for a few establishments located outside the city (see footnote 4), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	2,140	15,030	85,655	56,199	237,592	\$35,319,642	\$96,384,335	\$603,008,745	\$18,080,311	\$814,782,197	\$292,843,141
Awnings, tents, sails, and canvas covers.....	16	20	74	-----	31	43,234	77,765	200,061	1,870	414,766	212,835
Bags, other than paper, not made in textile mills.....	9	19	137	-----	113	41,922	95,413	1,527,221	4,116	1,931,493	400,156
Baking powders, yeast, and other leavening compounds.....	3	20	137	1,630	721	75,525	225,765	536,840	78,411	1,292,409	676,798
Baskets and rattan and willow ware, not including furniture.....	3	-----	11	-----	1	-----	10,030	11,816	71	28,725	14,838
Beverages.....	36	88	369	363	2,179	237,297	495,325	932,806	93,508	2,814,671	1,785,367
Blacking, stains, and dressings.....	7	29	53	18	38	67,497	41,670	149,944	2,614	403,324	250,706
Bookbinding and blank-book making.....	13	19	261	-----	101	60,567	263,677	176,938	8,283	678,644	495,423
Boots, and shoes, other than rubber.....	10	94	1,086	-----	544	226,781	1,097,518	2,156,079	31,483	4,165,197	1,977,655
Boxes, cigar, wooden.....	3	3	56	41	2	4,910	42,051	44,367	1,028	120,142	77,747
Boxes, paper, not elsewhere classified.....	25	110	1,103	25	1,250	309,354	891,356	2,571,452	44,042	4,080,420	2,064,320
Bread and other bakery products.....	237	348	2,885	180	5,707	766,907	3,749,348	10,249,202	395,440	21,812,457	10,667,815
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	4	11	103	-----	25	29,816	47,080	233,305	4,457	364,481	126,719
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	39	253	1,814	616	1,492	652,586	1,155,182	7,475,501	112,037	11,770,243	4,182,705
Chemicals, not elsewhere classified.....	9	141	1,236	1,100	5,225	305,826	1,512,968	6,921,151	669,990	12,942,414	5,351,273
Cigars and cigarettes.....	16	44	540	-----	34	73,850	381,518	837,288	5,700	1,737,457	894,469
Clay products (other than pottery) and nonclay refractories.....	8	47	602	766	3,422	130,288	707,731	2,389,486	366,507	4,317,501	1,561,508
Cleaning and polishing preparations.....	7	29	27	-----	54	67,806	27,330	165,608	3,628	564,054	384,818

See footnotes at end of this section, p. 10.

TABLE 13.—GENERAL STATISTICS FOR THE BALTIMORE INDUSTRIAL AREA AND FOR BALTIMORE CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR ALLEGANY COUNTY AND FOR BALTIMORE COUNTY: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	210	824	9,363	860	1,460	\$1,804,704	\$8,680,105	\$20,268,604	\$109,441	\$43,238,420	\$22,770,375
Clothing, men's, buttonholes	4	1	27		7	(9)	27,204	4,922	429	55,788	50,437
Clothing, women's, not elsewhere classified	72	291	3,481		720	843,818	3,013,407	8,499,480	60,200	16,516,450	7,065,770
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	3	76	567		153	120,442	588,208	3,385,202	10,874	4,861,014	1,404,938
Cloth sponging and refinishing	8	11	48		52	39,521	74,556	178	6,102	173,318	172,038
Coffee and spice, roasting and grinding	18	131	191		1,293	387,021	223,017	7,514,771	45,825	10,141,066	2,680,520
Concrete products	14	38	182	29	527	92,408	234,281	328,123	14,120	981,072	638,829
Confectionery	43	172	1,178	355	1,353	382,054	339,703	3,201,630	75,031	5,043,774	2,666,204
Cooperage	8	27	202	385	384	78,881	297,292	1,125,511	11,046	1,865,045	728,488
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	26	87	278	150	439	151,892	330,272	853,150	12,280	1,838,304	972,904
Electrical machinery, apparatus, and supplies	14	590	665		8,309	603,540	875,246	2,758,606	84,039	5,186,720	2,393,385
Electroplating	7	5	45		115	10,351	37,717	19,985	4,235	139,615	115,304
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking	5	2	18		10	(9)	25,483	8,245	282	71,087	62,560
Engraving, steel and copperplate, and plate printing	6	10	47		48	10,314	45,036	24,220	1,071	125,638	100,338
Envelopes	4	17	92		150	49,592	98,075	284,932	5,360	584,040	293,239
Feeds, prepared, for animals and fowls	6	31	92	112	843	58,217	77,802	1,088,884	17,713	1,359,748	253,151
Fertilizers	17	479	2,596	1,075	22,591	1,236,046	2,630,185	14,877,007	455,701	22,500,688	7,087,790
Flavoring extracts and flavoring sirups	19	47	101	450	354	111,793	124,820	3,001,810	32,191	5,628,851	6,029,850
Flour and other grain-mill products	5	7	6	27	102	6,818	6,404	132,866	3,352	101,853	55,635
Food preparations, not elsewhere classified	15	71	182	23	177	203,187	150,426	1,402,139	35,064	2,442,801	1,004,198
Foundry and machine-shop products, not elsewhere classified	102	797	4,002	974	14,060	2,233,820	5,478,683	8,000,957	306,047	22,423,031	13,420,827
Fur goods	23	19	105		29	52,272	121,917	496,484	3,758	830,829	331,587
Furnishing goods, men's, not elsewhere classified	24	208	3,711	330	798	547,353	2,207,003	7,470,701	47,773	14,829,054	6,810,580
Furniture, including store and office fixtures	55	253	1,850	100	4,555	547,071	2,298,071	6,276,507	88,605	10,350,312	4,086,200
Gas and electric fixtures, lamps, lanterns, and reflectors	6	10	26		82	19,355	28,445	50,920	1,708	150,675	92,041
Glass	7	140	1,603	230	3,597	484,116	1,629,597	847,912	412,342	5,039,607	3,779,353
Glass products (except mirrors) made from purchased glass	9	13	64		23	21,021	74,885	95,136	6,732	224,068	122,200
Hand stamps and stencils and brands	3		9		2	0	10,715	11,451		33,161	21,710
Hats and caps, except felt and straw, men's	15	24	99		25	40,758	108,921	292,548	2,591	642,250	347,117
House-furnishing goods, not elsewhere classified	9	34	140		99	60,164	111,208	654,274	3,429	1,008,110	350,413
Ice cream	20	68	184	40	3,653	252,788	257,719	1,988,431	78,103	4,562,149	2,495,015
Ice, manufactured	13	60	172	2,015	7,788	182,135	260,710	74,454	270,367	2,524,798	2,179,977
Jewelry	12	31	71		87	60,837	101,804	128,341	3,851	420,123	329,331
Lithographing	11	192	805	250	1,616	522,753	1,193,844	1,750,551	43,951	4,015,873	3,121,371
Lubricating oils and greases, not made in petroleum refineries	7	73	50	5	171	136,040	85,616	1,085,004	7,848	2,388,724	695,872
Marble, granite, slate, and other stone products	21	71	370	20	3,359	250,412	584,165	743,611	41,870	2,023,616	1,238,135
Mattresses and bed springs, not elsewhere classified	13	62	360	150	623	160,129	381,393	1,155,057	21,749	2,558,781	1,381,375
Meat packing, wholesale	40	480	1,715	1,833	4,342	914,320	2,310,121	37,913,183	226,454	45,147,536	7,007,899
Mirror and picture frames	8	27	219	150	192	58,150	188,612	282,005	7,417	722,055	432,033
Mirrors, framed and unframed	3	11	50		60	17,804	49,904	102,620	4,386	247,063	140,057
Models and patterns, not including paper patterns	4		35		99		54,456	27,215	810	130,147	102,110
Motor-vehicle bodies and motor-vehicle parts	13	18	165		342	32,503	251,135	212,389	7,342	607,398	387,667
Nonferrous-metal alloys and products, not including aluminum products	23	624	1,872	40	22,106	935,595	2,491,104	20,535,168	483,072	38,507,710	8,488,570
Paints and varnishes	21	148	450	370	2,111	416,869	609,103	3,126,011	195,537	5,877,347	2,555,799
Photo-engraving, not done in printing establishments	7	38	127		117	145,933	333,618	133,803	12,284	854,083	708,506
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills	34	167	760	1,501	4,726	393,238	932,384	2,400,570	48,831	4,501,850	2,022,440
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	6	95	1,138		9,446	203,062	1,337,612	1,210,410	227,560	4,812,014	3,368,035
Poultry killing, dressing, and packing, wholesale	4	5	32		8	12,700	30,743	695,268	1,822	787,333	90,243
Printing and publishing, book and job	179	565	2,400	701	3,456	1,411,939	3,372,290	4,311,289	125,227	13,275,086	8,838,570
Printing and publishing, newspaper and periodical	41	1,515	1,230		2,728	3,247,847	2,894,091	3,024,005	98,025	14,302,919	10,280,799
Printing materials, not including type or ink	4	3	14	2	18	8,208	19,884	20,949	1,545	122,366	99,872
Regalia, badges, and emblems	5	11	48		38	19,744	46,555	46,731	2,102	120,093	91,200
Sausage, meat puddings, head cheese, etc., and sausage casings, not made in meat-packing establishments	18	12	74		466	27,940	115,691	1,358,194	21,153	1,899,206	519,859
Ship and boat building, steel and wooden, including repair work	11	162	2,090		12,078	439,382	3,110,412	2,208,045	156,688	7,666,804	5,241,471
Shirts	16	82	1,120		222	187,085	782,266	3,293,781	20,016	5,930,011	2,615,014
Signs and advertising novelties	21	89	610	322	159	268,907	744,110	755,367	58,124	2,687,074	1,843,583

See footnotes at end of this section, p. 226.

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE BALTIMORE INDUSTRIAL AREA AND FOR BALTIMORE CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR ALLEGANY COUNTY AND FOR BALTIMORE COUNTY: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>BALTIMORE CITY (INDEPENDENT, NOT INCLUDED IN ANY COUNTY)—Continued</b>											
Silversmithing and silverware.....	4	43	244	-----	312	\$157,692	\$382,696	\$590,508	\$17,646	\$1,518,077	\$900,863
Stereotyping and electrotyping, not done in printing establishments.....	4	22	51	-----	211	79,827	80,880	34,697	7,333	287,871	245,841
Stoves and ranges (other than electric and warm-air) furnaces.....	7	191	564	-----	1,235	429,565	696,215	1,435,023	89,597	3,838,543	2,313,923
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	17	261	627	327	1,651	547,798	816,779	3,535,784	32,983	6,092,215	2,523,448
Surgical and orthopedic appliances, including artificial limbs.....	4	1	13	-----	11	( <sup>c</sup> )	17,483	10,965	294	46,035	34,776
Tin cans and other tinware, not elsewhere classified. Trimmings (not made in textile mills) and stamped art goods for embroidering.....	18	473	4,392	1,106	6,280	1,097,901	4,473,862	23,697,014	234,637	35,624,777	11,693,126
Trunks, suitcases, and bags.....	8	8	65	-----	26	8,501	62,440	210,112	2,558	383,309	170,639
Umbrellas, parasols, and canes.....	4	6	55	-----	27	6,589	53,774	110,053	1,278	237,237	125,906
Window shades and fixtures.....	5	58	420	-----	53	135,485	283,974	1,550,749	6,013	2,355,923	799,161
Wirework, not elsewhere classified.....	10	33	86	-----	22	85,575	107,757	818,890	4,862	1,304,173	450,421
Other industries.....	15	65	297	25	479	195,079	300,690	936,407	18,129	2,812,315	1,357,779
	296	3,656	21,765	37,570	66,164	9,120,725	26,309,524	242,145,220	12,723,162	343,205,627	88,337,245

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>c</sup> The figures for the following numbers of establishments located outside the city have been included in the items for the city, to avoid disclosing the data reported by those establishments: Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces, 2; chemicals, not elsewhere classified, 1; clay products (other than pottery) and nonclay refractories, 2; clothing, women's, not elsewhere classified, 1; copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified, 2; electrical machinery, apparatus, and supplies, 1; fertilizers, 1; foundry and machine-shop products, not elsewhere classified, 1; furniture, including store and office fixtures, 1; glass, 2; mattresses and bed springs, not elsewhere classified, 2; meat packing, wholesale, 1; motor-vehicle bodies and motor-vehicle parts, 2; printing and publishing, newspaper and periodical, 3; sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments, 2; ship and boat building, steel and wooden, including repair work, 1; signs and advertising novelties, 1; stoves and ranges (other than electric) and warm-air furnaces, 1.

<sup>d</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

#### ALLEGANY COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Rubber tires and inner tubes"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	80	903	9,940	32,516	30,914	\$2,281,071	\$11,852,910	\$28,943,016	\$1,405,784	\$63,188,523	\$32,830,123
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#### BALTIMORE COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Iron and steel: Steel works and rolling mills"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	71	1,528	13,946	150,044	50,685	\$3,807,333	\$22,632,419	\$73,675,845	\$11,222,513	\$135,071,279	\$50,172,921
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# MASSACHUSETTS

**TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929**

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1924, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>2</sup>	Materials and containers	Fuel and purchased energy		
1929.....	0,872	557,404	2,068,521	984,302	1,084,219	\$694,805,312	\$1,681,432,788	\$1,608,241,295	\$73,191,493	\$3,392,162,237	\$1,710,729,449
1927.....	10,037	578,008	2,130,503	1,107,992	1,022,511	705,929,549	1,678,812,411	1,508,573,556	80,238,855	3,317,851,888	1,639,039,477
1925.....	10,027	591,438	2,013,017	1,124,304	888,713	716,155,593	1,773,097,884	( <sup>4</sup> )	( <sup>4</sup> )	3,405,672,159	1,631,974,275
1923.....	10,519	607,172	1,031,787	1,131,422	800,365	799,363,111	1,835,013,447	( <sup>4</sup> )	( <sup>4</sup> )	3,570,543,255	1,735,529,818
1921.....	9,994	579,071	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	641,360,936	1,441,035,230	( <sup>4</sup> )	( <sup>4</sup> )	2,840,413,516	1,408,378,286
1919.....	11,906	713,836	1,716,982	1,165,461	551,521	766,623,337	2,260,713,036	2,188,353,757	72,359,279	4,011,181,532	1,750,468,490
1914.....	12,013	606,698	1,380,012	1,180,673	200,330	341,309,517	931,383,793	898,876,555	32,507,238	1,641,373,047	709,989,254
1909.....	11,694	584,559	1,150,434	1,040,438	109,996	301,173,464	830,764,943	804,947,814	25,817,129	1,490,520,380	659,704,443
1904.....	10,723	488,399	912,442	835,369	27,078	232,388,946	626,410,431	609,176,689	17,233,742	1,124,092,051	497,681,020
1899.....	10,929	438,234	777,476	764,067	13,409	195,278,276	498,655,033	( <sup>6</sup> )	( <sup>6</sup> )	907,626,439	408,971,406
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	-1.6	-3.6	-2.9	-11.2	6.0	-1.6	0.2	0.6	-8.8	2.2	4.4
1925-1927.....	0.1	-2.3	5.8	-1.5	15.1	-1.4	-5.3			-2.0	0.4
1923-1925.....	-4.7	-11.4	4.2	-0.6	11.0	-10.4	-3.3			-4.0	-6.0
1921-1923.....	5.3	15.2				24.6	27.3			25.3	23.2
1919-1921.....	-16.1	-18.9				-16.3	-36.3			-20.0	-19.5
1919-1929.....	-17.1	-21.9	20.5	-15.5	96.6	-9.4	-25.6	-26.5	1.2	-15.4	-2.3
1909-1919.....	1.9	22.1	49.2	12.0	401.4	154.5	172.1	171.9	180.3	169.1	165.3
1899-1909.....	6.9	33.4	48.0	36.2	720.3	54.2	63.6			64.2	61.3

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Not reported separately.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> No comparable data.

**TABLE 2.—SUMMARY FOR INDUSTRIAL AREAS AND FOR COUNTIES AND CITIES: 1929**

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	4,240,614	9,872	557,404	2,068,521	\$694,805,312	\$1,681,432,788	\$1,608,241,295	\$73,191,493	\$3,392,162,237	\$1,710,729,449
<i>Industrial Areas</i>										
Boston Area <sup>3</sup> .....	2,611,926	6,394	285,652	936,457	371,094,731	976,548,955	938,550,995	37,991,960	1,950,417,516	973,868,581
Providence-Fall River-New Bedford Area, <sup>4</sup> total.....	904,606	2,289	184,895	738,958	703,018,932	461,574,885	441,018,808	20,556,077	898,406,509	436,834,624
Portion in Massachusetts.....	384,500	794	76,620	359,701	77,369,310	167,980,537	159,810,783	8,669,754	319,685,804	151,705,327
Portion in Rhode Island.....	540,016	1,495	108,275	379,257	125,649,622	293,594,348	281,708,025	11,886,323	578,723,645	285,129,297
Worcester Area (coextensive with Worcester County) <sup>5</sup> .....	491,242	1,144	83,620	306,677	105,059,701	218,708,265	206,949,187	11,759,078	462,225,239	243,516,974
Springfield-Holyoke Area (coextensive with Hampden County).....	335,496	667	54,208	252,013	70,847,652	161,360,511	153,765,332	7,595,179	341,184,468	179,823,957
<i>Counties in Massachusetts</i>										
Barnstable.....	32,305	27	225	1,242	188,006	351,160	321,896	29,264	765,522	414,362
Berkshire.....	120,700	177	20,115	81,423	25,724,498	51,234,879	47,811,812	3,428,067	110,985,084	59,700,226
Bristol.....	364,599	794	76,020	359,701	77,369,310	167,980,537	159,810,783	8,669,754	319,685,804	151,705,327
Essex <sup>6</sup> .....	498,040	1,397	83,897	323,556	105,899,366	234,030,811	225,287,988	8,742,823	403,552,485	229,521,674
Franklin.....	49,612	124	5,419	30,785	6,827,768	12,381,238	11,419,590	961,648	30,604,228	18,222,900
Hampden (coextensive with Springfield-Holyoke Area).....	335,496	667	54,208	252,013	70,847,652	161,360,511	153,765,332	7,595,179	341,184,468	179,823,957
Hampshire.....	72,801	131	9,004	47,253	9,775,460	23,856,849	22,762,390	1,104,459	45,162,075	22,305,226
Middlesex <sup>7</sup> .....	934,924	1,642	97,269	343,645	121,268,881	358,290,536	339,147,269	19,143,267	681,335,680	323,045,144
Norfolk.....	299,426	641	22,523	88,590	30,742,379	81,244,525	78,446,369	2,798,156	162,080,063	81,735,538
Plymouth <sup>8</sup> .....	162,311	405	22,600	43,519	27,264,410	68,966,773	67,331,779	1,634,994	130,048,112	61,081,339
Suffolk <sup>9</sup> .....	879,536	2,894	81,963	180,666	113,784,106	302,983,083	295,675,429	7,307,654	642,549,288	339,566,205
Worcester (coextensive with Worcester Area) <sup>5</sup> .....	491,242	1,144	83,620	306,677	105,059,701	218,708,265	206,949,187	11,759,078	462,225,239	243,516,974
All other counties (Dukes and Nantucket) <sup>7</sup> .....	8,631	9	31	451	53,791	43,621	21,531	22,090	134,129	90,508

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR INDUSTRIAL AREAS AND FOR COUNTIES AND CITIES: 1929—Continued

Table with columns: Population, 1930; Number of establishments; Wage earners (average for the year); Horsepower; Wages; COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY (Total, Materials and containers, Fuel and purchased energy); Value of products; Value added by manufacture. Includes cities like Adams, Amherst, Andover, etc.

1 Not including salaried employees.
2 Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.
3 The Boston Industrial Area comprises Essex, Middlesex, Norfolk, and Suffolk Counties. For statistics by industries for this area and for each county, see Table 13.
4 The Providence-Fall River-New Bedford Industrial Area comprises Bristol County, Mass., and Providence County, R. I.
5 For statistics by industries for this area, see Table 13.
6 For statistics by industries for this county, see Table 13.
7 Combined to avoid disclosing approximations of the data for individual establishments.
8 Not including Southbridge, which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures of this city from separate publication to avoid disclosing approximations of the data for individual establishments.
9 For statistics by industries for this city, see Table 14.

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	645,031	445,390	199,641	5,867	5,538	329	28,747	28,277	470	72,923	45,017	27,906	557,494	380,558	170,936
1919 <sup>1,4</sup>	812,521	556,185	256,336	9,451	8,944	507	7,105	6,787	318	82,129	50,443	31,681	713,536	490,006	223,530
1914 <sup>4</sup>	676,042	470,494	206,148	10,710	10,122	588	5,250	5,071	179	53,984	37,409	16,575	609,098	417,892	188,806
1909 <sup>1</sup>	644,399	447,267	197,132	11,194	10,695	499	4,616	4,431	184	44,031	30,919	13,112	584,559	401,172	183,387

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 840; male, 831; female, 19. Other salaried officers and employees—total, 7,438; male, 3,741; female, 3,697. Corresponding data for 1919 and earlier years are included in the respective items for those years, but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	557,494	542,830	557,922	564,370	559,763	559,745	555,594	555,522	563,848	573,432	573,440	552,395	<i>531,071</i>	92.6
1919 <sup>1</sup>	713,836	695,713	<i>677,204</i>	680,325	679,235	689,490	705,382	713,599	726,537	736,391	741,911	751,909	765,746	88.4
1914 <sup>1</sup>	606,608	626,776	628,535	633,583	628,344	619,082	611,923	595,009	588,703	589,194	590,992	587,141	<i>580,489</i>	91.6
1909 <sup>1</sup>	584,559	<i>565,760</i>	572,618	579,519	576,618	576,370	576,055	573,462	581,098	594,686	601,533	604,400	612,615	92.4

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	9,872	557,494	45 and over but under 48.....	814	30,898
Not reported.....	8	10	48.....	3,763	328,877
Under 40.....	161	4,081	Over 48 but under 54.....	1,820	101,132
40.....	343	8,263	54.....	488	14,723
Over 40 but under 44.....	147	6,775	Over 54 but under 60.....	221	19,317
44 and over but under 45.....	1,881	37,015	60 and over.....	226	5,797

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	9,872	11,906	11,684	557,494	713,836	584,559	51 to 100.....	770	791	709	55,897	56,499	50,368
No wage earners.....	350	1,086	943				101 to 250.....	605	639	613	94,272	108,715	96,931
1 to 5.....	3,592	4,670	4,807	9,962	11,497	11,912	251 to 500.....	251	293	254	87,377	102,019	88,945
6 to 20.....	2,692	2,680	2,741	30,154	30,753	31,222	501 to 1,000.....	136	169	129	91,971	114,004	90,776
21 to 50.....	1,398	1,410	1,400	46,136	46,214	45,621	1,001 to 2,500.....	69			104,588		
							2,501 and over.....	9	118	88	37,137	244,045	168,784



## CENSUS OF MANUFACTURES: 1929

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	9, 872	11, 906	11, 084	557, 494	713, 836	584, 559	\$3, 392, 162, 237	\$4, 011, 181, 532	\$1, 490, 520, 386	\$1, 710, 729, 449	\$1, 750, 468, 496	\$659, 764, 443
Less than \$5,000.....	( <sup>2</sup> )	1, 645	2, 700	( <sup>2</sup> )	990	3, 508	( <sup>2</sup> )	4, 384, 884	7, 102, 781	( <sup>2</sup> )	2, 864, 437	4, 767, 415
\$5,000 to \$19,999.....	2, 753	3, 211	3, 826	7, 013	9, 526	10, 612	32, 116, 656	36, 152, 704	40, 731, 897	20, 330, 572	21, 034, 052	24, 009, 431
\$20,000 to \$99,999.....	3, 508	3, 511	2, 932	33, 921	39, 270	61, 041	167, 826, 930	164, 770, 693	136, 992, 841	99, 719, 316	85, 780, 694	73, 120, 246
\$20,000 to \$49,999.....	2, 131	( <sup>3</sup> )	( <sup>3</sup> )	14, 446	( <sup>3</sup> )	( <sup>3</sup> )	68, 678, 165	( <sup>3</sup> )	( <sup>3</sup> )	41, 684, 329	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	1, 377	( <sup>3</sup> )	( <sup>3</sup> )	19, 476	( <sup>3</sup> )	( <sup>3</sup> )	99, 248, 765	( <sup>3</sup> )	( <sup>3</sup> )	58, 034, 987	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	2, 337	2, 149	( <sup>3</sup> )	99, 058	102, 035	( <sup>3</sup> )	536, 123, 639	498, 897, 877	( <sup>3</sup> )	285, 311, 017	240, 921, 403	( <sup>3</sup> )
\$100,000 to \$249,999.....	1, 514	( <sup>3</sup> )	( <sup>3</sup> )	45, 853	( <sup>3</sup> )	( <sup>3</sup> )	241, 774, 417	( <sup>3</sup> )	( <sup>3</sup> )	135, 160, 405	( <sup>3</sup> )	( <sup>3</sup> )
\$250,000 to \$499,999.....	823	( <sup>3</sup> )	1, 873	53, 205	( <sup>3</sup> )	222, 890	294, 349, 222	( <sup>3</sup> )	585, 830, 505	152, 150, 612	( <sup>3</sup> )	261, 501, 513
\$500,000 to \$999,999.....	587	575	( <sup>3</sup> )	70, 611	73, 906	( <sup>3</sup> )	415, 173, 230	410, 219, 829	( <sup>3</sup> )	207, 517, 598	181, 962, 468	( <sup>3</sup> )
\$1,000,000 and over.....	687	815	293	346, 891	488, 109	277, 208	2, 240, 921, 782	2, 890, 755, 545	719, 811, 362	1, 097, 850, 946	1, 217, 905, 442	296, 365, 838
\$1,000,000 to \$2,499,999.....	446	( <sup>3</sup> )	( <sup>3</sup> )	118, 762	( <sup>3</sup> )	( <sup>3</sup> )	851, 172, 301	( <sup>3</sup> )	( <sup>3</sup> )	331, 185, 441	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	140	( <sup>3</sup> )	( <sup>3</sup> )	84, 111	( <sup>3</sup> )	( <sup>3</sup> )	473, 392, 716	( <sup>3</sup> )	( <sup>3</sup> )	245, 125, 361	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	101	( <sup>3</sup> )	( <sup>3</sup> )	144, 018	( <sup>3</sup> )	( <sup>3</sup> )	1, 086, 356, 765	( <sup>3</sup> )	( <sup>3</sup> )	521, 540, 144	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	9, 872	11, 906	557, 494	713, 836	\$3, 392, 162, 237	\$4, 011, 181, 532	\$1, 710, 729, 449	\$1, 750, 468, 496
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	5, 319	4, 697	510, 393	621, 783	3, 118, 480, 833	3, 433, 117, 043	1, 567, 610, 222	1, 519, 657, 763
Other forms of ownership or control (individual, partnership, etc.).....	4, 553	7, 209	47, 101	92, 053	273, 681, 404	528, 064, 489	143, 110, 227	230, 810, 733
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	1, 115	( <sup>1</sup> )	243, 046	( <sup>1</sup> )	1, 684, 188, 409	( <sup>1</sup> )	767, 904, 271	( <sup>1</sup> )
Independent (single-unit).....	8, 757	( <sup>1</sup> )	314, 448	( <sup>1</sup> )	1, 807, 973, 823	( <sup>1</sup> )	942, 765, 178	( <sup>1</sup> )

<sup>1</sup> Not tabulated.



TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR INDUSTRIAL AREAS AND IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Electric motors driven by purchased energy			
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number			Horsepower
<i>The State</i>														
1929	2,068,521	984,302	2,197	421,473	644	407,812	255	10,837	719	144,180	155,239	1,084,219	67,249	639,517
1927	2,130,503	1,107,992	2,512	525,659	663	409,117	231	9,810	880	163,406	138,088	1,022,511	68,868	529,350
1925	2,013,017	1,124,304	2,652	563,017	455	372,808	295	11,545	1,020	176,934	117,049	888,713	61,429	577,135
1919 <sup>1</sup>	1,716,982	1,165,461	3,766	694,531	502	270,401	407	11,227	1,252	189,302	65,300	551,521	39,006	424,274
1914 <sup>1</sup>	1,380,912	1,180,573	4,803	970,506	( <sup>2</sup> )	( <sup>3</sup> )	770	20,242	1,542	189,825	26,412	200,339	30,515	382,632
<i>Industrial Areas</i>														
Boston Area (Essex, Middlesex, Norfolk, and Suffolk Counties)	936,457	470,129	1,181	169,088	290	258,249	129	5,332	178	37,400	81,136	406,328	35,739	326,948
Providence-Fall River-New Bedford Area, total	738,958	329,959	425	176,728	242	120,060	25	6,963	105	17,208	50,483	408,909	17,163	128,409
Portion in Massachusetts (Bristol County)	359,701	181,955	214	120,108	163	59,451	13	455	24	1,941	18,033	177,746	6,815	61,890
Portion in Rhode Island (Providence County)	379,257	148,004	211	56,620	79	60,609	12	6,508	81	15,267	32,450	231,253	10,353	66,519
Worcester Area (coextensive with Worcester County)	306,677	104,943	309	57,674	42	24,582	25	1,015	203	21,672	24,085	201,734	6,261	49,392
Springfield-Holyoke Area (coextensive with Hampden County)	252,013	120,735	161	26,729	42	36,665	25	1,044	148	56,297	18,204	131,278	9,948	133,230
<i>Counties in which aggregate horsepower exceeded \$5,000: 1929</i>														
Berkshire	81,423	49,869	166	24,841	80	15,330	22	873	59	8,825	2,904	81,554	6,979	49,057
Bristol	359,701	181,955	214	120,108	163	59,451	13	455	24	1,941	18,033	177,746	6,815	61,890
Essex	323,556	222,943	328	52,700	110	166,179	20	317	47	13,247	22,304	100,013	18,845	155,139
Franklin	39,785	16,120	32	3,447	4	1,597	8	618	41	10,588	2,174	23,065	562	6,549
Hampden	252,013	120,735	161	26,729	42	36,665	25	1,044	148	56,297	18,204	131,278	9,948	133,230
Hampshire	47,253	20,630	41	5,634	11	7,133	10	1,325	48	6,533	3,773	26,623	362	5,200
Middlesex	343,645	159,135	421	63,699	104	71,977	49	2,048	90	21,411	27,033	184,510	9,993	116,539
Norfolk	88,590	33,998	210	21,122	26	9,657	18	968	31	2,251	5,991	54,592	2,130	22,711
Plymouth	43,519	18,555	87	12,823	9	4,025	7	238	18	864	4,845	24,964	483	5,481
Suffolk	180,666	54,053	210	31,567	41	20,439	36	1,499	10	551	25,808	120,613	4,771	32,559
Worcester	306,677	104,943	309	57,674	42	24,582	25	1,015	203	21,672	24,085	201,734	6,261	49,392

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State	2,068,521	984,302	1,084,219	630,517	Middlesex	343,645	159,135	184,510	116,539
Barnstable	1,242	965	277	1,070	Norfolk	88,590	33,998	54,592	22,711
Berkshire	81,423	49,869	31,654	49,057	Plymouth	43,519	18,555	24,964	5,481
Bristol	359,701	181,955	177,746	61,890	Suffolk	180,666	54,053	120,613	32,559
Essex	323,556	222,943	100,013	155,139	Worcester	306,677	104,943	201,734	49,392
Franklin	39,785	16,120	23,065	6,549	All other counties (Dukes and Nantucket) <sup>2</sup>	451	401	50	100
Hampden	252,013	120,735	131,278	133,230					
Hampshire	47,253	20,630	26,623	5,200					

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.

<sup>2</sup> Combined to avoid disclosing data for individual establishments.

CENSUS OF MANUFACTURES: 1929

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	5,351,007	\$29,610,357	5,478,838	5,800,764	6,411,711	6,250,565	6,882,024
Anthracite (tons, 2,240 pounds).....	233,495	1,646,628	( <sup>3</sup> )	446,378	693,759	664,428	901,158
Bituminous (tons, 2,000 pounds).....	5,089,493	27,963,729	( <sup>3</sup> )	5,306,811	5,634,701	5,500,400	5,872,727
Coke (tons, 2,000 pounds).....	477,370	3,694,747	( <sup>3</sup> )	( <sup>3</sup> )	501,293	223,132	207,953
Fuel oils, including crude oils and gas oils (gallons) <sup>4</sup> .....	336,643,517	12,836,265	( <sup>3</sup> )	( <sup>3</sup> )	153,849,234	35,458,542	34,089,636
Gasoline and kerosene (gallons) <sup>4</sup> .....	1,112,664	161,639	( <sup>3</sup> )	( <sup>3</sup> )	8,800,286		
Gas, natural (M cubic feet).....			( <sup>3</sup> )	( <sup>3</sup> )	1,222,444	630,455	774,436
Gas, manufactured (M cubic feet).....	8,488,014	3,977,696	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Other fuels.....		692,889	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Electric energy purchased (kilowatt-hours).....	1,409,874,874	25,245,975	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Total cost of fuel and purchased energy.....		75,610,468	Cost \$80,238,855	Cost (\$)	Cost \$72,359,270	Cost \$32,507,238	Cost \$25,817,129

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.  
<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.  
<sup>3</sup> Not tabulated separately.  
<sup>4</sup> No data.  
<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.  
<sup>6</sup> Data incomplete.  
<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.  
<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	9,872	81,670	557,404	984,302	1,084,219	\$215,218,070	\$694,805,812	\$1,608,241,295	\$73,191,493	\$3,392,162,237	\$1,710,729,449
Aluminum manufactures.....	6	15	112		2,852	39,118	149,182	417,800	50,932	762,267	294,026
Artificial leather.....	4	64	318	472	923	131,626	408,053	2,369,132	70,436	3,701,953	1,282,385
Awnings, tents, sails, and canvas covers.....	58	78	308		135	175,737	421,870	698,623	11,250	1,770,936	1,060,823
Bags, other than paper, not made in textile mills.....	5	11	74		59	23,583	65,378	686,833	2,487	876,851	187,531
Bags, paper, exclusive of those made in paper mills.....	4	22	103	100	156	52,079	212,204	1,334,198	10,444	1,833,191	488,549
Baskets and rattan and willow ware, not including furniture.....	9	25	131		138	51,661	154,518	189,277	8,078	512,833	315,478
Belting, leather.....	18	77	433	582	404	289,458	633,980	3,802,155	33,875	7,054,645	3,218,605
Beverages.....	207	409	1,304	1,846	2,635	1,114,229	1,714,943	6,143,644	190,586	15,974,006	9,639,776
Billiard and pool tables, bowling alleys, and accessories.....	5	7	33		104	17,300	60,163	70,671	1,972	237,200	164,557
Blacking, stains, and dressings.....	59	204	381	281	274	534,940	489,502	2,053,995	23,408	4,846,226	2,768,823
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	8	163	1,377	1,986	1,264	470,213	1,885,222	1,721,850	120,729	5,464,302	3,621,723
Bookbinding and blank-book making.....	83	382	2,645	125	1,718	944,813	3,316,020	2,075,673	81,575	9,801,970	7,044,722
Boot and shoe cut stock, not made in boot and shoe factories.....	130	443	2,814	325	2,781	1,152,280	3,170,787	38,370,397	121,321	47,782,256	9,290,538
Boot and shoe findings, not made in boot and shoe factories.....	231	678	4,844	1,701	7,338	1,920,820	5,221,076	17,387,515	287,822	30,418,736	12,743,399
Boots and shoes, other than rubber.....	436	5,094	55,093	11,475	20,381	12,375,603	64,205,152	122,745,063	1,279,817	241,587,804	117,502,984
Boots and shoes, rubber.....	10	2,007	11,163	2,060	32,002	4,862,882	13,521,613	14,451,332	736,458	40,250,304	25,062,574
Boxes, paper, not elsewhere classified.....	110	778	5,349	395	5,917	1,914,359	5,422,332	13,263,582	242,277	25,247,448	11,741,589
Boxes, wooden, except cigar boxes.....	58	191	1,797	7,235	3,010	480,886	2,071,432	4,346,219	72,822	8,290,008	3,870,987
Bread and other bakery products.....	1,077	1,068	10,413	2,015	12,372	2,358,882	13,700,195	38,037,393	1,026,737	80,270,302	40,606,172
Brooms.....	9	4	41		33	7,227	47,709	132,938	2,510	234,217	98,769
Brushes, other than rubber.....	24	234	1,002	580	1,241	647,346	1,096,138	2,355,099	58,382	6,833,449	4,419,968
Butter.....	6	4	14	10	73	4,300	20,692	405,893	5,338	521,853	207,622
Buttons.....	6	2	41	150	21	( <sup>3</sup> )	44,378	56,526	4,040	178,081	117,515
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	19	130	907	53	1,220	393,122	997,958	3,796,567	50,664	6,259,134	2,411,903
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	34	169	518	415	537	387,502	581,744	5,748,361	77,297	9,498,955	3,673,297
Car and general construction and repairs, electric-railroad repair shops.....	17	63	1,094		4,450	139,483	2,065,803	1,155,870	63,240	3,425,806	2,200,696
Car and general construction and repairs, steam-railroad repair shops.....	15	459	4,144	6,608	5,647	1,159,091	6,892,420	9,163,879	368,305	17,584,274	8,052,090
Card cutting and designing.....	6	79	232		321	166,492	240,805	810,436	12,128	1,717,194	894,630
Carpets and rugs, rag.....	14	11	76	40	50	15,960	61,052	71,718	2,655	238,547	164,174
Carpets and rugs, wool, other than rag.....	9	228	4,297	6,000	2,171	763,833	5,195,113	9,648,536	273,957	22,040,332	12,117,839
Carriages and sleds, children's.....	10	132	1,436	340	900	334,340	1,653,125	2,893,720	37,328	6,404,295	3,472,747

See footnotes at end of table.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products	Cost of fuel and purchased electric energy	Value of products	Value added by manufacture
				Prime movers	Electric motors driven by purchased energy						
Caskets, coffins, burial cases, and other morticians' goods	12	90	418	470	683	Dollars 263,077	Dollars 502,599	Dollars 1,200,524	Dollars 22,801	Dollars 2,787,935	Dollars 1,558,610
Chemicals, not elsewhere classified	15	478	2,936	2,915	7,705	1,317,836	4,016,327	6,658,403	494,820	10,103,023	11,949,800
Chocolats and cocoa products, not including confectionery	11	80	890	6,131	4,858	260,498	1,226,360	11,008,580	248,900	17,315,279	5,162,709
Cigars and cigarettes	56	121	1,169	1,293	2,238	389,006	1,179,027	2,086,333	16,431	6,073,945	3,371,181
Clay products (other than pottery) and nonclay refractories	26	74	676	1,613	2,947	192,513	847,395	101,064	389,423	2,045,187	1,554,700
Cleaning and polishing preparations	32	97	115	---	339	220,965	122,341	753,765	7,684	1,845,393	1,084,044
Clocks, clock movements, time-recording devices, and time stamps	6	253	485	85	345	496,585	616,998	946,597	24,968	3,266,514	2,294,949
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	161	512	5,551	515	983	1,449,394	6,445,678	15,779,029	144,123	30,686,849	14,602,197
Clothing, women's, not elsewhere classified	312	789	6,874	15	1,389	2,150,328	7,798,173	23,150,984	136,735	43,100,869	19,813,150
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	27	78	749	---	224	209,828	844,204	2,610,035	20,565	4,487,827	1,857,227
Cloth sponging and refinishing	4	5	41	---	57	15,320	57,588	1,640	2,680	119,701	115,381
Coffee and spice, roasting and grinding	26	258	467	208	1,682	839,788	597,290	13,921,472	103,121	18,207,941	4,183,348
Combs and hairpins, not made from metal or rubber	13	86	531	573	263	180,823	505,875	650,593	26,382	1,772,768	1,089,793
Compressed and liquefied gases	10	111	108	160	1,507	191,487	108,427	427,000	124,102	1,743,806	1,191,864
Concrete products	71	129	673	249	1,802	411,816	1,149,003	918,390	69,896	3,206,175	2,217,889
Condensed and evaporated milk	6	7	30	---	203	16,271	38,502	775,100	9,842	1,023,143	238,701
Confectionery	144	1,186	7,471	4,214	8,454	3,133,400	6,744,576	22,302,536	518,704	43,932,306	21,111,066
Cooperage	13	26	483	1,930	229	40,425	1,348,692	1,348,692	20,165	2,433,436	1,004,579
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	89	311	1,316	84	1,577	890,663	2,164,935	3,731,435	78,218	8,759,005	4,049,352
Cordage and twine	11	282	1,882	5,840	3,000	365,757	1,064,616	8,782,140	146,450	10,773,761	7,845,153
Corsets and allied garments	11	180	706	600	124	371,733	658,938	1,562,608	10,205	3,197,894	1,025,021
Cotton goods	135	2,450	70,738	257,225	180,959	7,510,444	65,558,859	118,088,790	7,352,846	233,618,099	108,170,373
Cotton small wares	43	165	2,924	1,350	2,024	532,507	2,887,062	6,023,307	180,802	11,922,618	5,712,449
Cutlery (not including silver and plated cutlery) and edge tools	40	531	3,467	3,706	6,925	1,571,971	3,939,186	3,428,295	305,834	33,663,199	29,629,070
Dental goods and equipment	5	16	90	---	52	44,385	84,830	326,447	4,354	597,615	236,814
Doors, shutters, and window sash and frames, metal	8	67	302	---	918	202,187	507,705	638,312	21,849	1,631,867	971,296
Druggists' preparations	18	40	104	---	116	87,271	108,441	299,491	6,320	637,481	521,670
Dyeing and finishing textiles	67	1,600	14,450	50,995	14,462	4,585,639	16,853,664	50,111,259	2,023,108	93,148,770	40,114,348
Electrical machinery, apparatus, and supplies	106	6,377	28,844	44,098	35,054	13,757,280	41,011,734	62,060,003	2,203,349	184,780,944	120,463,562
Electroplating	36	59	391	---	882	121,870	523,001	189,500	48,090	1,205,008	968,009
Embroideries	5	3	45	---	17	4,056	40,645	18,768	700	106,176	80,708
Engines, turbines, tractors, and water wheels	7	51	221	501	509	123,175	326,797	235,575	18,987	851,194	599,632
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking	32	48	329	---	270	120,977	510,522	164,335	14,406	1,233,069	1,054,238
Engraving, steel and copperplate, and plate printing	26	158	769	---	361	401,799	830,035	1,082,181	10,440	3,402,330	2,890,703
Envelopes	19	423	2,211	1,635	1,266	1,033,314	2,445,592	7,843,380	84,454	14,437,752	6,599,900
Fancy and miscellaneous articles, not elsewhere classified	53	284	2,102	379	1,040	809,972	1,977,630	3,062,479	66,260	8,265,554	5,136,815
Feeds, prepared, for animals and fowls	0	34	157	126	1,091	69,894	164,341	2,004,800	26,807	2,079,355	647,718
Felt goods, wool, hair, or jute	15	104	893	1,033	3,462	362,131	1,168,018	4,579,433	205,659	7,690,058	2,910,966
Fertilizers	6	36	337	870	2,374	88,249	452,595	2,691,436	63,146	3,874,229	1,119,647
Firearms	4	182	1,692	550	2,487	451,144	2,165,679	808,188	122,324	5,739,837	4,809,325
Flavoring extracts and flavoring sirups	27	117	153	75	273	365,417	176,126	1,346,075	13,528	3,020,358	1,600,755
Flour and other grain-mill products	20	13	65	425	1,892	17,679	71,376	1,801,574	23,823	2,055,526	230,129
Food preparations, not elsewhere classified	43	172	488	164	937	574,754	576,977	2,568,934	120,437	6,904,274	4,184,903
Forgings, iron and steel, not made in plants operated in connection with rolling mills	12	200	2,146	675	9,226	886,441	3,490,231	3,944,063	630,463	13,053,247	9,078,721
Foundry and machine-shop products, not elsewhere classified	465	4,536	21,243	18,191	51,845	13,894,897	32,969,609	34,627,013	2,266,849	114,965,036	78,071,074
Fur goods	20	61	228	---	83	202,739	454,779	1,110,553	7,514	2,271,612	1,153,445
Furnishing goods, men's, not elsewhere classified	80	163	1,321	---	172	442,420	1,119,270	3,710,943	20,754	7,031,207	3,380,470
Furniture, including store and office fixtures	217	1,169	8,598	7,567	13,029	3,218,860	11,925,867	18,541,823	487,807	41,921,577	22,861,947
Galvanizing and other coating, not done in plants operated in connection with rolling mills	4	11	40	---	49	23,239	68,190	76,340	10,321	241,541	155,880
Gas and electric fixtures; lamps, lanterns, and reflectors	15	70	493	5	1,002	214,696	677,134	997,589	46,748	2,048,023	1,603,686
Gas, manufactured, illuminating and heating	39	2,115	4,096	23,557	7,980	3,838,345	6,516,333	7,505,740	8,329,048	41,264,782	25,429,304
Glass products (except mirrors) made from purchased glass	18	27	171	---	103	125,755	258,664	295,245	10,299	959,050	623,566
Glue and gelatin	12	117	729	1,628	2,024	329,966	1,054,291	4,165,943	895,165	7,944,050	3,382,942
Gold leaf and foil	17	14	133	7	59	18,189	182,238	182,930	4,121	417,704	230,713
Gold, silver, and platinum, reducing and refining, not from the ore	4	7	18	---	79	17,481	26,858	1,850,975	8,477	2,049,902	190,450
Grease and tallow, not including lubricating greases	17	103	624	952	3,117	208,535	828,093	3,529,841	247,656	5,900,500	2,123,293
Hair work	3	9	22	---	15	15,336	19,230	19,046	---	77,941	68,805
Hand stamps and stencils and brands	24	45	133	---	145	80,059	179,530	175,599	6,856	643,732	461,277
Hardware not elsewhere classified	26	143	775	118	1,537	319,511	964,011	1,214,556	81,582	3,905,400	1,990,260
Hats and caps, except felt and straw, men's	38	43	220	---	63	93,858	291,091	562,272	8,818	1,256,601	685,411
Hats, fur-felt	4	29	241	---	207	66,352	227,548	702,995	16,084	1,245,792	528,713
House-furnishing goods, not elsewhere classified	94	297	1,703	---	968	733,828	1,431,073	10,048,000	48,662	14,769,932	4,684,264
Ice cream	149	241	975	15	8,410	680,906	1,451,570	6,937,766	376,662	17,068,997	7,380,785
Ice, manufactured	26	103	288	4,417	9,675	196,998	541,852	138,206	460,411	3,124,538	2,465,831
Instruments, professional and scientific	26	254	671	15	744	638,765	959,486	1,201,151	39,107	5,142,846	3,002,688
Iron and steel, processed	3	9	25	---	88	10,800	35,619	16,369	6,826	99,101	72,876
Jewelry	120	767	5,422	595	4,046	2,069,064	6,866,212	12,414,973	200,409	28,087,253	15,472,551
Jewelry and instrument cases	10	73	496	---	420	225,935	410,898	721,974	22,028	1,773,315	1,029,315
Knit goods	86	838	8,817	6,174	4,519	2,704,408	8,945,286	20,003,216	398,057	41,050,135	20,648,262

See footnotes at end of table.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Labels and tags.....	8	15	60		47	Dollars 97,101	Dollars 72,568	Dollars 145,972	Dollars 2,312	Dollars 503,929	Dollars 355,645
Lasts and related products.....	28	145	728	1,402	1,482	393,772	1,111,061	901,638	68,547	3,104,258	2,134,073
Leather goods, not elsewhere classified.....	29	49	459	60	428	134,134	423,372	886,364	27,632	2,187,719	1,273,723
Leather: Tanned, curried, and finished.....	113	1,098	10,707	25,229	20,285	3,844,122	14,206,501	58,808,002	1,431,942	88,348,403	28,107,469
Lime.....	6	20	317	725	929	75,204	443,333	512,362	262,052	1,595,870	821,456
Linen goods.....	4	64	880	3,168	2,077	137,842	853,955	2,137,421	82,666	4,460,149	2,230,062
Lithographing.....	12	320	1,052	1,935	1,283	956,093	1,536,928	1,718,492	41,014	5,320,136	3,560,630
Lumber and timber products, not elsewhere classified.....	82	80	1,016	5,899	3,330	255,568	1,106,634	1,610,748	69,040	3,910,196	2,221,408
Macaroni, spaghetti, vermicelli, and noodles.....	10	32	192	100	787	82,213	195,501	834,273	49,945	1,382,148	503,930
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	44	411	3,239	1,668	6,455	936,485	4,402,007	2,282,209	320,608	14,491,970	11,889,063
Machine tools.....	26	881	3,361	570	12,723	2,168,423	5,563,580	4,640,021	250,879	20,106,629	15,215,729
Marble, granite, slate, and other stone products.....	141	270	2,064	6,102	9,794	848,443	3,082,476	2,148,073	293,456	9,736,206	7,293,077
Mattresses and bed springs, not elsewhere classified.....	57	140	671		1,278	288,179	768,361	2,410,344	47,309	4,644,665	2,187,012
Meat packing, wholesale.....	33	657	2,594	4,301	5,550	1,298,014	3,572,432	56,096,143	503,266	64,354,088	8,080,374
Millinery.....	28	82	1,307	175	679	183,802	1,344,511	2,639,326	72,812	5,131,571	2,519,433
Minerals and earths, ground or otherwise treated.....	5	20	72	630	555	104,185	103,567	441,803	25,341	826,416	359,152
Mirror and picture frames.....	14	35	165	80	90	80,668	221,190	188,504	6,037	677,406	482,805
Mirrors, framed and unframed.....	5	26	97	75	70	58,289	139,636	255,044	8,013	600,519	346,462
Models and patterns, not including paper patterns.....	66	112	550		727	332,828	994,110	321,437	24,024	2,390,803	2,045,342
Motor-vehicle bodies and motor-vehicle parts.....	48	345	3,393	30	4,950	986,997	4,881,464	7,666,850	201,512	15,948,736	8,080,374
Motorcycles, bicycles, and parts.....	5	262	1,206	400	2,042	696,762	1,567,456	3,323,024	116,405	6,645,667	3,206,228
Mudilage, paste, and other adhesives, except glue and rubber cement.....	7	18	27		146	45,944	34,389	239,953	6,681	501,373	254,739
Musical instrument parts and materials: Piano and organ.....	7	28	105	410	191	70,776	227,771	167,881	12,328	534,174	353,905
Musical instruments and parts and materials, not elsewhere classified.....	8	40	206	3	73	80,230	250,127	114,615	7,332	576,596	454,049
Musical instruments: Organs.....	4	46	303	60	311	138,554	563,274	395,618	11,621	1,605,627	1,198,388
Musical instruments: Pianos.....	8	100	858	687	1,249	247,235	1,297,585	1,680,596	62,382	3,697,415	1,954,437
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	20	169	780	446	2,404	330,988	976,601	1,885,569	105,818	4,105,863	2,114,476
Nonferrous-metal alloys and products not including aluminum products.....	70	385	1,861	2,800	11,596	1,087,235	2,692,332	9,840,838	450,483	18,000,782	7,709,461
Oils, not elsewhere classified.....	7	33	30	10	187	96,828	58,225	801,214	8,214	1,203,544	354,116
Paints and varnishes.....	44	526	789	620	3,298	1,449,677	1,086,812	8,243,867	151,050	15,825,856	7,430,942
Paper.....	73	1,525	12,133	109,555	62,230	5,829,555	16,409,702	43,359,837	5,653,415	93,317,072	44,308,820
Pulp (wood and other fiber).....	3	26	223			64,003	245,191	665,088	112,529	1,767,501	689,284
Paper goods, not elsewhere classified.....	63	966	4,053	3,138	22,498	2,412,760	5,219,802	17,481,241	388,290	29,836,025	12,016,494
Patent or proprietary medicines and compounds.....	60	655	1,564	1,209	706	1,915,310	2,270,033	6,365,384	95,560	21,312,798	14,851,854
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	3	24	113	140	143	71,942	199,386	1,453,745	26,993	2,410,416	929,078
Pens, fountain and stylographic; pen points, gold, steel, and brass.....	6	33	227		99	112,868	279,406	706,375	8,185	1,398,356	683,796
Perfumes, cosmetics, and other toilet preparations.....	25	59	106		54	151,111	102,753	646,995	2,425	1,993,772	1,254,352
Petroleum refining.....	3	313	1,071	5,401	2,823	544,688	1,883,940	25,468,122	160,499	31,283,847	5,055,226
Phonographs.....	3	53	343		766	105,415	459,757	385,416	47,432	1,846,045	1,413,197
Photo-engraving, not done in printing establishments.....	43	236	679		280	721,551	1,550,420	354,546	41,105	3,435,961	3,040,310
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	135	397	2,011	6,025	11,207	1,098,820	3,295,513	5,772,728	269,431	12,801,575	6,379,416
Plated ware.....	16	97	753	850	630	304,234	907,251	679,907	64,525	2,836,079	2,091,647
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	21	121	629	619	1,187	351,022	841,999	2,191,988	77,024	4,618,009	2,348,997
Pocketbooks, purses, and cardcases.....	17	110	696	6	113	290,088	709,779	1,027,394	14,260	8,540,411	1,898,757
Printing and publishing, book and job.....	673	2,928	9,341	2,045	10,949	7,713,186	14,741,670	14,112,469	478,440	61,892,665	47,301,756
Printing and publishing, music.....	9	169	82		137	333,609	121,038	140,802	4,211	1,748,354	1,603,341
Printing and publishing, newspaper and periodical.....	318	6,123	5,775	1,111	15,689	14,625,272	13,252,459	19,880,461	629,286	76,840,313	56,330,566
Printing materials, not including type or ink.....	4	11	41		54	51,682	61,540	58,821	2,981	308,441	246,639
Pumps (hand and power) and pumping equipment.....	17	834	2,558	2,643	4,820	2,000,069	4,174,474	6,935,081	254,513	17,636,305	10,447,211
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	8	22	181	125	204	90,317	299,632	271,986	5,812	906,083	628,285
Regalia, badges, and emblems.....	9	22	79	56	30	38,771	82,532	106,190	4,984	300,250	189,070
Rubber goods (other than rubber boots and shoes) and rubber tires and inner tubes.....	62	2,073	9,764	16,284	67,569	5,362,751	12,400,228	42,510,517	2,093,685	76,439,857	31,835,655
Saddlery and harness.....	6	12	46	25	27	23,452	55,486	128,660	3,283	219,092	87,250
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	60	101	485	50	2,064	243,763	732,966	5,444,851	97,329	7,248,411	1,706,231
Saws.....	9	105	627	25	3,247	230,338	920,198	994,236	103,799	3,828,326	2,730,292
Screw-machine products and wood screws.....	27	333	1,768	388	5,774	824,189	2,457,177	2,748,138	203,285	8,215,706	5,264,283
Sewing machines and attachments.....	7	103	586	1,065	31	232,197	805,564	920,568	27,538	2,341,851	1,393,745
Ship and boat building, steel and wooden, including repair work.....	40	507	3,635	1,777	15,701	1,219,612	6,499,643	5,300,567	283,428	16,449,438	10,865,443
Shirts.....	11	83	1,277	165	193	129,655	962,274	2,440,467	16,337	4,699,693	2,233,889
Signs and advertising novelties.....	28	81	359		290	172,404	448,975	419,116	10,322	1,395,500	960,062
Silk and rayon manufactures.....	42	385	7,390	5,032	13,309	1,174,731	7,105,466	20,513,886	445,782	37,412,704	16,453,036
Silversmithing and silverware.....	19	310	1,944	1,306	857	949,205	2,653,891	3,261,086	101,803	9,979,870	6,626,981
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	5	28	64		201	69,034	83,462	1,711,743	23,589	2,039,966	304,634
Sporting and athletic goods, not including firearms or ammunition.....	14	308	1,778	709	4,411	748,311	2,419,864	5,144,812	132,719	12,322,716	7,046,185

See footnotes at end of table

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1920—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	3	4	21		39	Dollars 12,974	Dollars 33,855	Dollars 16,023	Dollars 3,894	Dollars 104,779	Dollars 84,862
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	43	273	1,409	411	5,251	944,086	1,922,411	2,447,835	173,496	7,173,392	4,552,001
Stationery goods, not elsewhere classified.....	24	520	2,331	330	1,193	1,134,112	2,495,500	5,766,820	64,349	12,143,957	6,312,788
Statuary and art goods, factory product.....	9	19	117		66	54,712	242,686	93,290	4,274	530,366	432,793
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	10	67	151	15	342	172,108	196,526	433,785	20,829	1,134,365	670,751
Steam fittings and steam and hot-water heating apparatus.....	26	688	2,879	940	7,076	1,511,416	4,116,419	3,286,240	376,009	15,311,008	11,649,359
Stereotyping and electrotyping, not done in printing establishments.....	16	69	362		1,427	257,295	584,526	168,984	47,073	1,460,553	1,244,496
Stoves and ranges (other than electric) and warm-air furnaces.....	18	230	2,033	988	3,240	654,884	2,937,542	2,940,807	186,273	10,381,606	7,284,526
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	74	361	1,377	300	4,991	1,171,526	2,431,917	5,305,047	140,268	11,562,309	6,116,094
Suspenders, garters, and other elastic woven goods, made from purchased webbing.....	9	97	644	18	154	213,365	493,324	2,301,535	11,521	3,507,207	1,104,211
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	25	88	200	225	835	348,808	318,358	3,137,188	58,214	4,849,556	1,054,154
Textile machinery and parts.....	111	1,445	10,597	9,742	18,592	4,364,701	14,233,661	11,748,270	719,403	41,202,970	28,735,297
Tin cans and other tinware, not elsewhere classified.....	10	105	605	120	934	211,661	734,011	1,001,130	38,392	3,771,371	1,741,849
Tools, not including edge tools, machine tools, files, or saws.....	54	546	2,800	2,100	7,353	1,333,463	3,687,152	3,374,580	304,147	13,260,184	9,681,457
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	30	266	1,714	1,756	1,001	876,457	1,651,987	3,440,279	77,037	8,001,798	4,475,482
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	17	26	112		35	61,057	121,033	484,599	6,845	862,308	370,924
Trunks, suitcases, and bags.....	26	88	485	90	265	268,544	530,544	1,193,937	15,241	2,487,933	1,278,755
Umbrellas, parasols, and canes.....	6	16	109		80	30,379	93,626	511,076	7,030	776,744	261,638
Vinogar and cider.....	12	16	66	195	288	35,557	82,887	373,880	8,207	664,243	282,066
Waste.....	10	78	469	935	1,791	282,863	448,456	3,808,470	69,062	5,635,919	1,158,387
Watch and clock materials and parts, except watchcases.....	5	10	103		133	12,657	98,081	61,500	7,491	249,255	180,204
Window and door screens and weather strip.....	27	38	173	163	380	56,913	239,130	331,768	10,967	831,243	488,508
Window shades and fixtures.....	24	40	151		143	118,637	168,403	992,474	6,466	1,634,822	635,882
Wire, drawn from purchased bars or rods.....	13	451	4,178	2,109	33,139	1,205,204	7,265,844	8,935,463	1,376,591	25,987,900	15,775,856
Wirework, not elsewhere classified.....	26	209	1,627	692	2,212	405,058	1,920,250	3,834,061	112,676	7,474,432	3,527,095
Wood preserving.....	3	10	63		184	33,585	95,529	375,822	13,059	561,921	173,040
Wood turned and shaped and other wooden goods, not elsewhere classified.....	51	85	833	1,068	1,894	224,094	867,302	1,192,494	41,041	3,028,175	1,794,040
Woolen goods.....	93	938	15,711	33,596	18,956	3,255,641	18,604,353	37,803,638	1,795,710	71,080,687	31,481,344
Wool scouring.....	11	65	635	2,365	1,890	277,812	898,515	731,713	153,775	2,476,104	1,500,616
Wool shoddy.....	22	81	503	2,271	3,196	274,634	642,330	1,920,611	167,326	3,571,253	1,474,310
Worsted goods.....	63	1,681	29,062	130,377	32,469	4,935,830	33,700,230	103,255,578	3,165,977	171,817,773	65,396,218
Other industries.....	261	4,805	23,800	77,824	62,163	12,352,663	35,933,473	150,667,173	10,899,962	290,905,614	129,038,479

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 8,278 employees of central administrative offices, with salaries aggregating \$25,702,580. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929

[This table presents, for each industrial area (See GENERAL EXPLANATIONS—Industrial Area) and for each important industrial county in the State, with certain exceptions, the reasons for which are given in explanatory notes, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

## BOSTON INDUSTRIAL AREA

[This area comprises Essex, Middlesex, Norfolk, and Suffolk Counties. The totals for all industries do not include data for a few establishments located outside the industrial area (see footnote 1), and therefore are slightly smaller than the sums of the items for the individual industries.]

All industries, total.....	6,394	48,896	285,652	470,129	466,328	Dollars 128,024,900	Dollars 371,694,731	Dollars 938,559,995	Dollars 87,991,960	Dollars 1,950,417,516	Dollars 973,868,561
Awnings, tents, sails, and canvas covers.....	43	65	225	-----	92	143,176	321,929	547,707	6,751	1,362,960	808,502
Baskets and rattan and willow ware, not including furniture.....	5	13	47	-----	48	26,324	69,377	75,187	2,452	232,652	155,013
Beverages.....	122	310	981	1,717	1,843	851,940	1,324,755	5,033,024	142,745	13,112,020	7,936,251
Billiard and pool tables, bowling alleys, and accessories <sup>1</sup> .....	5	7	33	-----	104	17,300	60,163	70,671	1,072	237,200	104,557
Blacking, stains, and dressings <sup>1</sup> .....	44	166	348	241	246	453,351	442,310	1,831,839	19,988	4,190,870	2,339,043
Bookbinding and blank-book making.....	68	207	1,489	-----	1,221	555,510	1,990,070	1,254,273	59,069	5,250,652	3,936,710
Boot and shoe cut stock, not made in boot and shoe factories.....	99	335	1,851	325	1,747	834,400	2,141,919	31,236,821	80,907	33,304,007	6,986,189
Boot and shoe findings, not made in boot and shoe factories.....	189	536	3,044	601	6,333	1,376,790	3,887,944	10,778,540	210,161	19,896,049	8,907,348
Boots and shoes, other than rubber.....	348	3,259	30,143	4,935	13,071	8,069,861	42,668,287	74,976,588	819,110	151,854,957	76,059,250
Boxes, paper, not elsewhere classified.....	74	601	4,259	345	4,855	1,458,066	4,342,798	10,750,022	200,154	20,333,490	9,333,314
Boxes, wooden, except cigar boxes.....	26	105	1,013	5,440	321	255,721	1,174,039	2,470,840	29,743	4,574,575	2,073,992
Bread and other bakery products.....	659	765	7,388	1,847	7,016	1,749,407	9,569,946	27,542,019	1,035,574	58,919,878	30,291,685
Brooms.....	5	1	23	-----	13	(?)	29,408	69,388	1,464	124,813	53,906
Canning and preserving: Fish, crabs, shrimps, oysters, and clams <sup>1</sup> .....	19	130	907	53	1,226	393,122	997,958	3,796,567	50,664	6,259,134	2,411,903
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	27	137	453	415	436	339,952	528,742	5,123,835	72,424	8,510,738	3,314,477
Carpets and rugs, rag.....	10	8	60	-----	36	11,330	47,067	64,260	2,159	184,335	117,916
Carpets and rugs, wool, other than rag.....	3	71	776	500	1,319	199,785	1,120,027	1,794,726	63,686	4,568,089	2,704,677
Caskets, coffins, burial cases, and other morticians' goods.....	8	60	261	470	91	171,456	309,547	821,454	10,881	1,980,290	1,127,955
Cigars and cigarettes.....	35	104	857	-----	174	367,891	898,341	2,177,605	12,092	4,061,834	2,772,137
Clay products (other than pottery) and nonclay refractories.....	4	16	227	805	702	42,607	295,072	19,906	173,035	772,146	579,205
Cleaning and polishing preparations.....	25	81	773	-----	291	179,796	78,636	400,783	5,207	1,004,486	658,496
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	145	462	4,022	515	886	1,350,533	5,972,849	14,030,834	127,894	23,850,717	13,701,989
Clothing, women's, not elsewhere classified.....	268	659	5,794	15	1,097	1,824,988	6,886,941	20,570,007	114,519	33,412,417	17,727,891
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	20	62	616	-----	143	180,072	748,693	2,328,553	15,703	4,011,331	1,067,015
Cloth sponging and refinishing.....	4	5	41	-----	57	15,320	57,588	1,640	2,680	119,701	115,381
Coffee and spice, roasting and grinding.....	20	246	460	298	1,598	812,721	576,529	13,463,779	97,346	17,627,271	4,066,146
Concrete products.....	41	103	516	23	1,284	361,448	928,899	708,486	56,646	2,494,608	1,729,476
Confectionery.....	124	1,071	6,979	4,039	7,744	2,891,603	6,371,950	21,071,007	478,308	41,380,974	19,831,659
Cooperage.....	4	13	244	365	181	28,214	286,747	925,668	19,082	1,472,324	527,574
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	60	272	1,132	75	1,307	776,028	1,837,026	3,239,707	64,975	7,518,980	4,214,238
Cotton goods.....	26	459	9,459	68,558	24,207	1,414,955	9,430,710	16,473,417	1,047,752	35,632,150	18,110,981
Cotton small wares.....	20	84	1,188	360	1,006	279,579	1,253,669	2,525,440	74,538	5,104,426	2,504,448
Doors, shutters, and window sash and frames, metal.....	5	25	95	-----	402	69,485	173,083	265,159	8,997	606,631	323,475
Druggists' preparations.....	14	21	60	-----	80	54,462	63,773	195,077	3,722	525,659	332,260
Dyeing and finishing textiles.....	30	523	4,836	12,401	4,050	1,428,894	5,649,801	7,215,579	918,877	21,467,246	13,322,790
Electrical machinery, apparatus, and supplies.....	74	3,982	15,568	34,013	20,049	9,006,806	22,057,646	28,739,013	1,125,287	96,842,192	66,977,892
Electroplating.....	21	28	175	-----	456	65,490	266,473	100,684	25,685	633,710	507,341
Embroideries.....	5	3	45	-----	17	4,066	40,645	18,768	700	106,176	86,708
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	16	27	90	-----	101	72,481	151,304	56,478	3,354	445,999	386,167
Envelopes.....	7	40	140	10	157	88,333	148,632	380,854	5,663	869,164	482,647
Fancy and miscellaneous articles, not elsewhere classified.....	24	97	588	100	111	292,477	577,800	775,666	8,324	2,827,744	2,043,754
Feeds, prepared, for animals and fowls <sup>1</sup> .....	6	34	157	125	1,091	69,894	164,341	2,004,860	26,807	2,679,385	647,718
Flavoring extracts and flavoring sirups.....	23	91	119	75	246	293,368	141,132	1,077,455	11,260	2,364,436	1,275,721
Flour and other grain-mill products.....	4	1	10	-----	210	(?)	9,972	104,404	3,615	127,857	20,202
Food preparations, not elsewhere classified.....	33	151	393	114	728	522,013	450,998	1,990,242	96,943	4,623,294	2,536,109
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	6	30	152	675	1,102	124,852	219,213	447,929	101,781	1,201,767	652,057
Foundry and machine-shop products, not elsewhere classified.....	272	2,853	12,822	14,734	25,091	8,669,518	19,646,671	21,261,322	1,194,833	68,680,224	46,224,069
Furnishing goods, men's, not elsewhere classified.....	24	119	888	-----	101	340,940	844,521	2,927,145	16,035	5,717,449	2,774,269
Furniture, including store and office fixtures.....	143	739	4,704	2,236	6,897	2,021,979	7,348,245	11,862,529	263,147	26,516,890	14,390,714
Galvanizing and other coating, not done in plants operated in connection with rolling mills.....	4	11	46	-----	49	28,239	68,190	75,340	10,321	241,541	155,880
Gas and electric fixtures; lamps, lanterns, and reflectors.....	11	45	287	5	712	128,982	428,825	520,579	25,338	1,411,053	865,136
Gas, manufactured, illuminating and heating.....	14	1,260	2,653	14,183	3,922	2,417,233	4,189,983	5,593,410	5,044,313	27,418,846	16,781,123
Glass products (except mirrors) made from purchased glass.....	18	27	171	-----	103	125,755	258,664	295,245	10,299	959,050	653,506
Glue and gelatin.....	12	117	729	1,628	2,024	329,968	1,054,291	4,165,943	305,165	7,944,050	3,382,942
Hair work.....	3	9	22	-----	19	18,336	19,236	19,046	-----	77,941	58,895
Hand stamps and stencils and brands.....	16	28	85	-----	67	41,042	109,478	126,114	3,675	422,441	293,652

See footnotes at end of this section, p. 238.

MASSACHUSETTS

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>BOSTON INDUSTRIAL AREA—Continued</b>											
Hardware not elsewhere classified	14	50	356	78	741	119,894	485,711	647,245	27,372	1,526,300	851,680
Hats and caps, except felt and straw, men's	28	39	204	-----	52	80,432	272,041	620,099	7,315	1,158,544	631,430
House-furnishing goods, not elsewhere classified	71	204	1,197	-----	617	536,204	1,086,007	6,783,190	33,495	10,247,371	3,430,686
Ice cream	86	145	622	-----	4,758	390,505	659,897	4,600,873	235,231	9,730,283	4,988,170
Ice, manufactured	14	90	281	3,283	7,875	107,347	484,704	182,773	369,551	2,040,400	2,088,106
Instruments, professional and scientific	25	254	671	15	744	638,766	959,486	1,201,151	30,107	5,142,340	8,902,088
Jewelry	23	114	774	-----	420	270,575	900,753	1,079,450	28,776	3,510,932	2,402,706
Jewelry and instrument cases	10	73	496	-----	420	225,935	410,898	721,974	22,026	1,773,315	1,020,315
Knit goods	65	567	6,055	5,559	2,957	1,872,078	5,756,119	13,806,014	207,041	27,185,074	13,081,419
Labels and tags	8	15	80	-----	47	97,101	72,508	145,072	2,312	603,929	355,645
Lasts and related products	10	61	350	700	958	183,905	555,366	400,010	29,136	1,655,110	1,119,064
Leather goods, not elsewhere classified	21	30	198	50	208	75,037	180,443	200,480	10,013	755,155	454,666
Lumber and timber products, not elsewhere classified	14	20	244	1,804	1,099	156,491	297,707	725,809	22,374	1,393,492	645,309
Macaroni, spaghetti, vermicelli, and noodles	10	32	192	100	787	82,213	195,661	834,273	43,945	1,382,143	503,930
Machine-tool accessories and small metal-working tools, not elsewhere classified	19	56	311	-----	474	131,977	504,090	238,034	27,250	1,382,021	1,117,337
Machine tools	10	129	628	85	1,909	317,898	941,950	805,924	51,617	3,319,461	2,461,920
Marble, granite, slate, and other stone products	123	231	1,795	5,300	7,366	729,919	3,170,136	1,860,114	261,591	8,444,181	6,320,476
Mattresses and bed springs, not elsewhere classified	39	103	518	-----	611	224,340	602,427	1,847,635	35,317	3,615,388	1,732,430
Meat packing, wholesale	22	450	1,880	2,967	3,932	873,700	2,013,152	45,027,488	303,535	51,402,636	6,011,013
Mirror and picture frames	14	35	185	80	00	80,668	221,190	188,504	6,037	677,406	482,806
Mirrors, framed and unframed	5	26	97	75	70	58,289	139,039	255,044	8,013	900,619	340,402
Models and patterns, not including paper patterns	48	75	344	-----	384	220,505	610,010	217,297	13,610	1,520,351	1,205,435
Motor-vehicle bodies and motor-vehicle parts	35	315	3,232	30	4,087	901,247	4,664,830	7,328,932	190,208	15,115,457	7,590,227
Mucilage, paste, and other adhesives, except glue and rubber cement	7	18	27	-----	146	45,944	34,350	230,953	6,081	501,373	254,739
Musical instrument parts and materials:											
Piano and organ	7	28	195	410	101	70,778	227,771	167,881	12,328	534,174	353,905
Musical instruments: Organs	4	40	303	50	311	138,554	593,274	395,618	11,621	1,005,627	1,105,388
Musical instruments: Pianos	8	100	858	687	1,249	247,235	1,207,685	1,080,596	62,382	3,697,415	1,954,437
Nonferrous-metal alloys and products, not including aluminum products	47	159	820	50	4,841	511,948	1,235,278	3,715,731	195,534	7,096,030	3,185,365
Oils, not elsewhere classified	7	33	39	10	187	96,828	58,225	861,214	8,214	1,203,544	534,116
Paints and varnishes	35	482	709	620	2,641	1,292,036	975,000	7,439,093	130,095	14,074,611	7,103,623
Paper	15	292	2,378	25,643	12,838	891,842	3,517,551	10,458,375	1,591,302	21,079,853	0,029,076
Paper goods, not elsewhere classified	31	637	2,303	1,963	16,739	1,353,222	3,046,388	3,240,475	101,794	13,406,406	4,994,137
Patent or proprietary medicines and compounds	52	605	1,452	1,209	688	1,792,130	2,180,713	5,724,188	87,352	18,754,157	12,942,617
Perfumes, cosmetics, and other toilet preparations	20	55	96	-----	49	145,033	94,797	620,411	1,701	1,860,282	1,220,170
Phonographs	3	63	343	-----	766	105,416	459,757	385,410	47,432	1,846,045	1,413,107
Photo-engraving, not done in printing establishments	31	180	533	-----	220	610,401	1,253,435	300,594	35,005	2,731,033	2,305,944
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	80	261	1,272	2,735	6,694	754,977	2,222,046	3,751,938	129,217	8,173,780	4,269,631
Pocketbooks, purses, and cardcases	8	32	165	6	52	73,605	163,966	593,803	3,090	330,722	432,990
Printing and publishing, book and job	490	2,399	7,786	1,870	8,778	6,498,565	12,640,492	11,565,874	388,912	52,939,967	40,956,331
Printing and publishing, music	9	169	82	-----	137	338,509	121,038	140,802	4,211	1,748,554	1,033,341
Printing and publishing, newspaper and periodical	227	4,981	3,961	209	12,043	12,080,022	9,901,620	17,015,404	426,318	61,398,021	48,052,109
Printing materials, not including type or ink	4	11	41	-----	54	51,682	61,540	58,821	2,981	308,441	240,039
Pumps (hand and power) and pumping equipment	12	154	318	290	791	384,680	488,773	1,181,800	33,408	2,988,780	1,773,422
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	8	22	181	125	204	99,317	299,632	271,986	5,812	906,083	628,285
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	33	74	325	50	1,236	169,018	512,018	3,593,440	64,269	4,764,756	1,107,038
Saws	4	5	14	25	82	10,384	25,701	42,993	1,523	142,311	97,706
Shirts	5	20	123	40	30	32,853	93,591	204,906	2,554	466,440	258,080
Signs and advertising novelties	20	60	300	-----	187	182,110	370,428	300,303	7,048	1,185,376	817,125
Silk and rayon manufactures	8	94	1,750	520	2,141	323,430	1,462,108	3,242,415	102,245	6,348,024	3,003,364
Smelting and refining, metals other than gold, silver, or platinum, not from the ore	5	28	64	-----	201	69,034	83,462	1,711,743	23,580	2,039,066	804,684
Sporting and athletic goods, not including firearms or ammunition	5	15	138	14	170	59,063	180,681	311,410	8,964	688,653	368,270
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	19	112	507	300	848	404,060	666,722	1,138,990	51,571	2,928,921	1,738,351
Stationery goods, not elsewhere classified	8	106	542	30	267	183,256	667,124	1,908,362	17,895	2,705,926	1,370,689
Statuary and art goods, factory product	9	19	117	-----	66	54,712	242,686	93,299	4,274	630,366	432,793
Stereotyping and electrotyping, not done in printing establishments	10	47	224	-----	891	168,065	362,168	108,625	28,820	903,891	760,440
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	61	257	1,050	300	3,707	848,905	1,800,547	3,720,622	114,103	8,620,192	4,785,407
Tanning materials, natural dyestuffs, mordants and assistants, and sizes	21	64	107	100	652	247,062	158,395	1,220,349	30,707	2,456,889	1,205,743
Textile machinery and parts	32	314	2,712	3,750	2,451	917,046	3,296,625	3,165,810	174,524	10,195,060	6,824,719
Tools, not including edge tools, machine tools, files, or saws	17	122	480	38	2,048	303,403	624,077	811,849	82,054	2,638,001	1,744,608
Toys (not including children's wheel goods or sleds), games, and playground equipment	13	91	509	-----	669	281,547	516,913	1,068,192	26,029	2,676,128	1,488,607

See footnotes at end of this section, p. 238.



## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>b</sup>	Value added by manufacture <sup>c</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>BOSTON INDUSTRIAL AREA—Continued</b>											
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	17	26	112	-----	35	Dollars 61,057	Dollars 121,033	Dollars 484,530	Dollars 6,845	Dollars 862,308	Dollars 370,924
Waste.....	6	26	172	150	597	96,210	168,576	788,519	19,520	1,249,459	441,894
Watch and clock materials and parts, except watchcases.....	5	10	103	-----	133	12,657	98,081	61,500	7,491	240,255	180,204
Window and door screens and weather strip.....	27	38	173	163	386	59,913	230,130	331,768	10,907	831,243	488,608
Window shades and fixtures.....	17	34	100	-----	60	79,867	110,735	630,032	2,913	1,050,343	410,788
Wirework, not elsewhere classified.....	11	34	216	2	221	65,450	212,433	309,282	11,202	778,689	453,205
Wood turned and shaped and other wooden goods, not elsewhere classified.....	23	43	505	850	757	140,249	545,474	781,742	19,278	1,965,667	1,164,647
Woolen goods.....	27	402	6,339	10,064	5,777	1,184,303	7,887,258	10,133,174	605,272	29,475,471	12,677,025
Worsted goods.....	30	1,094	20,218	99,807	10,457	2,601,119	22,871,100	73,700,422	2,131,634	119,718,306	43,880,310
Other industries.....	820	11,263	67,217	115,994	163,094	26,820,180	90,940,906	292,042,790	14,477,797	568,686,758	202,466,171

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>1</sup> The figures for the following numbers of establishments located outside the area have been included in the items for the area to avoid disclosing the data reported by those establishments: Billiard and pool tables, bowling alleys, and accessories, 1; blacking, stains, and dressings, 1; canning and preserving—fish, crabs, shrimps, oysters, and clams, 1; feeds, prepared, for animals and fowls, 2; instruments, professional and scientific, 2; jewelry and instrument cases, 1; macaroni, spaghetti, vermicelli, and noodles, 2; mirror and picture frames, 1; mucilage, paste, and other adhesives, except glue and rubber cement, 1; musical-instrument parts and materials—piano and organ, 1; musical instruments—pianos, 2; refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment, 1; statuary and art goods, factory product, 1; window and door screens and weather strip, 2.<sup>2</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other Industries."**PROVIDENCE-FALL RIVER-NEW BEDFORD INDUSTRIAL AREA**

[This area comprises Providence County, R. I., and Bristol County, Mass. For statistics for the area as a whole, see report for Rhode Island]

All industries, total.....	2,289	18,183	184,895	329,959	408,999	Dollars 49,587,454	Dollars 203,013,932	Dollars 441,013,808	Dollars 20,556,077	Dollars 893,409,509	Dollars 436,834,624
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**WORCESTER INDUSTRIAL AREA**

[This area is coextensive with Worcester County]

All industries, total.....	1,144	11,251	83,620	104,943	201,734	Dollars 31,015,420	Dollars 105,059,701	Dollars 206,940,187	Dollars 11,759,078	Dollars 462,225,239	Dollars 243,516,974
Beverages.....	28	27	82	-----	224	50,081	91,143	204,447	13,303	630,592	412,807
Bookbinding and blank-book making.....	4	13	148	-----	75	30,820	112,557	78,137	3,175	329,955	248,643
Boots and shoes, other than rubber.....	28	415	5,206	786	2,202	1,091,033	5,099,756	12,071,796	134,793	21,222,958	8,416,369
Boxes, paper, not elsewhere classified.....	10	33	274	-----	245	75,701	234,708	302,929	11,773	788,320	476,827
Boxes, wooden, except cigar boxes.....	8	26	221	530	1,089	89,216	258,227	554,627	8,798	1,123,892	566,467
Bread and other bakery products.....	108	89	753	-----	1,142	200,495	1,077,761	2,650,160	153,136	5,183,295	2,379,999
Carriages and sleds, children's <sup>1</sup> .....	10	132	1,438	340	960	334,940	1,653,125	2,893,720	37,828	6,404,296	3,472,747
Clay products (other than pottery) and nonclay refractories.....	3	5	40	-----	305	9,540	40,465	6,787	13,092	98,035	78,156
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	10	16	326	-----	45	28,442	276,717	494,668	5,299	982,141	482,174
Clothing, women's, not elsewhere classified.....	25	63	535	-----	126	131,970	460,995	1,281,803	10,808	2,232,989	940,378
Combs and hairpins, not made from metal or rubber <sup>2</sup> .....	13	86	531	573	293	180,823	505,875	656,593	26,382	1,772,768	1,089,793
Concrete products.....	6	7	35	63	121	13,643	52,396	39,480	3,146	143,912	101,286
Confectionery.....	7	11	47	-----	29	15,350	55,494	135,274	7,733	284,765	141,758
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	11	15	93	9	148	48,082	137,084	239,871	7,912	608,152	358,369
Corsets and allied garments.....	7	149	599	500	77	315,528	534,295	7,980	2,516,096	1,319,781	
Cotton goods.....	18	221	3,740	10,287	10,261	727,135	3,248,527	8,244,451	399,317	14,892,542	6,248,774
Dyeing and finishing textiles.....	9	193	1,230	3,712	347	645,029	1,594,740	2,310,021	294,008	5,855,017	3,244,388
Electrical machinery, apparatus, and supplies.....	6	51	211	-----	268	105,590	210,291	393,727	14,802	334,939	426,410
Electroplating.....	8	24	146	-----	352	48,996	199,846	67,288	19,172	426,880	340,420
Engines, turbines, tractors, and water wheels.....	4	17	125	225	256	42,922	186,644	105,631	13,407	444,736	325,748
Envelopes.....	7	176	993	1,075	404	417,154	1,111,874	2,808,810	29,072	5,605,170	2,667,294
Flour and other grain-mill products.....	6	8	22	55	539	10,870	-----	771,480	8,947	882,702	102,275
Foundry and machine-shop products, not elsewhere classified.....	82	848	3,577	963	13,463	2,944,050	5,598,979	6,857,761	431,565	21,564,373	14,675,057
Furniture, including store and office fixtures.....	61	411	3,714	5,196	5,766	1,148,543	4,321,699	6,209,775	215,248	14,432,702	8,007,679
Gas, manufactured, illuminating and heating.....	9	214	343	192	757	301,638	521,965	317,671	830,772	3,493,674	2,345,231
Hats and caps, except felt and straw, men's.....	5	2	7	-----	5	-----	9,497	23,759	688	49,830	25,385
House-furnishing goods, not elsewhere classified.....	7	17	85	-----	46	23,699	53,942	375,201	2,920	668,011	189,890
Ice cream.....	16	27	86	15	837	94,696	121,040	693,020	30,232	1,896,946	673,094
Knit goods.....	7	101	448	-----	382	204,282	380,138	1,874,651	13,695	2,806,217	917,871
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	10	101	827	590	809	320,176	1,279,055	639,986	85,223	4,321,619	3,696,406
Machine tools.....	11	656	2,178	160	9,302	1,603,327	3,777,750	3,125,151	152,590	14,084,281	10,806,531
Mattresses and bed springs, not elsewhere classified.....	8	12	48	-----	77	16,747	52,663	183,808	4,292	338,057	149,967
Models and patterns, not including paper patterns.....	0	5	92	-----	195	7,678	185,388	51,905	4,482	353,927	297,540
Nonferrous-metal alloys and products, not including aluminum products.....	9	36	172	-----	712	185,386	232,358	1,059,135	38,947	1,842,201	744,119

See footnotes at end of this section, p. 239.

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

WORCESTER INDUSTRIAL AREA—Continued

Paper.....	8	177	1,962	14,804	8,460	Dollars 866,723	Dollars 2,848,953	Dollars 11,384,961	Dollars 1,424,479	Dollars 20,710,743	Dollars 7,901,303
Paper goods, not elsewhere classified.....	7	71	464	720	2,098	288,448	633,422	3,424,455	80,530	5,424,322	1,910,337
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	20	42	312	1,080	1,586	113,607	421,187	601,859	32,070	1,421,891	787,965
Printing and publishing, book and job.....	48	89	343	-----	492	218,936	467,440	510,771	21,625	1,872,803	1,340,467
Printing and publishing, newspaper and periodical.....	28	283	691	10	1,106	765,837	1,349,821	1,064,732	66,134	5,574,555	4,443,689
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	4	9	44	-----	283	23,760	65,627	536,561	9,493	694,534	148,480
Screw-machine products and wood screws.....	10	270	1,387	-----	4,684	639,827	1,962,581	2,027,862	144,141	6,144,766	3,972,763
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	17	141	766	111	4,004	496,580	1,079,189	1,195,820	95,317	3,764,513	2,473,367
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	35	173	-----	550	123,361	276,736	670,285	14,191	1,367,419	682,943
Textile machinery and parts.....	33	800	6,218	5,161	10,835	2,594,726	8,890,671	6,517,710	410,564	24,444,997	17,516,723
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	9	79	630	1,636	557	221,884	556,313	1,264,647	19,447	2,693,476	1,409,332
Waste.....	5	10	41	150	227	34,410	44,703	422,031	9,732	582,085	160,295
Wirework, not elsewhere classified.....	8	142	1,251	550	1,760	255,541	1,452,716	3,193,918	89,275	5,707,741	2,434,548
Wood turned and shaped and other wooden goods, not elsewhere classified.....	13	19	120	132	508	46,929	129,297	165,427	9,655	442,980	267,904
Woolen goods.....	48	367	5,732	8,248	10,078	1,291,587	6,432,296	12,562,568	742,400	25,454,008	12,140,040
Worsted goods.....	22	307	6,037	14,103	9,347	1,158,045	6,602,821	20,827,261	656,237	34,418,753	12,935,255
Other industries <sup>c</sup> .....	292	4,153	29,128	32,948	92,743	10,512,478	38,060,154	81,059,236	4,890,234	182,731,560	96,782,090

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>c</sup> The items for each of the 2 industries covered by this footnote include data for 1 establishment located outside the area, to avoid disclosing the figures reported by the establishments in question. Amounts equivalent to the sums of the figures for these establishments have been subtracted from the "Other industries" items, and therefore the totals for the area are not affected by these counterbalancing adjustments.

<sup>d</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

<sup>e</sup> See footnote 3.

SPRINGFIELD-HOLYOKE INDUSTRIAL AREA

[This area is coterminous with Hampden County. Because of the amount of manufacturing industry in this area, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Electrical machinery, apparatus, and supplies"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	607	8,938	54,208	120,735	131,278	Dollars 23,490,588	Dollars 70,847,652	Dollars 153,765,332	Dollars 7,595,179	Dollars 41,184,468	Dollars 179,823,957
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BERKSHIRE COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Electrical machinery, apparatus, and supplies"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	177	2,642	20,115	49,869	31,554	Dollars 6,436,465	Dollars 25,724,498	Dollars 47,811,812	Dollars 3,423,067	Dollars 110,935,084	Dollars 59,700,205
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BRISTOL COUNTY

All industries, total.....	794	5,633	76,620	181,955	177,740	Dollars 15,069,168	Dollars 77,869,310	Dollars 150,310,783	Dollars 8,699,754	Dollars 319,685,864	Dollars 151,705,327
Beverages.....	20	34	100	125	238	114,936	116,879	418,829	12,496	1,045,740	614,415
Boots and shoes, other than rubber.....	5	10	136	150	48	19,903	94,567	206,052	3,598	442,037	232,417
Bread and other bakery products.....	123	28	599	15	679	48,066	715,605	2,078,853	104,798	3,906,244	1,782,613
Clay products (other than pottery) and non-clay refractories.....	4	19	147	130	291	54,427	176,967	49,788	50,140	473,834	374,006
Cotton goods.....	72	1,425	47,748	134,042	121,406	4,396,351	43,722,666	76,211,639	4,753,243	150,204,044	69,320,132
Cotton small wares.....	9	20	313	175	709	77,227	241,226	939,260	29,099	1,509,356	540,097
Dyeing and finishing textiles.....	12	536	4,626	25,011	1,331	1,492,700	5,046,645	21,288,376	940,360	34,468,851	12,230,115
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking.....	12	11	178	-----	106	19,223	237,653	46,859	6,301	561,125	507,465
Fancy and miscellaneous articles, not elsewhere classified.....	9	75	252	100	265	193,426	303,173	173,826	11,722	1,000,615	824,067
Foundry and machine-shop products, not elsewhere classified.....	29	84	536	6	1,637	221,732	789,785	1,016,311	62,329	2,754,973	1,676,333
Hats, fur-felt.....	4	29	241	-----	267	66,352	227,548	702,995	16,084	1,245,792	526,713
Ice cream.....	12	15	72	-----	546	21,617	106,164	406,078	21,214	877,473	451,181

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>BRISTOL COUNTY—Continued</b>											
Jewelry	94	640	4,008	505	3,617	Dollars 1,770,045	Dollars 5,876,770	Dollars 11,275,018	Dollars 170,189	Dollars 24,403,191	Dollars 12,957,984
Machine-tool accessories and small metal-working tools, not elsewhere classified	7	224	1,190	950	2,995	421,408	1,433,130	742,707	118,050	4,499,546	3,638,789
Marble, granite, slate, and other stone products	5	7	22	20	201	20,537	35,320	14,838	6,101	115,118	94,179
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	15	36	213	925	1,476	73,180	303,328	665,268	18,751	1,290,008	605,989
Printing and publishing, book and job	32	34	175	—	276	61,169	223,379	192,660	10,382	746,070	543,028
Printing and publishing, newspaper and periodical	14	267	306	—	857	601,727	472,936	465,132	35,108	2,568,502	2,068,262
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	14	10	70	—	265	34,223	90,732	669,177	10,548	921,270	241,554
Silk and rayon manufactures	18	130	2,234	1,275	6,642	318,007	2,165,545	8,135,705	154,967	14,878,624	6,587,892
Stoves and ranges (other than electric) and warm-air furnaces	6	123	1,105	75	2,513	381,049	1,565,013	1,301,750	123,985	4,581,384	3,155,649
Textile machinery and parts	38	162	1,124	95	4,130	536,437	1,362,105	1,161,472	100,086	4,040,409	2,778,851
Toys (not including children's wheel goods or sleds), games, and playground equipment	3	10	74	—	50	22,454	55,629	45,270	1,977	140,271	93,024
Other industries	237	1,699	10,542	18,356	27,141	4,096,877	11,956,638	31,093,910	1,007,756	62,852,308	20,850,642

**ESSEX COUNTY**

All industries, total	1,307	10,219	83,897	222,943	100,613	Dollars 25,100,950	Dollars 105,899,366	Dollars 225,287,988	Dollars 8,742,823	Dollars 463,552,485	Dollars 229,521,074
Awning, tents, sails, and canvas covers	7	3	22	—	14	7,073	33,526	51,616	860	133,857	81,285
Blacking, stains, and dressings	20	48	94	30	85	127,435	111,609	571,489	6,864	1,221,918	643,565
Bookbinding and blank-book making	3	2	10	—	28	( <sup>c</sup> )	13,804	9,882	—	43,432	33,381
Boot and shoe findings, not made in boot and shoe factories	145	363	2,365	350	4,162	811,994	2,527,131	6,590,690	123,053	12,365,523	5,644,880
Boots and shoes, other than rubber	239	1,635	17,681	1,320	6,053	3,933,919	21,067,677	35,098,761	357,131	72,591,458	37,135,566
Bread and other bakery products	140	93	946	150	150	293,145	1,297,274	3,317,846	178,628	7,122,531	3,631,057
Canning and preserving: Fish, crabs, shrimps, oysters, and clams	10	117	823	53	1,130	353,368	906,810	3,333,153	36,739	5,514,817	2,144,934
Carpets and rugs, rag	3	—	9	—	9	8,808	—	12,090	518	30,636	18,027
Clothing, women's, not elsewhere classified	5	11	184	—	29	39,882	153,070	363,536	3,472	773,981	405,973
Concrete products	5	1	12	20	23	( <sup>c</sup> )	16,528	22,000	1,283	59,913	36,630
Cotton goods	8	126	3,466	26,872	16,534	399,535	3,294,193	7,480,970	470,077	15,191,031	7,239,984
Electrical machinery, apparatus, and supplies	12	2,412	9,691	32,000	5,762	5,152,419	15,016,680	12,546,078	659,404	55,250,955	42,045,388
Fancy and miscellaneous articles, not elsewhere classified	4	20	46	—	72	24,638	56,003	197,545	1,424	354,328	155,359
Food preparations, not elsewhere classified	5	6	35	—	50	32,406	37,730	152,526	4,704	291,823	184,593
Foundry and machine-shop products, not elsewhere classified	78	852	3,888	8,091	3,410	1,808,794	6,069,101	2,930,817	261,698	14,326,320	11,133,805
Glue and gelatin	5	88	530	1,385	1,101	234,383	768,887	2,721,676	236,721	5,064,777	2,106,389
Ice cream	15	35	145	—	1,345	105,377	241,594	951,881	56,950	2,133,440	1,124,600
Leather goods, not elsewhere classified	10	13	106	50	130	35,999	111,294	108,604	5,621	361,681	127,456
Marble, granite, slate, and other stone products	15	26	410	2,225	1,012	75,244	702,197	72,351	62,175	1,273,662	1,139,136
Mattresses and bed springs, not elsewhere classified	8	11	130	—	156	16,872	108,560	324,404	5,748	572,830	242,618
Models and patterns, not including paper patterns	19	22	127	—	58	73,351	239,198	57,835	3,390	561,107	499,882
Motor-vehicle bodies and motor-vehicle parts	10	211	2,345	—	3,665	598,240	3,546,376	5,810,052	182,647	11,407,829	5,445,130
Nonferrous-metal alloys and products, not including aluminum products	6	5	20	—	58	10,775	33,358	54,834	5,713	186,731	76,184
Paper	5	70	816	9,344	931	267,445	1,154,913	3,487,701	434,960	6,864,922	2,942,261
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	13	45	248	500	1,442	121,103	386,667	654,776	26,662	1,439,366	757,928
Printing and publishing, book and job	55	55	285	—	436	134,265	401,421	426,199	18,476	1,436,258	991,683
Printing and publishing, newspaper and periodical	30	301	404	100	1,290	732,958	844,514	554,071	52,107	3,328,994	2,722,816
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	9	7	41	20	190	23,443	57,574	393,021	9,099	546,961	144,841
Ship and boat building, steel and wooden, including repair work	21	26	251	128	239	39,435	395,286	358,208	9,886	1,045,491	677,397
Wood turned and shaped and other wooden goods, not elsewhere classified	7	20	247	400	426	75,030	254,481	433,664	10,284	944,683	500,735
Woolen goods	6	143	1,939	4,635	1,505	472,404	2,232,257	5,945,780	183,653	9,810,016	3,688,583
Wool shoddy	3	10	35	—	355	54,842	108,893	209,467	33,479	547,799	244,863
Worsted goods	14	940	16,949	95,087	12,064	2,208,709	19,430,347	61,102,445	1,752,232	99,208,402	36,353,735
Other industries	448	2,463	19,547	40,353	35,599	6,837,471	24,271,586	68,878,776	3,580,070	131,589,954	59,131,109

**HAMPDEN COUNTY. (SEE SPRINGFIELD-HOLYOKE INDUSTRIAL AREA)**<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>c</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>MIDDLESEX COUNTY</b>											
All industries, total.....	1,642	15,658	97,269	150,135	184,510	Dollars 40,629,966	Dollars 121,268,881	Dollars 339,147,209	Dollars 19,143,327	Dollars 681,835,680	Dollars 323,045,144
Awnings, tents, sails, and canvas covers.....	8	1	21	—	9	(?)	23,660	40,154	879	106,512	65,479
Beverages.....	41	66	173	50	498	126,563	214,819	608,356	25,070	1,701,243	1,159,217
Blacking, stains, and dressings.....	8	77	150	170	62	203,979	191,736	827,230	7,160	1,893,434	1,064,044
Boot and shoe findings, not made in boot and shoe factories.....	17	85	578	18	649	302,189	622,230	1,431,299	30,863	2,977,016	1,514,854
Boots and shoes, other than rubber.....	45	603	8,162	1,085	2,830	1,692,847	8,328,832	16,505,581	177,648	80,842,460	14,150,281
Boxes, paper, not elsewhere classified.....	27	261	1,894	95	1,779	625,569	1,875,360	4,286,504	94,714	8,229,899	3,848,681
Boxes, wooden, except cigar boxes.....	12	42	565	2,373	113	89,031	638,157	1,382,758	14,100	2,344,409	467,551
Bread and other bakery products.....	197	280	3,409	900	2,832	643,161	4,361,069	12,734,007	437,357	27,268,904	14,097,540
Brushes, other than rubber.....	4	22	85	60	67	48,770	82,489	174,872	6,438	354,958	173,648
Carpets and rugs, rag.....	3	7	32	—	23	10,394	21,905	27,154	787	99,483	71,542
Cigars and cigarettes.....	6	—	14	—	—	—	—	12,183	18,203	25	42,819
Cleaning and polishing preparations.....	12	45	28	—	207	99,079	32,431	166,810	2,779	445,322	275,727
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	11	41	534	—	210	142,855	574,116	1,359,589	19,325	2,887,770	1,008,856
Clothing, women's, not elsewhere classified.....	27	108	829	—	190	260,817	670,310	1,850,557	16,413	3,377,031	1,501,061
Concrete products.....	20	40	200	—	613	204,578	312,034	448,407	33,684	1,277,082	794,991
Confectionery.....	47	448	2,848	820	4,090	1,172,552	2,593,293	9,209,222	214,684	16,971,187	7,547,281
Cotton goods.....	10	252	4,962	39,163	5,009	726,140	4,964,091	6,671,252	499,529	15,795,666	8,667,885
Cotton small wares.....	11	42	480	240	309	103,725	515,090	1,009,921	31,745	2,127,305	1,085,539
Dyeing and finishing textiles.....	8	133	1,036	3,566	801	1,928,215	1,198,126	1,354,346	193,259	3,631,034	2,038,429
Electrical machinery, apparatus, and supplies.....	22	784	2,565	563	9,356	9,059,101	3,136,340	9,160,681	333,363	20,060,616	10,660,560
Fancy and miscellaneous articles, not elsewhere classified.....	5	10	85	100	21	33,429	83,788	125,233	4,261	301,646	172,152
Felt goods, wool, hair, or jute.....	4	16	119	234	441	76,004	172,112	667,524	29,672	1,133,416	446,226
Food preparations, not elsewhere classified.....	10	45	142	—	233	139,365	142,128	878,054	31,611	1,741,013	831,348
Foundry and machine-shop products, not elsewhere classified.....	70	472	2,558	1,043	6,132	1,951,724	3,747,730	3,912,271	259,984	14,031,623	6,859,368
Furnishing goods, men's, not elsewhere classified.....	4	17	148	—	23	50,956	120,440	396,198	3,133	605,282	265,951
Furniture, including store and office fixtures.....	44	397	2,410	1,296	4,344	975,917	3,732,669	6,860,907	151,486	13,282,352	7,260,960
Gas, manufactured, illuminating and heating.....	6	990	1,913	10,207	982	1,923,753	3,249,930	4,471,473	3,364,807	20,842,947	13,006,667
Gold leaf and foil.....	12	12	102	3	56	10,109	138,297	92,272	3,292	299,023	167,434
Ice cream.....	38	90	345	—	2,824	225,741	510,126	2,496,074	132,158	5,338,074	2,709,842
Ice, manufactured.....	4	13	27	200	1,620	22,817	50,754	10,909	55,225	322,635	256,501
Knit goods.....	30	428	4,026	5,117	1,667	1,193,662	3,497,236	8,658,267	181,668	17,260,580	8,430,255
Machine tools.....	7	115	638	50	1,684	278,969	798,476	713,940	41,863	2,864,390	2,138,581
Marble, granite, slate, and other stone products.....	21	75	590	1,695	2,102	301,016	947,077	874,758	75,139	2,403,089	1,953,192
Mattresses and bed springs, not elsewhere classified.....	10	43	175	—	240	80,914	167,728	492,478	11,987	1,089,291	584,826
Meat packing, wholesale.....	8	408	1,504	2,877	3,627	711,980	2,137,734	36,045,247	830,976	40,871,960	4,495,735
Models and patterns, not including paper patterns.....	9	14	96	—	222	45,751	153,188	99,430	4,887	390,601	286,284
Motor-vehicle bodies and motor-vehicle parts.....	16	63	687	25	661	208,583	813,823	1,178,869	24,218	2,733,709	1,530,622
Nonferrous-metal alloys and products, not including aluminum products <sup>c</sup> .....	16	61	440	—	4,086	189,513	649,708	1,769,324	122,032	3,230,429	1,399,073
Paints and varnishes.....	11	315	414	225	1,143	784,448	557,492	4,949,305	61,855	9,956,786	4,945,569
Paper.....	7	82	725	6,476	8,517	286,607	1,118,659	3,679,178	556,749	6,839,105	2,627,238
Paper goods, not elsewhere classified.....	19	604	2,197	1,993	16,330	1,271,677	2,925,465	7,633,664	142,602	12,360,388	4,584,122
Patent or proprietary medicines and compounds.....	17	121	323	139	239	386,748	360,202	1,098,229	19,861	3,922,117	2,804,027
Perfumes, cosmetics, and other toilet preparations.....	7	16	26	—	19	25,964	26,405	113,844	767	355,799	241,198
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	29	103	426	725	2,898	307,576	800,129	1,149,774	53,586	2,715,499	1,512,139
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	9	47	209	68	622	118,348	310,479	704,106	36,669	1,513,786	773,011
Printing and publishing, book and job.....	93	513	2,606	760	2,460	1,390,458	4,360,473	4,732,068	109,432	17,800,556	12,950,056
Printing and publishing, newspaper and periodical.....	68	363	401	—	888	752,719	732,740	379,979	43,516	3,477,578	3,054,083
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	11	77	379	300	634	289,663	608,743	761,295	41,561	2,072,842	1,269,986
Stereotyping and electrotyping, not done in printing establishments.....	3	5	24	—	221	5,165	45,972	12,953	3,938	121,150	104,259
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	26	130	534	800	2,464	424,317	952,512	2,360,228	76,681	5,107,438	2,670,529
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	6	15	28	50	218	43,319	43,279	482,600	9,672	795,317	303,045
Textile machinery and parts.....	14	157	1,182	2,074	1,055	437,387	1,460,714	1,390,203	88,336	4,843,914	3,365,325
Vinegar and cider.....	7	10	61	75	209	23,827	61,599	296,605	6,053	525,662	223,004
Watch and clock materials and parts, except watchcases.....	5	10	103	—	133	12,657	98,081	61,560	7,491	249,255	180,204
Window and door screens and weather strip.....	13	22	97	133	183	34,904	138,480	182,135	5,067	493,676	276,474
Wood turned and shaped and other wooden goods, not elsewhere classified.....	10	20	231	450	216	57,065	242,012	320,232	6,419	900,760	874,118
Woolen goods.....	11	179	3,149	11,674	1,537	429,976	4,061,762	7,636,388	318,068	14,143,907	6,189,456
Wool scouring.....	6	30	303	1,100	916	111,891	444,177	103,412	85,776	1,027,248	838,660
Wool shoddy.....	4	17	94	575	227	79,234	127,814	193,910	25,165	510,920	291,855
Other industries <sup>d, e</sup> .....	410	6,144	39,164	60,184	83,289	16,275,392	50,415,905	163,337,310	10,615,326	320,733,798	146,781,162

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>c</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."  
<sup>d</sup> The figures for the "Nonferrous-metal alloys and products, not including aluminum products" industry include data for one establishment located outside the county, to avoid disclosing the data for the establishment in question. Amounts equivalent to the figures for this establishment have been subtracted from the "Other industries" items, and therefore the totals for the county are not affected by these counterbalancing adjustments.  
<sup>e</sup> The figures for this item include data for the "Boots and shoes, rubber" industry, which reported a larger number of wage earners than any other industry in the county and for the "Soap" industry, which reported a larger value of products than any other industry in the county. Separate figures can not be given for either of these industries without disclosing approximations of the data for individual establishments.  
<sup>f</sup> See footnote 7.

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>b</sup>	Value added by manufacture <sup>c</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>NORFOLK COUNTY</b>											
All industries, total.....	461	4, 134	22, 523	33, 998	54, 592	Dollars 11, 404, 506	Dollars 30, 742, 370	Dollars 78, 446, 369	Dollars 2, 798, 156	Dollars 162, 980, 063	Dollars 81, 735, 538
Awnings, tents, sails, and canvas covers.....	3	2	5	-----	3	(1)	8, 893	13, 726	436	37, 422	23, 260
Boot and shoe findings, not made in boot and shoe factories.....	6	13	85	83	171	44, 049	95, 847	370, 662	15, 099	633, 036	247, 285
Boots and shoes, other than rubber.....	20	337	3, 558	655	1, 537	916, 641	4, 180, 346	9, 373, 014	100, 619	18, 736, 299	9, 262, 666
Boxes, wooden, except cigar boxes.....	3	6	29	212	133	11, 428	26, 029	76, 140	2, 703	151, 508	72, 663
Bread and other bakery products.....	39	10	117	-----	138	23, 101	174, 102	449, 917	23, 646	963, 895	490, 433
Clothing, women's, not elsewhere classified.....	3	11	58	-----	19	28, 543	45, 422	202, 062	1, 349	335, 802	132, 391
Concrete products.....	7	5	37	3	93	0, 440	65, 765	31, 604	2, 084	137, 060	103, 372
Dyeing and finishing textiles.....	10	179	740	1, 939	2, 255	494, 812	848, 330	2, 071, 615	186, 061	4, 546, 197	2, 288, 521
Felt goods, wool, hair, or jute.....	5	24	352	624	830	134, 575	605, 509	2, 246, 064	65, 899	3, 441, 204	1, 128, 641
Foundry and machine-shop products, not elsewhere classified.....	20	359	1, 165	940	2, 363	821, 621	2, 002, 783	1, 682, 702	112, 194	6, 823, 068	5, 029, 072
Ice cream.....	7	3	12	-----	129	4, 014	16, 032	99, 506	6, 321	188, 828	83, 001
Knit goods.....	19	62	852	288	607	334, 120	921, 996	2, 982, 032	64, 968	5, 220, 886	2, 173, 916
Marble, granite, slate, and other stone products.....	78	90	576	1, 730	3, 310	224, 868	1, 091, 045	990, 562	84, 140	3, 446, 320	2, 371, 618
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	7	45	233	-----	827	120, 578	332, 031	577, 992	17, 034	1, 318, 220	723, 194
Printing and publishing, book and job.....	31	136	1, 152	910	704	584, 576	1, 910, 538	862, 269	44, 313	4, 534, 066	3, 023, 084
Printing and publishing, newspaper and periodical.....	20	389	135	-----	200	1, 054, 163	200, 776	157, 702	16, 013	2, 722, 133	2, 548, 418
Woolen goods.....	10	80	1, 251	2, 755	2, 735	281, 023	1, 593, 239	2, 553, 008	183, 556	5, 215, 543	2, 793, 930
Wool shoddy.....	3	30	174	965	1, 285	100, 038	209, 741	1, 222, 380	61, 235	1, 863, 128	679, 513
Other industries.....	165	2, 355	11, 992	22, 894	37, 103	6, 206, 960	16, 506, 795	62, 482, 864	1, 830, 587	102, 363, 945	48, 050, 504
<b>PLYMOUTH COUNTY</b>											
All industries, total.....	405	2, 910	22, 600	18, 555	24, 964	Dollars 7, 066, 960	Dollars 27, 264, 410	Dollars 67, 331, 779	Dollars 1, 634, 994	Dollars 130, 048, 112	Dollars 61, 081, 339
Beverages.....	7	7	21	4	49	7, 951	24, 236	62, 620	3, 150	164, 174	98, 395
Blacking, stains, and dressings.....	15	38	34	40	28	80, 689	47, 192	222, 156	3, 420	655, 356	429, 780
Boots and shoes, other than rubber.....	51	1, 358	13, 048	5, 485	4, 810	3, 041, 089	15, 686, 036	33, 121, 225	309, 342	64, 977, 562	31, 546, 495
Boxes, paper, not elsewhere classified.....	6	22	123	50	65	52, 709	112, 183	129, 108	4, 590	381, 226	247, 528
Boxes, wooden, except cigar boxes.....	5	10	126	225	635	13, 044	136, 237	238, 142	13, 126	496, 806	245, 538
Bread and other bakery products.....	38	36	264	150	475	61, 360	402, 161	840, 680	40, 077	1, 049, 972	1, 003, 215
Concrete products.....	6	1	9	33	23	(2)	12, 298	16, 318	1, 012	44, 931	27, 601
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	5	16	-----	3	7, 800	28, 077	24, 078	258	87, 164	62, 828
Cotton small wares.....	6	18	283	-----	311	52, 949	296, 295	800, 082	21, 252	1, 444, 684	623, 350
Electrical machinery, apparatus, and supplies.....	6	29	255	35	166	79, 157	237, 853	398, 044	9, 319	899, 199	491, 336
Foundry and machine-shop products, not elsewhere classified.....	16	75	673	345	823	233, 983	981, 737	586, 321	53, 819	2, 549, 336	1, 908, 096
Ice cream.....	16	19	78	-----	762	40, 923	108, 592	490, 442	28, 540	1, 213, 176	688, 194
Lumber and timber products, not elsewhere classified.....	12	12	98	595	740	23, 998	101, 539	120, 041	9, 620	320, 581	190, 920
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	10	50	333	425	1, 078	145, 008	439, 302	792, 873	52, 502	1, 812, 368	966, 993
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	3	3	11	-----	181	4, 940	20, 132	14, 339	3, 471	52, 280	34, 470
Printing and publishing, book and job.....	24	66	198	-----	279	154, 321	267, 947	374, 486	14, 047	1, 214, 064	825, 531
Printing and publishing, newspaper and periodical.....	9	109	132	-----	327	201, 409	236, 813	170, 244	11, 552	937, 350	755, 584
Tools, not including edge tools, machine tools, files, or saws.....	4	5	27	60	57	12, 122	31, 852	14, 751	4, 248	89, 282	70, 283
Worsted goods.....	4	82	831	1, 078	565	303, 155	1, 148, 043	3, 921, 231	55, 068	5, 744, 311	1, 768, 012
Other industries.....	164	965	6, 040	10, 030	13, 878	2, 549, 453	6, 945, 835	24, 988, 089	990, 081	45, 014, 260	19, 036, 090

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>c</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."<sup>d</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929.—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>SUFFOLK COUNTY</b>											
[The totals for all industries do not include data for a few establishments located outside the county (see footnote 13), and therefore are slightly smaller than the sums of the items for the individual industries]											
All industries, total.....	2,894	18,885	81,903	54,053	120,613	Dollars 60,889,538	Dollars 113,784,105	Dollars 295,675,429	Dollars 7,307,654	Dollars 642,549,288	Dollars 339,666,205
Awnings, tents, sails, and canvas covers.....	25	49	177	.....	60	130,503	257,850	442,211	4,480	1,085,160	638,478
Beverages.....	44	103	491	1,342	917	483,523	717,460	1,935,248	86,825	5,398,443	3,370,370
Billiard and pool tables, bowling alleys, and accessories <sup>13</sup> .....	5	7	33	.....	104	17,300	60,103	70,671	1,072	237,200	164,557
Blacking, stains, and dressings.....	13	38	88	35	94	118,297	130,509	415,945	5,804	1,005,326	683,517
Bookbinding and blank-book making.....	49	126	880	.....	620	323,744	1,151,274	499,985	27,902	2,716,359	2,188,469
Boot and shoe cut stock, not made in boot and shoe factories.....	29	208	878	.....	989	583,046	1,116,278	21,075,357	36,827	24,953,711	3,841,527
Boot and shoe findings, not made in boot and shoe factories.....	21	75	616	150	1,351	218,558	642,736	2,379,899	40,246	3,920,474	1,500,329
Boots and shoes, other than rubber.....	44	624	6,742	1,875	2,051	1,526,454	9,091,432	13,999,232	183,721	29,684,740	16,501,787
Boxes, paper, not elsewhere classified.....	20	170	1,319	250	1,128	462,300	1,280,117	2,065,976	56,436	6,459,108	2,736,756
Bread and other bakery products.....	274	382	2,856	947	3,896	790,000	3,737,501	11,040,840	451,044	23,564,548	12,072,655
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	14	104	230	415	160	243,334	257,163	2,067,088	29,827	3,415,201	1,817,686
Carpets and rugs, rag.....	4	1	19	.....	4	.....	16,354	25,016	854	54,217	28,347
Cigars and cigarettes.....	25	104	832	.....	173	357,801	868,021	2,138,560	11,795	4,871,560	2,721,205
Cleaning and polishing preparations.....	7	32	20	.....	52	77,925	21,386	111,686	1,554	371,708	262,528
Clothing (except work clothing, men's youths', and boys', not elsewhere classified).....	125	389	3,941	440	549	1,123,921	4,967,310	12,330,012	93,075	24,282,952	11,809,265
Clothing, women's, not elsewhere classified.....	233	531	4,723	15	859	1,495,746	6,018,139	18,144,852	93,285	33,926,003	16,688,466
Cloth sponging and refinishing.....	4	5	41	.....	57	15,320	57,588	1,640	2,680	119,701	115,381
Concrete products.....	9	48	257	.....	555	146,910	534,572	206,475	19,595	1,020,558	794,483
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	38	131	649	75	693	427,484	1,073,555	1,616,302	49,549	4,024,115	2,367,264
Druggists' preparations.....	8	6	24	.....	24	23,523	25,655	106,781	1,618	243,569	135,275
Electroplating.....	14	22	122	.....	301	47,055	179,187	77,508	17,668	457,782	362,608
Embroideries.....	5	3	45	.....	17	4,055	40,645	18,708	700	106,176	86,708
Engraving, steel and copperplate, and plate printing.....	18	80	306	.....	164	194,612	405,118	325,436	8,065	1,607,261	1,273,760
Envelopes.....	7	40	140	10	157	88,333	148,632	380,854	5,663	869,164	482,647
Fancy and miscellaneous articles, not elsewhere classified.....	15	67	457	.....	18	234,410	438,069	452,888	2,639	2,171,770	1,710,243
Food preparations, not elsewhere classified <sup>13</sup> .....	18	100	216	114	446	350,242	271,135	959,662	60,628	2,590,458	1,570,168
Foundry and machine-shop products, not elsewhere classified.....	95	1,170	5,211	4,660	13,186	4,087,379	7,827,057	12,735,532	500,957	33,498,313	20,201,824
Fur goods.....	25	61	217	.....	78	202,739	440,497	1,059,609	6,507	2,185,230	1,119,114
Furnishing goods, men's, not elsewhere classified.....	20	102	740	.....	78	289,984	724,081	2,530,947	12,902	5,052,167	2,503,318
Furniture, including store and office fixtures.....	90	324	2,226	915	2,420	1,010,951	3,508,753	5,821,895	108,471	12,852,361	6,921,905
Glass products (except mirrors) made from purchased glass.....	11	18	96	.....	7	67,669	168,868	53,758	918	400,382	354,706
Hardware not elsewhere classified.....	8	15	70	3	97	50,518	80,185	109,010	4,027	343,572	229,929
Hats and caps, except felt and straw, men's <sup>13</sup> .....	28	39	204	.....	52	90,432	272,941	520,099	7,315	1,156,844	631,430
House-furnishing goods, not elsewhere classified.....	51	159	957	.....	306	362,473	845,117	5,220,842	20,704	7,832,023	2,500,470
Ice cream.....	26	17	120	.....	090	55,463	192,095	959,412	39,802	2,069,941	1,070,727
Ice, manufactured.....	5	61	177	2,775	4,896	110,025	324,117	93,204	245,287	1,876,468	1,566,917
Instruments, professional and scientific.....	9	53	228	15	291	168,523	328,193	241,439	12,564	687,450	733,370
Leather goods, not elsewhere classified.....	7	9	47	.....	29	18,646	85,181	70,675	2,468	166,528	93,867
Macaroni, spaghetti, vermicelli, and noodles.....	6	30	181	100	715	80,813	181,032	773,833	38,544	1,283,304	470,067
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	10	11	83	.....	103	34,900	166,909	49,782	6,085	350,808	300,036
Marble, granite, slate, and other stone products.....	9	40	219	150	1,442	128,791	429,817	428,443	30,137	1,321,110	862,530
Mattresses and bed springs, not elsewhere classified.....	21	49	213	.....	515	126,554	326,130	1,030,693	17,582	1,953,267	904,002
Meat packing, wholesale.....	14	42	322	90	305	161,860	425,418	8,932,241	32,557	10,539,676	1,515,878
Millinery.....	22	47	427	20	146	111,270	431,931	1,187,310	13,957	2,152,944	1,001,877
Mirror and picture frames.....	9	14	74	.....	38	38,325	109,368	95,672	2,335	353,643	255,636
Mirrors, framed and unframed.....	5	26	97	75	70	58,289	139,636	255,044	8,013	600,510	346,462
Models and patterns, not including paper patterns.....	20	39	121	.....	104	101,463	227,533	60,032	5,742	574,643	509,239
Nonferrous-metal alloys and products, not including aluminum products.....	26	123	351	50	697	361,658	552,212	1,891,573	67,389	3,729,470	1,770,108
Paints and varnishes.....	17	127	238	335	1,237	405,075	843,468	1,854,348	58,750	3,647,745	1,734,647
Paper goods, not elsewhere classified.....	9	17	55	.....	168	43,398	61,901	198,775	6,754	417,093	212,164
Patent or proprietary medicines and compounds.....	28	389	1,048	950	168	1,185,225	1,704,113	4,019,652	67,033	11,699,079	7,622,394
Perfumes, cosmetics, and other toilet preparations <sup>13</sup> .....	13	39	70	.....	30	119,069	68,302	515,567	944	1,504,483	987,972
Photo-engraving, not done in printing establishments.....	23	128	399	.....	152	361,405	996,112	226,067	25,906	2,045,072	1,793,099
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	26	68	365	1,510	1,427	196,720	703,819	1,360,396	31,935	2,700,701	1,299,370
Printing and publishing, book and job.....	311	1,690	3,743	210	5,188	4,419,266	5,959,010	5,565,338	216,691	20,162,847	23,380,458
Printing and publishing, music.....	9	169	82	.....	137	333,559	121,038	140,802	4,211	1,748,364	1,603,341
Printing and publishing, newspaper and periodical.....	119	3,928	3,021	199	9,605	9,490,182	8,123,409	15,923,742	314,682	51,865,216	35,620,792
Printing materials, not including type or ink.....	4	11	41	.....	54	51,682	61,540	58,821	2,981	308,441	246,639
Pumps (hand and power) and pumping equipment.....	4	89	185	250	368	208,636	290,841	843,646	17,601	1,987,643	1,126,396
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	4	13	122	125	78	55,932	213,970	155,494	3,508	611,707	462,705
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	18	58	225	.....	797	124,600	345,195	2,713,785	43,514	3,588,966	831,667

See footnotes at end of this section, p. 244.



## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>SUFFOLK COUNTY—Continued</b>											
Screw-machine products and wood screws.....	7	17	117		353	Dollars 77,391	Dollars 184,847	Dollars 301,052	Dollars 18,455	Dollars 726,516	Dollars 407,909
Signs and advertising novelties.....	15	55	279		179	126,808	345,891	344,041	7,399	1,109,816	758,578
Statuary and art goods, factory product <sup>1</sup> .....	9	19	117		66	54,712	242,086	93,299	4,274	530,366	432,793
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	3	18	13		112	31,375	24,149	60,500	3,013	160,099	96,586
Stereotyping and electrotyping, not done in printing establishments.....	7	42	200		670	162,840	316,196	96,672	24,882	782,741	662,187
Stoves and ranges (other than electric) and warm-air furnaces.....	5	14	48		45	21,808	80,055	117,533	3,415	269,286	148,838
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	30	103	400		1,054	324,859	728,550	1,047,070	33,432	2,696,778	1,616,276
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	11	32	58	15	381	86,257	86,623	514,300	17,294	982,255	450,661
Tools, not including edge tools, machine tools, files, or saws.....	7	75	333	38	1,479	172,308	406,425	476,736	59,001	1,550,340	1,014,008
Trimmings (not made in textile mills) and stamped art goods for embroidering <sup>1</sup> .....	17	20	112		35	61,057	121,033	484,539	6,845	862,308	370,924
Trunks, suitcases, and bags.....	19	26	161		48	53,385	180,751	417,247	3,375	831,680	411,058
Window and door screens and weather strip.....	7	13	44		109	18,439	57,098	94,750	4,304	239,639	140,485
Window shades and fixtures.....	14	31	83		36	73,296	92,488	573,599	1,583	930,607	355,425
Wirework, not elsewhere classified.....	6	12	42		46	20,396	59,427	99,124	1,830	254,623	153,669
Other industries.....	567	5,727	31,919	35,900	60,004	15,440,141	40,706,320	119,888,969	3,809,134	250,185,535	126,487,432

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>1</sup> The figures for the following numbers of establishments located outside the county have been included in the items for the county, to avoid disclosing the data reported by those establishments: Billiard and pool tables, bowling alleys, and accessories, 1; food preparations, not elsewhere classified, 2; hats and caps, except felt and straw, men's, 2; perfumes, cosmetics, and other toilet preparations, 1; statuary and art goods, factory product, 2; trimmings (not made in textile mills) and stamped art goods for embroidering, 1.<sup>2</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."**WORCESTER COUNTY. (SEE WORCESTER INDUSTRIAL AREA)**

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929

[This table presents, for each important industrial city in the State, with certain exceptions, the reasons for which are given in explanatory notes, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

**BOSTON**

[The totals for all industries do not include data for a few establishments located outside the city (see footnote 1), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	2,734	17,807	75,907	45,650	110,193	\$48,118,715	\$105,794,127	\$277,536,628	\$6,562,058	\$603,711,473	\$319,612,787
Awings, tents, sails, and canvas covers <sup>1</sup> .....	25	49	177		66	130,503	257,850	442,211	4,480	1,085,169	638,478
Beverages.....	40	167	437	1,342	904	482,223	713,319	1,921,198	86,270	5,368,173	3,350,705
Billiard and pool tables, bowling alleys, and accessories <sup>1</sup> .....	5	7	33		104	17,300	60,163	70,671	1,972	237,200	164,557
Bookbinding and blank-book making.....	13	38	88	35	94	118,297	130,509	415,945	5,864	1,005,326	583,617
Boot and shoe cut stock, not made in boot and shoe factories.....	49	126	886		620	323,744	1,151,274	490,986	27,902	2,718,356	2,188,480
Boot and shoe findings, not made in boot and shoe factories.....	28										
Boots and shoes, other than rubber.....	18	681	3,817	1,350	4,158	1,845,827	9,201,181	34,881,687	211,910	53,090,165	17,996,568
Bread and other bakery products.....	28										
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	251	363	2,733	947	3,756	759,647	3,465,063	10,545,730	424,785	22,563,280	11,592,765
Cigars and cigarettes.....	14	104	230	415	160	243,334	257,163	2,067,688	20,827	3,415,201	1,317,686
Cleaning and polishing preparations.....	25	104	832		173	337,891	893,021	2,138,560	11,795	4,871,560	2,721,205
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified <sup>1</sup> .....	7	32	20		52	77,925	21,350	111,686	1,554	375,798	262,558
	125	389	3,041	440	549	1,123,921	4,967,310	12,830,612	93,075	24,232,952	11,809,265

See footnotes at end of this section, p. 245.



TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
BOSTON—Continued											
Clothing, women's, not elsewhere classified	233	531	4,723	15	859	\$1,495,746	\$6,018,139	\$18,144,852	\$93,285	\$33,926,603	\$15,688,466
Cloth sponging and refinishing	4	5	41		57	15,320	67,588	1,640	2,680	119,701	115,381
Concrete products <sup>1</sup>	9	48	257		555	146,910	534,572	206,475	19,595	1,020,553	794,483
Confectionery	51	603	3,970	3,210	3,466	1,675,668	3,605,508	11,275,060	238,309	23,341,791	11,828,422
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	38	131	649	75	693	427,484	1,073,555	1,616,302	40,549	4,024,115	2,567,264
Druggists' preparations	8	6	24		24	23,523	25,655	106,781	1,513	243,560	135,275
Electrical machinery, apparatus, and supplies	32	669	2,824	825	3,642	1,661,481	3,481,800	6,287,237	207,461	19,641,498	13,146,800
Electroplating	14	22	122		301	47,055	179,187	77,506	17,668	457,782	362,608
Embroideries	5	8	45		17	4,056	40,645	18,768	700	100,176	86,708
Engraving, steel and copperplate, and plate printing	18	80	304		194	194,612	405,118	325,436	8,065	1,607,261	1,273,760
Envelopes	7	40	140	10	157	88,333	148,632	380,854	5,603	689,164	482,647
Fancy and miscellaneous articles, not elsewhere classified	15	67	457		18	234,410	438,069	452,888	2,639	2,171,770	1,716,243
Food preparations, not elsewhere classified	12	85	181	6	404	292,985	224,700	791,874	25,762	2,116,874	1,299,248
Fur goods	25	61	217		78	202,739	440,497	1,059,609	6,507	2,185,230	1,119,114
Furnishing goods, men's, not elsewhere classified	20	102	740		78	289,984	724,081	2,530,947	12,902	5,052,167	2,508,318
Furniture, including store and office fixtures	81	306	2,109	890	2,160	970,921	3,353,687	5,630,463	98,264	12,322,547	6,598,820
Glass products (except mirrors) made from purchased glass	11	18	96		7	67,009	108,808	53,758	918	409,382	354,706
Hardware not elsewhere classified	8	15	70	3	97	50,518	80,185	109,616	4,027	343,572	229,229
Hats and caps, except felt and straw, men's <sup>1</sup>	28	39	204		52	90,432	272,941	520,099	7,315	1,188,844	631,430
House-furnishing goods, not elsewhere classified <sup>1</sup>	51	159	957		306	362,476	845,117	5,220,849	20,704	7,832,023	2,590,470
Ice cream	20	16	108		919	174,950	49,743	930,727	37,871	1,964,556	995,058
Ice, manufactured <sup>1</sup>	5	61	177	2,775	4,036	110,025	324,117	63,204	245,287	1,875,408	1,566,917
Instruments, professional and scientific	9	53	228	15	291	168,523	328,193	241,486	12,594	987,460	733,370
Macaroni, spaghetti, vermicelli, and noodles	6	30	181	100	715	80,313	181,032	773,883	38,544	1,283,394	470,967
Machine-tool accessories and small metal-working tools, not elsewhere classified	10	11	88		103	34,900	166,909	49,782	6,085	356,803	300,936
Marble, granite, slate, and other stone products	9	40	219	150	1,442	128,791	429,817	428,443	30,137	1,321,110	862,530
Mattresses and bed springs, not elsewhere classified	18	44	306		478	121,082	311,932	904,365	16,842	1,885,413	873,706
Meat packing, wholesale	14	42	222	90	305	161,860	425,418	8,982,241	32,557	10,530,676	1,515,878
Millinery	22	47	427	20	146	111,270	431,931	1,137,310	13,957	2,162,944	1,001,677
Mirror and picture frames	9	14	74		38	33,825	100,308	95,672	2,335	358,643	255,036
Mirrors, framed and unframed	5	26	97	75	70	58,289	139,636	255,044	8,013	609,519	346,462
Models and patterns, not including paper patterns	20	39	121		104	101,463	227,533	60,032	5,342	574,043	509,269
Nonferrous-metal alloys and products, not including aluminum products <sup>1</sup>	26	123	351	50	697	361,658	552,212	1,391,573	67,789	3,729,470	1,770,108
Paper goods, not elsewhere classified	9	17	55		158	43,398	61,961	198,775	6,754	417,693	212,164
Patent or proprietary medicines and compounds <sup>1</sup>	28	389	1,048	950	168	1,185,225	1,704,113	4,019,652	57,033	11,699,079	7,622,394
Perfumes, cosmetics, and other toilet preparations <sup>1</sup>	13	39	70		30	119,069	68,392	515,567	944	1,504,483	987,972
Photo-engraving, not done in printing establishments	23	128	399		152	361,405	996,112	226,067	25,066	2,045,072	1,793,099
Planing-mill products (including general millwork), not made in planing mills connected with sawmills	22	60	343	1,510	1,180	177,790	660,078	1,275,070	26,443	2,480,570	1,184,457
Printing and publishing, book and job	305	1,690	3,728	210	5,159	4,419,266	5,944,232	5,543,071	215,304	29,088,665	23,330,290
Printing and publishing, music	9	169	82		137	333,509	121,038	140,802	4,211	1,748,354	1,803,341
Printing and publishing, newspaper and periodical	111	3,916	2,994	199	9,570	9,479,065	8,085,828	15,908,094	311,967	51,722,129	35,502,068
Printing materials, not including type or ink	4	11	41		54	61,682	61,540	58,821	2,981	308,441	246,639
Pumps (hand and power) and pumping equipment	4	89	185	250	368	208,636	290,841	843,546	17,601	1,987,643	1,126,396
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	4	13	122	125	78	55,932	213,970	155,494	3,508	611,707	452,705
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	18	58	225		797	124,609	345,195	2,713,785	48,514	3,588,966	831,667
Screw-machine products and wood screws	7	17	117		353	77,391	164,847	301,052	18,455	726,516	407,099
Signs and advertising novelties	16	55	279		179	125,808	345,891	344,041	7,199	1,100,816	758,579
Statuary and art goods, factory product <sup>1</sup>	9	19	117		66	54,712	242,686	93,299	4,274	530,366	432,793
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	3	18	13		112	31,375	24,149	60,500	3,013	160,099	96,580
Stereotyping and electrotyping, not done in printing establishments	7	42	200		670	162,840	316,196	95,672	24,882	782,741	662,187
Tanning materials, natural dyestuffs, mordants and assistants, and sizes	11	32	58	15	381	85,257	86,623	514,300	17,294	982,255	450,601
Tools, not including edge tools, machine tools, files, or saws	7	75	353	38	1,479	172,303	406,425	476,786	59,001	1,550,340	1,014,608
Trimmings (not made in textile mills) and stamped art goods for embroidering <sup>1</sup>	17	26	112		35	61,057	121,033	484,539	6,845	862,308	370,924
Window and door screens and weather strip	7	13	44		109	18,439	57,698	94,750	4,304	239,539	140,485
Window shades and fixtures	14	31	83		36	73,296	92,488	573,599	1,583	930,607	355,425
Wirework, not elsewhere classified	6	12	42		46	20,396	59,427	99,124	1,830	294,623	159,809
Other industries	627	5,324	28,345	29,515	55,877	15,397,825	38,471,705	106,861,194	3,494,155	223,435,239	113,079,890

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>1</sup> The figures for the following numbers of establishments located outside the city have been included in the items for the city, to avoid disclosing the data reported by those establishments: Awnings, tents, sails, and canvas covers, 1; billiard and pool tables, bowling alleys, and accessories, 1; blacking, stains, and dressings, 1; clothing (except work clothing), men's, youths', and boys', not elsewhere classified, 1; concrete products, 2; hats and caps, except felt and straw, men's, 3; house-furnishing goods, not elsewhere classified, 1; ice, manufactured, 1; nonferrous-metal alloys and products, not including aluminum products, 1; patent or proprietary medicines and compounds, 1; perfumes, cosmetics, and other toilet preparations, 1; statuary and art goods, factory product, 2; trimmings (not made in textile mills) and stamped art goods for embroidering, 1.

<sup>2</sup> Because of the fact that combined figures for these industries have been published by the Massachusetts Department of Labor and Industries, it is necessary to withhold the figures for the individual industries to avoid making it possible to obtain, by subtraction, approximation of the data for individual establishments.

## CENSUS OF MANUFACTURES: 1929

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime-movers	Electric motors driven by purchased energy						
<b>CAMBRIDGE</b>											
All industries, total.....	391	4,206	21,328	23,181	33,216	\$11,897,678	\$27,438,962	\$83,927,634	\$2,786,454	\$183,009,785	\$98,895,697
Beverages.....	7	12	34	50	103	24,209	48,194	153,066	5,066	386,347	228,225
Boxes, paper, not elsewhere classified.....	6	37	451	95	244	124,606	402,844	507,861	18,051	1,246,996	721,084
Bread and other bakery products.....	47	147	1,834	900	1,314	346,087	2,189,274	5,604,138	166,985	13,309,089	7,537,956
Clothing, women's, not elsewhere classified.....	10	20	189	20	20	51,386	172,218	528,660	3,153	873,352	341,533
Confectionery.....	27	422	2,705	820	3,952	1,140,400	2,451,285	8,339,707	194,623	15,543,535	7,009,205
Foundry and machine-shop products, not elsewhere classified.....	19	191	991	205	1,771	1,081,258	1,385,166	1,804,071	68,591	6,216,108	4,343,446
Furniture, including store and office fixtures.....	16	166	978	936	1,236	1,988,980	1,007,863	53,228	5,370,863	3,649,772	
Ice cream.....	7	51	180	1,050	1,050	185,223	225,686	1,506,142	67,474	3,216,617	1,643,001
Marble, granite, slate, and other stone products.....	6	23	97	305	727	99,185	184,966	155,631	15,256	632,672	461,785
Motor-vehicle bodies and motor-vehicle parts.....	4	21	101	158	158	90,855	128,719	447,840	2,576	855,818	405,393
Nonferrous-metal alloys and products, not including aluminum products.....	4	6	27	134	7	11,159	37,360	111,806	5,832	209,056	91,418
Perfumes, cosmetics, and other toilet preparations.....	3	4	11	7	7	8,300	11,407	51,112	486	118,956	67,357
Printing and publishing, book and job.....	34	353	1,905	750	1,223	950,296	3,283,980	3,190,068	71,302	13,429,101	10,187,731
Printing and publishing, newspaper and periodical.....	16	109	71	48	48	207,305	130,146	63,839	2,152	798,110	732,119
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	11	51	194	300	607	148,318	343,162	895,335	19,584	1,994,400	1,079,481
Window and door screens and weather strip.....	4	1	28	61	61	(9)	33,573	40,674	1,070	103,738	61,994
Other industries.....	170	2,692	11,572	18,811	20,492	6,991,437	14,421,922	58,859,826	2,001,015	119,305,088	58,354,197
<b>FALL RIVER</b>											
All industries, total.....	232	1,487	26,143	88,102	55,556	\$3,944,249	\$23,254,550	\$57,646,531	\$3,095,324	\$103,798,738	\$48,051,838
Beverages.....	7	5	23	88	88	10,400	26,637	57,338	3,074	157,797	97,385
Bread and other bakery products.....	57	9	236	268	268	14,186	270,903	935,695	44,169	1,650,221	870,387
Cotton goods.....	34	536	19,737	67,567	48,877	1,791,402	16,951,827	29,027,294	2,000,368	56,334,337	25,207,675
Cotton small wares.....	6	15	278	670	670	63,944	211,060	881,070	25,653	1,398,836	492,113
Foundry and machine-shop products, not elsewhere classified.....	7	15	110	6	149	27,914	136,521	158,866	9,248	431,071	263,857
Hats, fur-felt.....	4	29	241	267	267	66,352	227,548	702,995	16,084	1,245,792	526,713
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	6	20	98	425	539	42,697	128,603	249,202	6,145	517,066	261,629
Printing and publishing, book and job.....	10	9	41	54	54	13,088	57,836	44,637	1,460	164,599	118,502
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	9	3	44	124	124	12,132	57,164	373,630	5,823	507,236	127,783
Textile machinery and parts.....	15	35	235	15	520	143,022	279,647	420,888	22,908	1,250,454	806,658
Other industries.....	77	811	5,100	20,089	4,000	1,759,112	4,907,099	24,794,856	951,392	40,135,429	14,389,181
<b>LOWELL</b>											
All industries, total.....	217	1,517	17,097	46,893	16,246	\$3,864,782	\$17,100,365	\$33,542,487	\$1,558,291	\$69,592,907	\$34,402,129
Beverages.....	6	3	17	54	54	6,380	19,634	30,659	3,257	89,304	55,388
Boot and shoe findings, not made in boot and shoe factories.....	4	10	157	160	160	15,616	134,570	271,141	5,098	513,324	237,085
Boots and shoes, other than rubber.....	13	211	2,710	738	738	875,323	2,331,056	4,832,461	37,623	9,087,148	4,217,064
Boxes, paper, not elsewhere classified.....	3	23	267	156	156	58,363	228,637	265,062	7,855	707,109	434,192
Bread and other bakery products.....	36	6	224	158	158	11,120	267,933	833,055	39,394	1,472,840	600,391
Clothing, women's, not elsewhere classified.....	4	22	142	54	54	49,366	100,699	232,892	1,946	484,425	249,587
Confectionery.....	5	7	20	30	30	6,487	21,769	55,261	2,809	136,694	75,594
Cotton goods.....	5	198	4,135	33,103	2,167	502,516	4,147,813	5,130,525	346,453	12,589,683	7,062,705
Foundry and machine-shop products, not elsewhere classified.....	11	52	328	270	785	153,900	379,633	508,498	24,632	1,400,102	875,972
Textile machinery and parts.....	9	134	1,026	4,000	721	309,107	1,509,903	2,946,408	87,456	6,262,950	3,229,086
Knit goods.....	5	10	23	83	83	13,637	22,281	73,780	1,495	134,309	69,034
Mattresses and bed springs, not elsewhere classified.....	4	16	55	91	91	31,293	51,459	99,305	3,848	233,572	130,419
Paper goods, not elsewhere classified.....	3	11	38	40	225	42,900	65,988	103,825	5,002	241,096	132,269
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	10	193	603	1,301	1,301	404,066	963,743	1,338,981	32,001	4,189,052	2,818,070
Printing and publishing, book and job.....	5	621	6,452	8,730	9,523	1,564,708	6,855,808	16,820,604	959,422	32,092,299	14,312,273
Printing and publishing, newspaper and periodical.....	87										

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>c</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."<sup>d</sup> Because of the fact that combined figures for these industries have been published by the Massachusetts Department of Labor and Industries, it is necessary to withhold the figures for the individual industries in order to avoid making it possible to obtain, by subtraction, approximations of the data for individual establishments.

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaries officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

LYNN

[Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Electrical machinery, apparatus, and supplies"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	357	3,644	20,520	35,305	17,083	\$8,605,026	\$28,571,538	\$46,540,635	\$1,450,218	\$119,829,261	\$71,829,408
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NEW BEDFORD

All industries, total.....	192	1,066	32,113	66,278	90,016	\$4,298,182	\$31,804,533	\$58,070,402	\$3,456,928	\$121,696,324	\$50,568,934
Beverages.....	5	9	20	15	98	20,038	22,985	52,190	3,178	156,585	101,217
Bread and other bakery products.....	48	13	284	15	342	24,953	326,675	903,561	46,110	1,780,374	830,703
Cotton goods.....	30	812	25,784	68,711	69,061	2,315,012	24,845,627	42,922,028	2,519,863	86,165,301	40,752,810
Foundry and machine-shop products, not elsewhere classified.....	5	8	95	247	247	20,587	165,760	170,557	5,255	436,139	260,327
Ice cream.....	5	8	43	346	346	13,637	64,421	234,310	13,269	641,639	293,951
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	5	11	63	425	513	21,817	88,825	201,692	5,488	365,283	158,103
Printing and publishing, book and job.....	11	15	75	148	148	33,993	96,987	87,626	5,366	360,790	267,804
Printing and publishing, newspaper and periodical.....	5	172	163	557	557	391,881	250,026	269,150	15,205	1,304,921	1,020,566
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5	7	26	141	141	22,091	33,568	295,547	4,725	414,043	113,771
Textile machinery and parts.....	15	23	209	50	448	81,394	242,062	269,220	13,303	816,065	533,633
Other industries.....	58	588	5,361	7,077	18,115	1,351,879	5,666,698	13,263,968	825,165	29,325,278	15,230,150

SOMERVILLE

[Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Motor vehicles, not including motorcycles"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	127	798	6,043	3,242	11,359	\$1,870,581	\$8,513,306	\$66,941,418	\$740,044	\$97,429,608	\$29,748,146
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SPRINGFIELD

[Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Electrical machinery, apparatus, and supplies"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	318	3,282	17,414	9,020	37,945	\$8,336,589	\$23,740,589	\$45,412,424	\$2,302,227	\$113,931,026	\$66,126,375
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

## CENSUS OF MANUFACTURES: 1929

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>WORCESTER</b>											
All industries, total.....	533	5,915	31,636	18,776	112,885	\$16,382,626	\$45,259,677	\$92,780,032	\$5,444,905	\$211,314,411	\$113,089,474
Beverages.....	12	14	39	-----	74	30,999	39,819	88,472	5,163	261,390	167,755
Boots and shoes, other than rubber.....	14	183	2,260	-----	970	516,817	2,264,141	4,960,970	51,633	8,583,580	3,570,977
Bread and other bakery products.....	47	67	421	-----	649	142,489	650,933	1,536,661	83,228	3,062,756	1,442,867
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Clothing, women's, not elsewhere classified.....	18	560	529	-----	150	97,110	487,578	1,210,250	9,708	2,219,869	999,911
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Confectionery.....	4	10	29	-----	22	12,760	36,705	99,527	5,139	187,863	88,197
Corsets and allied garments.....	7	149	599	500	77	315,628	534,295	1,188,335	7,980	2,516,096	1,319,781
Envelopes.....	7	176	963	1,075	404	417,164	1,111,874	2,808,810	29,072	5,605,176	2,667,264
Foundry and machine-shop products, not elsewhere classified.....	44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Machine tools.....	7	1,149	4,087	500	16,069	3,641,101	6,972,926	7,518,070	377,412	27,875,901	19,079,819
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Furniture, including store and office fixtures.....	10	27	126	-----	255	76,272	206,477	444,658	7,239	863,441	411,544
Hats and caps, except felt and straw, men's.....	5	2	7	-----	5	(9)	9,497	23,759	686	40,830	25,385
Ice cream.....	8	21	56	15	646	75,596	78,520	523,067	20,402	1,102,936	550,467
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	6	19	146	605	266	70,404	233,704	314,383	11,333	727,764	402,048
Printing and publishing, book and job.....	31	68	237	-----	263	104,908	337,666	362,852	11,927	1,408,353	1,033,574
Printing and publishing, newspaper and periodical.....	10	184	505	-----	827	540,472	1,054,053	884,925	45,821	4,466,455	3,535,709
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments <sup>1</sup> .....	4	9	44	-----	263	23,760	65,627	536,561	9,493	694,534	148,480
Screw-machine products and wood screws.....	10	270	1,387	-----	4,684	639,827	1,962,581	2,027,362	144,141	6,144,766	3,072,763
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	8	147	802	120	4,051	520,296	1,162,139	1,283,677	95,425	4,033,945	2,654,843
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Textile machinery and parts.....	19	541	2,012	1,263	4,609	1,486,090	3,070,987	2,762,883	130,340	9,659,459	6,760,236
Wood turned and shaped and other wooden goods, not elsewhere classified.....	7	11	47	-----	430	24,933	55,862	88,197	5,876	211,823	117,750
Woolen goods.....	12	41	686	-----	250	1,237	178,218	1,257,079	70,880	2,930,386	1,002,427
Worsted goods.....	6	65	1,275	-----	4,153	254,992	1,443,201	5,076,661	104,746	9,120,032	3,838,725
Other industries <sup>2</sup> .....	206	2,706	15,409	14,448	72,721	7,152,300	22,605,256	57,778,873	4,217,261	119,688,056	57,691,922

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>1</sup> Because of the fact that combined figures for these industries have been published by the Massachusetts Department of Labor and Industries, it is necessary to withhold the figures for the individual industries in order to avoid making it possible to obtain, by subtraction, approximations of the data for individual establishments.<sup>2</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."<sup>3</sup> The figures for the "Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments," industry include data for 1 establishment located outside the city, to avoid disclosing the data for the establishment in question. Amounts equivalent to the figures for this establishment have been subtracted from the "Other industries" items, and therefore the totals for the city are not affected by these counterbalancing adjustments.<sup>4</sup> See footnote 7.

# MICHIGAN

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929-----	6,086	630,035	2,356,748	1,005,388	1,851,868	\$840,505,863	\$2,589,374,107	\$2,480,100,584	\$109,213,533	\$4,656,718,040	\$2,067,843,879
1927-----	5,800	488,850	2,214,747	999,092	1,215,655	700,002,310	2,346,678,396	2,248,213,128	98,465,268	4,244,941,132	1,898,262,736
1925-----	5,600	515,494	1,887,760	926,312	961,438	792,224,933	2,466,425,886	( <sup>5</sup> )	( <sup>5</sup> )	4,373,186,136	1,906,760,260
1923-----	5,697	503,308	1,471,550	760,726	710,824	799,070,993	2,270,772,940	( <sup>5</sup> )	( <sup>5</sup> )	3,882,192,328	1,611,419,379
1921-----	5,718	304,471	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	419,968,784	1,305,745,067	( <sup>5</sup> )	( <sup>5</sup> )	2,206,230,451	900,484,784
1919-----	8,305	471,242	1,193,709	652,952	540,757	639,708,093	1,919,243,243	1,852,906,090	66,337,153	3,466,188,483	1,546,945,240
1914-----	8,724	271,090	726,777	538,075	188,702	182,252,284	592,801,064	509,328,043	23,473,021	1,086,162,432	493,361,368
1909-----	9,169	251,499	695,813	521,543	74,270	118,967,830	388,612,022	351,787,872	16,824,150	685,109,169	316,497,147
1904-----	7,446	175,229	438,485	426,074	12,411	81,278,837	230,080,931	220,265,949	9,814,982	420,120,060	196,039,129
1899-----	7,310	155,800	366,376	362,112	4,264	62,531,812	175,066,128	( <sup>6</sup> )	( <sup>6</sup> )	319,691,856	143,725,728
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929-----	15.3	8.4	0.4	0.6	11.2	10.5	10.3	10.3	10.9	0.7	8.9
1925-1927-----	3.6	-5.2	17.3	7.9	26.4	-4.0	-4.9	-	-	-2.0	-0.4
1923-1925-----	-1.7	2.4	28.3	21.8	35.3	3.0	8.6	-	-	12.6	18.3
1921-1923-----	-0.4	65.3	-	-	-	83.1	73.9	-	-	76.0	79.0
1919-1921-----	-31.2	-35.4	-	-	-	-34.3	-32.0	-	-	-36.3	-41.8
1919-1929-----	-19.5	12.5	97.4	54.0	149.9	31.4	34.9	33.9	04.6	34.3	33.6
1909-1919-----	-9.3	103.6	100.3	25.2	628.1	437.7	420.7	426.7	294.3	405.9	388.8
1899-1909-----	25.3	48.6	62.6	44.0	1,641.8	90.3	109.5	-	-	114.3	120.2

<sup>1</sup> Not including salaried employees.

<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>4</sup> Not reported separately.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> No comparable data.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR THE DETROIT INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	4,842,325	6,686	530,035	2,356,746	\$840,505,363	\$2,589,374,167	\$2,480,160,584	\$109,213,583	\$4,656,718,046	\$2,067,343,879
Detroit Industrial Area <sup>3</sup>	2,100,197	2,806	293,252	1,238,348	511,638,683	1,614,916,460	1,551,618,704	63,297,696	2,844,610,198	1,229,693,738
Counties <sup>4</sup>										
Allegan	38,074	57	1,707	13,157	2,159,782	7,070,120	7,128,210	541,910	13,415,818	5,745,698
Alpena	18,574	26	1,602	23,982	1,881,973	5,020,743	4,062,530	958,213	9,164,384	4,143,641
Antrim	9,979	10	374	1,449	303,748	1,172,152	807,672	364,480	2,300,443	1,128,291
Barry	20,928	26	1,092	2,863	1,256,378	2,266,539	2,150,523	116,016	5,436,706	3,170,167
Bay	69,474	121	7,453	43,545	8,781,123	20,232,244	19,193,053	1,039,191	40,710,604	20,478,360
Benzie	6,587	7	31	47	16,404	155,424	154,878	1,846	249,671	93,247
Berrien	81,066	163	8,241	33,144	9,793,521	22,380,018	21,097,908	1,282,110	44,993,858	22,013,840
Branch	23,950	48	1,350	7,028	1,439,781	3,023,828	2,833,057	190,771	6,708,441	3,684,613
Calhoun <sup>5</sup>	87,043	170	11,899	53,224	17,405,034	43,057,430	41,195,522	2,758,908	109,557,464	65,600,024
Cass	20,888	29	1,005	5,572	1,209,200	2,655,794	2,452,678	203,216	4,985,726	2,329,932
Charlevoix	11,081	13	209	934	324,110	1,924,366	1,875,865	48,441	8,318,297	1,393,991
Cheboygan	11,502	12	225	1,106	206,908	217,615	207,903	36,781	784,679	530,283
Chippewa	25,047	30	1,472	8,109	1,692,121	7,606,091	5,321,430	2,184,661	11,610,178	4,104,087
Clare	7,032	6	16	182	17,819	65,658	53,551	3,007	104,878	48,320
Clinton	24,174	19	135	1,100	180,320	890,519	820,636	39,883	1,242,961	352,432
Delta	32,280	51	2,928	26,206	3,847,655	6,008,907	6,218,006	690,901	15,815,557	8,906,650
Eaton	31,728	49	1,390	7,396	1,406,168	4,110,657	3,665,799	450,701	7,133,665	3,017,099
Emmet	15,109	29	839	7,905	1,057,682	2,755,700	2,331,919	424,781	6,088,360	3,351,050
Genesee	211,641	136	32,001	122,547	52,042,271	221,793,018	217,349,301	4,368,217	364,361,540	142,653,522
Gladwin	7,424	7	13	119	15,844	107,117	104,929	2,188	152,101	45,044
Gogebic	31,577	33	710	1,162	701,206	1,126,389	1,061,899	64,490	2,436,978	1,310,589
Grand Traverse	20,011	33	722	2,144	635,348	1,868,050	1,691,364	77,289	3,478,771	1,510,121
Gratiot	30,252	30	982	6,281	1,180,255	5,745,148	5,631,173	211,975	8,581,118	2,837,970
Hillsdale	27,417	44	1,133	4,895	1,133,701	7,000,908	6,899,691	101,217	10,550,579	3,840,671
Houghton	52,851	57	1,063	8,490	1,167,002	31,615,400	31,068,551	446,849	36,424,612	4,009,212
Huron	31,132	31	349	3,570	405,182	3,266,139	3,102,298	153,841	5,056,335	1,800,106
Ingham <sup>6</sup>	110,587	153	19,132	74,146	28,840,477	140,660,233	144,127,173	2,533,060	222,528,301	76,868,068
Ionia	35,093	45	2,451	7,122	2,421,277	6,081,200	5,872,103	209,097	10,549,769	4,458,569
Isabella	7,517	8	275	6,023	370,940	1,694,675	1,604,661	220,014	1,959,303	894,628
Iron	20,805	10	38	143	57,780	255,555	238,689	6,876	479,239	183,674
Isabella	21,126	17	490	4,327	508,077	2,188,248	2,057,667	130,681	4,049,585	1,861,237
Jackson <sup>7</sup>	62,364	138	11,378	40,933	15,662,204	39,539,355	37,649,855	1,889,500	80,123,614	40,594,260
Kalamazoo <sup>8</sup>	91,868	200	12,145	33,107	10,987,201	53,649,073	50,781,206	2,767,867	110,906,656	57,447,583
Kent <sup>9</sup>	240,511	661	30,970	93,476	44,755,155	81,419,576	77,834,967	3,584,609	178,126,058	96,706,482
Lapeer	28,348	17	306	952	593,318	1,062,097	888,000	74,097	2,422,729	1,360,632
Leelanau	8,206	7	30	354	25,929	300,814	307,504	2,310	421,601	111,787
Lenawee	49,849	87	2,589	11,161	3,136,902	11,074,022	10,468,545	605,377	19,808,399	8,733,477
Livingston	19,274	20	353	1,490	494,545	1,760,342	1,729,553	39,789	3,508,337	1,738,065
Lucas	6,528	7	253	4,387	843,980	1,008,300	845,524	162,785	1,897,751	889,442
Mackinac	8,783	7	22	126	27,053	63,604	62,326	1,278	110,951	47,347
Macomb	77,146	54	1,404	5,329	1,856,725	4,128,001	3,739,599	388,402	9,393,186	5,265,185
Manistee	17,409	32	1,455	10,843	1,409,046	4,067,341	3,591,967	475,374	7,360,458	3,293,117
Marquette	44,076	44	2,039	8,491	2,532,110	4,704,358	4,078,555	625,803	10,728,105	6,023,747
Mason	18,766	25	1,272	5,290	1,324,256	2,792,880	2,505,847	287,033	6,460,183	3,667,303
Mecosta	15,738	18	408	2,355	541,339	2,035,565	1,991,099	44,266	3,171,484	1,136,119
Menominee	23,652	59	2,438	15,575	2,490,047	7,202,448	6,797,487	404,961	14,000,990	6,708,542
Monroe	52,485	46	3,693	30,689	5,626,619	14,332,752	12,976,374	1,356,378	25,182,125	13,850,373
Montcalm	27,471	32	897	3,656	833,622	3,234,164	3,130,830	103,334	5,609,536	2,372,372
Montmorency	2,814	4	21	491	18,620	13,400	13,164	236	51,360	37,960
Muskegon <sup>10</sup>	84,630	129	15,716	64,034	21,544,064	39,642,364	37,551,129	2,091,235	89,140,648	49,498,284
Newaygo	17,029	17	447	3,577	462,746	2,771,107	2,519,863	251,244	4,445,069	1,673,962
Oakland <sup>11</sup>	211,251	140	22,828	100,468	37,500,555	173,445,212	170,543,154	2,902,058	254,837,836	81,392,624
Oceana	13,805	22	250	822	198,039	1,098,273	1,077,034	20,639	1,684,069	585,796
Ogemaw	6,595	5	11	150	13,302	50,141	54,837	1,304	95,801	42,720
Ontonagon	11,114	16	843	4,960	853,470	2,169,195	1,946,342	223,853	4,214,317	2,045,122
Osceola	12,806	9	122	312	137,511	1,375,012	1,347,229	27,783	1,839,754	404,742
Otsego	5,554	7	225	576	207,872	269,030	252,351	14,339	876,469	609,779
Ottawa	54,858	133	4,924	16,089	6,176,211	18,222,784	15,544,839	677,945	34,941,869	18,719,085
Presque Isle	11,330	11	202	296	130,003	528,471	520,499	7,972	831,964	303,493
Saginaw <sup>12</sup>	120,717	171	15,217	51,722	21,982,627	32,716,866	29,863,959	2,852,907	74,657,791	41,840,925
St. Clair	67,593	95	5,228	33,967	7,136,945	19,446,042	17,385,687	2,060,355	37,972,129	18,526,087
St. Joseph	30,618	56	3,368	18,519	4,752,517	13,625,333	12,868,601	756,732	25,604,673	11,979,340
Sanilac	27,751	21	181	764	109,779	796,891	780,688	10,203	1,263,602	496,711
Schoolcraft	8,451	14	594	14,614	692,100	2,101,910	1,954,838	147,072	4,444,681	2,342,771
Shiawassee	39,517	60	2,421	10,050	3,181,254	6,786,109	6,271,903	494,206	14,050,050	7,283,941
Tuscola	32,034	23	464	2,084	727,856	1,837,286	1,767,894	119,892	3,687,443	1,700,157
Van Buren	32,637	54	1,158	3,270	1,269,420	3,861,402	3,718,122	143,280	7,645,578	3,784,176
Washtenaw	65,530	92	2,818	10,336	4,100,440	7,434,570	6,570,864	863,706	17,726,272	10,291,702
Wayne <sup>13</sup>	1,888,946	2,666	270,424	1,137,890	474,138,128	1,441,471,248	1,381,075,610	60,395,638	2,589,772,362	1,148,301,114
Wexford	16,827	35	1,475	10,793	1,508,157	4,709,019	4,493,272	215,747	8,032,842	3,323,323
All other counties <sup>14</sup>	107,395	73	7,078	84,050	11,832,248	23,010,325	20,752,419	2,257,906	42,188,302	19,177,977

See footnotes at end of table.

TABLE 2.—SUMMARY FOR THE DETROIT INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929—Continued

	Popula- tion, 1930	Number of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELEC- TRIC ENERGY			Value of prod- ucts	Value added by manufac- ture
						Total	Materials and containers	Fuel and purchased energy		
<i>Cities having 10,000 inhabitants or more<sup>3</sup></i>										
Adrian.....	13,084	42	1,590	5,306	\$1,928,932	\$6,220,630	\$6,022,294	\$198,336	\$11,081,364	\$4,880,734
Ann Arbor.....	26,944	46	1,720	6,450	2,516,569	3,993,394	3,644,298	349,096	10,623,198	6,629,804
Battle Creek.....	43,573	101	7,062	36,778	10,439,567	35,681,439	33,789,765	1,891,674	87,239,249	51,567,910
Bay City.....	47,355	104	6,937	31,403	8,020,680	17,030,638	16,363,249	667,389	35,081,794	18,051,066
Benton Harbor.....	15,434	61	2,440	8,404	3,540,074	4,200,772	3,684,428	516,344	11,210,091	7,009,322
Detroit <sup>4</sup> .....	1,568,062	2,418	221,588	714,356	386,692,131	1,071,472,193	1,036,717,045	34,755,148	2,014,165,786	942,693,593
Escanaba.....	14,524	27	838	2,628	1,219,309	2,759,668	2,675,332	84,336	4,670,905	1,011,237
Ferdale.....	20,855	10	225	2,996	278,795	627,867	597,169	30,698	1,242,778	614,911
Grand Rapids <sup>5</sup> .....	168,592	510	28,084	76,303	40,470,018	68,634,253	65,714,740	2,919,513	166,553,816	87,910,563
Hamtramck.....	56,268	61	18,221	62,660	28,102,003	108,933,119	106,768,455	2,164,664	165,419,005	66,485,888
Holland.....	14,346	62	2,480	7,243	3,207,414	6,997,902	6,705,792	292,110	17,796,031	10,798,129
Ironwood.....	14,299	17	330	1,064	386,010	583,668	525,349	58,319	1,319,210	735,542
Jackson.....	55,187	111	9,401	35,153	13,021,514	29,355,461	27,630,023	1,710,438	59,514,377	30,158,916
Kalamazoo.....	54,786	175	8,977	39,655	12,480,711	38,312,732	36,646,042	1,666,760	84,822,939	46,510,147
Lansing.....	78,397	130	18,877	71,789	28,404,364	145,163,151	142,753,834	2,409,317	219,381,871	74,218,720
Marquette.....	14,789	21	995	5,254	1,410,454	2,553,772	2,003,088	550,684	5,430,571	2,876,799
Menominee.....	10,320	34	1,715	12,536	1,881,157	5,915,444	5,518,090	397,354	10,636,246	4,720,802
Monroe.....	18,110	32	3,306	29,525	5,072,099	13,270,702	11,971,246	1,299,456	25,864,544	12,593,842
Mount Clemens.....	13,497	23	1,018	2,235	1,350,912	2,525,044	2,273,266	251,778	6,708,065	4,183,621
Muskegon.....	41,300	88	11,481	40,056	15,558,450	28,346,427	27,007,532	1,338,895	66,067,702	37,761,275
Muskegon Heights.....	15,584	24	3,699	12,140	5,279,922	8,733,819	8,062,209	671,610	19,189,639	10,455,820
Niles.....	11,326	22	1,087	6,871	1,263,181	3,553,318	3,406,821	146,497	7,989,407	4,436,089
Owosso.....	14,406	41	1,901	8,513	2,673,088	5,352,328	4,906,623	445,705	11,595,003	6,242,765
Pontiac.....	64,928	64	21,798	92,460	35,944,723	170,370,918	167,674,762	2,696,156	248,221,533	77,860,615
Port Huron.....	31,361	40	1,747	16,696	2,478,955	8,889,345	7,971,899	917,446	16,222,669	7,333,324
River Rouge.....	17,314	10	1,797	22,490	3,657,399	10,693,499	9,020,274	1,673,225	18,286,837	7,593,338
Royal Oak.....	22,904	12	125	549	327,036	136,333	119,690	16,643	957,003	820,670
Saginaw.....	80,715	135	14,473	45,584	21,124,587	28,113,003	25,772,693	2,340,310	67,283,537	39,170,534
Sault Ste. Marie.....	13,755	23	1,378	7,879	1,619,882	7,367,024	5,188,517	2,178,507	11,292,403	3,925,379
Wyandotte.....	28,368	34	4,041	56,977	6,360,100	14,062,872	10,640,002	4,022,870	34,880,512	20,217,640
Ypsilanti.....	10,143	22	808	1,996	1,152,037	1,507,704	1,359,327	148,377	3,706,553	2,198,849

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.  
<sup>3</sup> The Detroit Industrial Area comprises Oakland and Wayne Counties. For statistics by industries for the area, see Table 13.  
<sup>4</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.  
<sup>5</sup> For statistics by industries for this county, see Table 13.  
<sup>6</sup> Alcona, Alger, Arenac, Baraga, Crawford, Dickinson, Kalkaska, Keweenaw, Midland, Missaukee, Oscoda, and Roscommon Counties. (See footnote 4.) No manufacturing reported from Lake County.  
<sup>7</sup> Not including Alpena, Dearborn, Ecorse, Flint, Grosse Pointe Park, Highland Park, Iron Mountain, Lincoln Park, and Traverse City, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments.  
<sup>8</sup> For statistics by industries for this city, see Table 14.

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, AND 1914

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929.....	602,988	518,752	84,236	3,809	3,622	187	2,526	2,275	251	63,618	44,878	18,740	530,035	464,977	65,058
1919.....	549,069	475,246	73,823	6,762	6,456	306	5,266	5,103	153	65,709	45,974	19,825	471,242	417,708	53,534
1914.....	320,611	278,229	42,382	7,725	7,335	390	3,572	3,471	101	33,224	29,022	9,202	271,060	238,401	32,659
1909.....	271,071	231,015	39,156	8,965	8,564	401	3,039	3,026	63	27,518	21,027	6,491	231,499	199,298	32,201

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 502; male, 483; female, 19. Other salaried officers and employees—total, 8,091; male, 5,080; female, 3,011. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.



CENSUS OF MANUFACTURES: 1929

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	530,035	532,170	558,594	572,647	579,419	578,002	557,805	551,891	548,816	537,917	496,408	429,807	<i>416,796</i>	71.9
1919 <sup>1</sup>	471,242	<i>421,493</i>	425,205	428,121	431,021	442,925	461,718	480,152	497,915	507,050	515,805	522,878	520,628	80.6
1914	271,090	273,067	277,524	282,178	281,040	278,103	269,532	268,399	274,164	278,866	270,454	254,678	<i>249,777</i>	88.5
1909 <sup>1</sup>	231,499	<i>211,679</i>	218,230	223,087	222,273	226,811	229,058	232,023	235,804	240,310	241,912	246,729	250,078	84.6

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	6,086	530,035	45 and over but under 48.....	313	24,561
Not reported.....	490	1,246	48.....	972	37,028
Under 40.....	93	470	Over 48 but under 54.....	1,792	293,050
40.....	108	25,733	54.....	692	45,585
Over 40 but under 44.....	54	3,533	Over 54 but under 60.....	544	55,020
44 and over but under 45.....	703	15,268	60 and over.....	925	27,889

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	6,086	8,305	9,159	530,035	471,242	231,499	51 to 100.....	451	456	428	32,801	33,945	30,771
No wage earners.....	213	1,085	1,200				101 to 250.....	406	414	335	63,459	66,285	52,775
1 to 5.....	2,829	3,809	4,697	7,520	8,573	10,160	251 to 500.....	181	167	112	63,427	57,771	38,608
6 to 20.....	1,621	1,494	1,600	18,015	16,748	17,898	501 to 1,000.....	87	78	46	60,885	53,182	31,173
21 to 50.....	819	747	726	26,731	25,050	23,745	1,001 to 2,500.....	49		15	72,419		
							2,501 and over.....	30	55	15	184,778	200,688	26,313

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	6,086	8,305	9,159	530,035	471,242	231,499	\$4,056,718,046	\$3,466,188,483	\$685,109,169	\$2,067,348,879	\$1,544,945,240	\$316,407,147
Less than \$5,000.....	(2)	1,539	3,372	(1)	916	3,908	(2)	8,060,695	7,821,328	(2)	2,444,262	4,914,568
\$5,000 to \$19,999.....	1,875	2,278	2,665	4,219	5,545	12,332	21,846,760	24,871,038	27,383,330	13,109,986	13,464,814	14,569,126
\$20,000 to \$99,999.....	2,282	2,361	1,990	17,207	20,716	35,706	109,007,102	109,296,336	90,330,115	62,851,410	51,878,594	41,918,104
\$100,000 to \$49,999.....	1,377	(3)	(3)	7,222	(3)	(3)	44,745,324	(3)	(3)	25,914,209	(3)	(3)
\$50,000 to \$99,999.....	905	(3)	(3)	9,985	(3)	(3)	64,261,778	(3)	(3)	36,937,210	(3)	(3)
\$100,000 to \$499,999.....	1,495	1,341		51,833	61,765		340,346,682	306,923,542		187,486,045	150,101,597	
\$100,000 to \$249,999.....	964	(3)		23,509	(3)		155,673,694	(3)		86,748,785	(3)	
\$250,000 to \$499,999.....	531	(3)	1,035	28,324	(3)	123,279	184,673,088	(3)	301,233,306	100,737,260	(3)	146,842,066
\$500,000 to \$999,999.....	465	327		46,918	43,258		327,133,497	232,661,055		167,589,941	112,651,519	
\$1,000,000 and over.....	569	459	88	409,858	339,042	56,226	3,858,384,005	2,788,475,817	258,341,000	1,630,306,488	1,216,404,454	108,263,253
\$1,000,000 to \$2,499,999.....	335	(3)	(3)	73,542	(3)	(3)	516,701,470	(3)	(3)	267,920,487	(3)	(3)
\$2,500,000 to \$4,999,999.....	107	(3)	(3)	47,853	(3)	(3)	359,793,137	(3)	(3)	194,404,409	(3)	(3)
\$5,000,000 and over.....	127	(3)	(3)	289,463	(3)	(3)	2,981,880,398	(3)	(3)	1,178,981,502	(3)	(3)

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	6,686	8,305	530,035	471,242	\$4,656,718,046	\$3,466,188,483	\$2,067,343,879	\$1,546,945,240
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	3,569	3,249	508,650	444,516	4,478,307,009	3,299,255,502	1,969,743,415	1,475,524,905
Other forms of ownership or control (individual, partnership, etc.).....	3,117	5,056	23,385	26,726	178,410,437	166,932,981	97,600,464	71,420,335
TYPE OF OPERATION								
Central-administrative office (plural-unit).....	889	(1)	299,091	(1)	2,609,287,884	(1)	1,126,970,390	(1)
Independent (single-unit).....	5,797	(1)	230,044	(1)	2,047,430,102	(1)	940,364,489	(1)

1 Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR THE DETROIT INDUSTRIAL AREA AND IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY												ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING			
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy					
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number	Horsepower			Number	Horsepower
The State:			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower
1929.....	2,356,740	1,005,888	2,154	342,131	546	603,860	202	11,331	183	48,066	194,356	1,351,358	58,050	655,977		
1927.....	2,214,747	999,092	2,472	365,584	500	589,077	235	8,980	207	35,451	141,056	1,215,655	47,355	582,681		
1925.....	1,887,750	926,312	2,508	438,353	335	438,862	323	8,950	260	40,138	113,487	901,438	76,424	650,578		
1919.....	1,193,709	652,952	3,200	440,130	311	152,781	776	19,695	395	40,346	53,626	540,757	23,052	277,514		
1914.....	726,777	538,075	2,477	486,771	(2)	(2)	1,062	19,593	551	31,711	19,896	188,702	9,096	123,264		
DETROIT INDUSTRIAL AREA (OAKLAND AND WAYNE COUNTIES).....	1,238,348	467,531	605	99,616	263	363,720	59	2,883	11	1,312	115,031	770,817	30,089	280,216		
Counties in which aggregate horsepower exceeded 25,000: 1929																
Bay.....	43,545	18,177	65	5,006	15	12,038	3	533			2,996	25,308	454	10,923		
Berrien.....	33,144	10,240	36	5,227	3	2,450	4	98	8	2,465	2,764	22,004	825	13,393		
Calhoun.....	53,224	9,627	41	6,657	7	2,460	1	(1)	11	510	5,687	43,507	808	5,468		
Delta.....	26,206	23,795	44	7,942	6	8,427	6	126	4	7,300	246	2,411	188	10,331		
Dickinson.....	31,432	26,685	14	819	7	12,060			3	13,200	607	4,747	1,190	12,783		
Genesee.....	122,547	17,542	15	3,870	11	13,248	6	74	3	350	14,925	105,005	794	8,769		
Ingham.....	74,143	11,590	46	7,471	12	3,893	1	(1)	3	226	10,711	62,550	976	8,232		
Jackson.....	40,963	3,172	28	4,647	12	1,348	14	177	1	(1)	4,772	37,791	65	432		
Kalamazoo.....	83,107	65,219	97	22,344	30	42,485	1	(1)	6	390	3,363	17,883	1,949	54,587		
Kent.....	93,476	46,495	176	27,917	39	17,294	3	170	15	1,114	7,056	46,981	5,047	23,461		
Midland.....	37,287	37,015	11	10,215	4	20,800					83	272	1,950	20,800		
Monroe.....	30,689	20,224	61	20,224	1	(1)					638	10,465	618	11,219		
Muskegon.....	54,034	27,554	27	9,049	19	15,670	15	2,835	1	(1)	3,392	26,480	3,188	38,873		
Oakland.....	100,458	9,135	50	6,121	21	1,652	8	720	9	612	16,126	91,323	67	910		
Saginaw.....	51,722	13,507	69	11,458	11	1,559	2	65	3	425	5,472	33,215	1,085	5,142		
St. Clair.....	33,907	9,677	63	7,637	4	1,852	2	168			2,150	24,260	724	7,399		
Wayne.....	1,137,890	458,396	555	93,495	242	362,038	51	2,163	2	700	98,905	679,494	30,022	279,306		

1 Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

2 Reported as "Steam engines and turbines."

3 Not reported separately. See footnote 2.

4 Item for internal-combustion engines included with that for steam engines to avoid disclosing data for a single establishment.

5 Item for water wheels and water turbines included with that for steam engines to avoid disclosing data for a single establishment.

6 Items for steam turbines, internal-combustion engines, and water wheels and water turbines included with that for steam engines to avoid disclosing data for individual establishments.

## CENSUS OF MANUFACTURES: 1929

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

[This table presents statistics for each county for which separate figures are given in Table 2. See footnote 4 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	2,356,746	1,005,388	1,351,353	655,977	Leelanau.....	354	315	39	
Allegan.....	13,157	11,345	1,812	8,463	Lenawee.....	11,161	5,244	5,917	5,449
Alpena.....	23,082	22,617	1,365	37,920	Livingston.....	1,430	275	1,155	73
Antrim.....	1,449	886	613	115	Luce.....	4,368	4,368	19	3,046
Barry.....	2,863	2,114	749	2,673	Mackinac.....	126	110	16	
Bay.....	43,545	18,177	25,368	10,923	Macomb.....	5,329	2,286	3,043	
Benzie.....	47		47		Manistee.....	10,843	9,953	890	6,017
Berrien.....	33,144	10,240	22,904	13,393	Marquette.....	8,491	3,312	5,179	738
Branch.....	7,028	3,471	3,557	940	Mason.....	5,290	2,860	2,930	2,098
Calhoun.....	53,224	9,627	43,597	5,468	Mecosta.....	2,355	588	1,817	
Cass.....	5,572	2,210	3,362	291	Menominee.....	15,575	11,190	4,385	5,380
Charlevoix.....	934	714	220	824	Monroe.....	30,689	20,224	10,465	11,219
Cheboygan.....	1,106	875	731		Montcalm.....	3,656	2,847	809	2,390
Chippewa.....	8,109	1,022	7,087		Montmorency.....	431	431	(?)	
Clare.....	182	80	102		Muskegon.....	54,034	27,554	26,480	38,873
Clinton.....	1,100	321	779	163	Newaygo.....	3,577	3,104	473	3,751
Delta.....	26,206	23,795	2,411	10,331	Oakland.....	100,458	9,135	91,323	910
Eaton.....	7,396	2,800	4,596	1,508	Oceana.....	822	193	629	
Emmet.....	7,905	7,502	403	8,432	Ogemaw.....	150	136	14	
Genesee.....	122,547	17,542	105,005	8,769	Ontonagon.....	4,960	4,960	10	3,658
Gladwin.....	119	12	107		Osceola.....	312	255	57	
Gogebic.....	1,162	750	412		Otsego.....	576	500	76	
Grand Traverse.....	2,144	409	1,735		Ottawa.....	16,039	8,279	7,810	5,886
Grafton.....	6,281	4,855	1,426	3,422	Presque Isle.....	296	96	200	
Hillsdale.....	4,865	2,768	2,097	1,310	Saginaw.....	51,722	13,507	38,215	5,142
Houghton.....	8,490	3,581	4,909	1,560	St. Clair.....	33,967	9,677	24,290	7,399
Huron.....	3,570	2,768	802	328	St. Joseph.....	18,519	13,686	4,833	7,590
Ingham.....	74,145	11,590	62,556	8,232	Sanilac.....	764	331	433	
Ionia.....	7,122	5,693	1,429	2,920	Schoolcraft.....	14,614	14,547	67	3,245
Iosco.....	6,023	260	5,763		Shiawassee.....	10,050	3,308	6,742	1,998
Iron.....	143		143		Tuscola.....	2,984	2,515	469	818
Isabella.....	4,837	3,574	763	3,320	Van Buren.....	3,270	1,390	1,880	2,093
Jackson.....	40,963	3,172	37,791	432	Washtenaw.....	10,336	2,414	7,922	720
Kalamazoo.....	83,107	68,219	17,888	54,587	Wayne.....	1,137,890	465,396	679,494	279,306
Kent.....	93,476	46,495	46,981	28,461	Wexford.....	10,793	7,947	2,846	600
Lapeer.....	952	117	835		All other counties <sup>2</sup> .....	84,050	73,964	10,086	42,553

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.<sup>2</sup> Item for electric motors included with that for prime movers to avoid disclosing data for a single establishment.<sup>3</sup> Alcona, Alger, Arenac, Baraga, Crawford, Dickinson, Kalkaska, Keweenaw, Midland, Missaukee, Osceola, and Roscommon Counties.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	12,896,887	\$53,683,208	12,981,765	10,887,871	8,298,455	6,081,917	4,592,831
Anthracite (tons, 2,240 pounds).....	119,529	676,970	( <sup>3</sup> )	60,700	50,516	95,815	61,448
Bituminous (tons, 2,000 pounds).....	12,763,015	53,006,238	( <sup>3</sup> )	10,819,887	8,241,877	5,974,604	4,524,009
Coke (tons, 2,000 pounds).....	1,205,929	6,685,822	( <sup>4</sup> )	( <sup>4</sup> )	812,041	460,122	270,264
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	175,272,244	9,404,884	( <sup>4</sup> )	( <sup>4</sup> )	73,123,638	32,810,904	16,133,880
Gasoline and kerosene (gallons) <sup>6</sup> .....	7,873,497	1,692,025	( <sup>4</sup> )	( <sup>4</sup> )	6,317,598		
Gas, natural (M cubic feet).....	4,032,561	678,353	( <sup>4</sup> )	( <sup>4</sup> )	2,105,985	2,455,572	316,102
Gas, manufactured (M cubic feet).....	28,564,942	8,324,899	( <sup>4</sup> )	( <sup>4</sup> )			
Other fuels.....		1,457,280	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours).....	2,028,421,694	31,741,606	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Total cost of fuel and purchased energy.....		\$113,668,077	Cost \$98,465,268	Cost ( <sup>4</sup> )	Cost \$66,337,153	Cost \$23,473,021	Cost \$16,824,150

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.<sup>3</sup> Not tabulated separately.<sup>4</sup> No data.<sup>5</sup> For years prior to 1920, reported in barrels; converted on basis of 42 gallons per barrel.<sup>6</sup> Data incomplete.<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	6,686	360,144	530,035	1,005,388	1,351,358	\$ 201,283,914	\$40,605,363	2,480,160,584	109,213,583	4,050,718,046	2,067,343,870
Aircraft and parts.....	12	139	1,510		2,187	470,481	2,538,920	3,239,615	71,421	8,723,716	5,412,680
Awnings, tents, sails, and canvas covers.....	32	100	357		145	215,923	482,870	1,221,759	9,850	2,610,732	1,279,123
Baskets and rattan and willow ware, not including furniture.....	14	35	440	390	922	74,017	384,617	608,310	15,782	1,422,307	798,215
Belted, leather.....	7	38	164	100	324	141,780	230,907	1,884,330	20,982	2,004,841	1,089,523
Beverages.....	136	206	844	1,115	2,306	529,372	1,370,711	3,000,553	158,297	8,000,550	4,841,700
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	9	33	288		2,200	164,001	460,146	1,004,984	82,675	2,221,087	1,133,428
Bookbinding and blank-book making.....	27	237	1,192		1,278	653,353	1,641,154	1,993,091	64,512	6,761,200	4,703,597
Boots and shoes, other than rubber.....	8	75	737	807	443	106,854	768,669	2,827,164	30,962	4,002,943	1,144,817
Boxes, cigar, wooden.....	5	10	219		142	49,277	159,780	225,100	6,630	619,552	387,853
Boxes, paper, not elsewhere classified.....	23	129	1,453	15	1,442	353,527	1,068,224	7,324,575	90,543	10,282,056	2,868,538
Boxes, wooden, except cigar boxes.....	28	77	781	1,700	2,374	221,303	891,715	2,160,832	35,178	3,881,408	1,685,398
Bread and other bakery products.....	745	1,049	9,349	2,022	13,192	2,431,943	13,255,650	35,386,085	1,475,396	73,610,459	30,658,038
Brooms.....	7	4	59		07	7,360	78,806	107,541	2,424	242,044	132,979
Brushes, other than rubber.....	13	27	144		195	62,525	169,968	479,637	6,841	948,080	461,602
Butter.....	212	289	898	1,899	6,067	490,788	1,096,197	24,812,117	268,955	29,121,355	4,040,283
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	4	3	20		22	2,560	27,140	97,697	8,242	140,931	34,992
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	83	346	2,617	2,515	4,169	700,687	1,891,595	9,512,431	193,987	16,269,578	6,563,160
Car and general construction and repairs, electric-railroad repair shops.....	13	80	921		2,226	202,366	1,716,350	1,102,063	82,608	3,103,988	1,918,717
Car and general construction and repairs, steam-railroad repair shops.....	47	538	7,328	3,440	24,315	1,346,986	11,506,628	9,360,896	734,928	22,062,343	12,866,521
Card cutting and designing.....	5	83	494	475	798	349,672	619,804	3,742,497	29,550	5,860,673	2,078,620
Caskets, coffins, burial cases, and other morticians' goods.....	20	104	533	435	480	273,463	655,706	1,918,065	37,320	3,616,169	1,600,764
Cement.....	14	170	2,502	50,581	17,677	592,305	4,022,974	8,745,018	3,974,689	20,162,341	11,442,134
Cheese.....	47	32	79	261	254	69,690	109,335	1,727,481	22,489	2,145,989	390,019
Chemicals, not elsewhere classified.....	13	715	5,414	103,068	11,660	2,240,191	9,114,215	18,241,453	6,870,937	53,133,206	28,070,816
Cigars and cigarettes.....	42	138	4,073		586	528,961	3,089,112	7,288,266	58,288	15,103,327	7,756,773
Clay products (other than pottery) and nonclay refractories.....	29	102	843	4,206	3,634	321,849	1,205,462	243,958	727,925	3,112,781	2,140,898
Cleaning and polishing preparations.....	21	94	324	280	1,263	329,519	487,914	3,449,028	51,097	8,865,026	5,364,901
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	22	84	1,085		198	334,355	927,428	2,162,105	17,249	4,414,972	2,235,018
Clothing, women's, not elsewhere classified.....	27	130	1,420		273	294,156	1,027,440	3,279,494	27,368	5,885,857	2,578,995
Coffee and spice, roasting and grinding.....	18	45	130		679	129,504	179,609	4,111,637	35,154	5,543,939	1,397,998
Compressed and liquefied gases.....	13	132	127	180	2,219	220,338	216,160	6,111,621	122,324	2,809,749	1,675,304
Concrete products.....	194	185	1,046	483	3,831	440,375	1,568,387	2,398,157	118,129	7,081,101	4,536,816
Condensed and evaporated milk.....	30	83	476	3,864	1,454	163,112	608,114	9,748,708	271,441	13,106,499	5,086,320
Confectionery.....	55	167	1,223	625	989	397,480	1,031,072	4,676,732	97,633	8,035,837	3,261,262
Cooperage.....	3	7	30	45	55	12,129	46,118	188,495	2,753	289,181	97,933
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	66	400	1,362	194	2,349	969,782	2,200,533	4,817,502	64,873	11,167,506	6,285,131
Cordage and twine.....	3	15	62		167	68,191	70,271	177,204	7,270	449,718	205,238
Corsets and allied garments.....	11	186	1,208	530	307	553,869	904,161	2,488,593	34,142	6,417,610	3,894,875
Cotton goods.....	9	21	262		1,960	89,912	200,591	1,580,508	47,664	2,772,720	1,144,548
Cutlery (not including silver and plated cutlery) and edge tools.....	5	28	103	160	281	69,272	121,012	92,337	14,015	495,962	389,610
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.....	9	25	90		150	64,717	131,172	307,749	10,148	674,285	356,388
Dental goods and equipment.....	3	7	4		23	26,260	5,681	19,114	622	68,453	48,717
Electrical machinery, apparatus, and supplies.....	61	1,350	8,106	1,680	10,655	3,654,846	10,140,013	29,219,508	475,427	62,394,174	32,669,239
Electroplating.....	34	91	858		2,826	304,340	1,455,543	502,324	151,408	3,074,528	2,420,786
Emery wheels and other abrasive and polishing appliances.....	5	40	197		2,696	159,426	285,797	536,217	42,873	1,278,805	699,715
Engines, turbines, tractors, and water wheels.....	20	1,119	8,951	14,805	33,966	3,286,893	14,216,820	21,746,019	1,137,033	51,454,849	28,571,797
Engraving, steel and copperplate, and plate printing.....	8	16	72		77	48,193	123,868	69,778	2,246	334,733	262,766
Envelopes.....	4	53	186		210	154,540	219,931	601,099	12,138	1,325,562	712,325
Fancy and miscellaneous articles, not elsewhere classified.....	12	29	221		171	61,977	179,760	417,447	10,113	918,895	461,335
Feeds, prepared, for animals and fowls.....	15	47	86		77	126,910	111,267	2,268,637	29,323	3,014,202	686,242
Fire extinguishers, chemical.....	3	3	7		6	2,098	4,874	17,362	466	66,860	49,332
Flavoring extracts and flavoring syrups.....	29	85	204	1,078	1,262	292,338	510,024	1,790,931	108,900	4,067,270	2,147,436
Flour and other grain-mill products.....	134	219	609	10,884	7,117	477,682	862,073	14,345,529	230,361	18,898,507	4,232,617
Food preparations, not elsewhere classified.....	36	125	575	187	2,322	391,791	590,060	4,417,704	123,289	8,421,086	3,876,088
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	19	122	1,500	450	9,125	495,458	2,528,588	3,764,118	614,971	9,798,356	5,414,270
Foundry and machine-shop products, not elsewhere classified.....	468	5,070	42,492	12,377	126,908	16,097,659	66,191,477	71,857,076	7,203,061	216,312,128	187,251,091
Foundry supplies.....	4	34	112		374	162,615	215,162	580,602	17,050	1,349,148	792,496
Fur goods.....	41	65	408		185	217,385	660,189	1,744,180	23,338	3,869,020	2,101,511
Furnishing goods, men's, not elsewhere classified.....	6	12	95		29	35,809	104,163	308,892	1,655	574,478	263,931
Furniture, including store and office fixtures.....	209	2,525	20,941	33,079	16,412	8,123,852	27,908,837	37,746,841	1,243,098	99,714,641	60,724,702

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>1</sup>
				Prime movers	Electric motors driven by purchased energy						
Gas and electric fixtures; lamps, lanterns, and reflectors.....	15	99	2,010	1,475	3,487	Dollars 402,276	Dollars 3,180,406	Dollars 4,543,422	Dollars 129,108	Dollars 13,128,787	Dollars 8,456,257
Gas, manufactured, illuminating and heating.....	53	1,977	3,006	35,706	13,463	3,204,477	4,871,321	6,712,515	8,663,243	40,704,848	25,329,090
Glass products (except mirrors) made from purchased glass.....	8	26	63	-----	77	73,331	102,289	148,255	3,247	371,535	220,033
Gloves and mittens, cloth or leather and leather combined, made from purchased fabrics.....	4	12	177	-----	96	29,298	157,123	482,376	3,943	771,807	284,988
Gloves and mittens, leather.....	5	8	297	-----	122	20,505	211,966	481,731	5,908	820,711	333,072
Grease and tallow, not including lubricating greases.....	14	46	298	-----	370	1,766	150,572	846,539	195,409	2,666,714	1,624,766
Hand stamps and stencils and brands.....	15	41	89	-----	149	119,498	132,389	214,936	5,966	616,534	395,032
Hardware not elsewhere classified.....	31	715	10,077	-----	1,100	2,030,236	14,151,517	16,581,652	748,894	47,985,985	30,058,429
Hats and caps, except felt and straw, men's.....	6	6	73	-----	30	19,733	81,711	185,654	1,644	373,072	186,374
House-furnishing goods, not elsewhere classified.....	19	96	422	-----	825	273	356,252	526,778	1,431,280	27,946	3,438,178
Ice cream.....	107	152	789	-----	430	8,013	354,502	1,195,007	7,104,118	264,065	7,530,880
Ice, manufactured.....	72	129	507	-----	1,460	21,824	317,781	919,015	119,674	699,981	8,039,391
Ink, printing.....	5	40	57	-----	679	105,090	32,878	527,627	22,412	4,459,046	822,153
Iron and steel: Blast furnaces.....	6	66	857	-----	-----	152,536	235,858	1,502,103	6,159,577	14,372,199	4,523,475
Iron and steel: Steel works and rolling mills.....	14	332	4,724	90,500	25,507	1,559,239	9,111,333	23,180,000	4,108,768	50,183,680	28,834,862
Iron and steel, processed.....	11	30	90	-----	223	152,536	361,233	82,114	74,100	753,907	597,907
Jewelry.....	10	73	188	-----	94	242,686	361,233	925,113	2,143,454	1,200,907	5,202,001
Knit goods.....	20	236	2,789	3,632	785	671,122	2,070,117	4,367,409	136,662	9,705,972	627,337
Labels and tags.....	8	39	164	-----	268	95,897	194,905	308,941	9,661	1,005,839	477,149
Leather goods, not elsewhere classified.....	8	20	145	-----	56	80,304	105,115	459,107	4,648	938,894	5,565,272
Leather: Tanned, curried, and finished.....	13	182	2,070	6,794	2,372	517,739	2,584,427	13,347,888	337,519	10,250,379	6,076,351
Lime.....	5	27	167	-----	500	1,028	82,388	183,071	91,823	624,113	2,391,722
Lithographing.....	11	130	505	-----	656	493,896	902,481	1,178,759	46,136	8,610,617	1,840,733
Lubricating oils and greases, not made in petroleum refineries.....	7	81	80	-----	20	758	216,403	129,441	2,141,828	28,659	4,011,220
Lumber and timber products, not elsewhere classified.....	110	468	11,638	-----	61,597	5,177	1,391,055	14,058,899	11,876,673	594,980	39,100,102
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	133	1,114	9,010	-----	21,051	4,556,703	21,240,943	10,026,395	722,992	57,704,438	46,955,051
Machine tools.....	22	277	1,554	-----	660	5,033	904,433	2,727,708	151,813	8,126,982	5,696,219
Marble, granite, slate, and other stone products.....	44	169	583	-----	-----	4,676	646,731	1,213,922	98,416	4,723,270	2,896,602
Mattresses and bed springs, not elsewhere classified.....	22	55	367	-----	948	172,209	544,423	1,481,442	33,407	3,087,600	1,572,751
Meat packing, wholesale.....	47	600	2,286	-----	2,430	1,549,420	3,421,339	55,752,000	352,475	65,025,621	8,920,246
Mirror and picture frames.....	6	8	33	-----	74	13,165	60,516	89,868	2,493	179,877	137,516
Mirrors, framed and unframed.....	8	23	139	-----	85	65,679	203,872	442,655	14,071	928,927	472,801
Models and patterns, not including paper patterns.....	59	128	1,115	-----	-----	1,775	522,342	2,775,534	915,100	73,286	5,842,498
Motion pictures, not including projection in theaters.....	4	32	23	-----	14	145,850	46,339	89,922	2,510	325,416	232,984
Motor-vehicle bodies and motor-vehicle parts.....	124	7,646	105,572	-----	61,322	259,137	23,760,500	186,927,518	419,811,193	10,101,802	308,493,172
Motor vehicles, not including motorcycles.....	40	13,477	108,796	-----	150,784	310,376	39,264,425	188,799,808	1,021,755,990	13,199,497	514,703,102
Musical instruments and parts and materials, not elsewhere classified.....	5	35	167	-----	940	72,250	231,773	118,120	16,776	677,994	543,098
Musical instruments: Pianos.....	4	123	572	-----	1,180	343,376	750,458	1,583,475	46,179	3,007,628	1,377,974
Nonferrous-metal alloys and products, not including aluminum products.....	93	1,231	10,219	-----	15,543	4,045,131	15,181,748	55,727,189	2,050,327	91,469,188	33,691,672
Paints and varnishes.....	47	926	1,865	-----	344	2,716,275	2,719,175	24,484,562	344,737	43,692,920	18,883,621
Paper.....	42	1,171	11,456	-----	179,740	4,087,560	16,263,768	51,928,828	5,704,472	97,322,852	39,030,552
Pulp (wood and other fiber).....	11	47	899	-----	-----	151,926	1,203,673	5,406,032	497,660	2,777,787	2,777,787
Paper goods, not elsewhere classified.....	16	86	349	-----	320	236,507	410,896	1,913,120	46,471	3,391,016	1,431,425
Patent or proprietary medicines and compounds.....	54	567	1,243	-----	1,650	1,784,971	1,617,841	5,457,404	105,672	18,978,300	13,415,224
Perfumes, cosmetics, and other toilet preparations.....	18	151	274	-----	125	448,605	287,507	996,671	13,643	3,250,928	2,240,714
Photo-engraving, not done in printing establishments.....	28	194	696	-----	-----	616	824,513	1,547,955	565,104	61,184	4,331,073
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	153	709	3,784	-----	12,320	18,654	2,304,917	4,774,454	13,988,740	415,397	25,614,233
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	12	162	1,126	-----	590	2,656	481,258	1,369,215	2,393,927	159,984	6,004,251
Poultry killing, dressing, and packing, wholesale.....	13	24	140	-----	75	141	73,547	144,732	2,727,653	11,887	3,273,367
Printing and publishing, book and job.....	482	1,573	6,074	-----	300	7,687	4,481,409	10,703,368	12,147,930	387,760	28,369,787
Printing and publishing, newspaper and periodical.....	408	4,108	3,950	-----	27	15,115	9,586,915	8,134,681	13,004,677	431,024	59,211,550
Printing materials, not including type or ink.....	6	17	46	-----	-----	288	44,004	62,463	91,612	10,069	336,615
Pumps (hand and power) and pumping equipment.....	22	458	2,350	-----	2,650	6,515	1,102,827	4,018,022	7,694,747	272,803	15,802,643
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	14	303	2,511	-----	7,763	948	830,005	3,182,111	7,447,789	309,249	14,188,443
Refrigerators, mechanical.....	6	622	1,431	-----	-----	4,994	1,934,291	2,522,239	11,112,435	118,646	23,108,089
Rubber goods other than tires, inner tubes, and boots and shoes.....	9	71	502	-----	60	4,193	229,390	937,655	2,044,554	116,940	5,077,398
Saddlery and harness.....	5	4	26	-----	-----	68	12,880	32,519	94,053	2,309	177,800
Salt.....	11	192	1,499	-----	14,120	2,607	432,540	2,152,730	3,583,166	1,174,338	11,821,006
Sand-lime brick.....	12	43	179	-----	325	1,313	122,705	264,982	324,569	85,223	1,133,823

See footnotes at end of table.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	49	129	645	45	3, 116	Dollars 340, 383	Dollars 1, 042, 021	Dollars 9, 507, 870	Dollars 127, 505	Dollars 12, 504, 675	Dollars 2, 929, 300
Saws	7	18	56	100	156	51, 073	93, 409	145, 023	9, 615	501, 690	347, 052
Screw-machine products and wood screws	39	305	3, 413		14, 543	1, 469, 596	5, 902, 443	8, 280, 001	402, 411	22, 031, 065	13, 348, 653
Ship and boat building, steel and wooden, including repair work	30	226	1, 803	2, 293	4, 241	991, 037	3, 019, 225	4, 519, 109	141, 994	10, 924, 105	5, 263, 002
Shirts	11	35	453		100	79, 359	253, 933	700, 502	8, 065	1, 426, 369	657, 742
Signs and advertising novelties	56	200	834	300	1, 041	499, 715	1, 275, 383	1, 670, 045	91, 044	5, 460, 740	3, 999, 651
Sporting and athletic goods, not including firearms and ammunition	10	181	513	110	829	442, 232	613, 749	748, 125	36, 324	2, 772, 175	1, 987, 726
Springs, steel, except wire, not made in plants operated in connection with rolling mills	4	39	644		1, 844	145, 296	1, 192, 610	6, 236, 636	186, 815	9, 324, 668	2, 901, 217
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	53	513	3, 799	40	9, 474	1, 668, 401	5, 623, 366	7, 386, 876	418, 947	20, 153, 220	12, 347, 397
Statuary and art goods, factory product	6	4	50		6	6, 715	127, 880	29, 321	1, 695	227, 584	196, 568
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	13	112	912		1, 062	493, 426	1, 054, 198	3, 735, 930	50, 335	7, 781, 245	3, 994, 980
Steam fittings and steam and hot-water heating apparatus	15	260	1, 699	2, 188	2, 106	741, 457	2, 547, 511	2, 454, 356	267, 046	9, 272, 349	6, 550, 947
Stereotyping and electrotyping, not done in printing establishments	11	103	374		1, 207	310, 776	893, 728	470, 949	65, 947	2, 597, 139	2, 060, 293
Stoves and ranges (other than electric) and warm-air furnaces	31	731	4, 432	2, 895	9, 475	2, 076, 845	7, 207, 698	11, 015, 165	799, 705	33, 932, 258	22, 117, 388
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	64	372	1, 701		6, 762	1, 234, 826	3, 251, 125	7, 426, 601	133, 207	15, 530, 644	7, 970, 836
Sugar, beet	12	98	619	14, 639	1, 253	209, 339	825, 111	4, 761, 435	462, 365	7, 335, 204	2, 121, 404
Surgical and orthopedic appliances, including artificial limbs	10	59	127		52	127, 178	104, 382	270, 957	5, 120	903, 335	627, 253
Tin cans and other tinware, not elsewhere classified	4	94	605	110	1, 055	192, 662	839, 985	1, 336, 451	43, 044	3, 015, 533	1, 630, 433
Tools, not including edge tools, machine tools, files, or saws	32	260	1, 709	1, 323	2, 716	855, 170	2, 404, 588	1, 809, 098	136, 318	8, 066, 542	6, 121, 126
Toys (not including childrens' wheel goods or sleds), games, and playground equipment	12	92	510	660	1, 102	238, 291	604, 794	698, 821	37, 548	2, 259, 032	1, 517, 263
Trunks, suitcases, and bags	11	79	505	125	495	178, 118	654, 720	1, 237, 940	33, 100	2, 623, 132	1, 808, 092
Vinegar and cider	11	10	33	197	220	20, 367	36, 501	150, 753	6, 386	275, 921	118, 732
Wall plaster, wall board, insulating board, and floor composition	8	49	433	799	14, 017	137, 292	610, 080	1, 823, 230	425, 382	3, 944, 225	1, 690, 613
Waste	5	30	160	195	218	71, 220	147, 841	601, 742	22, 335	1, 096, 707	472, 090
Window and door screens and weather strip	17	61	441	1, 200	1, 121	186, 137	491, 412	1, 421, 264	13, 517	2, 546, 413	1, 106, 632
Window shades and fixtures	20	171	327	1, 932	194	380, 491	941, 713	2, 002, 223	43, 695	5, 237, 744	3, 191, 826
Wirework, not elsewhere classified	36	533	6, 162	800	8, 137	1, 785, 337	7, 834, 173	13, 876, 574	355, 792	31, 416, 597	17, 134, 221
Wood distillation and charcoal manufacture	8	50	897	3, 713	4, 441	131, 354	1, 269, 559	2, 285, 803	414, 182	6, 365, 848	3, 665, 863
Wood preserving	11	35	260	226	498	114, 731	363, 321	3, 333, 430	45, 653	4, 433, 076	1, 003, 987
Wood turned and shaped and other wooden goods, not elsewhere classified	53	174	1, 427	4, 041	2, 455	527, 946	1, 694, 182	2, 214, 609	103, 820	6, 351, 694	4, 033, 259
Woolen goods	9	68	955	755	2, 627	259, 041	939, 337	4, 049, 903	135, 234	6, 269, 040	2, 080, 903
Other industries	270	5, 143	32, 900	54, 437	84, 210	13, 840, 390	47, 104, 273	164, 207, 512	19, 598, 339	345, 704, 229	171, 898, 378

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 3,593 employees of central administrative offices, with salaries aggregating \$26,541,705. See GENERAL EXPLANATIONS—Persons Engaged.

TABLE 13.—GENERAL STATISTICS FOR THE DETROIT INDUSTRIAL AREA AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929

[This table presents for the Detroit Industrial Area (See GENERAL EXPLANATIONS—Industrial Area) and for each important industrial county in the State, with certain exceptions, the reasons for which are given in explanatory notes, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>DETROIT INDUSTRIAL AREA</b>											
[This area comprises Oakland and Wayne Counties]											
All industries, total.....	2,806	38,048	293,252	467,531	770,817	Dollars 121,001,797	Dollars 511,635,683	Dollars 1,551,618,764	Dollars 63,297,696	Dollars 2,844,010,108	Dollars 1,220,038,738
Aircraft and parts.....	6	103	1,424	.....	2,070	365,749	2,402,449	3,104,325	64,925	8,375,000	5,205,810
Awnings, tents, sails, and canvas covers.....	13	88	208	.....	69	189,750	399,792	1,058,250	6,959	2,002,960	1,027,751
Beverages.....	50	142	637	844	1,359	406,070	975,125	1,793,390	110,238	4,911,489	3,007,801
Bookbinding and blank-book making.....	14	99	373	.....	278	310,713	504,558	343,052	10,462	1,583,100	1,229,640
Boxes, paper, not elsewhere classified.....	9	47	337	.....	370	108,152	399,652	1,112,950	21,227	1,534,501	700,344
Boxes, wooden, except cigar boxes.....	9	47	332	500	1,510	152,205	473,804	880,283	24,151	1,978,585	1,074,151
Bread and other bakery products.....	312	577	5,600	1,913	7,117	1,356,135	8,757,077	22,420,855	902,427	47,377,739	24,054,457
Brushes, other than rubber.....	7	21	106	.....	102	52,203	129,529	414,085	4,380	789,010	370,045
Butler.....	7	33	90	.....	1,554	56,490	137,526	3,005,740	20,047	3,700,015	671,222
Caskets, coffins, burial cases, and other morticians' goods.....	7	30	150	.....	70	92,283	224,066	622,261	13,937	1,154,910	518,712
Cement.....	3	26	553	11,285	0,000	73,878	994,055	1,488,275	1,152,049	5,540,041	2,890,717
Cigars and cigarettes.....	17	100	3,323	.....	539	430,353	2,616,244	6,437,222	52,420	13,252,510	6,702,808
Clay products (other than pottery) and nonclay refractories.....	14	66	450	2,759	1,764	245,054	755,372	161,318	443,980	1,071,184	1,365,886
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	16	40	272	.....	80	120,106	320,415	471,639	6,640	1,257,819	770,540
Clothing, women's, not elsewhere classified.....	10	30	146	.....	50	61,531	133,961	237,755	2,870	1,728,560	337,941
Coffee and spice, roasting and grinding.....	12	42	117	.....	596	124,735	164,424	3,870,200	31,876	5,216,375	1,314,299
Compressed and liquefied gases.....	6	113	99	150	1,727	193,399	163,410	413,453	88,347	1,633,209	1,136,409
Concrete products.....	81	102	581	120	2,185	281,870	911,118	1,471,651	71,424	4,438,883	2,895,808
Confectionery.....	26	65	625	.....	150	122,936	561,077	2,567,020	48,799	4,402,673	1,789,845
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	40	167	720	.....	814	569,477	1,437,663	2,925,198	28,979	6,133,655	3,179,478
Electrical machinery, apparatus, and supplies.....	27	598	2,043	200	4,540	1,899,707	3,109,536	7,637,233	154,479	18,235,742	10,444,000
Electroplating.....	26	71	655	.....	2,063	282,865	1,135,284	405,879	119,474	2,418,656	1,893,303
Engraving, steel and copperplate, and plate printing.....	5	14	49	.....	56	41,662	82,587	57,176	1,975	285,608	206,457
Fancy and miscellaneous articles, not elsewhere classified.....	5	10	54	.....	23	15,632	55,030	83,977	2,788	214,225	127,460
Flavoring extracts and flavoring sirups.....	18	58	175	812	1,092	223,353	380,955	1,130,739	86,513	2,573,946	1,356,394
Food preparations, not elsewhere classified.....	18	35	193	.....	210	126,958	199,728	1,569,615	36,597	2,386,722	780,510
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	11	59	535	.....	2,543	237,648	944,412	1,515,694	187,490	3,849,147	2,145,963
Foundry and machine-shop products, not elsewhere classified.....	197	1,738	10,752	335	37,539	6,244,399	19,340,365	24,817,900	1,747,041	70,106,820	43,631,308
Foundry supplies.....	4	34	112	.....	374	162,615	215,152	539,602	17,050	1,949,148	792,496
Fur goods.....	33	47	332	.....	126	171,421	584,213	1,579,706	19,718	3,481,444	1,882,020
Furniture, including store and office fixtures.....	47	235	1,290	495	2,610	844,711	2,062,397	3,614,425	92,700	8,516,392	4,902,697
Hand stamps and stencils and brands.....	11	28	46	.....	101	78,288	88,290	177,484	3,144	456,117	275,489
Ice cream.....	17	50	237	305	3,526	153,245	307,223	2,500,039	92,028	6,042,847	2,046,847
Ice, manufactured.....	40	60	210	1,085	13,437	138,314	485,391	60,386	450,918	2,761,581	2,250,277
Iron and steel, processed.....	11	30	90	.....	223	152,636	184,687	82,114	74,100	753,907	597,698
Iron and steel: Steel works and rolling mills.....	8	252	3,921	189,850	21,833	1,809,677	7,769,266	22,542,671	3,782,016	52,890,320	26,565,642
Jewelry.....	16	71	177	.....	91	240,708	349,716	912,295	8,162	2,100,459	1,179,997
Knit goods.....	7	21	135	1,057	69	70,470	169,028	278,134	13,621	527,131	235,376
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	110	938	8,160	.....	18,418	4,209,883	10,793,282	9,339,109	641,261	53,632,037	43,701,667
Machine tools.....	8	71	607	225	1,446	253,513	1,102,446	984,687	64,505	2,654,401	1,605,209
Marble, granite, slate, and other stone products.....	30	139	512	.....	3,982	584,328	1,103,898	1,546,780	87,400	4,194,390	2,500,216
Mattresses and bed springs, not elsewhere classified.....	10	33	257	.....	524	118,761	308,051	1,018,088	22,640	2,202,559	1,161,831
Meat packing, wholesale.....	22	559	2,004	2,430	3,734	1,449,761	3,006,884	50,100,140	294,720	58,384,293	7,989,433
Mirror and picture frames.....	6	8	33	.....	74	13,165	60,516	39,863	2,493	179,877	137,510
Mirrors, framed and unframed.....	3	7	26	.....	36	12,116	43,650	52,787	2,301	152,317	97,229
Models and patterns, not including paper patterns.....	35	100	832	.....	1,376	415,253	2,181,527	769,940	57,912	4,603,546	3,775,694
Motion pictures, not including projection in theaters.....	4	32	23	.....	14	145,850	46,339	89,922	2,510	325,416	232,984
Motor-vehicle bodies and motor-vehicle parts.....	70	5,732	76,591	43,393	189,664	18,531,251	142,351,320	302,829,437	7,434,034	538,528,508	228,265,037
Motor vehicles, not including motorcycles.....	27	9,551	81,846	131,198	199,204	29,669,893	143,671,141	754,035,026	10,065,478	1,133,280,547	369,180,043
Nonferrous-metal alloys and products, not including aluminum products.....	63	943	8,736	15,318	26,250	3,289,991	13,115,417	40,823,904	1,638,883	79,237,541	27,794,754
Paints and varnishes.....	33	744	1,322	250	8,332	2,174,551	1,904,756	16,882,632	282,382	30,940,339	13,805,275
Paper.....	4	72	580	17,650	2,515	144,130	1,077,127	1,827,890	209,500	4,474,016	2,437,526
Paper goods, not elsewhere classified.....	5	23	50	.....	126	56,371	58,446	83,110	2,795	294,991	209,036
Patent or proprietary medicines and compounds.....	32	306	683	1,375	863	1,030,753	915,867	2,063,154	61,793	9,129,453	6,404,506
Photo-engraving, not done in printing establishments.....	15	156	613	.....	533	692,118	1,375,906	514,546	53,350	3,801,544	3,233,643
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	52	253	1,170	3,310	7,167	890,365	1,720,547	4,550,923	137,991	8,870,983	4,182,068
Poultry killing, dressing, and packing, wholesale.....	9	17	116	.....	100	63,081	122,793	2,395,639	9,101	2,869,916	455,126
Printing and publishing, book and job.....	252	1,025	3,739	.....	4,109	3,073,668	7,177,852	8,592,552	224,968	27,990,312	19,172,792
Printing and publishing, newspaper and periodical.....	104	2,523	1,794	.....	1	9,997	6,336,126	9,871,418	194,015	38,816,690	28,750,667
Salt.....	3	52	234	100	2,502	88,945	368,092	468,247	145,401	1,725,930	1,112,341

See footnotes at end of section, p. 259.



TABLE 13.—GENERAL STATISTICS FOR THE DETROIT INDUSTRIAL AREA AND SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>DETROIT INDUSTRIAL AREA—Continued</b>											
Sand-lime brick.....	7	26	108	150	841	Dollars 87,823	Dollars 167,715	Dollars 200,721	Dollars 48,961	Dollars 679,917	Dollars 424,236
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	22	80	436	35	2,062	244,348	775,007	6,832,464	83,500	8,988,908	2,072,944
Screw-machine products and wood screws.....	29	236	2,076	-----	9,355	1,202,368	4,801,132	7,181,674	297,246	18,240,266	10,761,836
Ship and boat building, steel and wooden, including repair work.....	13	116	993	2,093	2,320	387,127	1,804,806	1,894,906	103,405	4,725,811	2,727,500
Shirts.....	4	6	44	-----	10	16,480	56,688	77,247	990	225,922	147,085
Signs and advertising novelties.....	37	106	413	-----	385	293,279	722,061	853,548	31,599	3,067,470	2,182,823
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	33	351	2,731	-----	7,122	1,311,660	4,380,519	5,481,567	302,934	15,195,165	9,410,664
Statuary and art goods, factory product.....	6	4	50	-----	6	0,715	127,880	20,321	1,695	227,584	196,568
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	9	91	826	-----	879	436,216	966,436	2,859,987	35,871	6,639,729	3,744,171
Steam fittings and steam and hot-water heating apparatus.....	9	165	1,131	1,803	534	410,037	1,739,391	1,426,422	187,436	5,745,165	4,131,807
Stereotyping and electrotyping, not done in printing establishments.....	7	98	262	-----	954	268,782	644,315	391,303	47,223	2,050,115	1,611,539
Stoves and ranges (other than electric) and warm-air furnaces.....	12	316	1,956	865	3,632	768,584	3,142,018	5,119,938	368,211	14,435,824	8,947,075
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	53	300	1,504	-----	5,932	1,026,926	2,928,290	6,153,782	111,083	13,392,491	7,127,626
Surgical and orthopedic appliances, including artificial limbs.....	6	18	58	-----	25	57,062	69,635	155,901	3,853	380,592	221,338
Tools, not including edge tools, machine tools, files, or saws.....	20	80	415	75	1,040	415,519	1,079,356	610,168	42,831	3,491,029	2,898,030
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	4	42	289	660	310	151,987	382,424	327,087	18,831	1,261,000	915,582
Window and door screens and weather strip.....	11	28	108	-----	292	67,212	144,162	267,460	6,838	633,463	359,059
Window shades and fixtures.....	16	26	52	-----	27	60,355	53,878	205,987	3,187	471,695	262,421
Wirework, not elsewhere classified.....	21	326	4,571	180	5,238	1,200,440	6,022,510	9,552,265	215,229	21,599,788	11,834,294
Wood preserving.....	6	17	29	-----	50	76,874	44,830	363,694	3,306	1,168,612	331,612
Wood turned and shaped and other wooden goods, not elsewhere classified.....	6	18	65	-----	297	63,752	107,820	93,595	8,154	336,917	235,168
Other industries.....	420	7,547	47,520	139,550	130,454	21,463,945	75,455,084	158,250,216	29,706,429	419,278,639	231,261,994

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>1</sup> Includes item for "Iron and steel: Blast furnaces" industry. All figures for that industry except those for power are included in the "Other industries" items to avoid disclosing the data reported by individual establishments.

<sup>2</sup> Includes item for "Pulp (wood and other fiber)" industry. All figures for that industry except those for power are included in the "Other industries" items to avoid disclosing the data reported by individual establishments.

**CALHOUN COUNTY**

All industries, total.....	170	2,111	11,869	9,627	43,597	Dollars 4,436,371	Dollars 17,405,034	Dollars 41,193,522	Dollars 2,763,908	Dollars 109,557,454	Dollars 65,600,024
Bread and other bakery products.....	19	25	188	-----	344	53,485	251,470	652,387	20,831	1,260,598	578,380
Butter.....	4	8	14	-----	71	15,156	19,829	289,518	4,810	362,106	67,778
Concrete products.....	5	1	11	-----	23	(3)	15,225	18,759	706	47,508	28,013
Flour and other grain-mill products.....	7	2	14	095	60	(3)	16,990	232,540	1,526	323,724	80,668
Foundry and machine-shop products, not elsewhere classified.....	18	339	3,516	-----	9,291	1,052,230	4,944,541	4,228,385	554,997	15,225,514	10,442,432
Ice cream.....	3	4	12	-----	162	8,950	17,981	90,634	3,991	202,903	108,278
Patent or proprietary medicines and compounds.....	6	18	26	-----	46	59,812	35,071	60,346	1,865	523,531	461,320
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	4	13	28	-----	253	20,380	40,084	55,027	5,014	149,561	89,520
Printing and publishing, book and job.....	14	41	191	75	290	104,373	316,274	332,080	15,599	1,031,479	683,800
Printing and publishing, newspaper and periodical.....	11	115	90	-----	221	121,434	200,964	145,008	13,520	883,140	724,612
Other industries.....	79	1,545	7,779	8,857	32,836	3,000,551	11,546,605	35,093,838	2,129,959	89,547,030	52,326,233

<sup>3</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

**GENESEE COUNTY**

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Motor vehicles, not including motorcycles"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 60 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	136	3,842	32,001	17,542	105,005	Dollars 9,963,402	Dollars 52,642,271	Dollars 217,349,801	Dollars 4,358,217	Dollars 364,361,540	Dollars 142,653,522
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## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE DETROIT INDUSTRIAL AREA AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

(See note at head of this table)

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>INGHAM COUNTY</b>											
All industries, total.....	158	2,305	19,132	11,590	62,556	Dollars 6,027,611	Dollars 28,840,477	Dollars 144,127,173	Dollars 2,583,060	Dollars 222,523,301	Dollars 75,868,068
Bread and other bakery products.....	21	21	189	-----	187	53,824	223,507	685,612	36,946	1,204,187	571,629
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	5	54	844	450	3,188	233,757	1,435,756	1,916,202	372,708	5,270,139	2,981,270
Foundry and machine-shop products, not elsewhere classified.....	7	66	507	400	400	165,111	708,577	1,167,457	51,197	3,211,455	1,992,801
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	4	7	51	-----	160	20,480	93,449	16,821	2,662	168,504	149,021
Motor-vehicle bodies and motor-vehicle parts.....	6	264	5,664	4,350	8,837	628,003	8,544,572	31,779,109	369,710	51,698,676	19,559,857
Motor vehicles, not including motorcycles.....	4	1,289	9,479	4,688	37,794	3,480,608	14,114,534	101,634,574	935,822	142,882,520	40,412,133
Nonferrous-metal alloys and products, not including aluminum products.....	3	1	18	-----	66	( <sup>c</sup> )	28,414	96,467	4,788	153,329	52,074
Printing and publishing, book and job.....	20	41	244	-----	319	104,043	390,066	350,745	17,824	1,113,978	745,409
Printing and publishing, newspaper and periodical.....	14	135	151	-----	311	257,817	253,292	285,117	16,514	1,440,814	1,130,183
Other industries.....	74	427	1,985	1,702	11,195	1,083,968	3,045,310	6,295,069	734,889	15,294,640	8,204,682
<b>JACKSON COUNTY</b>											
All industries, total.....	138	1,370	11,375	3,172	37,791	Dollars 3,904,397	Dollars 16,662,204	Dollars 37,643,855	Dollars 1,895,500	Dollars 80,123,614	Dollars 40,584,269
Bread and other bakery products.....	18	10	120	1	277	82,806	199,529	462,198	21,163	882,953	399,592
Butter.....	4	-----	3	10	31	-----	3,332	77,702	1,923	90,918	11,293
Concrete products.....	6	10	31	60	69	37,466	52,805	75,227	4,590	222,702	142,885
Foundry and machine-shop products, not elsewhere classified.....	10	132	1,101	-----	7,830	524,194	1,719,174	2,252,011	162,628	6,845,005	4,430,366
Machine tools.....	4	71	270	-----	1,371	228,448	526,149	451,434	24,122	1,928,880	1,462,824
Motor-vehicle bodies and motor-vehicle parts.....	7	344	3,903	770	14,970	1,106,691	6,110,291	14,732,964	757,594	26,667,387	11,170,829
Printing and publishing, book and job.....	7	26	64	-----	113	47,245	111,819	88,094	6,446	335,843	240,803
Other industries.....	70	777	5,883	2,331	13,140	1,928,547	6,969,105	19,504,225	917,034	43,150,926	22,729,667
<b>KALAMAZOO COUNTY</b>											
All industries, total.....	200	1,885	12,145	65,219	17,888	Dollars 5,393,875	Dollars 16,967,201	Dollars 50,781,206	Dollars 2,767,867	Dollars 110,996,656	Dollars 57,447,583
Beverages.....	3	1	12	-----	28	( <sup>c</sup> )	16,446	28,509	956	75,713	46,248
Bread and other bakery products.....	16	16	145	-----	221	31,140	228,846	620,561	24,255	1,241,032	596,216
Butter.....	4	1	6	212	133	( <sup>c</sup> )	7,894	217,777	2,636	280,778	60,365
Concrete products.....	9	8	41	-----	171	16,137	59,813	90,066	4,494	231,803	137,243
Electrical machinery, apparatus, and supplies.....	3	27	54	-----	116	32,000	71,444	164,878	4,646	480,737	311,213
Flour and other grain-mill products.....	6	3	10	325	177	1,440	13,954	201,796	3,758	256,165	50,611
Foundry and machine-shop products, not elsewhere classified.....	18	131	812	472	2,268	404,057	1,271,069	1,745,720	113,690	4,496,178	2,636,868
Ice cream.....	4	2	30	-----	237	( <sup>c</sup> )	48,688	200,018	8,551	417,730	200,161
Models and patterns, not including paper patterns.....	5	4	20	-----	61	6,419	71,991	22,010	1,700	143,353	119,643
Motor-vehicle bodies and motor-vehicle parts.....	4	132	1,296	-----	3,536	312,135	2,056,376	4,681,126	122,065	9,679,909	4,876,718
Nonferrous-metal alloys and products, not including aluminum products.....	3	11	47	-----	112	39,436	70,440	167,896	8,485	327,164	160,783
Paper.....	11	465	4,726	62,920	1,719	1,642,751	6,510,982	19,409,366	1,731,998	35,853,081	14,711,217
Paper goods, not elsewhere classified.....	5	35	173	320	273	92,736	200,928	375,869	29,114	1,445,131	540,158
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	4	14	36	200	102	26,630	45,648	140,000	7,794	302,332	154,538
Printing and publishing, book and job.....	18	33	169	-----	272	110,397	232,791	312,829	11,925	1,028,228	703,474
Stoves and ranges (other than electric) and warm-air furnaces.....	3	128	723	80	1,293	409,465	1,325,640	1,930,691	72,820	7,212,793	5,209,282
Other industries.....	84	874	3,836	690	7,129	2,215,532	4,734,351	19,962,804	619,080	47,524,529	26,942,845

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>c</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other Industries."

TABLE 13.—GENERAL STATISTICS FOR THE DETROIT INDUSTRIAL AREA AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products *	Cost of fuel and purchased electric energy	Value of products *	Value added by manufacture †
				Prime movers	Electric motors driven by purchased energy						
<b>KENT COUNTY</b>											
All industries, total.....	561	4,084	30,979	46,495	46,981	Dollars 12,791,350	Dollars 44,750,155	Dollars 77,334,967	Dollars 3,534,609	Dollars 178,126,058	Dollars 96,706,482
Beverages.....	6	7	18	8	87	9,132	25,706	63,408	3,059	177,636	111,169
Bookbinding and blank-book making.....	4	9	32	---	72	19,873	47,052	39,080	2,003	160,267	118,284
Bread and other bakery products.....	69	115	868	90	1,351	282,483	1,010,293	3,210,565	124,027	6,411,914	3,077,322
Butter.....	5	19	28	295	357	37,209	33,644	1,082,522	3,249	1,227,737	156,966
Caskets, coffins, burial cases, and other morticians' goods.....	4	12	56	---	71	31,087	71,030	246,362	3,460	477,889	228,067
Cigars and cigarettes.....	5	14	140	---	6	32,986	109,294	178,844	1,451	411,249	230,954
Concrete products.....	14	7	64	80	265	12,751	93,041	125,260	6,700	389,487	257,527
Confectionery.....	7	38	189	235	26	120,057	164,722	506,116	12,835	1,045,542	527,091
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	10	22	97	---	245	51,104	142,839	288,273	8,315	682,209	385,681
Flour and other grain-mill products.....	5	29	52	665	215	62,206	77,376	1,267,194	12,191	1,664,826	395,441
Food preparations, not elsewhere classified.....	7	10	19	---	52	14,934	18,286	230,349	3,614	319,005	85,132
Foundry and machine-shop products, not elsewhere classified.....	31	166	1,136	840	3,147	526,699	1,684,183	1,446,012	202,186	5,444,826	3,796,628
Furniture, including store and office fixtures.....	78	1,339	12,311	20,369	6,292	4,722,442	17,743,368	21,599,359	623,530	59,600,126	37,377,237
Ice cream.....	3	11	72	---	535	27,828	108,752	473,950	18,483	961,130	468,747
Ice, manufactured.....	3	22	130	---	1,900	61,045	178,490	5,280	53,469	366,834	308,085
Labels and tags.....	3	17	91	---	101	40,666	106,138	136,307	3,967	530,723	390,454
Leather: Tanned, curried, and finished.....	4	39	287	2,134	26	114,929	362,763	1,568,892	50,776	2,196,919	667,252
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	3	7	69	---	128	23,201	125,168	37,632	6,968	269,839	225,239
Nonferrous-metal alloys and products, not including aluminum products.....	4	6	52	---	64	16,730	85,027	160,620	11,907	304,668	132,141
Photo-engraving, not done in printing establishments.....	6	22	48	---	36	83,506	98,817	26,763	5,235	314,465	282,462
Planing-mill products (including general mill-work) not made in planing mills connected with sawmills.....	9	98	368	850	1,449	365,059	477,767	1,974,922	58,111	3,099,312	1,036,279
Printing and publishing, book and job.....	50	189	594	105	1,232	511,637	916,137	799,878	39,532	3,356,904	2,517,494
Printing and publishing, newspaper and periodical.....	25	268	292	4	917	637,018	596,414	797,100	27,762	4,308,614	3,543,762
Pumps (hand and power) and pumping equipment.....	4	26	196	275	254	111,382	286,120	635,414	26,200	1,684,404	972,790
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	10	12	44	---	289	22,302	67,490	564,877	10,747	780,513	204,889
Signs and advertising novelties.....	3	11	14	---	16	15,010	15,810	22,413	2,014	68,815	44,388
Wood turned and shaped and other wooden goods, not elsewhere classified.....	17	57	406	497	730	155,712	567,580	383,113	34,785	1,655,495	1,237,597
Other industries.....	169	1,512	13,306	20,048	27,118	4,681,372	19,542,758	39,943,557	2,214,544	80,186,505	38,027,404

\* See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
 † Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

MUSKEGON COUNTY

All industries, total.....	129	1,891	15,716	27,554	26,480	Dollars 4,591,842	Dollars 21,544,064	Dollars 37,551,129	Dollars 2,091,235	Dollars 89,140,648	Dollars 49,498,284
Beverages.....	3	6	11	---	42	6,152	17,536	36,803	1,852	94,244	55,689
Bread and other bakery products.....	14	17	140	---	318	26,902	183,080	457,947	23,006	967,229	480,276
Concrete products.....	7	6	20	2	58	8,697	23,068	36,231	1,289	102,440	64,920
Confectionery.....	4	8	52	---	54	13,322	34,565	106,527	1,897	214,632	106,208
Electrical machinery, apparatus, and supplies.....	3	165	1,141	---	987	211,529	1,280,424	2,952,349	53,400	5,132,418	2,126,669
Foundry and machine-shop products, not elsewhere classified.....	22	601	5,406	3,950	14,107	1,740,516	8,159,262	7,690,461	920,240	25,262,086	16,651,385
Furniture, including store and office fixtures.....	7	205	919	1,581	215	459,973	1,153,450	2,217,270	92,733	5,286,518	2,976,515
Ice cream.....	5	7	22	---	192	11,102	32,507	164,408	6,160	340,429	169,801
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	3	14	121	---	251	48,203	232,132	54,742	8,534	503,970	440,694
Planing-mill products (including general mill-work) not made in planing mills connected with sawmills.....	3	---	12	---	195	---	18,861	31,295	2,315	68,276	34,666
Signs and advertising novelties.....	3	4	23	---	35	7,766	38,486	14,572	1,975	101,082	84,535
Other industries.....	55	858	7,849	22,021	10,026	2,057,680	10,390,093	23,788,464	977,834	51,067,224	26,300,926

OAKLAND COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Motor vehicles, not including motorcycles"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	140	3,319	22,828	9,135	91,323	Dollars 10,420,250	Dollars 37,500,555	Dollars 170,543,154	Dollars 2,902,058	Dollars 254,837,836	Dollars 81,392,624
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CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE DETROIT INDUSTRIAL AREA AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>b</sup>	Value added by manufacture <sup>c</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>SAGINAW COUNTY</b>											
All industries, total.....	171	1,800	15,217	13,507	38,215	Dollars 4,451,959	Dollars 21,962,627	Dollars 29,863,959	Dollars 2,852,907	Dollars 74,557,791	Dollars 41,840,925
Beverages.....	3	4	13	-----	34	6,292	16,382	25,964	1,664	73,883	45,765
Bread and other bakery products.....	17	157	567	-----	751	345,927	478,307	1,355,906	54,685	3,117,184	1,706,533
Butter.....	5	3	14	8	223	8,460	22,907	437,130	6,947	626,259	81,182
Cigars and cigarettes.....	4	2	18	-----	2	( <sup>d</sup> )	15,965	24,349	282	60,263	35,632
Concrete products.....	7	6	39	40	191	10,380	58,307	71,413	5,345	230,264	153,506
Flavoring extracts and flavoring sirups.....	3	4	30	61	28	12,480	41,190	117,606	8,193	317,153	191,354
Flour and other grain-mill products.....	5	16	36	855	667	23,801	39,021	537,175	19,803	727,288	170,810
Foundry and machine-shop products, not elsewhere classified.....	16	638	8,113	3,715	20,173	1,804,114	13,182,052	11,984,421	1,619,003	33,916,811	20,313,387
Ice cream.....	6	20	39	-----	340	50,015	56,420	251,332	15,542	594,626	327,752
Lumber and timber products, not elsewhere classified.....	3	-----	16	180	105	-----	13,486	14,780	518	36,451	21,153
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	9	53	482	2,300	643	137,655	469,693	1,434,597	42,465	2,342,599	865,537
Printing and publishing, book and job.....	13	28	80	-----	157	54,103	141,061	162,986	9,855	497,474	324,633
Other industries.....	81	809	5,764	6,348	14,901	1,998,782	7,427,286	13,446,240	1,068,605	32,119,036	17,604,191

WAYNE COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the leading industries—namely, "Motor vehicles, not including motor cycles" and "Motor-vehicle bodies and motor-vehicle parts"—without rendering it possible to calculate (by subtracting the figures for these industries in Wayne County from the corresponding ones for the industrial area) the figures for the same industries in Oakland County, the publication of which would disclose approximations of the data for an important company. Moreover, those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	2,660	35,329	270,424	458,396	679,494	Dollars 110,581,547	Dollars 474,138,128	Dollars 1,381,076,610	Dollars 60,395,638	Dollars 2,589,772,362	Dollars 1,148,301,114
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>c</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

TABLE 14.—GENERAL STATISTICS FOR DETROIT AND GRAND RAPIDS, BY INDUSTRIES: 1929

[This table presents, for Detroit and Grand Rapids, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the industries shown separately. The city of Flint is also industrially important, but it is impossible to publish even the combined totals for all industries in this city without disclosing approximations of the data for individual establishments.]

INDUSTRY	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products	Cost of fuel and purchased electric energy	Value of products	Value added by manufacture
				Prime movers	Electric motors driven by purchased energy						

DETROIT

[The totals for all industries do not include data for establishments located outside the city (see footnotes 1, 2, and 3), and therefore are slightly smaller than the sums of the items for individual industries.]

All industries, total.....	2,418	31,333	221,588	183,351	531,005	\$99,041,202	\$386,692,181	\$1,036,717,046	\$34,755,148	\$2,014,165,786	\$942,693,593
Awnings, tents, sails, and canvas covers <sup>1</sup> .....	13	88	298	.....	99	189,750	399,792	1,058,250	6,959	2,092,960	1,027,751
Beverages.....	41	129	504	714	1,283	375,022	926,452	1,681,905	99,115	4,618,558	2,837,538
Bookbinding and blank-book making.....	14	69	373	.....	278	310,713	504,563	843,052	10,462	1,583,180	1,229,649
Boxes, wooden, except cigar boxes.....	9	47	382	500	1,510	152,205	473,304	880,283	24,151	1,978,585	1,074,151
Bread and other bakery products.....	250	558	5,151	1,912	6,727	1,321,031	8,136,956	21,256,001	839,552	45,053,414	22,957,801
Brushes, other than rubber.....	7	21	105	.....	102	52,203	129,529	414,085	4,880	789,010	370,045
Butter <sup>1</sup> .....	7	38	90	70	1,554	86,496	137,826	3,005,746	29,047	3,706,015	671,223
Cigars and cigarettes.....	17	100	3,323	.....	639	430,353	2,616,244	6,437,222	52,420	13,252,510	6,762,868
Clothing (except work clothing), men's, youths' and boys', not elsewhere classified.....	16	40	272	.....	80	120,106	320,415	471,639	6,640	1,257,819	779,540
Clothing, women's, not elsewhere classified.....	10	30	146	.....	58	61,831	133,961	337,755	2,870	725,569	387,941
Coffee and spice, roasting and grinding.....	12	42	117	.....	686	124,735	164,426	3,870,200	31,876	5,216,375	1,314,299
Compressed and liquefied gases.....	6	113	92	150	1,727	193,399	168,410	413,453	88,347	1,638,209	1,136,409
Concrete products.....	48	83	447	.....	1,750	241,747	715,588	1,140,179	52,664	3,492,789	2,289,946
Confectionery <sup>2</sup> .....	26	65	625	.....	510	122,936	561,977	2,667,029	48,799	4,402,673	1,786,845
Electrical machinery, apparatus, and supplies <sup>1</sup> .....	27	596	2,043	200	4,540	1,869,707	3,169,536	7,637,293	154,479	18,235,742	10,444,000
Electroplating.....	26	71	655	.....	2,093	292,865	1,135,284	405,879	119,474	2,418,656	1,893,303
Engraving, steel and copperplate, and plate printing.....	5	14	49	.....	56	41,062	82,587	57,176	1,975	265,608	206,457
Fancy and miscellaneous articles, not elsewhere classified.....	5	10	54	.....	23	15,632	55,930	83,977	2,788	214,225	127,400
Flavoring extracts and flavoring sirups.....	12	53	151	792	1,036	217,008	325,558	1,009,844	78,700	2,260,948	1,173,844
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	11	59	535	.....	2,543	237,648	944,412	1,515,694	187,400	3,849,147	2,145,963
Foundry and machine-shop products, not elsewhere classified.....	175	1,569	9,095	385	30,989	5,736,176	16,096,792	20,771,717	1,482,724	60,327,769	38,073,328
Foundry supplies.....	4	34	112	.....	374	162,615	215,152	539,602	17,056	1,940,148	792,496
Fur goods.....	33	47	332	.....	126	171,421	584,213	1,579,706	93,700	3,481,444	1,882,020
Furniture, including store and office fixtures <sup>3</sup> .....	47	235	1,290	495	2,610	844,711	2,062,897	3,614,425	92,700	8,510,392	4,909,287
Hand stamps and stencils and brands.....	11	28	46	.....	101	78,288	88,299	177,484	3,144	456,117	275,489
Ice cream <sup>1</sup> .....	17	50	237	305	3,520	153,245	397,223	2,500,080	32,028	4,632,614	2,040,847
Ice, manufactured.....	27	45	144	425	11,354	106,140	361,373	46,558	377,179	2,328,805	1,390,668
Iron and steel, processed.....	11	30	89	.....	223	152,536	184,987	82,114	74,100	753,967	597,693
Jewelry.....	16	71	177	.....	91	240,708	349,716	612,295	8,162	2,100,454	1,170,997
Knit goods <sup>1</sup> .....	7	21	136	1,057	69	70,470	169,028	278,134	13,621	527,131	235,870
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	103	958	7,880	.....	18,145	4,026,549	19,126,348	9,072,618	620,326	51,054,669	42,261,725
Machine tools.....	8	71	607	225	1,440	263,513	1,102,446	684,687	64,505	2,654,401	1,605,209
Marble, granite, slate, and other stone products <sup>2</sup> .....	30	139	512	.....	3,982	584,328	1,103,898	1,540,780	87,400	4,194,396	2,560,216
Mattresses and bed springs, not elsewhere classified.....	10	33	257	.....	524	118,751	398,051	1,018,088	22,640	2,202,559	1,161,831
Meat packing, wholesale <sup>3</sup> .....	22	559	2,004	2,430	3,734	1,449,701	3,009,884	50,100,140	294,720	58,384,293	7,089,433
Mirror and picture frames.....	6	8	33	.....	74	13,168	60,516	89,868	2,493	179,877	137,516
Mirrors, framed and unframed.....	8	7	26	.....	36	48,650	52,787	52,787	2,301	152,317	97,229
Motor-vehicle bodies and motor-vehicle parts.....	60	5,195	61,899	24,478	162,251	17,358,817	115,572,638	233,234,167	6,080,725	420,469,291	181,154,409
Motor vehicles, not including motorcycles.....	20	5,016	50,052	30,808	90,552	16,719,035	88,012,895	308,601,896	4,639,464	647,571,832	244,330,472
Patent or proprietary medicines and compounds.....	32	306	658	1,375	853	1,030,753	915,897	2,663,154	61,793	9,129,453	6,404,506
Photo-engraving, not done in printing establishments.....	15	156	613	.....	533	692,118	1,375,906	514,546	53,350	3,801,544	3,233,648
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	37	229	1,039	3,100	4,768	812,541	1,494,746	4,284,990	106,741	8,094,164	3,702,433
Poultry killing, dressing, and packing, wholesale.....	9	17	116	.....	100	63,081	122,793	2,395,689	9,101	2,859,916	455,126
Printing and publishing, book and job.....	232	998	3,602	.....	3,926	3,021,993	6,998,371	3,264,903	217,025	27,280,084	18,798,156
Printing and publishing, newspaper and periodical.....	76	2,369	1,627	.....	9,508	6,024,929	4,209,726	9,628,737	175,480	37,026,290	27,222,073
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	17	66	393	35	1,714	212,770	658,907	5,976,985	72,111	7,891,445	1,843,349
Ship and boat building, steel and wooden, including repair work.....	7	15	103	780	2,040	24,435	166,857	218,363	6,276	429,217	204,578
Shirts.....	4	6	44	.....	10	16,480	56,688	77,247	990	225,922	147,685
Signs and advertising novelties <sup>1</sup> .....	37	106	413	.....	385	293,279	722,061	853,548	31,599	3,067,470	2,182,323
Statuary and art goods, factory product.....	6	4	50	.....	6	6,715	127,880	29,321	1,695	227,584	196,598
Stereotyping and electrotyping, not done in printing establishments.....	7	93	262	.....	954	268,782	644,315	391,303	47,223	2,060,115	1,611,589
Surgical and orthopedic appliances, including artificial limbs.....	6	18	58	.....	25	57,062	69,636	155,901	3,353	380,592	221,338
Window and door screens and weather strip <sup>1</sup> .....	11	28	103	.....	292	67,212	144,162	267,466	6,333	633,403	359,659
Window shades and fixtures <sup>1</sup> .....	16	26	52	.....	27	60,335	58,878	205,987	3,187	471,595	262,421
Wood preserving.....	6	17	29	.....	50	76,374	44,839	863,694	3,306	1,198,612	331,612
Wood turned and shaped and other wooden goods, not elsewhere classified.....	6	18	65	.....	297	63,752	107,820	83,595	8,154	336,017	235,168
Other industries.....	741	10,527	62,148	113,988	149,035	31,681,082	99,069,423	221,678,979	18,140,840	521,785,412	282,065,593

<sup>1</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside Detroit have been included with those for the city, as specified in footnotes 1, 2, and 3, to avoid disclosing data reported by individual establishments:

<sup>1</sup> Includes data for 1 establishment located outside Detroit.

<sup>2</sup> Includes data for 3 establishments located outside Detroit.

<sup>3</sup> Includes data for 2 establishments located outside Detroit.

## CENSUS OF MANUFACTURES: 1929

TABLE 14.—GENERAL STATISTICS FOR DETROIT AND GRAND RAPIDS, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>b</sup>	Value added by manufacture <sup>c</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>GRAND RAPIDS</b>											
All industries, total.....	516	3,776	28,084	39,280	37,028	\$11,867,715	\$40,476,018	\$65,714,740	\$2,919,513	\$160,553,816	\$87,910,593
Beverages.....	8	7	18	8	87	9,132	25,796	63,408	3,059	177,630	111,169
Bookbinding and blank-book making.....	4	9	32	---	72	19,873	47,052	39,980	2,003	160,267	118,284
Bread and other bakery products.....	64	115	858	60	1,324	282,483	999,458	3,168,430	122,426	6,329,218	3,048,362
Caskets, coffins, burial cases, and other morticians' goods.....	4	12	56	---	71	31,087	71,030	246,362	3,490	477,889	228,067
Cigars and cigarettes.....	5	14	140	---	6	32,986	109,294	178,844	1,451	411,249	230,984
Confectionery.....	7	38	189	235	26	120,067	164,722	506,116	12,335	1,046,542	527,091
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	10	22	97	---	245	51,104	142,839	288,273	8,315	682,269	385,681
Furniture, including store and office fixtures.....	72	1,325	12,036	20,069	5,932	4,670,856	17,349,968	21,033,737	604,071	57,851,118	36,213,310
Ice, manufactured.....	3	22	130	---	1,900	61,945	178,490	5,280	53,469	369,884	308,085
Labels and tags.....	3	17	91	---	101	40,666	106,138	136,307	3,967	530,728	390,464
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	3	7	69	---	128	23,291	125,168	37,632	6,968	269,839	225,230
Nonferrous-metal alloys and products, not including aluminum products.....	4	6	52	---	64	16,730	85,027	160,620	11,907	304,668	132,141
Photo-engraving, not done in printing establishments.....	6	22	48	---	36	83,500	98,817	26,768	5,235	314,465	282,462
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	9	98	368	850	1,449	365,059	477,767	1,974,922	58,111	3,069,312	1,036,279
Printing and publishing, book and job.....	50	189	694	105	1,232	511,637	616,137	799,878	39,632	3,356,904	2,517,494
Printing and publishing, newspaper and periodical.....	20	264	275	---	890	633,783	572,809	785,536	26,786	4,293,324	3,481,002
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	10	12	44	---	289	22,302	67,490	564,877	10,747	780,513	204,889
Signs and advertising novelties.....	3	11	14	---	16	15,010	16,810	22,413	2,014	68,816	44,388
Wood turned and shaped and other wooden goods, not elsewhere classified.....	17	57	406	497	730	155,712	567,580	333,113	34,785	1,655,495	1,237,597
Other industries.....	216	1,529	12,567	17,426	22,425	4,720,496	18,354,628	35,302,244	1,908,372	74,407,731	37,196,616

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

# MINNESOTA

## TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1924, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1924 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	4,315	103,414	606,704	323,804	282,900	\$132,418,195	\$768,218,329	\$741,454,482	\$26,763,847	\$1,173,213,606	\$404,995,277
1927	3,886	98,833	584,325	325,520	258,808	123,019,331	720,390,744	700,530,491	25,950,253	1,049,727,215	340,336,471
1925	3,888	100,614	508,021	299,974	208,047	123,707,442	770,723,999	( <sup>5</sup> )	( <sup>5</sup> )	1,101,856,641	331,131,642
1923	3,900	103,964	460,128	289,477	170,651	125,531,000	647,322,673	( <sup>5</sup> )	( <sup>5</sup> )	962,774,954	315,452,281
1921	4,089	85,804	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	107,249,747	585,473,378	( <sup>5</sup> )	( <sup>5</sup> )	850,440,833	264,073,455
1919	6,225	115,623	473,660	805,695	167,965	127,106,505	883,089,777	860,607,269	22,482,478	1,218,129,735	335,030,958
1914	5,974	92,834	358,163	286,939	71,224	68,507,013	339,849,214	328,841,250	8,007,964	493,354,136	156,504,922
1909	5,661	84,767	296,843	266,546	30,297	47,470,803	281,622,237	275,431,609	6,190,588	409,419,621	127,797,334
1904	4,755	69,639	219,694	211,070	8,594	35,843,145	210,553,949	207,000,087	3,553,862	307,858,073	97,304,124
1899	4,090	64,557	179,151	175,332	3,709	29,029,190	150,299,277	( <sup>5</sup> )	( <sup>5</sup> )	223,692,922	73,393,645
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	11.0	4.6	3.8	-0.5	9.3	7.1	5.8	5.8	3.5	10.0	19.0
1925-1927	-0.1	-1.8	15.0	8.5	24.4	-0.1	-5.8			-3.2	2.8
1923-1925	-0.3	-3.2	10.4	3.6	21.9	-1.4	19.1			14.4	5.0
1921-1923	-4.6	21.2				17.0	10.6			13.2	19.1
1919-1921	-34.3	-25.8				-15.6	-33.7			-30.2	-20.9
1910-1929	-30.7	-10.6	28.1	5.9	68.4	4.2	-13.0	-13.8	19.0	-3.7	20.9
1900-1919	11.9	36.4	59.0	14.7	454.4	107.8	213.6	212.5	263.2	197.5	162.2
1899-1909	35.8	31.3	65.7	52.0	703.8	63.5	87.4			83.0	74.1

<sup>1</sup> Not including salaried employees.

<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>4</sup> Not reported separately.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> No comparable data.

## TABLE 2.—SUMMARY FOR THE MINNEAPOLIS-ST. PAUL INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	2,563,953	4,315	103,414	606,704	\$132,418,195	\$768,218,329	\$741,454,482	\$26,763,847	\$1,173,213,606	\$404,995,277
Minneapolis-St. Paul Industrial Area <sup>3</sup>	839,098	1,958	65,148	308,347	84,462,389	434,098,600	422,607,459	12,386,231	709,829,325	274,835,635
<i>Counties <sup>4</sup></i>										
Aitkin	15,009	18	106	621	113,854	691,616	634,931	6,635	960,072	268,456
Anoka	18,416	23	877	4,097	1,076,907	7,124,329	6,994,346	129,983	10,181,530	3,037,201
Becker	22,503	29	102	1,002	110,219	1,514,370	1,292,855	21,985	1,703,019	388,149
Beltrami	20,707	30	586	3,376	489,825	1,674,103	1,530,201	43,902	2,647,533	1,073,430
Benton	15,056	25	489	10,741	610,009	3,266,243	3,077,740	188,503	4,577,103	1,310,860
Big Stone	9,838	13	77	582	101,632	577,343	561,544	15,799	833,251	255,908
Blue Earth	33,847	61	611	4,189	706,919	3,354,265	3,137,607	216,658	11,294,941	2,940,676
Brown	23,428	48	478	4,775	575,630	6,124,563	5,915,746	208,817	11,880,646	2,756,083
Carlton	21,232	28	1,516	9,726	1,817,210	6,517,440	6,236,122	281,318	11,047,977	4,630,537
Carver	16,936	36	299	3,481	299,329	6,579,817	2,239,231	156,686	3,410,422	1,014,505
Cass	15,691	20	55	416	53,195	434,072	428,533	5,539	580,139	146,067
Chippewa	15,782	13	118	500	122,987	1,059,808	1,039,520	20,288	1,316,076	250,268
Chisago	13,189	30	121	1,137	133,665	2,898,147	2,840,086	52,061	3,555,630	657,493
Clay	23,120	21	286	979	426,458	2,582,725	2,535,605	47,120	3,048,583	1,085,558
Clearwater	9,546	12	40	252	36,808	611,438	605,385	6,053	720,223	108,786
Cottonwood	14,782	9	20	110	22,695	477,496	470,464	7,032	592,822	114,886
Crow Wing	25,627	25	1,431	23,591	1,928,581	6,522,409	6,202,768	319,651	9,611,494	3,080,085
Dakota	34,592	32	4,320	20,475	5,644,749	108,952,509	108,079,658	902,851	126,063,131	17,080,622
Dodge	12,127	35	74	641	92,366	1,473,603	1,451,486	23,117	1,748,495	273,892
Douglas	13,313	28	92	507	119,029	3,509,526	3,476,142	33,384	3,939,260	429,734
Faribault	21,642	33	271	2,151	283,567	4,120,400	4,064,724	55,676	5,321,706	1,201,306
Hillmore	24,748	33	96	767	108,494	2,286,636	2,261,121	25,515	2,640,254	353,618
Freeborn	28,741	51	1,094	4,598	1,255,597	16,024,034	16,707,850	216,184	20,336,404	3,412,370
Goodhue	31,317	75	1,440	8,452	1,596,097	15,263,499	14,881,760	401,739	20,607,815	5,644,310
Grant	9,558	11	26	229	30,826	752,814	743,936	8,828	860,410	116,696

See footnotes at end of table.



CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR THE MINNEAPOLIS-ST. PAUL INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929—Continued

	Popula- tion, 1930	Number of estab- lish- ments	Wage earners (average for the year) 1	Horse- power 2	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELEC- TRIC ENERGY			Value of prod- ucts	Value added by manufac- ture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties 4—Continued</i>										
Hennepin 5	517,785	1,258	36,731	181,028	\$47,119,501	\$217,891,270	\$212,162,633	\$5,728,637	\$371,579,221	\$153,687,951
Houston	13,846	18	38	262	48,282	1,171,300	1,159,135	12,165	1,305,601	134,301
Hubbard	9,596	11	62	422	60,770	394,880	389,810	5,070	528,747	131,867
Isanti	12,081	10	48	348	62,976	932,253	916,744	15,509	1,133,892	201,639
Itasca	27,224	31	847	13,787	410,439	1,933,743	1,734,331	229,417	3,130,874	1,147,126
Jackson	15,893	20	57	790	65,279	849,382	830,430	18,952	1,058,355	208,073
Kanabeo	3,553	9	22	166	27,618	847,735	830,166	8,610	939,201	91,416
Kandiyohi	23,674	31	207	843	339,384	1,681,799	1,635,310	46,489	2,289,588	607,789
Kittson	9,638	8	11	64	14,056	320,134	316,988	3,146	362,189	42,064
Lac qui Parle	15,398	13	71	384	80,111	873,207	864,906	13,361	1,184,766	306,502
Lake of the Woods	4,194	4	25	54	27,027	93,441	92,623	818	155,479	62,033
Le Sueur	17,990	26	768	5,511	965,247	11,659,884	11,500,351	150,533	14,468,173	2,808,289
Lincoln	11,393	10	20	79	22,068	695,513	690,706	4,807	791,428	95,915
Lyon	19,326	28	169	623	219,159	2,194,823	2,161,428	33,395	2,737,466	542,643
McLeod	20,522	33	167	1,289	176,413	2,698,772	2,655,476	43,297	3,294,227	595,456
Mahnomen	6,153	6	18	137	18,099	271,791	269,299	2,492	314,366	42,575
Marshall	17,003	17	29	255	41,147	840,925	831,227	9,698	958,995	118,070
Martin	22,401	26	500	2,156	620,887	3,049,385	2,960,521	70,864	5,334,534	2,285,149
Meeker	17,914	33	129	782	122,873	2,417,396	2,390,917	26,479	2,893,331	476,985
Mille Lacs	14,076	16	47	303	61,074	1,644,377	1,632,016	12,361	1,812,626	168,249
Morrison	25,442	37	258	6,022	332,621	3,770,465	3,645,124	125,341	5,000,499	1,230,034
Murray	13,902	8	30	277	52,129	726,749	718,121	8,628	859,396	132,647
Nicollet	16,550	21	77	460	75,134	1,208,866	1,189,609	19,197	1,489,755	280,889
Norman	14,061	18	34	388	40,577	812,768	803,517	9,241	960,520	147,762
Olmsted	35,426	44	475	2,607	524,657	3,219,505	3,060,162	159,343	4,876,702	1,657,197
Otter Tail	51,006	59	355	2,084	399,297	5,414,627	5,337,175	77,452	6,721,360	1,306,733
Pennington	10,487	13	127	187	158,200	843,940	822,436	21,504	1,152,800	308,360
Pine	20,264	27	75	727	89,870	1,793,907	1,684,798	19,100	2,011,388	307,481
Pipestone	12,238	15	91	414	109,391	1,477,110	1,451,400	25,710	1,863,918	380,306
Polk	36,019	40	207	3,796	273,368	4,414,688	4,294,762	119,926	5,706,140	1,291,452
Pope	13,085	18	109	420	148,021	945,225	920,906	24,319	1,233,814	288,589
Ramsey 6	286,721	668	24,097	106,844	31,793,139	108,119,911	102,365,188	5,754,743	212,180,973	104,097,062
Red Lake	6,887	10	31	681	37,448	510,065	504,850	5,215	670,034	159,969
Redwood	20,620	17	74	439	85,031	1,162,435	1,136,349	26,089	1,372,212	209,774
Renville	23,645	28	102	1,135	114,208	1,987,921	1,954,962	32,959	2,600,235	521,314
Rice	29,974	52	943	4,411	1,031,630	8,165,982	7,971,659	194,323	11,419,999	3,254,017
Rock	10,962	6	30	113	53,869	570,804	561,627	9,177	689,074	118,270
Roseau	12,621	11	34	30	30,814	718,737	711,311	6,926	831,170	112,433
St. Louis 6	204,596	255	9,054	81,324	12,153,998	38,668,024	31,114,600	7,553,424	67,997,160	29,329,136
Scott	14,116	14	165	954	211,755	1,089,116	1,041,822	47,294	1,681,468	592,362
Sherburne	9,709	8	35	317	42,831	618,165	594,949	13,216	741,075	222,910
Sibley	15,865	21	128	702	135,702	2,687,541	2,567,684	19,857	3,061,571	474,030
Stearns	92,121	116	2,587	13,313	3,467,528	11,997,059	11,270,217	426,842	19,113,821	7,416,762
Steele	18,475	46	283	1,873	318,909	2,668,165	2,594,267	63,898	3,782,009	1,213,844
Stevens	10,185	12	30	247	38,400	414,708	407,944	6,764	523,730	109,022
Swift	14,735	18	79	933	94,425	2,024,713	1,993,980	30,733	2,441,859	417,146
Todd	20,170	23	284	1,089	469,765	2,770,449	2,723,890	46,550	3,784,481	1,014,032
Traverse	7,933	7	20	62	21,046	264,709	260,041	4,668	335,617	70,008
Wabasha	17,813	24	290	1,560	360,668	6,182,637	6,084,496	93,141	7,664,352	1,471,715
Wadena	10,990	20	69	400	80,784	1,611,949	1,595,873	16,076	1,857,755	245,806
Waseca	14,412	26	202	1,575	291,300	4,197,902	4,138,489	59,413	5,033,259	835,357
Washington	24,753	36	1,790	7,588	2,228,353	22,593,887	22,270,959	322,928	27,771,000	5,177,113
Watsonwan	12,892	21	101	822	151,453	1,417,481	1,382,832	34,649	1,736,519	319,038
Wilkin	9,791	6	145	228	236,526	438,993	408,173	30,820	720,394	281,401
Winona	35,144	82	2,043	10,425	2,321,328	16,779,137	16,380,204	398,933	23,720,361	6,941,224
Wright	27,119	47	216	1,511	241,036	3,098,820	3,058,405	40,415	3,876,511	777,691
Yellow Medicine	16,625	13	32	233	36,195	643,985	636,148	6,937	787,596	144,511
All other counties (Cook, Koochich- ing, Lake, Mower, and Nobles)	70,264	69	4,040	33,743	6,056,682	41,520,161	40,415,907	1,104,254	58,399,514	16,879,353
<i>Cities having 10,000 inhabitants or more 8</i>										
Duluth	101,463	193	6,633	70,804	9,135,760	34,395,606	26,696,738	7,398,868	58,903,568	24,507,962
Faribault	12,767	32	778	3,094	834,689	3,458,368	3,324,032	134,336	5,649,338	2,190,970
Hibbing	15,666	10	94	513	115,643	239,113	199,027	43,086	640,237	401,124
Mankato	14,038	39	563	3,852	643,318	6,921,933	6,720,155	201,778	9,642,227	2,720,294
Minneapolis 7	464,356	1,219	35,704	177,115	45,749,054	213,047,658	207,507,286	5,540,372	361,072,199	148,024,541
Rochester	20,621	20	307	1,425	374,272	1,787,109	1,646,484	140,625	3,073,148	1,280,039
St. Cloud	21,000	59	1,084	9,977	2,676,720	4,994,874	4,597,244	397,630	9,959,660	5,054,786
St. Paul 7	271,696	637	23,489	104,942	31,050,277	104,411,290	98,734,140	5,677,150	206,229,380	101,818,090
Winona	20,850	57	1,970	9,475	2,234,239	15,080,228	14,674,688	375,540	21,762,851	6,712,623

1 Not including salaried employees.  
 2 Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.  
 3 The Minneapolis-St. Paul Industrial Area comprises Dakota, Hennepin, and Ramsey Counties. For statistics by industries for the area and for Hennepin and Ramsey Counties, see Table 13.  
 4 Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.  
 5 For statistics by industries for this county, see Table 13.  
 6 Not including Albert Lea, Austin, Brainerd, South St. Paul, and Virginia, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments located either in the cities or outside the cities but within the counties in which the cities are situated.  
 7 For statistics by industries for this city, see Table 14.

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	126,409	103,592	22,817	2,178	2,076	102	3,144	3,006	138	17,673	11,860	5,813	103,414	86,650	16,764
1919 <sup>1,4</sup>	147,678	121,009	26,669	5,128	4,943	185	2,416	2,312	104	24,511	17,650	6,861	115,623	86,704	18,919
1914 <sup>4</sup>	115,690	100,158	15,532	5,233	5,071	162	1,731	1,681	50	16,892	12,711	3,181	92,834	80,685	12,139
1909	104,406	90,063	14,343	5,376	5,206	170	1,596	1,560	36	12,667	10,033	2,634	84,767	73,259	11,508

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 298; male, 294; female, 4. Other salaried officers and employees—total, 2,940; male, 2,149; female, 791. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1914 and 1919, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	103,414	<i>99,284</i>	101,291	102,020	101,693	102,695	104,063	105,254	107,533	<b>108,046</b>	104,659	103,023	99,901	92.4
1919 <sup>1</sup>	115,623	114,763	113,835	113,326	110,691	<i>109,439</i>	112,458	114,430	116,607	118,627	120,020	120,930	122,250	86.6
1914 <sup>1</sup>	92,834	98,336	100,110	96,982	92,417	92,257	92,810	92,007	91,128	89,739	90,525	89,202	83,865	88.9
1909 <sup>1</sup>	84,767	<i>79,918</i>	80,909	82,081	81,134	82,052	85,038	84,667	85,847	87,643	90,620	89,508	86,890	88.2

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	4,315	103,414	45 and over but under 48	196	6,398
Not reported	442	1,144	48	949	31,541
Under 40	58	143	Over 48 but under 54	515	19,185
40	49	2,417	54	410	6,762
Over 40 but under 44	39	246	Over 54 but under 60	203	9,776
44 and over but under 45	650	17,030	60 and over	795	8,772

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1910 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments	4,315	6,225	5,561	103,414	115,623	84,767	51 to 100	175	167	145	12,403	11,748	10,473
No wage earners	154	771	603				101 to 250	134	127	99	20,702	19,300	15,182
1 to 5	2,435	3,707	3,458	6,251	7,318	6,967	251 to 500	41	48	32	13,488	15,895	11,408
6 to 20	954	902	894	10,300	11,129	9,681	501 to 1,000	16	18	21	10,548	12,633	13,883
21 to 50	394	333	303	12,680	12,234	9,623	1,001 to 2,500	12		6	17,042	25,366	7,550
							2,501 and over		12				

CENSUS OF MANUFACTURES: 1929

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	4,315	6,225	5,501	103,414	115,623	84,767	\$1,173,213,606	\$1,218,129,735	\$409,410,621	\$404,995,277	\$335,039,958	\$127,797,334
Less than \$5,000.....	(2)	1,541	1,969	(2)	1,000	2,194	(2)	4,053,239	4,663,743	(2)	2,674,854	3,080,907
\$5,000 to \$19,999.....	1,359	1,753	1,743	3,292	4,507	6,767	15,202,076	21,302,797	18,742,099	9,580,178	13,440,914	9,419,792
\$20,000 to \$99,999.....	1,565	1,850	1,347	19,368	13,228	14,180	80,014,869	90,289,656	56,703,495	34,355,453	31,841,810	20,748,523
\$20,000 to \$49,999.....	844	(3)	(3)	4,382	(3)	(3)	27,685,043	(3)	(3)	14,476,107	(3)	(3)
\$50,000 to \$99,999.....	721	(3)	(3)	5,986	(3)	(3)	52,429,826	(3)	(3)	19,879,346	(3)	(3)
\$100,000 to \$499,999.....	1,047	783		24,736	24,092		218,087,708	157,105,175		80,351,751	58,274,724	
\$100,000 to \$249,999.....	757	(3)		11,489	(3)		117,142,311	(3)		38,726,100	(3)	
\$250,000 to \$499,999.....	290	(3)	437	13,247	(3)	37,726	101,845,397		130,802,555	41,625,651	(3)	51,618,580
\$500,000 to \$999,999.....	151	132		12,205	14,509		102,206,427	93,621,636		43,326,106	36,378,265	
\$1,000,000 and over.....	193	104	65	52,813	58,278	23,900	756,622,528	851,777,182	168,507,729	237,872,789	192,429,391	42,929,522
\$1,000,000 to \$2,499,999.....	119	(3)	(3)	19,148	(3)	(3)	178,033,785	(3)	(3)	72,412,922	(3)	(3)
\$2,500,000 to \$4,999,999.....	47	(3)	(3)	15,141	(3)	(3)	161,965,218	(3)	(3)	65,637,320	(3)	(3)
\$5,000,000 and over.....	27	(3)	(3)	18,524	(3)	(3)	416,623,523	(3)	(3)	90,422,547	(3)	(3)

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>2</sup> No data.  
<sup>3</sup> Not tabulated separately.

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	4,315	6,225	103,414	115,623	\$1,173,213,606	\$1,218,129,735	\$404,995,277	\$335,039,958
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	2,396	1,809	94,240	99,983	1,009,486,202	1,069,259,122	376,082,766	292,840,170
Other forms of ownership or control (individual, partnership, etc.).....	1,919	4,416	9,174	15,640	73,727,404	148,870,613	28,912,511	42,199,788
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	437	(1)	46,275	(1)	616,608,787	(1)	179,793,885	(1)
Independent (single-unit).....	3,878	(1)	57,139	(1)	556,604,819	(1)	225,201,392	(1)

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR THE MINNEAPOLIS-ST. PAUL INDUSTRIAL AREA AND IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Prime movers				Electric motors driven by purchased energy							
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Electric motors driven by purchased energy			
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower
The State;														
1929.....	606,704	323,804	1,168	115,160	257	110,731	163	20,813	113	77,110	37,534	282,900	10,059	161,687
1927.....	584,328	325,520	1,221	122,073	146	108,169	159	20,039	113	74,339	29,376	258,808	9,009	157,218
1925.....	608,021	299,074	1,388	133,336	128	90,220	203	20,510	110	55,908	23,985	208,047	8,636	154,518
1919 <sup>1</sup> .....	473,660	305,695	1,750	173,815	77	24,371	762	33,848	205	73,661	18,119	167,965	4,715	87,154
1914 <sup>1</sup> .....	358,163	236,939	2,190	206,144	(3)	(3)	959	7,454	313	73,341	10,001	71,224	2,777	49,794
Minneapolis-St. Paul Industrial Area (Dakota, Hennepin, and Ramsey Counties).....	308,347	151,344	326	57,557	122	48,695	32	2,012	34	43,080	22,306	157,003	5,056	40,887
Counties in which aggregate horsepower exceeded 25,000; 1929														
Hennepin.....	181,028	81,419	158	32,740	54	21,681	28	1,918	30	25,080	13,723	99,609	2,032	17,169
Koochiching.....	26,422	22,679	7	3,189	25	15,490	1	(4)	2	4,000	230	3,743	592	13,410
Ramsey.....	106,844	59,425	151	18,192	37	23,140	4	94	4	18,000	7,651	47,418	2,574	18,401
St. Louis.....	81,324	49,992	48	8,989	36	24,575	8	16,128	3	300	2,903	31,332	1,559	61,763

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1914 and 1919, the only years for which this industry was canvassed in connection with the census of manufactures.  
<sup>2</sup> Reported as "Steam engines and turbines."  
<sup>3</sup> Not reported separately. See footnote 2.  
<sup>4</sup> Item for internal-combustion engines included with that for steam engines to avoid disclosing data for a single establishment.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

[This table presents statistics for each county for which separate figures are given in Table 2. See footnote 4 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State	606,704	323,804	282,900	161,667	Marshall	255	144	111	
Aitkin	621	503	118		Martin	2,156	166	1,990	
Anoka	4,097	1,878	2,219	5	Meeker	782	465	317	125
Becker	1,002	543	459		Mille Lacs	303	110	184	
Beltrami	3,376	1,260	2,116	200	Morrison	6,022	2,802	3,220	56
Benton	10,741	9,738	1,003	4,000	Murray	277	140	137	
Big Stone	582	300	282		Nicollet	460	202	258	
Blue Earth	4,189	1,602	2,587	392	Norman	388	288	100	
Brown	4,775	3,917	858	1,757	Olmsted	2,607	785	1,822	260
Carlton	9,726	3,838	5,888	1,700	Otter Tail	2,084	731	1,353	158
Carver	3,481	1,947	1,534	549	Pennington	187	68	119	
Cass	416	336	80	7	Pine	727	254	473	253
Chippewa	500	32	468		Pipestone	414	45	369	
Chisago	1,137	403	734		Polk	3,796	2,730	1,000	1,906
Clay	979	677	302	278	Pope	420	266	154	
Clearwater	252	209	43		Ramsey	106,844	50,426	47,418	18,401
Cottonwood	110	10	100	9	Red Lake	581	512	60	
Crow Wing	23,591	23,040	551	18,381	Redwood	439	165	274	
Dakota	20,475	10,499	9,976	5,317	Renville	1,135	600	635	
Dodge	641	411	230		Rice	4,411	2,411	2,000	944
Douglas	567	268	299		Rock	113	20	93	
Faribault	2,151	1,118	1,033	90	Roseau	293	244	40	
Fillmore	757	334	423		St. Louis	81,324	49,992	31,332	61,763
Freeborn	4,508	902	3,606		Scott	954	25	929	12
Goodhue	8,452	1,766	6,686		Sherburne	317	27	290	
Grant	229	57	172		Sibley	702	378	324	8
Hennepin	181,028	81,419	99,609	17,169	Stearns	13,313	2,059	11,254	153
Houston	262	195	67		Steele	1,478	478	1,402	
Hubbard	422	210	212		Stevens	247	152	95	
Isanti	348	138	210		Swift	933	729	204	117
Itasca	13,737	9,001	4,736	6,302	Todd	1,089	649	440	
Jackson	790	610	180		Traverse	62	10	52	
Kanabec	166	47	119		Wabasha	1,560	274	1,286	
Kandiyohi	848	482	366		Wadena	409	166	243	
Kittson	64	46	18		Waseca	1,675	213	1,362	100
Lac qui Parle	384	120	264		Washington	7,588	1,046	6,542	604
Lake of the Woods	54	25	29		Watsonwan	822	57	765	
Le Sueur	5,511	3,840	1,671	633	Wilkin	228	123	105	
Lincoln	79	15	64		Winona	10,425	2,637	7,788	720
Lyon	623	70	553		Wright	1,511	618	893	12
McLeod	1,289	610	770		Yellow Medicine	233	22	211	
Mahnomen	137	92	45		All other counties (Cook, Koochiching, Lake, Mower, and Nobles)	33,743	29,260	4,483	19,286

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds)	2,965,300	\$14,743,852	2,653,235	3,259,704	2,529,596	1,448,480	1,192,879
Anthracite (tons, 2,240 pounds)	82,662	449,619	( <sup>3</sup> )	102,303	41,074	42,659	39,752
Bituminous (tons, 2,000 pounds)	2,872,719	14,294,233	( <sup>3</sup> )	3,145,215	2,483,593	1,400,702	1,148,357
Coke (tons, 2,000 pounds)	464,538	2,968,696	( <sup>4</sup> )	( <sup>4</sup> )	440,452	101,018	108,384
Fuel oils, including crude oils and gas oils (gallons) <sup>4</sup>	31,829,859	1,689,391	( <sup>4</sup> )	( <sup>4</sup> )	12,291,762	12,758,256	8,830,374
Gasoline and kerosene (gallons) <sup>4</sup>	342,447	51,326	( <sup>4</sup> )	( <sup>4</sup> )	1,471,890		
Gas, natural (M cubic feet)			( <sup>4</sup> )	( <sup>4</sup> )			
Gas, manufactured (M cubic feet)	14,384,487	950,634	( <sup>4</sup> )	( <sup>4</sup> )	1,438,853	84,463	69,915
Other fuels		386,166	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours)	383,944,690	6,093,993	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Total cost of fuel and purchased energy		\$26,884,058	Cost	Cost	Cost	Cost	Cost
			\$25,860,253	( <sup>5</sup> )	\$22,432,478	\$8,007,964	\$6,190,588

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.

<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

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

<sup>4</sup> No data.

<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.

<sup>6</sup> Data incomplete.

<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.

<sup>8</sup> Not reported separately.

## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total	4,315	20,817	103,414	323,804	282,900	47,724,098	132,418,195	741,464,482	20,763,847	1,173,213,606	404,995,277
Awings, tents, sails, and canvas covers	15	50	125		72	110,177	133,911	340,716	5,980	734,690	388,000
Beverages	93	232	634	2,204	1,691	507,738	787,805	1,534,191	184,692	4,724,457	3,005,874
Bookbinding and blank-book making	18	32	149		158	51,573	181,222	189,108	6,778	663,715	407,769
Boots and shoes, other than rubber	10	130	1,047		852	200,630	1,044,880	2,776,393	43,504	5,318,923	2,409,026
Boxes, paper, not elsewhere classified	17	164	781		2,339	394,070	812,882	2,937,027	53,645	5,015,112	2,024,440
Boxes, wooden, except cigar boxes	21	39	582		1,529	131,928	608,649	1,814,245	30,478	3,202,226	1,351,503
Bread and other bakery products	438	408	3,891	1,602	5,291	892,999	4,255,308	12,066,210	552,840	26,531,663	18,962,608
Brooms	11	6	75		55	10,817	96,274	148,093	2,566	331,886	180,627
Butter	823	1,232	2,655	9,645	14,147	1,280,647	3,413,367	113,737,410	1,039,117	128,704,939	13,928,462
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	42	234	1,787	1,255	4,245	577,291	1,587,974	5,948,170	140,016	11,208,556	5,120,370
Car and general construction and repairs, steam-railroad repair shops	61	889	11,765	12,153	14,168	2,213,967	18,160,019	14,351,295	1,087,374	35,839,054	20,400,385
Carrriages, wagons, sleighs, and sleds	5	29	207	200	565	86,425	238,338	577,000	24,735	1,030,139	478,404
Caskets, coffins, burial cases, and other morticians' goods	8	43	150	308	295	132,761	187,177	626,097	10,249	1,322,969	680,623
Cheese	52	37	77	340	143	28,255	103,176	1,700,205	25,432	2,028,416	802,719
Cigars and cigarettes	22	26	281		41	61,829	297,156	376,848	5,507	975,234	592,879
Clay products (other than pottery) and nonclay refractories	18	72	510	2,445	2,298	202,836	526,657	122,946	320,560	1,621,985	1,178,479
Cleaning and polishing preparations	8	21	20		20	29,711	144,848	16,335	464	230,458	145,146
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified)	46	204	2,128		482	525,643	2,377,092	6,408,853	61,451	11,111,774	4,641,470
Clothing, women's, not elsewhere classified	29	109	831		173	238,403	630,374	2,206,301	16,636	4,085,463	1,802,510
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts, men's)	15	83	867		296	176,256	715,975	1,888,684	17,256	3,329,710	1,423,770
Coffee and spice, roasting and grinding	19	85	188		997	230,624	203,017	6,594,728	43,822	8,360,722	1,722,174
Compressed and liquefied gases	19	86	62	122	1,504	151,852	99,396	280,719	79,862	1,236,800	930,219
Concrete products	88	101	423	399	2,255	192,119	496,864	1,134,324	58,412	2,487,733	1,244,997
Condensed and evaporated milk	11	42	119	363	1,165	77,178	146,738	3,319,755	104,371	4,607,509	1,243,383
Confectionery	50	187	1,132	1,030	1,175	447,818	851,489	3,853,729	100,656	7,037,592	3,127,807
Copperage	5	17	216	745	402	68,624	258,010	980,723	18,978	1,419,527	419,821
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	55	192	874		1,393	483,703	1,080,271	2,467,405	56,308	5,893,693	3,369,920
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies	11	49	125	50	248	86,569	121,267	327,778	9,632	724,460	387,080
Dental goods and equipment	3	19	11		52	69,216	30,520	752,709	4,599	1,203,306	445,938
Doors, shutters, and window sash and frames, metal	3	42	101		337	121,848	246,599	374,791	16,303	883,872	492,778
Druggists' preparations	9	18	36		55	39,947	41,434	134,220	5,992	390,126	240,014
Electrical machinery, apparatus, and supplies	37	351	1,280	120	2,805	905,674	1,604,557	4,993,599	128,466	11,022,462	5,900,487
Electroplating	11	9	84		189	14,442	59,019	55,019	13,178	287,410	221,213
Engines, turbines, tractors, and water wheels	8	156	402	50	1,192	421,018	610,944	1,159,156	37,902	3,180,949	1,933,891
Engraving, steel and copperplate, and plate printing	7	23	88		63	35,320	94,125	93,701	1,900	350,497	254,887
Envelopes	8	64	298		259	95,354	276,546	572,516	8,627	1,334,221	753,078
Fancy and miscellaneous articles, not elsewhere classified	6	18	177		37	42,093	118,673	283,064	6,588	733,772	444,120
Feeds, prepared, for animals and fowls	20	144	224	168	4,643	365,422	293,110	8,099,924	85,762	10,325,355	2,675,672
Flavoring extracts and flavoring sirups	11	27	66		74	67,056	79,020	384,450	6,824	641,021	249,798
Flour and other grain-mill products	108	454	3,535	73,249	38,448	1,474,149	5,109,732	129,996,012	1,334,353	158,963,156	27,632,791
Food preparations, not elsewhere classified	9	22	121	215	520	114,700	122,029	1,089,541	27,693	1,619,983	502,749
Foundry and machine-shop products, not elsewhere classified	181	1,316	5,820	2,937	22,783	3,411,555	8,249,025	13,000,434	801,325	37,411,520	23,600,761
Fur goods	51	140	578		163	377,559	1,015,018	2,766,431	27,052	5,320,532	2,527,049
Furniture, including store and office fixtures	63	317	2,052	823	2,943	852,048	2,667,700	4,814,629	118,485	10,239,775	5,306,684
Gas and electric fixtures; lamps, lanterns, and reflectors	7	17	50		100	19,925	40,086	52,973	1,943	120,808	74,892
Gas, manufactured, illuminating and heating	21	332	479	5,931	2,046	634,029	720,703	631,014	2,192,251	6,848,234	4,024,969
Glass products (except mirrors) made from purchased glass	6	16	50		26	37,081	80,911	69,811	2,423	233,095	160,861
Grease and tallow, not including lubricating greases	4	2	16		120	(*)	23,184	115,813	7,221	219,742	89,708
Hand stamps and stanolls and brands	9	22	48		44	46,221	68,274	63,188	3,287	265,515	202,040
Hats and caps, except felt and straw, men's	8	16	88		16	25,758	114,860	290,908	2,087	524,838	230,693
House-furnishing goods, not elsewhere classified	10	37	100		63	67,955	108,816	487,195	3,108	891,132	400,829
Ice cream	49	132	417	250	3,102	407,673	695,737	2,674,627	164,975	6,157,504	3,328,072
Ice, manufactured	10	72	83	199	3,327	172,528	118,143	21,887	125,329	6,157,504	574,874
Jewelry	20	79	231		72	149,063	307,090	357,080	6,983	1,056,867	722,554
Knit goods	14	376	2,102	2,009	567	945,277	2,031,320	4,483,593	82,222	10,905,859	6,340,044
Lubricating oils and greases, not made in petroleum refineries	3	18	35		101	67,453	46,827	137,884	9,492	338,393	191,017
Lumber and timber products, not elsewhere classified	86	177	4,412	10,073	2,664	447,198	4,744,703	6,621,464	94,444	14,744,351	8,028,443
Macaroni, spaghetti, vermicelli, and noodles	6	35	111		482	93,274	106,755	559,332	23,469	1,271,102	688,301
Machine-tool accessories and small metal-working tools, not elsewhere classified	6	13	142		229	51,704	200,460	72,738	7,890	436,174	355,906
Marble, granite, slate, and other stone products	65	230	1,781	808	12,758	654,189	2,645,673	1,903,213	326,745	7,708,151	5,473,192
Mattresses and bed springs, not elsewhere classified	11	87	454	407	872	191,868	489,868	1,827,392	30,637	2,987,046	1,123,017
Meat packing, wholesale	16	1,274	6,936	16,205	13,150	2,423,375	9,058,252	173,040,281	1,227,250	201,156,942	26,888,411
Millinery	7	23	161		30	60,904	134,453	258,074	6,311	644,968	279,693
Mirror and picture frames	3	11	36		37	24,597	52,434	61,975	5,151	234,354	167,228
Mirrors, framed and unframed	5	12	37		90	25,275	56,020	93,837	3,113	236,886	139,936
Models and patterns, not including paper patterns	10	6	55		146	20,725	83,360	31,356	2,804	178,410	144,250

See footnotes at end of table.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
Motor-vehicle bodies and motor-vehicle parts	10	71	447	-----	884	Dollars 190,643	Dollars 617,863	Dollars 1,008,348	Dollars 26,690	Dollars 2,686,605	Dollars 1,551,567
Nonferrous-metal alloys and products, not including aluminum products	16	42	188	-----	607	125,408	249,503	1,642,952	43,971	2,406,592	719,669
Oil, cake, and meal, linseed	6	41	575	1,950	5,073	101,027	824,620	21,635,590	248,101	28,611,825	6,728,134
Paints and varnishes	27	186	261	90	1,280	423,483	362,136	2,381,744	40,513	4,061,970	1,639,713
Paper	8	214	1,901	71,370	11,955	575,726	2,621,774	11,168,971	1,800,228	21,604,107	8,634,908
Pulp (wood and other fiber)	5	43	653	-----	-----	107,160	841,078	3,644,327	316,815	6,712,776	2,751,634
Patent or proprietary medicines and compounds	84	207	216	-----	282	451,084	208,470	1,479,401	14,885	4,358,930	2,864,554
Perfumes, cosmetics, and other toilet preparations	21	279	440	-----	930	616,431	428,799	1,893,467	35,855	5,695,644	3,666,322
Photo-engraving, not done in printing establishments	13	85	230	-----	120	279,081	454,465	148,448	11,692	1,262,634	1,102,494
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	79	446	2,177	6,148	5,474	1,067,022	2,858,262	5,283,637	136,833	11,473,259	6,052,789
Poultry killing, dressing, and packing, wholesale	35	121	650	177	900	186,123	548,918	7,791,416	68,490	9,609,192	1,649,256
Printing and publishing, book and job	241	1,230	3,594	85	4,508	2,997,763	4,803,010	5,677,951	201,643	21,078,954	15,199,360
Printing and publishing, newspaper and periodical	408	2,806	2,994	181	5,965	5,331,881	4,949,711	7,042,016	292,743	31,707,019	24,372,260
Printing materials, not including type or ink	3	6	10	-----	13	14,320	16,360	15,081	1,887	81,149	64,681
Pumps (hand and power) and pumping equipment	6	45	266	80	382	112,161	284,238	552,611	14,141	1,560,476	993,724
Refrigerators and refrigerator cabinets exclusive of mechanical refrigerating equipment	6	140	1,160	1,500	1,311	475,312	1,315,973	2,307,455	120,121	6,012,170	3,494,594
Saddlery and harness	11	55	152	-----	187	95,888	168,434	601,883	7,651	1,059,937	449,603
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	16	34	132	-----	800	99,178	189,769	1,856,640	38,956	2,493,553	497,957
Ship and boat building, steel and wooden, including repair work	11	10	110	07	305	20,600	161,939	99,261	9,130	349,452	241,061
Shirts	6	14	57	-----	19	29,883	46,830	95,636	882	282,793	168,245
Signs and advertising novelties	46	359	1,916	2,285	533	840,724	2,155,008	2,307,113	52,465	9,242,731	6,793,153
Soap	6	24	30	40	75	55,403	37,703	252,994	5,693	522,111	269,424
Sporting and athletic goods, not including firearms or ammunition	6	23	60	-----	196	40,292	74,062	181,051	4,186	386,304	201,067
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	5	9	53	-----	82	24,135	48,755	121,961	5,312	275,177	147,904
Statuary and art goods, factory product	4	8	34	-----	14	22,474	59,479	26,954	1,897	166,694	137,843
Steel barrels, kegs, and drums	5	50	247	-----	337	141,990	312,476	868,001	17,087	1,923,636	1,037,948
Stereotyping and electrotyping, not done in printing establishments	5	15	60	-----	368	33,664	128,897	39,415	9,195	340,796	292,186
Stoves and ranges (other than electric) and warm-air furnaces	16	275	713	-----	1,868	525,446	843,667	1,801,012	98,696	4,402,167	2,502,459
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	18	185	693	255	1,894	434,324	1,116,333	1,959,683	64,603	4,648,627	2,624,341
Surgical and orthopedic appliances, including artificial limbs	12	41	64	-----	108	68,558	85,647	68,936	4,464	340,345	266,945
Suspenders, garters, and other elastic woven goods, made from purchased webbing	4	4	19	-----	6	4,847	14,488	30,231	636	78,957	48,190
Tools, not including edge tools, machine tools, files, or saws	14	50	305	-----	1,514	160,114	363,164	318,785	53,458	1,793,141	1,420,898
Toys (not including children's wheel goods or sleds), games, and playground equipment	7	18	129	-----	268	86,559	163,784	186,820	7,571	754,825	560,434
Trimnings (not made in textile mills) and stamped art goods for embroidering	6	15	62	-----	14	35,702	54,655	110,417	1,575	267,828	155,536
Trunks, suitcases, and bags	8	13	57	-----	35	27,670	72,331	164,952	2,895	334,489	166,642
Wall plaster, wall board, insulating board, and floor composition	6	98	336	1,230	5,282	211,474	429,479	1,000,801	149,226	3,397,064	2,247,037
Window shades and fixtures	5	8	17	-----	3	10,983	16,906	58,898	449	121,082	61,735
Wirework, not elsewhere classified	10	21	132	-----	229	92,908	140,131	434,048	21,446	897,926	442,432
Wood preserving	16	121	869	786	1,815	315,258	1,204,503	11,244,731	130,164	16,329,511	4,954,616
Woolen goods	11	61	410	705	977	262,127	381,768	1,492,632	37,082	2,854,558	1,324,844
Other industries	228	2,436	16,638	83,652	53,689	6,487,518	21,071,952	90,920,618	11,606,365	179,077,350	76,560,367

<sup>a</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>1</sup> Not including data for 3,235 employees of central administrative offices, with salaries aggregating \$7,279,321. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>2</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE MINNEAPOLIS-ST. PAUL INDUSTRIAL AREA AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929

[This table presents, for the Minneapolis-St. Paul Industrial Area (see GENERAL EXPLANATIONS—Industrial Area) and for each important industrial county in the State, with one exception, the reason for which is given in an explanatory note, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>MINNEAPOLIS-ST. PAUL INDUSTRIAL AREA</b>											
[This area comprises Dakota, Hennepin, and Ramsey Counties. The totals for all industries do not include data for a few establishments located outside the industrial area (see footnotes 1, 2, and 4), and therefore are slightly smaller than the sums of the items for the individual industries.]											
All industries, total.....	1,958	13,825	65,148	151,344	157,003	\$33,785,903	\$84,402,389	\$422,607,459	\$12,386,231	\$709,829,325	\$274,835,635
Awnings, tents, sails, and canvas covers.....	10	38	102		42	65,064	108,686	293,642	3,907	620,871	323,322
Beverages.....	19	156	418	1,380	999	365,207	529,929	1,017,292	132,489	3,166,181	2,016,400
Bookbinding and blank-book making <sup>1</sup> .....	13	32	149		163	51,573	181,222	189,168	6,778	603,715	407,709
Boots and shoes, other than rubber.....	5	39	201		208	50,880	307,401	902,545	13,957	1,715,572	799,070
Boxes, paper, not elsewhere classified.....	13	150	711		2,255	336,519	757,499	2,794,512	48,814	4,763,051	1,919,725
Boxes, wooden, except cigar boxes.....	13	27	272	300	810	74,408	274,826	732,680	21,927	1,459,908	705,361
Bread and other bakery products.....	205	295	2,747	1,651	3,449	648,996	3,010,333	8,515,240	350,484	10,318,899	10,463,165
Brooms.....	6	5	50		33	9,517	63,361	96,774	1,559	222,115	123,782
Butter.....	29	132	280	363	1,699	262,803	353,440	13,226,800	74,204	14,979,534	1,678,481
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces.....	13	78	226	285	237	195,227	181,328	1,373,216	25,267	2,271,245	872,762
Car and general construction and repairs, steam-railroad repair shops.....	21	486	6,878	5,516	8,647	1,209,387	10,583,877	7,242,460	610,991	19,672,714	11,810,263
Carriages, wagons, sleighs, and sleds <sup>1</sup> .....	5	29	207		565	86,425	238,338	577,000	24,735	1,080,139	478,404
Cigars and cigarettes.....	8	21	230		37	45,329	197,745	313,349	4,585	818,906	500,972
Cleaning and polishing preparations.....	8	21	20		20	29,711	16,335	144,848	404	290,458	195,146
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	38	149	1,692		391	411,728	1,998,555	5,291,276	49,760	9,146,466	3,805,430
Clothing, women's, not elsewhere classified.....	29	109	831		173	235,403	630,374	2,266,301	16,636	4,085,453	1,802,516
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	9	57	602		215	121,017	561,086	1,514,002	12,327	2,587,639	1,080,710
Concrete products.....	35	53	177	70	1,105	95,698	235,272	810,211	32,312	1,458,947	406,424
Condensed and evaporated milk.....	4	11	61	103	542	27,705	82,110	1,802,236	39,390	2,525,808	684,182
Confectionery.....	42	161	929	780	891	389,636	709,378	3,238,089	81,539	5,990,104	2,670,466
Copperage.....	5	17	216	745	402	58,624	258,010	950,728	18,978	1,419,527	410,821
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	41	131	645		713	321,665	794,789	1,784,243	39,881	4,336,721	2,512,897
Dental goods and equipment.....	3	19	11		52	69,216	30,520	762,760	4,690	1,208,306	445,938
Doors, shutters, and window sash and frames, metal.....	2	42	191		337	121,848	249,599	374,791	10,303	853,872	492,778
Druggists' preparations.....	9	18	36		55	39,647	41,434	134,220	5,992	390,126	240,014
Electrical machinery, apparatus, and supplies <sup>1</sup> .....	37	351	1,280	120	2,805	905,674	1,604,557	4,908,598	128,406	11,022,492	5,900,487
Electroplating <sup>2</sup> .....	11	6	84		180	14,442	101,856	53,019	13,178	237,410	321,213
Engraving, steel and copperplate, and plate printing.....	7	23	88		63	35,320	94,125	98,701	1,909	350,497	254,887
Envelopes.....	8	64	298		259	95,354	276,546	572,516	8,627	1,334,221	753,078
Fancy and miscellaneous articles, not elsewhere classified.....	6	18	177		37	42,093	118,673	263,064	6,588	733,772	444,120
Feds, prepared, for animals and fowls.....	14	142	200	168	4,108	361,222	276,267	7,792,414	80,673	10,432,025	2,568,038
Flavoring extracts and flavoring strups <sup>2</sup> .....	11	27	60		74	67,056	76,020	384,456	6,324	641,021	249,798
Flour and other grain-mill products.....	22	149	2,398	55,250	27,378	680,940	3,543,084	78,372,736	710,333	95,989,216	16,006,147
Foundry and machine-shop products, not elsewhere classified.....	132	1,133	4,635	2,727	17,757	2,636,255	6,699,154	10,693,252	623,704	31,169,687	19,906,731
Fur goods.....	43	126	508		152	338,716	930,443	2,615,403	22,889	4,718,304	2,180,012
Furniture, including store and office fixtures.....	51	250	1,672	678	2,057	705,310	2,208,586	4,137,205	88,058	8,506,662	4,370,309
Gas and electric fixtures; lamps, lanterns, and re-factors.....	7	17	50		100	19,925	40,086	52,973	1,943	129,808	74,802
Glass products (except mirrors) made from purchased glass.....	6	16	50		28	37,081	80,911	69,811	2,423	233,095	160,861
Grease and tallow, not including lubricating greases.....	4	2	16		120	(9)	23,184	115,813	7,221	212,742	89,708
Hand stamps and stencils and brands <sup>2</sup> .....	9	22	48		44	46,221	68,274	63,188	3,287	263,515	202,040
Ice cream.....	12	76	261		1,670	288,288	386,490	1,490,420	84,548	3,629,875	2,054,907
Ice, manufactured.....	5	60	41		2,701	154,803	79,595	5,915	107,114	556,633	443,604
Jewelry.....	17	40	166		67	70,703	232,674	265,880	4,617	762,611	492,114
Knit goods.....	10	368	2,116	2,000	432	930,856	1,987,633	4,380,552	76,621	10,701,002	6,233,829
Lubricating oils and greases, not made in petroleum refineries.....	3	18	35		101	67,453	46,827	137,884	9,492	338,993	191,017
Macaroni, spaghetti, vermicelli, and noodles.....	6	35	111		482	93,274	106,756	559,332	23,460	1,271,102	688,301
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	6	13	142		229	51,704	200,460	72,378	7,890	436,174	355,906
Marble, granite, slate, and other stone products.....	17	67	358	45	3,106	210,120	587,885	599,047	48,698	1,798,702	1,160,967
Mattresses and bed springs, not elsewhere classified <sup>1</sup> .....	11	87	454	407	872	191,868	489,868	1,827,392	36,637	2,987,046	1,123,017
Millinery.....	7	23	161		39	50,904	134,483	258,074	6,311	544,368	279,983
Mirror and picture frames.....	3	11	36		37	24,597	52,434	61,975	5,151	234,354	167,228
Mirrors, framed and unframed.....	5	12	37		90	25,275	56,020	93,337	3,113	230,386	139,936
Models and patterns, not including paper patterns <sup>2</sup> .....	10	6	55		146	20,725	83,360	31,850	2,804	178,410	144,250
Motor-vehicle bodies and motor-vehicle parts.....	11	65	378		706	177,287	521,538	886,816	23,894	2,274,566	1,364,566
Nonferrous-metal alloys and products, not including aluminum products <sup>2</sup> .....	16	42	185		697	125,408	249,503	1,642,952	43,971	2,406,692	719,669
Paints and varnishes.....	17	139	202	90	781	362,859	268,212	1,885,884	33,476	3,295,776	1,376,416
Paper.....	3	119	485	10,310	1,755	294,228	639,741	3,015,718	590,556	5,799,617	2,193,343
Patent or proprietary medicines and compounds.....	26	160	163		133	361,006	157,468	897,041	11,131	3,563,382	2,655,210
Photo-engraving, not done in printing establishments <sup>2</sup> .....	13	85	230		120	279,081	454,465	148,448	11,692	1,262,634	1,102,494
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	37	285	1,402	4,036	2,122	699,487	1,861,336	3,020,506	76,621	6,916,110	3,818,992
Poultry killing, dressing, and packing, wholesale.....	11	24	72		100	33,354	79,952	1,429,643	11,345	1,738,442	297,454
Printing and publishing, book and job.....	189	1,034	3,194	75	4,002	2,717,539	4,254,270	5,116,033	171,965	18,907,745	13,619,747
Printing and publishing, newspaper and periodical.....	105	2,093	1,678	150	3,358	3,816,644	3,097,036	5,539,285	160,038	23,283,638	17,694,816
Printing materials, not including type or ink.....	3	6	10		13	14,320	16,360	15,081	1,387	81,149	64,681

See footnotes at end of this section, p. 273.



TABLE 13.—GENERAL STATISTICS FOR THE MINNEAPOLIS-ST. PAUL INDUSTRIAL AREA AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
Refrigerators and refrigerating cabinets, exclusive of mechanical refrigerating equipment <sup>2</sup> .....	6	140	1,160	1,500	1,311	\$475,312	\$1,315,973	\$2,397,455	\$120,121	\$6,012,170	\$3,494,594
Saddlery and harness <sup>1</sup> .....	11	55	152	-----	187	96,388	168,434	601,883	7,551	1,059,037	440,603
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	13	27	112	-----	707	82,070	166,949	1,618,131	35,173	2,181,081	527,777
Ship and boat building, steel and wooden, including repair work.....	5	2	34	-----	94	( <sup>3</sup> )	36,845	52,904	1,125	103,455	49,426
Shirts.....	6	14	57	-----	19	29,833	46,330	93,630	882	262,793	168,245
Signs and advertising novelties <sup>4</sup> .....	46	359	1,915	2,285	533	840,724	2,155,008	2,397,113	52,465	9,242,731	6,798,153
Soap.....	6	24	36	40	75	55,403	37,703	252,994	5,003	522,111	263,424
Sporting and athletic goods, not including firearms or ammunition <sup>2</sup> .....	6	23	69	-----	196	40,292	74,062	181,051	4,186	386,304	201,067
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	5	9	53	-----	82	24,136	48,755	121,961	5,312	275,177	147,904
Statuary and art goods, factory product.....	4	8	34	-----	14	22,474	59,479	26,954	1,897	166,604	137,843
Steel barrels, kegs, and drums.....	5	50	247	-----	337	141,990	312,476	868,001	17,687	1,923,636	1,037,948
Stereotyping and electrotyping, not done in printing establishments.....	5	15	00	-----	368	33,654	128,897	39,415	9,105	340,796	292,186
Stoves and ranges (other than electric) and warm-air furnaces.....	11	66	247	-----	224	181,830	347,047	652,178	19,027	1,778,003	1,106,798
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills <sup>2</sup> .....	18	185	693	255	1,894	434,324	1,116,333	1,959,683	64,603	4,648,627	2,624,341
Surgical and orthopedic appliances, including artificial limbs <sup>2</sup> .....	12	41	64	-----	108	68,558	85,647	68,986	4,404	340,345	266,945
Tools, not including edge tools, machine tools, files, or saws.....	9	13	70	-----	157	25,087	95,102	101,756	8,244	720,351	610,851
Trunks, suitcases, and bags <sup>2</sup> .....	3	13	57	-----	35	27,670	72,331	164,952	2,895	334,489	166,642
Window shades and fixtures.....	5	8	17	-----	3	10,983	16,906	58,898	449	121,682	61,786
Other industries.....	303	3,372	18,772	59,800	47,948	8,671,620	23,838,815	211,561,498	7,151,614	316,112,238	97,399,126

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside the Minneapolis-St. Paul Industrial Area have been included with those for the area, as specified in footnotes 1, 2, and 4, to avoid disclosing data reported by individual establishments.

<sup>1</sup> Includes data for 2 establishments located outside the Minneapolis-St. Paul Industrial Area.  
<sup>2</sup> Includes data for 1 establishment located outside the Minneapolis-St. Paul Industrial Area.  
<sup>3</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."  
<sup>4</sup> Includes data for 3 establishments located outside the Minneapolis-St. Paul Industrial Area.

DAKOTA COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Meat packing, wholesale"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	32	694	4,320	10,490	9,976	\$1,464,335	\$5,544,749	\$108,079,658	\$902,851	\$126,063,131	\$17,080,622
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HENNEPIN COUNTY

[The totals for all industries do not include data for a few establishments located outside the county (see footnotes 5 and 6), and therefore are slightly smaller than the sum of the items for the individual industries.]

All industries, total.....	1,258	7,957	36,731	81,419	99,609	\$20,106,709	\$47,119,501	\$212,162,633	\$5,728,637	\$371,579,221	\$153,687,951
Beverages.....	14	25	114	-----	-----	47,412	143,345	261,016	13,363	749,496	474,227
Boxes, wooden, except cigar boxes.....	9	20	156	-----	-----	58,266	158,041	572,085	13,191	1,016,959	431,683
Bread and other bakery products.....	135	224	1,847	1,096	2,031	502,546	1,966,015	5,446,163	241,077	12,614,482	6,926,642
Butter.....	16	48	122	38	1,203	104,502	162,376	5,433,844	29,719	6,247,840	784,277
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	6	61	118	35	91	157,655	98,119	732,182	13,485	1,182,138	436,471
Car and general construction and repairs, steam-railroad repair shops.....	7	219	3,631	3,206	3,631	564,410	5,542,333	4,118,893	330,831	10,556,467	6,106,743
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	23	106	685	-----	153	296,990	980,697	2,696,582	23,873	4,605,408	1,884,953
Clothing, women's, not elsewhere classified.....	21	89	609	-----	141	197,855	441,516	1,625,868	11,810	2,081,540	1,843,871
Coffee and spice, roasting and grinding.....	12	54	112	-----	519	150,154	133,825	4,052,018	30,811	5,056,421	972,992
Concrete products.....	25	35	123	38	874	58,478	170,129	692,844	23,585	1,144,337	427,008
Confectionery.....	27	103	594	225	629	245,020	486,354	2,446,388	55,742	4,373,648	1,871,518
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	29	79	457	-----	459	189,405	569,532	1,223,191	26,017	2,991,094	1,741,886
Druggists' preparations.....	5	8	23	-----	35	18,531	26,565	78,443	1,371	236,313	156,499
Electrical machinery, apparatus, and supplies <sup>5</sup> .....	20	206	1,021	120	1,525	796,870	1,329,037	3,574,771	88,035	8,461,295	4,798,489
Envelopes.....	4	33	136	-----	131	62,050	117,513	216,311	4,079	617,045	396,655
Feeds, prepared, for animals and fowls.....	9	129	180	13	3,909	335,477	248,219	7,543,525	75,864	10,086,351	2,466,902
Flavoring extracts and flavoring sirups.....	7	19	34	-----	30	50,790	38,053	206,795	2,338	385,416	176,283

See footnotes at end of this section, p. 274.

CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE MINNEAPOLIS-ST. PAUL INDUSTRIAL AREA AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>HENNEPIN COUNTY—Continued</b>											
Flour and other grain-mill products.....	17	114	2,221	55,150	24,520	\$589,359	\$3,283,453	\$70,228,603	\$606,046	\$36,463,821	\$15,629,172
Foundry and machine-shop products, not elsewhere classified.....	94	771	2,631	152	11,259	1,809,127	3,664,836	7,310,904	282,247	19,306,827	11,773,676
Fur goods.....	29	64	234	—	69	157,252	360,538	1,040,930	9,477	1,930,574	883,167
Furniture, including store and office fixtures.....	40	183	1,304	78	1,675	557,909	1,727,538	3,524,118	61,975	6,951,917	3,365,824
Hand stamps and stencils and brands.....	4	9	27	—	29	19,953	38,315	35,007	2,177	130,534	102,350
Jewelry.....	11	38	153	—	50	67,722	213,352	251,754	4,531	684,965	428,630
Marble, granite, slate, and other stone products.....	9	32	207	45	1,007	126,360	338,319	370,629	22,935	1,050,835	657,271
Mattresses and bed springs, not elsewhere classified.....	5	60	247	407	400	130,613	266,141	914,820	22,337	1,600,883	753,720
Mirror and picture frames.....	3	11	36	—	37	24,597	52,434	61,975	5,151	234,354	167,228
Models and patterns, not including paper patterns.....	7	6	46	—	114	20,725	65,867	21,351	2,387	142,783	119,045
Nonferrous-metal alloys and products, not including aluminum products.....	10	21	141	—	301	62,787	171,009	698,646	22,997	1,091,228	369,585
Paints and varnishes.....	10	109	154	90	456	290,074	205,071	1,361,303	24,951	2,452,540	1,066,286
Patent or proprietary medicines and compounds.....	16	83	98	—	115	249,937	95,812	708,406	8,447	2,561,076	1,844,223
Photo-engraving, not done in printing establishments.....	8	37	101	—	47	149,556	202,740	64,580	6,539	615,284	544,185
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	22	228	1,108	2,936	1,127	574,634	1,473,952	2,064,370	53,124	4,985,143	2,807,649
Poultry killing, dressing, and packing, wholesale.....	7	12	42	—	40	19,554	44,712	1,069,624	7,240	1,278,658	201,794
Printing and publishing, book and job.....	121	540	1,826	—	2,368	1,327,781	2,475,722	2,996,858	101,180	10,262,618	7,154,580
Printing and publishing, newspaper and periodical.....	59	1,079	905	150	2,226	2,233,286	1,667,879	3,081,574	75,020	12,919,178	9,762,584
Saddlery and harness.....	5	15	77	—	89	39,325	73,959	299,400	3,055	497,412	194,967
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments <sup>c</sup> .....	9	20	65	—	448	60,990	104,691	986,292	21,268	1,361,499	353,939
Signs and advertising novelties.....	30	60	250	—	174	151,840	297,056	344,073	8,137	1,118,118	765,908
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	14	159	530	250	1,466	359,546	954,044	1,651,220	54,891	3,947,658	2,241,542
Surgical and orthopedic appliances, including artificial limbs.....	9	39	61	—	105	64,490	80,934	62,983	4,392	308,332	240,952
Tools, not including edge tools, machine tools, files, or saw <sup>d</sup> .....	9	13	70	—	157	25,087	95,102	101,766	3,244	720,351	610,351
Trunks, suitcases, and bags.....	5	11	45	—	23	23,350	50,715	141,219	2,390	273,989	130,410
Other industries.....	332	2,691	13,879	17,390	34,001	7,138,514	16,534,411	71,944,034	3,324,485	135,401,069	60,132,500

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside Hennepin County have been included with those for the county, as specified in footnotes 5 and 6, to avoid disclosing data reported by individual establishments.

<sup>c</sup> Includes data for 2 establishments located outside Hennepin County.

<sup>d</sup> Includes data for 1 establishment located outside Hennepin County.

**RAMSEY COUNTY**

[The totals for all industries do not include data for a few establishments located outside the county (see footnotes 7 and 9), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	668	5,174	24,097	59,426	47,418	\$12,214,859	\$31,798,139	\$102,365,168	\$5,754,743	\$212,186,973	\$104,067,062
Beverages.....	5	131	304	1,380	763	317,795	386,584	755,376	119,136	2,410,085	1,542,173
Boxes, wooden, except cigar boxes.....	4	7	116	300	227	10,140	116,784	160,595	8,736	443,009	273,678
Bread and other bakery products.....	65	71	887	555	1,405	144,550	1,033,978	3,040,183	108,057	6,656,642	3,507,402
Butter.....	9	73	135	325	200	135,836	153,245	6,001,369	20,169	6,087,143	599,605
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	7	17	108	250	140	37,672	83,209	641,034	11,782	1,089,107	436,291
Car and general construction and repairs, steam-railroad repair shops.....	14	267	3,247	2,310	5,016	644,977	5,041,044	3,123,587	280,160	9,116,247	5,712,520
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	15	43	707	—	238	114,738	1,017,858	2,594,694	25,887	4,541,058	1,920,477
Clothing, women's, not elsewhere classified.....	8	20	222	—	32	40,548	188,558	640,433	4,826	1,103,904	458,646
Confectionery.....	15	58	335	555	262	144,615	220,024	791,711	25,797	1,610,456	798,948
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	12	52	188	—	254	132,260	225,257	561,052	13,564	1,345,627	771,011
Druggists' preparations.....	4	10	13	—	20	21,116	14,869	55,777	4,621	153,813	93,415
Electrical machinery, apparatus, and supplies.....	8	55	259	—	1,370	108,804	275,520	1,418,828	40,371	2,661,197	1,101,998
Envelopes.....	4	31	162	—	128	33,304	159,028	356,205	4,548	177,176	356,423
Flavoring extracts and flavoring sirups <sup>e</sup> .....	4	8	32	—	44	10,266	40,967	177,664	4,486	255,605	73,455
Fur goods.....	14	62	274	—	83	181,464	579,855	1,468,473	13,412	2,778,730	1,280,845
Furniture, including store and office fixtures.....	11	62	368	600	382	147,901	481,048	613,087	26,083	1,643,745	1,004,575
Grease and tallow, not including lubricating greases.....	4	2	16	—	120	(9)	23,184	115,813	7,221	212,742	89,708
House-furnishing goods, not elsewhere classified.....	5	14	60	—	24	32,539	73,749	325,336	1,544	601,364	274,434
Jewelry.....	6	2	13	—	7	(9)	19,322	14,126	36	77,646	63,484
Marble, granite, slate, and other stone products.....	8	35	151	—	1,499	83,760	249,566	228,418	25,763	747,867	493,686
Paints and varnishes.....	7	30	48	—	325	71,885	63,141	524,581	8,525	843,236	310,130
Patent or proprietary medicines and compounds.....	10	67	65	—	18	111,069	61,656	188,635	2,684	1,002,306	810,987
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	16	57	294	1,100	995	124,853	387,384	950,136	23,497	1,930,976	951,343
Poultry killing, dressing, and packing, wholesale.....	4	12	30	—	60	13,800	35,240	300,019	4,105	459,784	95,660
Printing and publishing, book and job <sup>f</sup> .....	68	544	1,368	75	1,634	1,389,808	1,778,548	2,119,175	70,785	8,655,127	6,466,167
Printing and publishing, newspaper and periodical.....	41	909	750	—	1,066	1,569,541	1,389,679	2,431,207	73,322	10,240,646	7,736,117

See footnotes at end of this section, p. 275.

TABLE 13.—GENERAL STATISTICS FOR THE MINNEAPOLIS-ST. PAUL INDUSTRIAL AREA AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>RAMSEY COUNTY—Continued</b>											
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	4	7	47	-----	259	\$21,680	\$62,253	\$631,839	\$13,905	\$819,582	\$173,338
Signs and advertising novelties <sup>c</sup> .....	10	299	1,665	2,285	359	688,894	1,857,952	2,053,040	44,828	8,124,613	6,027,245
Wirework, not elsewhere classified.....	4	8	28	-----	33	47,400	29,137	109,907	1,955	213,846	101,984
Wood preserving.....	6	42	270	153	485	122,567	337,433	4,085,019	34,945	5,920,860	1,806,905
Other industries.....	276	2,200	12,048	40,538	29,931	5,738,342	15,521,045	65,982,225	4,724,133	120,024,054	58,917,996

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
 The figures for a few establishments located outside of Ramsey County have been included with those for the county, as specified in footnotes 7 and 9, to avoid disclosing data reported by individual establishments.  
<sup>c</sup> Includes data for 1 establishment located outside Ramsey County.  
<sup>d</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."  
<sup>e</sup> Includes data for 3 establishments located outside Ramsey County.

ST. LOUIS COUNTY

All industries, total.....	255	1,442	9,054	49,992	31,332	\$3,361,847	\$12,158,998	\$31,114,600	\$7,558,424	\$67,997,160	\$20,329,136
Beverages.....	7	21	51	650	101	60,910	60,412	130,380	10,524	418,290	277,386
Bread and other bakery products.....	43	40	385	-----	478	134,222	455,858	1,076,317	48,678	2,471,150	1,346,155
Butter.....	11	44	71	251	373	85,583	76,183	2,718,441	23,475	3,241,157	504,241
Car and general construction and repairs, steam-railroad repair shops.....	7	113	1,172	443	2,676	271,870	1,853,392	1,402,905	107,005	3,635,172	2,125,262
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	4	35	251	-----	49	71,384	221,849	540,455	6,378	1,029,818	482,985
Concrete products.....	6	5	34	40	48	17,111	40,620	94,947	3,270	211,317	113,100
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	26	122	-----	567	92,197	161,260	292,920	9,493	689,497	387,084
Foundry and machine-shop products, not elsewhere classified.....	13	75	505	45	2,570	234,098	712,475	1,139,458	52,127	2,901,662	1,710,077
Lumber and timber products, not elsewhere classified.....	10	73	1,635	7,905	-----	182,660	1,781,935	2,747,967	8,228	5,610,304	2,854,109
Marble, granite, slate, and other stone products.....	3	2	11	-----	75	(10)	14,627	18,297	900	61,995	42,798
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	7	41	166	665	823	92,297	225,236	361,594	16,035	806,670	429,047
Printing and publishing, book and job.....	23	47	172	-----	239	91,029	231,399	249,598	11,121	793,314	532,595
Printing and publishing, newspaper and periodical.....	25	295	240	-----	420	542,988	443,978	522,043	20,574	2,520,191	1,977,574
Other industries <sup>11</sup> .....	92	625	4,233	39,993	22,913	1,484,589	5,879,785	10,824,278	7,226,616	43,597,617	16,546,723

<sup>10</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."  
<sup>11</sup> The figures for this item include data for the "Iron and steel: Steel works and rolling mills" industry, which reported a larger number of wage earners than any other industry in the county, but for which separate figures can not be given without disclosing data for individual establishments.

CENSUS OF MANUFACTURES: 1929

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929

[This table presents, for each important industrial city in the State, with one exception, the reason for which is given in an explanatory note, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

DULUTH

[Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Meat packing, wholesale"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report]

All industries, total.....	193	1,244	6,633	42,768	23,036	\$2,890,787	\$0,135,760	\$26,096,738	\$7,398,868	\$58,903,568	\$24,507,962
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MINNEAPOLIS

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 1, 2, and 3), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	1,219	7,099	35,704	81,083	96,082	\$10,613,229	\$45,749,054	\$207,507,286	\$5,540,872	\$361,072,199	\$148,024,541
Beverages.....	14	25	114	-----	230	47,412	143,345	261,016	13,353	749,496	474,227
Boxes, wooden, except cigar boxes <sup>1</sup> .....	9	20	156	-----	583	58,260	158,041	572,085	13,191	1,016,959	431,683
Bread and other bakery products.....	129	219	1,777	1,095	1,927	489,071	1,886,741	5,245,558	223,408	12,284,330	6,785,373
Butter.....	10	41	110	-----	1,114	98,501	147,307	5,115,700	24,328	5,856,109	716,141
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	6	61	118	35	91	157,655	98,119	732,182	13,485	1,182,138	436,471
Car and general construction and repairs, steam-railroad repair shops.....	7	219	3,631	3,206	3,631	584,410	5,542,383	4,118,893	330,831	10,556,467	6,106,743
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	23	108	985	-----	153	286,990	980,607	2,696,582	23,873	4,605,408	1,884,953
Clothing, women's, not elsewhere classified.....	21	89	609	-----	141	197,855	441,516	1,625,868	11,810	2,981,549	1,343,871
Coffee and spice, roasting and grinding.....	12	54	112	-----	519	150,154	133,825	4,052,618	30,811	5,056,421	972,992
Concrete products.....	19	30	105	30	670	52,573	136,774	652,701	19,237	1,036,621	364,683
Confectionery.....	27	103	594	225	629	245,020	486,354	2,446,388	65,742	4,373,648	1,871,518
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	29	79	457	-----	459	189,405	569,532	1,223,191	26,017	2,991,094	1,741,886
Druggists' preparations.....	5	8	23	-----	35	18,531	26,565	78,443	1,371	236,313	156,499
Electrical machinery, apparatus, and supplies <sup>1</sup> .....	29	295	1,021	120	1,525	796,870	1,320,037	3,574,771	88,035	8,461,295	4,798,489
Envelopes.....	4	33	136	-----	131	62,050	117,518	210,311	4,079	617,046	396,655
Feeds, prepared, for animals and fowls.....	9	129	180	13	3,909	335,477	248,219	7,543,525	75,864	10,086,361	2,466,962
Flavoring extracts and flavoring strups.....	7	19	34	-----	30	50,790	38,053	206,795	2,388	385,416	176,283
Flour and other grain-mill products <sup>2</sup> .....	17	114	2,221	55,150	24,620	589,889	3,283,453	70,228,603	606,046	86,463,821	15,029,172
Foundry and machine-shop products, not elsewhere classified.....	94	771	2,631	152	11,259	1,809,127	3,064,836	7,310,904	282,247	19,866,827	11,773,676
Fur goods.....	29	64	234	-----	69	157,252	350,588	1,040,930	9,477	1,939,574	883,167
Furniture, including store and office fixtures.....	40	188	1,304	78	1,075	557,909	1,727,538	3,524,118	61,975	6,951,917	3,365,824
Hand stamps and stencils and brands.....	4	9	27	-----	29	19,933	38,315	35,007	2,177	139,534	102,360
Jewelry.....	11	38	153	-----	50	67,722	213,352	261,754	4,581	684,965	428,030
Marble, granite, slate, and other stone products.....	9	62	207	45	1,007	126,360	338,319	370,629	22,935	1,050,835	657,271
Mattresses and bed springs, not elsewhere classified.....	6	30	247	407	400	130,613	200,141	914,826	22,337	1,090,883	753,720
Mirror and picture frames.....	3	11	36	-----	37	24,597	52,434	61,975	5,151	234,354	107,228
Models and patterns, not including paper patterns.....	7	6	46	-----	114	20,725	65,867	21,351	2,387	142,783	110,045
Nonferrous-metal alloys and products, not including aluminum products.....	10	21	141	-----	301	62,787	171,000	698,646	22,997	1,091,228	369,585
Paints and varnishes.....	10	100	154	90	456	230,974	205,071	1,361,303	24,951	2,452,540	1,066,286
Patent or proprietary medicines and compounds.....	16	83	98	-----	115	249,937	95,812	708,406	8,447	2,561,076	1,844,223
Photo-engraving, not done in printing establishments.....	8	37	101	-----	47	140,556	202,740	64,500	6,539	615,284	544,185
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	22	228	1,108	2,936	1,127	574,634	1,473,952	2,064,370	53,124	4,985,143	2,887,640
Poultry killing, dressing, and packing, wholesale <sup>1</sup> .....	7	12	42	-----	40	10,554	44,712	1,069,624	7,240	1,278,668	201,794
Printing and publishing, book and job.....	121	540	1,826	-----	2,368	1,327,781	2,478,722	2,996,853	101,180	10,252,618	7,154,580
Printing and publishing, newspaper and periodical.....	52	980	893	150	2,207	2,008,231	1,652,247	2,726,375	74,270	11,224,216	8,423,571
Saddlery and harness.....	5	15	77	-----	89	39,325	73,959	290,400	3,055	497,412	194,937
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	9	20	65	-----	448	60,990	104,691	986,292	21,268	1,361,499	353,930
Signs and advertising novelties.....	80	60	250	-----	174	151,840	297,056	344,073	8,137	1,118,118	765,908
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	14	159	580	250	1,466	359,546	954,044	1,651,220	54,891	3,947,653	2,241,542
Surgical and orthopedic appliances, including artificial limbs.....	9	39	61	-----	105	64,490	80,934	62,988	4,392	308,332	240,952
Tools, not including edge tools, machine tools, files, or saws <sup>1</sup> .....	9	13	70	-----	157	25,087	95,102	101,756	8,244	720,351	610,351
Trunks, suitcases, and bags.....	5	11	45	-----	23	23,350	56,715	141,219	2,860	273,899	130,410
Other industries.....	323	2,550	12,984	17,070	31,792	6,901,213	15,325,489	68,489,349	3,173,556	127,825,603	56,162,898

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside Minneapolis have been included with those for the county, as specified in footnotes 1, 2, and 3, to avoid disclosing data reported by individual establishments:

<sup>1</sup> Includes data for 1 establishment located outside Minneapolis.

<sup>2</sup> Includes data for 2 establishments located outside Minneapolis.

<sup>3</sup> Includes data for 3 establishments located outside Minneapolis.

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

ST. PAUL

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 4, 6, and 7), and therefore are slightly smaller than the sums of the items for the individual industries]

	637	5,040	23,489	58,676	46,266	\$11,908,187	\$31,050,277	\$98,734,140	\$5,677,150	\$206,229,380	\$101,818,090
All industries, total.....	637	5,040	23,489	58,676	46,266	\$11,908,187	\$31,050,277	\$98,734,140	\$5,677,150	\$206,229,380	\$101,818,090
Beverages.....	5	131	304	1,380	703	317,705	386,584	755,376	119,136	2,410,685	1,542,173
Boxes, wooden, except cigar boxes.....	4	7	116	300	227	16,140	116,784	180,595	8,736	443,000	273,678
Bread and other bakery products.....	61	71	876	555	1,367	144,450	1,026,078	3,005,683	106,600	6,586,949	3,474,666
Butter.....	9	73	135	325	260	135,836	153,245	6,061,309	29,169	6,087,143	506,605
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	7	17	108	250	146	37,572	83,209	641,034	11,782	1,089,107	436,201
Car and general construction and repairs, steam-railroad repair shops.....	14	267	3,247	2,310	5,016	644,977	5,041,044	3,123,567	280,160	9,116,247	5,712,520
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....)	15	43	707	-----	238	114,738	1,017,858	2,594,694	25,887	4,541,058	1,920,477
Clothing, women's, not elsewhere classified.....	8	20	222	-----	32	40,548	188,858	640,433	4,826	1,103,004	458,645
Confectionery.....	15	58	335	555	262	144,615	220,024	791,711	25,797	1,616,456	798,948
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	12	52	188	-----	254	132,260	225,257	661,052	13,564	1,345,627	771,011
Electrical machinery, apparatus, and supplies.....	8	55	259	-----	1,370	108,804	275,520	1,418,828	40,371	2,561,197	1,101,998
Envelopes.....	4	31	162	-----	128	33,304	159,028	356,205	4,548	717,176	356,423
Flavoring extracts and flavoring sirups <sup>4</sup> .....	4	8	32	-----	44	16,266	40,967	177,664	4,486	255,605	73,455
Fur goods.....	14	62	274	-----	83	181,464	579,855	1,468,473	13,412	2,778,730	1,296,845
House-furnishing goods, not elsewhere classified.....	5	14	60	-----	24	32,539	73,749	325,386	1,544	601,364	274,434
Jewelry.....	6	2	13	-----	7	(9)	10,322	14,126	36	77,646	63,484
Marble, granite, slate, and other stone products.....	8	35	151	-----	1,499	83,760	249,569	228,418	25,763	747,867	493,686
Paints and varnishes.....	7	30	48	-----	325	71,885	63,141	524,581	8,525	843,236	310,130
Patent or proprietary medicines and compounds.....	10	67	65	-----	18	111,069	61,656	188,685	2,684	1,002,306	810,087
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills <sup>4</sup> .....	15	57	204	1,100	995	124,853	387,384	956,180	23,497	1,930,976	951,343
Poultry killing, dressing, and packing, wholesale.....	4	12	30	-----	60	13,800	35,240	380,019	4,105	459,784	95,660
Printing and publishing, book and job <sup>4</sup> .....	68	544	1,365	75	1,634	1,389,808	1,778,548	2,110,175	70,785	8,655,127	6,465,167
Printing and publishing, newspaper and periodical <sup>6</sup> .....	41	909	750	-----	1,096	1,559,541	1,389,579	2,431,207	73,322	10,240,646	7,736,117
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	4	7	47	-----	250	21,680	62,258	631,830	13,905	819,582	173,838
Signs and advertising novelties <sup>7</sup> .....	16	290	1,665	2,285	359	688,884	1,857,052	2,053,040	44,328	8,124,613	6,027,245
Wirework, not elsewhere classified.....	4	8	28	-----	38	47,440	29,187	109,907	1,955	213,840	101,984
Other industries.....	277	2,182	12,123	40,541	20,821	5,723,214	15,642,279	67,263,823	4,720,867	131,699,067	59,714,877

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' products. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside St. Paul have been included with those for the city, as specified in footnotes 4, 6, and 7, to avoid disclosing data reported by individual establishments.

<sup>4</sup> Includes data for 1 establishment located outside St. Paul.

<sup>5</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

<sup>6</sup> Includes data for 2 establishments located outside St. Paul.

<sup>7</sup> Includes data for 3 establishments located outside St. Paul.

# MISSISSIPPI

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	1,911	52,086	252,580	190,263	50,317	\$42,207,557	\$113,592,297	\$109,653,357	\$3,938,940	\$220,917,692	\$107,325,395
1927	1,333	50,569	214,232	177,240	36,992	40,734,359	105,559,493	102,191,691	3,367,802	196,640,742	91,081,249
1925	1,705	55,171	211,691	187,829	23,862	41,231,045	103,588,476	( <sup>5</sup> )	( <sup>5</sup> )	200,453,028	96,864,552
1923	1,235	54,352	177,693	159,095	18,598	40,015,853	87,883,332	( <sup>5</sup> )	( <sup>5</sup> )	178,581,729	90,693,397
1921	1,116	42,222	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	30,197,067	58,233,503	( <sup>5</sup> )	( <sup>5</sup> )	114,083,801	55,850,298
1919	2,455	57,560	200,772	187,128	13,644	51,255,716	96,677,871	93,682,626	2,995,245	197,740,987	101,069,116
1914	2,209	46,702	186,404	179,625	6,779	19,176,627	41,340,122	36,948,838	1,391,284	79,550,065	38,209,973
1909	2,598	50,384	206,157	203,661	2,496	18,767,723	36,925,582	35,653,704	1,271,788	80,555,410	43,629,828
1904	1,520	38,090	110,313	109,805	508	14,819,034	25,800,885	24,904,930	806,955	57,451,445	31,650,560
1899	1,294	26,799	65,618	65,236	382	7,900,007	16,543,029	( <sup>5</sup> )	( <sup>5</sup> )	33,718,517	17,175,488
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	43.4	3.0	17.9	10.7	52.2	3.6	7.6	7.3	17.0	12.3	17.8
1925-1927	-21.8	-8.3	1.2	-5.6	55.0	-1.2	1.6			-1.9	-6.0
1923-1925	38.1	1.5	19.1	18.1	28.3	3.0	17.9			12.2	6.8
1921-1923	10.7	28.7				32.5	50.9			56.5	62.4
1919-1921	-54.5	-26.7				-41.1	-39.8			-42.3	-44.7
1919-1929	-22.2	-9.5	25.8	4.9	312.8	-17.7	17.5	17.0	31.5	11.7	6.2
1909-1919	-5.5	14.2	-2.6	-8.1	446.6	173.1	101.8	102.8	135.5	145.5	131.7
1899-1909	100.8	88.0	214.2	212.2	553.4	137.3	123.2			138.9	154.0

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Not reported separately.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> No comparable data.

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	2,009,821	1,911	52,086	252,580	\$42,207,557	\$113,592,297	\$109,653,357	\$3,938,940	\$220,917,692	\$107,325,395
<i>Counties <sup>3</sup></i>										
Adams	23,564	30	800	3,364	614,595	1,282,290	1,233,604	48,632	3,332,236	2,049,940
Alcorn	23,053	35	713	2,484	465,412	1,921,837	1,855,173	66,664	3,072,366	1,150,529
Attala	26,035	42	1,130	6,258	782,638	2,301,183	2,230,179	70,989	4,605,407	2,302,239
Benton	9,813	27	119	723	58,650	62,980	62,750	210	231,250	168,290
Bolivar	71,061	13	117	1,390	96,258	1,102,355	1,067,722	34,633	1,512,097	409,742
Calhoun	18,080	71	528	3,196	322,336	673,257	671,627	1,630	1,329,120	655,863
Carroll	19,765	17	148	756	90,441	264,276	259,620	4,656	638,214	275,938
Chickasaw	20,835	21	224	1,399	159,974	475,994	458,037	17,927	931,629	455,635
Choctaw	12,339	10	76	499	45,128	133,349	132,602	747	250,115	116,796
Claiborne	12,152	20	358	1,504	242,461	1,067,090	1,044,662	22,428	1,653,200	586,110
Clarke	10,679	14	1,793	6,944	1,397,814	1,738,340	1,644,863	93,486	4,924,650	3,186,301
Clay	17,931	15	185	1,372	121,519	736,975	716,023	20,952	1,064,161	527,189
Coahoma	46,327	23	462	3,623	864,502	3,577,302	3,488,938	88,364	4,858,239	1,290,936
Copiah	31,614	31	611	2,503	414,671	1,130,041	1,104,193	25,848	2,274,658	1,144,613
Covington	15,028	12	58	390	31,692	44,040	44,140	800	122,527	77,637
Forrest	30,115	46	2,244	8,602	1,092,706	4,317,143	4,134,991	182,152	9,978,718	5,051,575
Franklin	12,268	10	1,013	2,540	805,313	403,367	310,427	92,940	2,033,472	1,030,105
George	7,528	7	98	185	38,866	123,234	119,194	4,040	311,997	188,763
Greene	10,644	19	1,004	4,278	782,363	1,105,746	1,102,123	3,623	2,852,312	1,748,599
Grenada	16,802	33	592	2,879	553,348	3,412,825	3,350,620	62,205	5,582,564	2,169,739
Hancock	11,415	12	772	2,516	510,075	757,289	748,135	9,154	1,706,900	949,611
Harrison	44,143	57	1,522	3,187	1,351,847	3,556,412	3,343,649	212,763	6,850,108	3,237,696
Hinds	85,118	104	2,548	14,208	2,455,412	13,571,668	13,265,598	306,070	20,929,559	7,357,891
Holmes	38,534	31	639	2,217	577,540	787,602	755,050	32,452	2,051,040	1,253,538
Humphreys	24,720	9	191	1,024	244,982	394,827	373,737	21,090	1,036,088	641,201

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929—Continued

COUNTY OR CITY	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage carriers (aver- age for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manu- facture
						Total	Materials and con- tainers	Fuel and purchased energy		
<i>Counties<sup>3</sup>—Continued</i>										
Itawamba	18,225	62	317	1,768	\$161,314	\$371,380	\$370,740	\$640	\$773,205	\$401,885
Jackson	15,973	17	976	21,475	759,198	2,528,128	2,321,876	206,252	5,292,538	2,764,410
Jasper	18,634	16	427	1,507	270,532	301,705	274,974	26,731	1,002,094	700,389
Jefferson	14,291	11	91	204	64,808	43,180	40,905	2,275	147,846	104,666
Jefferson Davis	14,281	9	77	373	41,221	67,159	65,963	1,196	156,020	89,761
Jones	41,492	47	4,037	22,454	3,583,654	6,896,533	6,486,455	410,078	17,232,811	10,336,278
Kemper	21,881	27	964	5,332	843,286	914,011	869,934	44,077	2,531,677	1,617,666
Lafayette	19,978	20	171	1,028	110,690	319,138	314,842	4,296	571,420	252,282
Lauderdale	52,748	65	1,074	6,988	1,285,215	7,651,270	7,481,309	219,967	12,014,869	4,363,593
Lawrence	12,471	8	146	397	95,997	112,537	111,437	1,100	269,924	157,387
Lenke	21,803	13	248	940	151,679	293,762	287,806	5,956	724,021	430,250
Lee	35,313	32	905	2,830	539,067	3,169,237	3,067,712	101,525	4,887,658	1,718,421
Leflore	53,506	29	589	4,452	486,327	5,643,421	5,533,169	110,252	7,549,509	1,906,088
Lincoln	26,357	23	957	4,345	965,276	1,415,974	1,359,403	56,571	3,787,776	2,371,802
Lowndes	29,937	27	862	3,303	660,901	1,803,405	1,695,217	108,188	3,446,366	1,642,961
Madison	35,796	20	533	2,327	446,685	598,375	586,295	12,080	1,692,289	1,063,914
Marion	19,923	16	755	3,304	674,849	749,095	722,320	26,775	1,832,044	1,132,949
Marshall	24,869	14	78	526	54,232	138,230	132,881	5,349	296,416	158,136
Monroe	36,141	41	406	2,625	281,194	726,580	710,409	16,171	1,612,092	885,512
Montgomery	15,009	34	343	2,241	175,197	1,103,256	1,074,092	29,164	1,545,800	442,544
Neshoba	26,691	13	1,080	4,009	934,531	593,955	560,454	33,501	2,291,747	1,697,792
Newton	22,910	20	434	2,455	292,699	1,191,360	1,158,794	32,566	2,206,027	1,014,667
Noxubee	25,500	20	449	2,389	308,214	842,531	825,295	17,236	1,485,280	642,749
Oktibbeha	19,119	29	413	2,965	263,381	1,883,453	1,839,337	44,116	2,688,952	805,499
Panola	28,648	14	123	1,190	82,818	613,634	601,419	12,215	855,141	241,507
Pearl River	19,405	22	2,254	6,366	1,988,051	2,192,471	2,163,877	28,594	5,965,241	3,772,770
Perry	8,197	9	245	1,136	124,875	179,717	176,387	4,330	454,201	274,484
Pike	32,201	26	1,825	5,648	1,861,126	2,692,869	2,647,377	145,482	5,568,840	2,575,981
Pontotoc	22,034	11	59	560	34,872	301,341	287,702	13,639	402,551	101,210
Prentiss	19,265	22	242	676	92,721	65,700	65,700	10,000	221,461	165,761
Quitman	25,304	6	27	255	20,451	15,686	13,789	1,897	68,554	52,808
Rankin	20,353	20	973	3,616	742,596	1,835,276	1,795,618	39,658	3,474,569	1,639,293
Scott	20,914	16	920	2,153	744,268	698,008	645,523	22,485	2,341,744	1,073,730
Simpson	20,897	16	816	4,264	632,079	1,272,137	1,258,215	13,922	2,376,761	1,103,624
Sunflower	69,364	12	151	1,335	122,233	1,034,491	1,001,919	32,572	1,459,799	421,398
Tallahatchie	35,568	11	407	1,584	272,807	1,134,329	1,077,001	57,328	1,736,812	601,483
Tate	17,671	4	14	97	14,340	11,389	9,200	2,189	85,879	24,490
Tippah	18,663	21	114	1,093	65,474	151,175	150,350	825	282,275	131,100
Tishomingo	16,411	68	457	2,672	270,875	650,149	647,786	8,363	1,189,862	539,713
Union	21,263	22	250	791	197,795	297,733	297,374	10,359	708,373	440,640
Walsh	13,871	8	80	417	64,357	101,348	99,866	1,482	239,489	132,141
Warren	35,785	44	1,985	6,752	1,846,868	2,781,475	2,636,990	144,485	7,046,497	4,265,022
Washington	64,310	39	1,387	8,445	1,121,678	5,982,085	5,801,447	180,638	9,278,160	3,296,134
Wayne	15,295	15	514	1,706	301,214	621,420	616,764	4,655	1,326,031	704,602
Webster	12,128	36	313	1,369	188,643	150,279	150,279	150,279	465,454	315,175
Winston	21,230	34	840	2,684	572,116	1,438,063	1,369,943	68,120	2,456,111	1,017,048
Yalobusha	17,750	27	279	1,775	316,669	592,470	578,385	14,084	1,141,131	548,652
Yazoo	37,282	22	493	2,392	325,463	1,006,024	972,221	33,803	1,074,508	968,484
All other counties <sup>4</sup>	139,908	66	2,681	12,248	2,333,698	3,637,137	3,450,364	86,773	9,741,271	6,204,134
<i>Cities having 10,000 inhabitants or more<sup>5</sup></i>										
Biloxi	14,850	36	822	1,398	500,665	1,488,630	1,359,794	128,845	2,942,074	1,453,435
Clarksdale	10,043	17	286	2,370	273,534	2,519,747	2,453,692	66,055	3,522,012	1,002,265
Columbus	10,743	19	388	2,034	360,966	1,125,623	1,077,926	47,697	2,019,434	893,811
Greenville	14,807	26	1,023	5,719	859,533	3,298,871	3,156,659	142,212	5,687,952	2,389,081
Greenwood	11,123	18	257	1,378	227,920	1,829,606	1,794,368	35,238	2,888,994	1,059,388
Hattiesburg	18,601	37	1,387	5,754	1,330,596	3,064,796	3,508,775	156,021	7,774,587	4,109,791
Jackson	48,232	91	2,074	12,587	2,116,594	12,645,182	12,303,874	341,308	19,183,582	6,538,400
Laurel	18,017	37	3,035	2,662	3,296,824	6,266,772	5,864,548	402,224	15,921,909	9,655,137
McComb	10,057	14	1,492	4,436	1,646,666	2,091,438	1,963,024	128,414	4,562,926	2,471,488
Meridian	31,954	44	1,213	5,179	994,475	5,643,420	5,495,541	147,879	8,887,922	3,244,502
Vicksburg	22,943	34	1,146	5,047	1,397,941	1,982,243	1,856,319	125,924	5,217,370	3,236,127

<sup>1</sup> Not including salaried employees.<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.<sup>3</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.<sup>4</sup> Amite, De Soto, Lamar, Sharkey, Smith, Stone, Tunica, and Wilkinson Counties. (See footnote 3.) No manufacturing was reported from Issaquena County.  
<sup>5</sup> Not including Gulfport and Natchez, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments located outside the cities but within the counties in which the cities are situated.



TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, and 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup> .....	57,807	53,637	4,170	1,539	1,501	38	<sup>2</sup> 565	<sup>2</sup> 545	20	<sup>2</sup> 3,617	<sup>2</sup> 3,103	<sup>2</sup> 514	52,086	<sup>3</sup> 48,488	<sup>3</sup> 3,598
1919 <sup>1,4</sup> .....	64,452	60,866	3,586	2,811	2,719	92	554	544	10	3,527	3,010	517	57,590	54,593	2,997
1914 <sup>4</sup> .....	52,277	50,010	2,267	2,386	2,340	46	376	373	3	2,813	2,618	195	46,702	44,679	2,023
1909.....	56,761	54,057	2,704	2,974	2,918	56	305	302	3	3,068	2,939	159	50,384	47,808	2,456

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 39 (male). Other salaried officers and employees—total, 256; male, 194; female, 62. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup> .....	52,086	51,857	51,027	51,743	52,473	51,799	51,558	52,140	52,739	53,512	53,198	51,997	<i>50,383</i>	94.2
1919 <sup>1</sup> .....	57,590	54,573	53,177	53,870	<i>52,653</i>	53,185	52,920	55,703	59,933	63,160	64,738	63,823	62,397	81.3
1914 <sup>1</sup> .....	46,702	48,363	47,519	47,810	47,290	45,296	45,097	46,143	47,304	48,010	47,774	45,881	<i>43,937</i>	90.8
1909 <sup>1</sup> .....	50,384	40,148	49,511	49,839	47,851	<i>45,173</i>	45,198	47,237	50,341	53,195	55,387	56,436	55,285	80.1

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	1,911	52,086	45 and over but under 48.....	30	1,067
Not reported.....	746	3,469	48.....	154	3,695
Under 40.....	37	316	Over 48 but under 54.....	81	2,314
40.....	38	690	54.....	92	2,030
Over 40 but under 44.....	4	28	Over 54 but under 60.....	137	8,623
44 and over but under 45.....	28	171	60 and over.....	564	20,683

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, and 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	1,911	2,455	2,598	52,086	57,560	50,384	51 to 100.....	88	105	80	6,551	7,750	5,699
No wage earners.....	9	158	71				101 to 250.....	69	74	53	10,450	11,884	8,467
1 to 5.....	1,106	1,272	1,299	4,584	2,853	3,592	251 to 500.....	34	24	22	12,230	8,569	8,038
6 to 20.....	405	597	777	4,507	6,705	8,872	601 to 1,000.....	11	14	9	7,404	9,088	5,467
21 to 50.....	189	208	286	6,300	6,999	9,131	1,001 to 2,500.....		3	1		3,712	1,118

## CENSUS OF MANUFACTURES: 1929

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,911	2,455	2,598	52,086	57,560	50,384	\$220,917,692	\$197,746,987	\$80,555,410	\$107,325,395	\$101,069,116	\$43,629,828
Less than \$5,000.....	(2)	759	1,156	(2)	899	3,200	(2)	1,882,744	2,573,206	(2)	1,337,938	1,918,351
\$5,000 to \$19,999.....	1,030	749	785	4,743	3,411	6,838	9,140,701	7,626,893	8,089,215	6,005,008	5,383,955	5,717,616
\$20,000 to \$99,999.....	504	593	407	6,725	9,175	12,679	24,201,792	26,986,780	19,633,830	13,357,702	15,792,497	12,336,122
\$20,000 to \$49,999.....	287	(3)	(3)	3,065	(3)	(3)	8,980,644	(3)	(3)	6,545,106	(3)	(3)
\$50,000 to \$99,999.....	217	(3)	(3)	3,660	(3)	(3)	15,212,148	(3)	(3)	7,812,596	(3)	(3)
\$100,000 to \$499,999.....	267	257		15,304	17,755		57,823,022	58,806,959		28,874,092	30,504,697	
\$100,000 to \$249,999.....	182	(3)		7,884	(3)		28,273,784	(3)		14,719,333	(3)	
\$250,000 to \$499,999.....	86	(3)	100	7,420	(3)	27,607	29,549,238	(3)	50,259,159	14,154,759	(3)	23,657,739
\$500,000 to \$999,999.....	54	59		7,157	11,115		38,200,882	43,400,086		14,483,337	20,180,250	
\$1,000,000 and over.....	56	33		18,157	15,235		91,551,295	60,043,525		44,605,256	27,899,779	
\$1,000,000 to \$2,499,999.....	48	(3)	(3)	15,057	(3)	(3)	68,925,222	(3)	(3)	35,776,371	(3)	(3)
\$2,500,000 to \$5,000,000.....	8	(3)	(3)	3,100	(3)	(3)	22,626,073	(3)	(3)	8,828,885	(3)	(3)

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	1,911	2,455	52,086	57,560	\$220,917,692	\$197,746,987	\$107,325,395	\$101,069,116
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	607	498	40,397	41,920	136,209,000	149,371,210	87,964,362	72,532,760
Other forms of ownership or control (individual, partnership, etc.).....	1,304	1,957	11,689	15,640	34,648,692	48,375,777	19,361,033	28,536,356
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	276	(1)	22,645	(1)	106,851,313	(1)	50,002,131	(1)
Independent (single-unit).....	1,635	(1)	29,441	(1)	114,066,379	(1)	57,323,264	(1)

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY: 1929, 1927, 1925, 1919, AND 1914

CENSUS YEAR	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY										ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING			
	Aggregate horsepower	Total horsepower of prime movers	Prime movers										Electric motors driven by purchased energy	
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines				Number	Horsepower
1929.....	252,580	109,263	1,607	135,688	61	47,634	352	12,941			5,340	56,317	1,734	41,203
1927.....	214,232	177,240	1,139	122,604	49	42,420	322	12,120	3	90	4,031	36,962	1,640	46,055
1925.....	211,691	187,820	1,596	147,700	33	28,863	444	11,266			2,636	23,862	1,034	29,951
1919.....	200,772	187,128	2,331	170,894	56	13,096	302	2,957	12	181	1,461	13,644	666	21,185
1914.....	186,404	179,625	2,273	177,287	(3)	(3)	237	1,695	17	643	722	6,770	294	10,572

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

[This table presents statistics for each county for which separate figures are given in Table 2. See footnotes 3 and 4 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	252,580	196,263	56,317	41,203	Leake.....	940	881	59	
Adams.....	3,304	2,554	810	3,000	Lee.....	2,830	730	2,100	237
Alcorn.....	2,484	2,058	426	175	Leflore.....	4,452	3,615	837	271
Attala.....	6,258	5,428	830	373	Lincoln.....	4,345	3,235	1,110	1,828
Benton.....	723	723			Lowndes.....	3,303	2,320	974	150
Bolivar.....	1,390	1,293	97		Madison.....	2,327	2,207	120	613
Calhoun.....	3,196	3,184	12	340	Marion.....	3,304	2,308	996	245
Carroll.....	750	753	3		Marshall.....	526	2,474	52	
Chickasaw.....	1,399	1,280	119	(?)	Monroe.....	2,625	2,443	182	
Choctaw.....	499	475	24		Montgomery.....	2,241	2,100	141	
Claiborne.....	1,504	1,477	27	37	Neshoba.....	4,009	3,855	154	555
Clarke.....	6,944	5,095	1,849	204	Newton.....	2,455	2,164	291	12
Clay.....	1,372	1,140	232		Noxubee.....	2,389	1,989	400	126
Coahoma.....	3,023	1,955	1,068	65	Oktibbeha.....	2,965	2,364	601	412
Copiah.....	2,503	2,402	101	20	Panola.....	1,190	1,045	145	
Covington.....	390	390			Pearl River.....	9,366	9,158	208	
Forrest.....	8,002	5,815	2,787	2,575	Perry.....	1,135	1,052	83	
Franklin.....	2,540	2,540	(3)		Pike.....	5,648	2,557	3,091	902
George.....	185	165	20	2	Pontotoc.....	660	515	45	
Greene.....	4,278	4,248	30	3,475	Prentiss.....	576	498	78	
Grenada.....	2,879	2,370	509	131	Quitman.....	255	210	45	
Hancock.....	2,510	2,461	55	1,140	Rankin.....	2,610	2,950	636	642
Harrison.....	3,187	1,729	1,458	146	Scott.....	2,158			
Hinds.....	14,206	7,397	6,809	961	Simpson.....	4,264	3,917	347	2,934
Holmes.....	2,217	1,923	294	50	Sunflower.....	1,335	550	785	52
Humphreys.....	1,024	930	94		Tallahatchie.....	1,584	1,525	59	357
Itawamba.....	1,768	1,763	5		Tate.....	97	50	47	
Jackson.....	21,475	21,347	128	9,837	Tippah.....	1,093	1,068	25	
Jasper.....	1,507	1,507	(3)		Tishomingo.....	2,672	2,586	86	
Jefferson.....	294	293	1		Union.....	791	696	95	
Jefferson Davis.....	373	370	3		Walshall.....	417	410	7	
Jones.....	22,454	12,502	9,952	2,715	Warren.....	6,752	4,505	2,247	1,600
Kemper.....	5,332	5,172	160	2,075	Washington.....	8,445	5,208	3,237	5
Lafayette.....	1,028	950	78		Wayne.....	1,795	1,720	60	
Lauderdale.....	6,988	3,690	3,298	685	Webster.....	1,360	1,360	6	
Lawrence.....	307	397	(3)		Winston.....	2,684	1,769	915	
					Yalobusha.....	1,775	1,159	616	
					Yazoo.....	2,392	1,665	727	50
					All other counties.....	12,248	9,423	2,825	2,146

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.  
<sup>2</sup> Item for Chickasaw County included in that for "Other counties" to avoid disclosing data for a single establishment.  
<sup>3</sup> Item for electric motors included with those for prime movers to avoid disclosing data for a single establishment.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	518,402	\$2,063,078	488,743	420,284	458,855	478,183	413,603
Anthracite (tons, 2,240 pounds).....	3,928	22,826	(3)	9,830	10,874	1,853	3,762
Bituminous (tons, 2,000 pounds).....	514,003	2,040,252	(3)	409,274	440,676	476,108	409,390
Coke (tons, 2,000 pounds).....	9,095	80,864	(3)	(3)	4,861	6,242	5,254
Fuel oils, including crude oils and gas oils (gallons) <sup>4</sup> .....	7,536,758	279,299	(3)	(3)	2,792,706	508,914	458,052
Gasoline and kerosene (gallons) <sup>4</sup> .....	408,592	71,163	(3)	(3)	203,700		
Gas, natural (M cubic feet).....	25,446	14,621	(3)	(3)	4,395	3,536	11,292
Gas, manufactured (M cubic feet).....	9,303	10,024	(3)	(3)			
Other fuels.....		285,844	(3)	(3)			
Electric energy purchased (kilowatt-hours).....	69,812,404	1,226,779	(3)	(3)	(3)	(3)	(3)
Total cost of fuel and purchased energy.....		\$4,011,672	\$3,367,802	Cost	\$2,995,245	\$1,391,284	\$1,271,788

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1920.  
<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.  
<sup>3</sup> Not tabulated separately.  
<sup>4</sup> No data.  
<sup>5</sup> For years prior to 1920, reported in barrels; converted on basis of 42 gallons per barrel.  
<sup>6</sup> Data incomplete.  
<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.  
<sup>8</sup> Not reported separately.

## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	1,011	34,182	52,086	196,263	56,317	\$9,219,836	\$12,207,557	\$100,653,357	\$3,938,940	\$220,917,692	\$107,325,395
Beverages.....	94	143	539	74	1,242	348,046	480,701	1,912,674	73,616	4,883,537	2,897,247
Boxes, wooden, except cigar boxes.....	11	30	560	805	795	71,626	334,409	815,090	13,526	1,767,092	938,476
Bread and other bakery products.....	68	58	610	70	1,569	611,262	97,512	1,734,610	89,549	3,460,603	1,636,444
Brooms.....	3	1	16	22	9	(4)	15,510	37,531	629	77,401	39,241
Butter.....	15	33	84	85	743	80,850	88,483	2,605,937	33,073	3,151,374	512,664
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	14	46	636	354	38	78,370	295,891	1,081,704	30,421	1,958,408	846,283
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	8	26	387	292	84	42,150	145,539	746,909	17,730	1,277,512	512,873
Car and general construction and repairs, electric-railroad repair shops.....	5	5	57	-----	68	7,024	80,971	10,825	620	100,078	88,633
Car and general construction and repairs, steam-railroad repair shops.....	17	182	2,217	782	6,096	462,652	3,354,206	1,830,284	146,767	5,874,451	3,838,400
Cheese.....	11	11	31	75	273	22,019	32,547	800,990	14,404	955,892	140,498
Clay products (other than pottery) and nonclay refractories.....	21	45	564	1,860	1,068	92,469	387,245	22,370	235,166	1,140,517	882,972
Clothing, women's, not elsewhere classified.....	7	18	244	46	46	17,854	83,730	334,670	2,534	528,823	191,619
Coffee and spice, roasting and grinding.....	12	22	37	-----	141	50,837	34,095	666,498	7,736	942,403	268,189
Concrete products.....	10	17	90	8	142	34,057	83,849	163,465	3,012	383,584	217,107
Condensed and evaporated milk.....	6	26	95	1,607	928	47,129	119,143	2,252,171	44,454	3,076,166	779,541
Confectionery.....	9	22	114	27	79	54,269	119,651	306,366	8,377	625,770	311,027
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	8	14	79	-----	3	20,283	83,573	91,184	369	267,631	176,078
Cotton goods.....	10	69	2,342	5,010	2,991	169,733	1,320,312	3,557,733	218,672	6,593,947	2,817,542
Feeds, prepared, for animals and fowls.....	6	96	180	-----	1,750	213,686	150,505	5,618,344	43,546	6,515,557	853,067
Fertilizers.....	10	55	378	450	1,516	111,494	254,413	2,439,962	34,911	3,572,147	1,097,274
Flour and other grain-mill products.....	15	5	19	234	440	7,600	7,600	399,153	5,602	531,123	126,668
Foundry and machine-shop products, not elsewhere classified.....	27	78	304	182	900	195,105	402,155	257,100	27,049	1,193,624	909,475
Furniture, including store and office fixtures.....	6	33	363	343	483	88,118	269,136	581,453	19,511	1,196,064	595,100
Gas, manufactured, illuminating and heating.....	7	47	120	375	142	61,114	133,737	146,823	129,791	814,940	538,326
Ice cream.....	44	77	167	310	1,537	132,322	176,023	927,088	76,490	2,005,211	1,001,033
Ice, manufactured.....	122	163	1,034	11,700	4,216	318,854	758,145	200,489	442,713	3,305,784	2,602,682
Lumber and timber products, not elsewhere classified.....	916	1,445	30,747	115,172	6,849	3,302,618	24,747,763	27,489,385	629,021	84,047,845	55,929,439
Marble, granite, slate, and other stone products.....	5	11	52	20	341	20,320	56,517	260,939	6,689	490,005	232,277
Mattresses and bed springs, not elsewhere classified.....	5	8	25	-----	122	17,854	25,952	88,819	1,088	164,500	73,702
Oil, cake, and meal, cottonseed.....	50	316	2,080	21,359	7,496	715,883	1,455,433	30,049,629	639,814	36,860,485	6,171,042
Patent or proprietary medicines and compounds.....	6	11	9	-----	21	18,286	6,290	27,661	723	82,237	53,853
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	116	223	1,030	9,005	2,315	439,708	1,227,821	6,706,302	45,055	10,278,886	3,527,520
Printing and publishing, book and job.....	34	73	221	6	417	139,147	326,383	366,114	18,029	1,169,464	785,321
Printing and publishing, newspaper and periodical.....	106	281	516	23	1,047	551,494	733,088	567,054	56,004	3,277,994	2,654,936
Ship and boat building, steel and wooden, including repair work.....	5	1	18	51	12	(4)	20,242	10,559	542	44,046	32,945
Signs and advertising novelties.....	5	8	21	-----	7	13,192	25,905	22,958	342	87,327	64,027
Turpentine and rosin.....	23	74	1,360	55	1	124,914	548,474	316,307	10,762	1,557,660	1,230,591
Wood distillation and charcoal manufacture.....	5	56	440	2,276	115	149,984	449,211	972,394	52,953	2,433,713	1,408,366
Wood preserving.....	8	136	1,203	1,619	2,008	386,267	1,067,303	8,242,883	249,136	12,268,786	3,776,767
Wood turned and shaped and other wooden goods, not elsewhere classified.....	9	20	141	485	95	47,902	106,237	154,670	750	374,435	219,015
Other industries.....	52	197	2,342	21,397	8,172	486,354	1,564,948	4,717,551	506,864	11,570,461	6,346,040

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 295 employees of central administrative offices, with salaries aggregating \$756,227. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other Industries."

# MISSOURI

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufacturers. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929.....	5,765	202,879	717,078	218,290	499,088	\$240,368,092	\$1,139,068,082	\$1,111,205,172	\$28,392,910	\$1,917,155,275	\$777,497,193
1927.....	5,422	195,378	656,269	231,229	425,040	230,017,241	1,004,709,373	975,020,154	20,680,219	1,665,173,463	660,464,090
1925.....	5,114	194,959	590,485	247,556	342,020	230,690,902	980,460,091	( <sup>5</sup> )	( <sup>5</sup> )	1,607,181,018	620,701,927
1923.....	5,201	196,694	553,397	254,276	299,121	228,014,986	944,082,654	( <sup>5</sup> )	( <sup>5</sup> )	1,547,188,617	603,105,933
1921.....	5,442	156,384	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	182,896,538	728,179,087	( <sup>5</sup> )	( <sup>5</sup> )	1,162,006,269	433,827,212
1919.....	8,592	195,037	476,648	295,092	181,556	199,515,353	1,056,467,164	1,029,812,810	26,044,354	1,594,298,393	537,751,174
1914.....	8,386	152,182	389,370	305,014	84,362	89,197,477	388,714,859	376,546,661	12,168,178	637,952,128	249,237,269
1909.....	8,375	152,993	330,447	295,391	44,056	80,842,770	354,411,151	344,622,065	9,789,086	574,111,070	219,699,919
1904.....	6,464	133,167	248,531	232,506	13,026	66,644,126	252,258,417	245,572,504	6,685,913	439,548,957	187,290,540
1899.....	6,853	107,704	185,818	180,194	6,624	46,713,734	184,189,030	( <sup>5</sup> )	( <sup>5</sup> )	316,304,095	132,115,065
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929.....	6.3	3.8	9.4	-5.6	17.6	4.5	13.4	14.0	-4.4	15.1	17.7
1925-1927.....	6.0	0.2	11.1	-6.6	23.9	-0.3	2.5			3.6	5.4
1923-1925.....	-3.3	-0.9	6.7	-2.6	14.6	1.2	3.9			3.9	3.9
1921-1923.....	-2.8	25.8				24.7	29.6			83.1	39.0
1919-1921.....	-36.7	-19.8				-6.9	-31.1			-27.1	-19.3
1919-1929.....	-32.9	4.0	50.6	-28.0	175.2	22.3	7.9	7.9	6.6	20.3	44.6
1909-1919.....	2.6	27.5	40.4	-0.1	312.1	143.1	198.1	198.8	172.2	177.7	144.8
1899-1909.....	22.2	42.0	52.7	63.9	683.4	73.1	92.4			81.5	66.3

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Not reported separately.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> No comparable data.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR INDUSTRIAL AREAS AND FOR COUNTIES AND CITIES: 1929

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State <sup>3</sup> .....	3,629,367	5,765	202,879	717,978	\$246,368,692	\$1,139,658,082	\$1,111,265,172	\$28,392,910	\$1,917,155,275	\$777,497,193
<i>Industrial Areas</i>										
St. Louis Area, <sup>4</sup> total.....	1,335,158	3,287	154,321	624,756	198,007,887	918,872,403	890,700,208	28,172,195	1,541,953,654	623,081,251
Portion in Missouri.....	1,033,553	2,807	114,871	335,284	142,487,015	603,355,172	588,628,438	14,726,734	1,068,155,687	464,800,515
Portion in Illinois.....	301,605	480	39,450	289,472	55,520,872	315,517,231	302,071,770	13,445,461	473,797,967	158,280,736
Kansas City Area, <sup>5</sup> total.....	638,470	1,169	48,332	214,781	63,705,471	511,338,467	503,267,055	8,071,412	741,237,907	229,899,530
Portion in Missouri.....	497,265	909	34,297	139,862	44,279,811	252,654,461	247,286,574	5,367,887	424,364,392	171,709,931
Portion in Kansas.....	141,211	170	14,035	74,919	19,425,660	258,684,006	255,980,481	2,703,525	316,873,605	58,189,599
<i>Counties in Missouri<sup>6</sup></i>										
Atchison.....	13,421	5	11	254	11,263	15,665	12,876	2,789	66,421	50,766
Audrain.....	22,077	28	1,905	7,432	1,811,087	2,934,517	2,225,753	708,764	7,074,351	4,139,834
Barry.....	22,303	42	284	2,725	157,530	523,676	506,536	17,140	908,103	384,427
Barton.....	14,560	14	105	331	99,486	309,002	272,368	33,634	473,706	241,704
Bates.....	22,038	14	53	456	62,614	359,895	348,502	11,393	524,066	164,171
Benton.....	11,793	8	17	186	11,042	38,217	37,642	575	70,221	32,004
Bollinger.....	12,269	12	110	442	74,714	91,699	88,849	3,050	217,077	125,378
Boone.....	30,995	27	615	2,603	618,317	1,573,301	1,460,216	104,085	3,067,976	1,404,675
Buchanan.....	93,633	144	7,499	39,772	8,968,231	100,197,783	107,944,625	1,253,158	136,605,999	27,408,216
Butler.....	23,697	23	623	1,790	521,793	1,130,698	1,102,980	27,718	2,433,401	1,302,703
Caldwell.....	12,509	6	14	145	13,319	55,508	54,310	1,292	100,918	45,320
Callaway.....	19,923	12	431	974	284,543	699,477	634,214	55,263	1,345,580	656,109
Cape Girardeau.....	33,203	43	2,180	15,164	2,228,896	9,441,665	9,076,310	365,355	16,061,765	0,620,100
Carroll.....	19,940	14	32	330	33,701	150,366	139,694	10,672	257,614	107,248
Carter.....	5,503	8	175	350	131,627	52,895	46,865	6,000	217,974	165,109
Cass.....	20,962	10	241	876	259,900	630,242	592,754	37,488	1,373,450	743,208
Cedar.....	11,136	7	12	182	10,701	50,874	47,398	3,486	101,936	61,062
Charlton.....	19,588	11	35	284	41,005	129,201	110,943	9,348	235,182	114,891
Christian.....	13,169	16	66	391	84,856	530,730	574,737	5,993	695,415	114,685
Clark.....	10,254	5	55	293	41,770	179,873	174,538	6,335	308,626	123,763
Clay <sup>5</sup> .....	26,811	52	2,261	16,654	2,757,386	23,425,877	25,773,901	651,976	41,780,393	15,354,506
Clinton.....	13,505	15	100	352	80,899	318,837	307,405	11,482	519,887	201,000
Cole.....	30,848	31	1,536	2,297	1,379,673	4,123,549	4,022,400	106,059	9,318,324	5,189,775
Cooper.....	19,522	15	332	1,009	272,977	1,114,370	1,082,137	32,233	1,842,277	727,907
Crawford.....	11,287	5	3	144	3,300	49,394	48,521	843	71,737	22,373
Dade.....	11,704	7	13	118	7,108	26,681	25,541	1,140	40,141	22,460
Dallas.....	10,541	7	14	86	9,345	73,243	72,515	708	111,092	37,815
Davies.....	14,424	11	35	178	34,688	406,344	399,308	7,036	540,408	134,064
Dent.....	10,974	31	207	779	134,518	420,831	410,061	4,770	702,617	281,786
Douglas.....	13,959	10	44	259	34,300	65,130	64,010	1,120	146,629	81,499
Dunklin.....	35,799	18	515	1,149	314,301	730,915	709,879	21,036	1,863,308	632,393
Franklin.....	30,519	43	2,530	3,523	1,969,789	11,634,289	11,547,005	87,284	17,670,831	6,336,592
Gasconade.....	12,172	18	733	1,535	632,068	2,321,029	2,295,775	25,254	3,765,992	1,444,963
Gentry.....	14,348	11	68	184	89,996	103,570	95,667	7,903	245,600	142,030
Greene.....	82,929	105	3,726	18,541	4,468,073	18,322,432	17,717,835	604,597	28,825,030	10,502,598
Grundy.....	16,135	12	328	536	491,903	1,012,583	962,366	50,217	1,688,465	675,882
Harrison.....	17,233	9	17	155	19,019	36,969	32,431	4,538	94,863	67,894
Henry.....	22,931	21	443	2,150	364,731	2,137,167	1,978,612	158,655	2,616,787	779,620
Hickory.....	6,430	5	0	154	4,763	57,495	56,475	77,691	1,020	20,196
Holt.....	12,720	6	22	73	21,144	16,430	15,479	951	74,753	68,323
Howard.....	13,490	9	131	1,057	209,567	103,369	78,393	24,971	857,249	253,880
Howell.....	19,672	27	114	634	78,916	457,800	446,984	10,816	821,655	363,755
Iron.....	9,642	13	40	294	22,350	39,248	39,113	135	114,975	76,727
Jackson <sup>6</sup> .....	470,464	947	32,036	123,208	41,621,925	226,228,584	221,512,673	4,715,911	382,584,009	156,355,425
Jasper.....	73,810	137	3,741	15,289	3,435,724	20,961,286	20,325,862	635,424	34,032,108	13,070,882
Jefferson.....	27,563	21	2,395	35,027	2,814,630	12,326,308	11,328,444	997,864	18,448,248	6,121,940
Johnson.....	22,413	17	176	795	137,634	1,416,986	1,377,953	39,035	1,895,950	388,964
Knox.....	9,668	5	29	193	26,870	85,931	84,005	1,926	163,742	77,811
Laclede.....	16,320	15	266	255	129,978	663,917	644,164	9,763	900,032	246,115
Lafayette.....	29,259	24	462	1,446	383,695	1,877,558	1,836,592	40,966	2,935,806	1,058,248
Lawrence.....	23,774	27	399	1,484	281,902	2,840,258	2,795,598	44,660	4,547,876	1,707,618
Lewis.....	12,093	11	314	2,719	285,010	501,608	492,939	8,669	869,165	391,557
Lincoln.....	13,929	14	58	422	45,840	184,968	175,337	9,621	382,066	197,108
Linn.....	23,339	15	527	1,022	601,659	1,378,654	1,337,331	41,323	2,279,187	900,533
Livingston.....	18,015	24	324	1,611	279,649	1,789,502	1,701,842	87,660	2,605,040	816,544
McDonald.....	13,930	9	95	402	23,215	132,697	129,574	3,123	217,275	84,578
Macon.....	23,070	9	53	271	54,196	362,289	351,151	11,138	535,864	173,576
Madison.....	9,418	8	291	585	226,635	117,995	106,717	11,278	464,753	346,768
Marion.....	33,493	43	3,886	7,180	3,950,467	11,162,105	10,850,952	301,153	21,264,930	10,112,831
Mercer.....	9,360	4	10	57	6,983	5,397	4,992	405	34,326	28,928
Miller.....	16,728	10	214	265	171,462	445,320	428,281	17,039	723,887	278,567
Mississippi.....	15,762	9	91	573	69,134	114,640	108,920	5,720	312,543	197,903
Moniteau.....	12,173	11	215	826	193,150	966,463	935,411	31,052	1,413,400	446,967
Monroe.....	13,460	9	95	270	105,090	601,052	590,227	10,825	891,795	280,743
Montgomery.....	13,011	10	202	745	196,765	598,962	498,430	100,532	981,894	382,932

See footnotes at end of table.

TABLE 2.—SUMMARY FOR INDUSTRIAL AREAS AND FOR COUNTIES AND CITIES: 1929—Continued

	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manu- facture
						Total	Materials and con- tainers	Fuel and purchased energy		
<i>Counties in Missouri</i> <sup>3</sup> —Continued										
Morgan.....	10,908	9	126	372	\$63,049	\$226,707	\$220,090	\$6,617	\$408,748	\$242,041
New Madrid.....	30,202	15	447	1,323	425,695	886,189	878,061	8,128	1,684,336	798,147
Newton.....	26,959	26	331	1,512	250,419	2,842,404	2,708,383	44,021	3,967,149	1,124,745
Nodaway.....	26,371	19	114	266	120,478	411,490	397,424	14,066	719,976	308,486
Oregon.....	12,220	23	303	1,006	227,435	240,379	226,691	13,688	607,040	366,661
Osage.....	12,462	5	12	240	12,564	220,808	217,446	3,362	204,504	43,696
Ozark.....	9,537	8	74	450	46,316	440,370	43,379	1,000	139,285	94,906
Pemiscot.....	37,284	19	283	1,480	168,708	417,860	406,315	11,545	788,490	370,636
Pettis.....	34,604	33	2,325	6,421	3,103,134	4,699,625	4,514,028	155,597	9,238,811	4,669,216
Phelps.....	15,308	11	58	368	36,058	109,079	100,779	8,300	207,938	98,559
Pike.....	18,001	14	202	1,009	223,577	847,626	788,770	58,856	1,677,512	829,886
Platte.....	13,819	8	21	300	25,909	257,034	247,404	10,230	428,553	170,910
Polk.....	17,803	18	42	397	31,212	200,383	193,706	6,677	312,074	111,691
Pulaski.....	10,755	5	15	134	8,787	27,288	26,425	863	56,457	29,169
Putnam.....	11,503	5	13	123	8,197	17,267	16,173	1,094	57,076	39,809
Randolph.....	26,431	22	1,033	3,644	915,098	5,017,839	5,845,869	71,970	8,708,878	2,791,039
Ray.....	19,846	10	27	196	28,475	71,207	63,826	7,381	160,586	89,379
Reynolds.....	8,923	13	259	612	191,928	143,941	137,010	6,931	409,535	265,594
Ripley.....	11,176	15	79	498	47,029	74,868	71,017	3,851	190,733	115,865
St. Charles.....	24,354	21	1,588	3,412	1,814,127	6,367,037	6,242,153	124,884	10,424,708	4,057,671
St. Clair.....	13,289	7	48	506	33,847	50,910	33,924	16,986	116,495	65,585
St. Francois.....	35,832	20	281	1,497	250,561	604,490	547,687	56,803	1,119,700	515,210
St. Louis <sup>4</sup> .....	211,593	99	5,861	42,273	7,006,201	19,774,623	17,577,435	2,197,088	45,442,197	25,667,674
Ste. Genevieve.....	10,097	14	420	2,322	517,402	1,254,777	942,262	312,515	2,194,179	939,402
Saline.....	30,598	27	1,449	2,052	1,517,736	9,402,383	9,310,116	92,267	12,716,308	3,313,925
Scotland.....	8,853	3	12	18	8,899	14,012	12,441	1,571	36,760	22,748
Scott.....	24,913	25	1,090	2,113	995,253	5,654,116	5,672,066	81,150	7,742,844	2,088,728
Shannon.....	10,394	18	308	971	213,714	224,593	218,077	6,516	684,452	409,859
Shelby.....	11,983	8	22	319	25,872	34,198	29,590	4,608	95,308	61,170
Stoddard.....	27,452	20	327	994	192,165	791,830	776,563	15,267	1,180,992	389,162
Stone.....	11,614	23	213	402	53,098	386,568	381,015	4,653	665,725	270,157
Taney.....	8,867	4	24	132	7,594	20,421	20,168	263	45,611	25,190
Texas.....	18,580	20	97	709	74,989	473,685	463,904	9,781	695,715	222,030
Vernon.....	25,031	13	270	905	402,160	722,699	699,312	23,387	1,368,256	635,557
Warren.....	8,082	9	112	168	68,456	209,325	201,909	7,416	355,683	146,258
Washington.....	14,450	11	167	622	129,195	132,480	126,334	6,146	328,667	196,187
Wayne.....	12,243	16	54	479	45,197	107,446	106,118	1,328	228,390	120,944
Webster.....	16,148	24	111	527	52,718	906,416	899,181	7,235	1,129,439	223,023
Wright.....	16,741	19	44	424	24,201	187,805	184,334	3,471	289,033	101,228
All other counties <sup>5</sup> .....	113,794	54	1,972	21,628	1,010,341	8,262,230	7,408,916	853,315	13,522,242	5,260,012
<i>Cities in Missouri having 10,000 inhabitants or more</i> <sup>6</sup>										
Cape Girardeau.....	16,227	27	2,004	13,844	2,109,324	8,673,020	8,340,524	332,496	14,877,140	6,204,120
Haanibal.....	22,761	37	3,807	6,910	3,877,602	11,055,513	10,760,708	294,805	21,033,978	9,978,465
Independence.....	15,296	22	795	3,574	1,062,790	5,575,746	5,461,658	118,088	9,870,694	4,293,948
Jefferson City.....	21,696	28	1,527	2,227	1,367,823	4,113,684	4,008,090	106,594	9,283,140	5,169,465
Joplin.....	33,454	77	1,682	6,497	1,686,082	11,282,104	10,930,584	351,520	17,235,504	5,953,400
Kansas City <sup>7</sup> .....	399,746	903	29,902	100,558	38,400,037	196,009,766	192,070,483	3,939,283	341,371,583	145,361,817
St. Louis <sup>4</sup> .....	821,960	2,708	109,010	293,011	134,880,814	583,580,649	571,051,003	12,529,646	1,022,713,490	439,132,841
Springfield.....	57,527	90	3,470	15,010	4,196,476	16,471,582	15,983,973	487,609	26,178,268	9,701,676

<sup>1</sup> Not including salaried employees.

<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

<sup>3</sup> The State items are equivalent to the sums of the county items and those for the city of St. Louis, which is not included in any county.

<sup>4</sup> The St. Louis Industrial Area comprises St. Louis County and the independent city of St. Louis, Mo., and Madison and St. Clair Counties, Ill. For statistics by industries for the area and for St. Louis city, see Table 13.

<sup>5</sup> The Kansas City Industrial Area comprises Jackson and Clay Counties, Mo., and Wyandotte County, Kans. For statistics by industries for the area, see Table 13.

<sup>6</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately. In the cases of Crawford and Hickory Counties, in which fewer than 10 wage earners were employed, statistics are here presented in order that comparison may be made with the corresponding figures for 1927 (published in mimeographed form).

<sup>7</sup> Adair, Andrew, Camden, De Kalb, Maries, Perry, Ralls, Schuyler, Sullivan, and Worth Counties. (See footnote 6.)

<sup>8</sup> Not including Columbia, Maplewood, Moberly, St. Charles, St. Joseph, Sedalia, University City, and Webster Groves, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments located either in the cities or outside the cities but within the counties in which the cities are situated.

<sup>9</sup> Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Motor vehicles, not including motorcycles"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.



## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	243,778	179,183	64,595	3,176	2,084	192	24,086	24,689	297	32,737	22,360	10,378	202,879	149,151	53,728
1919 <sup>1,4</sup>	244,630	186,828	58,111	7,676	7,428	248	4,282	4,083	199	37,044	27,082	10,262	195,087	147,635	47,402
1914 <sup>4</sup>	185,266	150,451	37,815	7,698	7,428	272	3,328	3,209	119	25,058	20,188	4,870	152,182	119,628	32,554
1909	185,705	150,760	34,955	8,226	7,989	237	3,010	2,924	86	21,476	17,571	3,905	152,993	122,266	30,727

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.

<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 531; male, 522; female, 9. Other salaried officers and employees—total, 7,318; male, 5,128; female, 2,190. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	202,879	<i>190,950</i>	196,682	200,382	202,248	201,765	204,218	206,579	211,859	212,526	210,323	201,391	195,615	89.8
1919 <sup>1</sup>	195,037	<i>184,513</i>	182,795	<b>182,889</b>	182,885	187,384	190,266	194,709	202,609	206,694	208,704	207,580	209,359	86.9
1914 <sup>1</sup>	152,182	<i>151,293</i>	151,799	155,240	156,988	155,660	156,299	156,263	155,866	154,431	152,048	141,558	139,599	88.8
1909 <sup>1</sup>	152,993	<i>141,868</i>	145,022	148,776	147,979	148,053	150,028	150,969	157,351	163,614	161,110	161,540	160,294	86.4

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	5,765	202,879	45 and over but under 48	370	18,140
Not reported	618	1,941	48	1,001	51,483
Under 40	97	859	Over 48 but under 54	842	52,171
40	144	7,034	54	628	21,525
Over 40 but under 44	44	1,043	Over 54 but under 60	246	18,823
44 and over but under 45	1,167	20,602	60 and over	608	9,201

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments	5,765	8,592	8,375	202,879	195,037	152,993	51 to 100	341	307	235	23,714	21,856	16,845
No wage earners	198	1,398	1,123				101 to 250	257	224	190	41,157	35,394	29,048
1 to 5	2,720	4,454	4,736	7,610	9,385	10,334	251 to 500	99	100	78	34,657	34,044	26,884
6 to 20	1,469	1,426	1,447	10,167	15,901	15,953	501 to 1,000	42	44	24	28,957	30,549	16,961
21 to 60	629	623	529	20,215	20,390	16,974	1,001 to 2,500	19					
							2,501 and over	1	18	13	30,502	27,518	20,294

<sup>1</sup> Combined to avoid disclosing the number of wage earners reported by an individual establishment.

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	5,765	8,592	8,375	202,879	195,037	152,993	\$1,917,155,275	\$1,594,208,338	\$574,111,070	\$777,497,193	\$537,751,174	\$210,699,919
Less than \$5,000.....	( <sup>2</sup> )	2,433	3,649	( <sup>2</sup> )	1,783	5,107	( <sup>2</sup> )	8,200,129	8,272,292	( <sup>2</sup> )	3,749,063	5,293,990
\$5,000 to \$19,999.....	2,140	2,791	2,505	5,500	7,311	10,999	22,870,460	29,517,745	25,001,039	13,852,800	15,756,004	14,249,566
\$20,000 to \$99,999.....	1,860	1,904	1,444	18,220	18,713	23,948	87,746,639	87,947,086	65,067,234	50,989,034	42,978,314	32,157,387
\$100,000 to \$49,999.....	1,131	( <sup>3</sup> )	( <sup>3</sup> )	6,845	( <sup>3</sup> )	( <sup>3</sup> )	36,065,579	( <sup>3</sup> )	( <sup>3</sup> )	21,374,097	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	1,729	( <sup>3</sup> )	( <sup>3</sup> )	9,355	( <sup>3</sup> )	( <sup>3</sup> )	51,681,000	( <sup>3</sup> )	( <sup>3</sup> )	29,614,937	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	1,187	942		45,239	38,395		273,699,584	210,689,301		139,024,018	94,731,089	
\$100,000 to \$249,999.....	762	( <sup>3</sup> )		20,252	( <sup>3</sup> )		122,009,063	( <sup>3</sup> )		65,141,063	( <sup>3</sup> )	
\$250,000 to \$499,999.....	425	( <sup>3</sup> )	683	24,987	( <sup>3</sup> )	64,701	151,690,521	( <sup>3</sup> )	204,184,575	73,832,955	( <sup>3</sup> )	84,650,92
\$500,000 to \$999,999.....	264	238		26,781	27,059		183,751,066	166,777,675		88,660,610	68,276,088	
\$1,000,000 and over.....	314	284	94	109,139	101,776	48,148	1,349,087,526	1,093,075,805	271,595,930	484,970,731	312,260,610	83,342,049
\$1,000,000 to \$2,499,999.....	198	( <sup>3</sup> )	( <sup>3</sup> )	43,833	( <sup>3</sup> )	( <sup>3</sup> )	302,881,232	( <sup>3</sup> )	( <sup>3</sup> )	134,731,900	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	63	( <sup>3</sup> )	( <sup>3</sup> )	23,725	( <sup>3</sup> )	( <sup>3</sup> )	214,665,017	( <sup>3</sup> )	( <sup>3</sup> )	85,613,260	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	53	( <sup>3</sup> )	( <sup>3</sup> )	41,681	( <sup>3</sup> )	( <sup>3</sup> )	831,641,277	( <sup>3</sup> )	( <sup>3</sup> )	261,620,571	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	5,765	8,592	202,879	195,037	\$1,917,155,275	\$1,594,208,338	\$777,497,193	\$537,751,174
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	3,062	2,802	188,198	174,206	1,827,697,399	1,480,883,324	732,775,093	487,843,789
Other forms of ownership or control (individual, partnership, etc.).....	2,703	5,790	14,681	20,741	89,457,876	113,325,014	44,722,100	49,907,385
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	733	( <sup>1</sup> )	102,038	( <sup>1</sup> )	1,083,521,063	( <sup>1</sup> )	312,827,613	( <sup>1</sup> )
Independent (single-unit).....	5,032	( <sup>1</sup> )	100,841	( <sup>1</sup> )	833,634,212	( <sup>1</sup> )	464,669,580	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

CENSUS OF MANUFACTURES: 1929

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR INDUSTRIAL AREAS, IMPORTANT COUNTIES, AND THE CITY OF ST. LOUIS, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horsepower
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower				
The State:														
1929	717,978	218,290	1,507	158,592	140	43,089	285	14,880	60	1,729	60,328	499,688	11,632	119,178
1927	650,269	231,229	1,418	174,138	131	42,769	321	13,543	23	779	45,021	425,040	13,809	126,490
1925	590,485	247,556	1,609	194,208	109	33,965	357	18,397	38	980	40,300	342,929	12,826	144,113
1919 <sup>1</sup>	476,648	295,092	2,782	244,096	111	25,561	1,228	22,049	98	3,386	23,602	181,556	9,579	106,016
1914 <sup>1</sup>	389,376	305,014	3,428	283,490	( <sup>2</sup> )	( <sup>2</sup> )	1,273	18,321	123	3,203	11,373	84,362	7,678	97,619
<i>Industrial Areas</i>														
St. Louis Area, total	624,756	259,343	734	145,214	204	105,561	86	7,506	43	1,062	44,254	365,413	10,850	212,991
Portion in Missouri (St. Louis County and independent city of St. Louis)	335,284	95,092	447	72,480	61	15,825	45	5,725	43	1,062	34,684	240,192	5,217	59,387
Portion in Illinois (Madison and St. Clair Counties)	289,472	164,251	337	72,734	143	80,736	41	1,731			9,570	125,221	5,639	153,604
Kansas City Area, total	214,781	56,683	226	39,307	50	15,620	41	1,756			15,063	158,098	3,993	33,904
Portion in Missouri (Jackson and Clay Counties)	139,362	31,993	151	22,262	30	8,640	28	1,091			11,547	107,869	2,888	20,071
Portion in Kansas (Wyandotte County)	74,919	24,690	75	17,045	20	6,980	13	665			3,516	50,229	1,105	13,833
<i>Counties and independent city in which aggregate horsepower exceeded 25,000: 1929</i>														
Buchanan County	39,772	11,591	87	8,389	21	2,416	9	786			2,873	28,181	265	1,701
Jackson County	123,208	25,970	144	16,364	30	8,640	26	966			10,557	97,235	2,146	12,944
Jefferson County	35,027	3,995	9	2,885	2	1,050	1	( <sup>3</sup> )	2	60	306	31,632	24	361
St. Louis County	42,273	5,623	18	4,140	8	1,447	2	27			2,343	30,650	370	3,989
St. Louis city	293,011	89,469	420	63,331	53	14,378	43	5,698	43	1,062	32,341	203,542	4,847	55,398

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.  
<sup>2</sup> Reported as "Steam engines and turbines."  
<sup>3</sup> Not reported separately. See footnote 2.  
<sup>4</sup> Item for internal-combustion engines included with that for steam engines to avoid disclosing data for a single establishment.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES, AND FOR ST. LOUIS CITY: 1929

[This table presents statistics for each county for which separate figures are given in Table 2. See footnotes 6 and 7 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State	717,978	218,290	499,688	119,178	Cole	2,297	240	2,057	
Aitchison	254	109	154		Cooper	1,009	620	389	254
Audrain	7,432	2,135	5,297	336	Crawford	144	144	( <sup>2</sup> )	
Barry	2,726	2,007	719		Dade	118	78	40	
Barton	831	255	576		Dallas	86	37	49	
Bates	456	334	122		Davies	173	52	126	
Benton	186	118	68		Dent	779	739	40	
Bollinger	442	442			Douglas	259	225	34	
Boone	2,608	315	2,293	240	Dunklin	1,149	770	379	90
Buchanan	39,772	11,591	28,181	1,701	Franklin	3,523	1,962	1,561	606
Butler	1,790	885	905		Gasconade	1,535	1,272	263	335
Caldwell	145	92	53		Geny	184	52	132	
Callaway	974	535	439		Greene	18,541	5,460	13,081	4,069
Cape Girardeau	15,164	13,901	1,263	14,011	Grundy	536		536	
Carroll	330	75	255		Harrison	155	12	143	
Carter	350	350			Henry	2,150	1,702	448	141
Cass	876	150	726		Hickory	154	52	102	
Cedar	182	80	102		Holt	73		73	
Chariton	284	175	109		Howard	1,057	776	281	
Christian	391	311	80		Howell	634	273	361	
Clark	298	285	13		Iron	294	275	19	
Clay	16,664	0,023	10,631	7,127	Jackson	123,208	25,970	97,235	12,944
Clinton	352	58	294	1	Jasper	15,289	2,755	12,534	1,121
					Jefferson	35,027	3,995	31,032	361

See footnotes at end of table.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES, AND FOR ST. LOUIS CITY: 1929—Continued

[This table presents statistics for each county for which separate figures are given in Table 2. See footnotes 6 and 7 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
Johnson.....	795	515	280	-----	Randolph.....	3,644	1,258	2,386	354
Knox.....	193	120	73	-----	Ray.....	196	112	84	-----
Laclede.....	255	149	100	-----	Reynolds.....	612	610	2	-----
Lafayette.....	1,446	329	1,117	25	Ripley.....	498	236	262	-----
Lawrence.....	1,484	838	646	120	St. Charles.....	3,412	2,699	713	4,069
Lewis.....	2,719	170	2,549	-----	St. Clair.....	596	230	366	-----
Lincoln.....	422	206	216	3	St. Francois.....	1,497	630	867	-----
Linn.....	1,022	425	597	265	St. Louis.....	42,273	5,623	36,650	3,989
Livingston.....	1,611	450	1,161	80	Ste. Genevieve.....	2,322	1,135	1,187	400
McDonald.....	402	345	57	-----	Saline.....	2,052	523	1,529	250
Macon.....	271	129	142	-----	Scotland.....	18	-----	18	-----
Madison.....	585	570	15	-----	Scott.....	2,113	1,403	710	575
Marion.....	7,180	2,625	4,555	2,596	Shannon.....	971	965	6	-----
Mercer.....	57	47	10	-----	Shelby.....	319	150	169	-----
Miller.....	265	133	132	-----	Stoddard.....	994	874	120	140
Mississippi.....	573	470	103	-----	Stone.....	402	344	58	-----
Moniteau.....	826	75	751	(?)	Taney.....	132	125	7	-----
Monroe.....	270	92	178	-----	Texas.....	769	590	179	-----
Montgomery.....	745	665	80	-----	Vernon.....	905	604	301	-----
Morgan.....	372	275	97	-----	Warren.....	158	77	81	-----
New Madrid.....	1,323	1,295	28	38	Washington.....	622	572	50	-----
Newton.....	1,512	822	690	264	Wayne.....	479	389	90	-----
Nodaway.....	266	30	236	-----	Webster.....	527	414	113	-----
Oregon.....	1,006	793	213	-----	Wright.....	424	832	92	-----
Osage.....	246	246	-----	-----	All other counties.....	21,628	2,606	19,022	1,672
Ozark.....	450	410	40	-----	St. Louis city (independent, not included in any county).....	293,011	89,469	203,542	55,398
Pemiscot.....	1,480	899	581	-----					
Pettis.....	6,421	4,167	2,254	6,087					
Phelps.....	308	215	153	-----					
Plke.....	1,009	636	373	516					
Platte.....	300	115	185	-----					
Polk.....	397	132	265	-----					
Pulaski.....	194	119	15	-----					
Putnam.....	123	115	8	-----					

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.  
<sup>2</sup> Item for electric motors included with that for prime movers to avoid disclosing data for a single establishment.  
<sup>3</sup> Item for Moniteau County included with that for "All other counties" to avoid disclosing data for a single establishment.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
<b>Fuel:</b>							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	3,322,326	\$10,971,282	3,537,194	4,222,137	4,133,902	3,594,600	2,940,345
Anthracite (tons, 2,240 pounds).....	71,131	279,800	(?)	61,682	14,052	15,100	19,631
Bituminous (tons, 2,000 pounds).....	3,242,668	10,691,482	(?)	4,160,455	4,119,850	3,579,500	2,920,714
Coke (tons, 2,000 pounds).....	156,925	1,226,487	(?)	(?)	194,758	222,717	167,965
Fuel oils, including crude oils and gas oils (gallons) <sup>3</sup> .....	100,830,512	3,420,945	(?)	(?)	77,278,650	56,566,776	43,362,606
Gasoline and kerosene (gallons) <sup>4</sup> .....	1,109,107	168,503	(?)	(?)	1,315,524	(?)	(?)
Gas, natural (M cubic feet).....	6,780,284	1,404,703	(?)	(?)	1,658,684	1,073,686	2,766,008
Gas, manufactured (M cubic feet).....	3,737,336	1,662,770	(?)	(?)	(?)	(?)	(?)
Other fuels.....	-----	337,950	(?)	(?)	(?)	(?)	(?)
Electric energy purchased (kilowatt-hours).....	679,869,818	10,381,108	(?)	(?)	(?)	(?)	(?)
Total cost of fuel and purchased energy.....	-----	730,082,748	Cost \$29,689,219	Cost (?)	Cost \$26,644,354	Cost \$12,168,178	Cost \$9,789,086

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.  
<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.  
<sup>3</sup> Not tabulated separately.  
<sup>4</sup> No data.  
<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.  
<sup>6</sup> Data incomplete.  
<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.  
<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	5,765	37,723	202,879	218,200	409,688	Dollars \$ 91,909,198	Dollars 240,368,692	Dollars 1,111,265,172	Dollars 28,392,910	Dollars 1,917,155,275	Dollars 777,497,193
Aircraft and parts.....	6	91	496		878	209,067	561,747	1,659,800	16,930	3,091,396	1,414,660
Aluminum manufactures.....	9	32	131		290	93,076	131,362	525,268	17,469	1,096,718	553,981
Awnings, tents, sails, and canvas covers.....	32	120	414		233	275,648	429,620	1,856,022	13,814	2,911,078	1,041,242
Bags, other than paper, not made in textile mills.....	15	261	1,408	1,040	906	838,325	1,377,086	18,240,218	41,208	21,586,361	3,304,936
Balting, leather.....	9	26	52		137	104,057	73,648	400,973	5,307	667,366	261,086
Beverages.....	142	277	1,105	1,913	2,765	693,155	1,531,602	3,040,681	158,699	9,240,199	6,040,819
Blacking, stains, and dressings.....	13	40	79	3	355	80,413	106,160	441,083	11,833	1,375,022	922,106
Bookbinding and blank-book making.....	43	222	953	800	442	476,471	1,185,415	1,489,008	30,293	4,548,214	3,023,913
Boot and shoe cut stock, not made in boot and shoe factories.....	11	230	2,301	552	1,634	319,915	3,374,917	30,265,495	58,828	38,392,480	8,068,157
Boot and shoe findings, not made in boot and shoe factories.....	19	127	989		847	241,469	1,001,359	1,655,848	38,576	3,741,400	2,047,086
Boots and shoes, other than rubber.....	61	2,348	24,903	10,342	7,424	3,796,014	23,264,604	81,137,876	426,060	133,918,578	52,354,642
Boxes, paper, not elsewhere classified.....	53	425	2,958	250	4,145	1,106,819	2,700,501	8,446,734	123,368	14,977,672	6,407,570
Boxes, wooden, except cigar boxes.....	24	132	1,337	3,050	4,130	848,160	1,186,466	2,407,110	49,568	4,855,466	2,398,788
Bread and other bakery products.....	711	706	7,650	2,960	12,209	1,657,476	9,741,089	25,762,395	1,083,507	59,233,709	32,387,807
Brooms.....	19	10	129	1	74	15,838	126,500	256,831	3,221	469,980	209,928
Brushes, other than rubber.....	6	16	36		24	20,592	41,582	148,767	1,992	281,481	130,722
Butter.....	83	408	990	1,233	6,252	845,264	1,219,265	32,503,368	288,465	39,323,118	6,531,285
Buttons.....	4	11	138		143	25,620	107,222	71,494	5,205	248,763	172,064
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	121	113	1,254	2,037	890	287,348	658,915	4,430,707	45,675	6,926,715	2,450,333
Car and general construction and repairs, steam-railroad repair shops.....	61	848	10,660	14,469	13,833	2,013,275	15,646,782	14,070,470	845,834	33,478,409	17,662,105
Carriages, wagons, sleighs, and sleds.....	6	36	162	528	80	88,520	174,681	297,236	10,017	772,252	464,900
Cars, electric and steam railroad, not built in railroad repair shops.....	9	524	2,381	9,231	4,806	1,052,143	4,366,520	16,523,070	386,075	24,769,460	7,860,305
Cash registers and adding, calculating, and card-tabulating machines.....	4	17	56		81	82,720	82,593	59,532	4,485	275,694	211,677
Caskets, coffins, burial cases, and other morticians' goods.....	22	93	542	781	1,198	322,082	613,940	1,769,016	27,104	3,674,342	1,877,622
Cement.....	5	527	1,764	11,918	44,403	855,570	2,532,400	2,500,577	2,500,577	12,967,354	7,681,488
Cheese.....	20	8	23	181	133	11,147	26,217	511,857	7,785	630,785	111,143
Chemicals, not elsewhere classified.....	10	458	761	968	3,664	1,055,176	1,142,631	7,314,288	256,277	12,370,445	4,799,880
Cigars and cigarettes.....	29	33	478		17	65,884	349,021	517,796	3,582	1,381,030	859,652
Clay products (other than pottery) and nonclay refractories.....	46	531	4,856	9,241	12,180	1,440,944	5,433,482	2,841,606	2,054,588	15,611,389	10,715,195
Cleaning and polishing preparations.....	15	58	101		194	175,031	120,993	574,125	8,037	1,781,217	1,199,055
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	72	608	4,957	745	1,108	1,000,151	4,682,726	12,283,985	118,406	22,820,598	10,418,147
Clothing, women's, not elsewhere classified.....	117	577	6,903		963	1,765,853	6,076,882	17,409,372	107,193	30,660,409	13,143,844
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	23	297	3,209		1,021	695,002	2,422,172	7,604,807	57,921	13,237,490	5,024,762
Coffee and spice, roasting and grinding.....	42	232	640	185	3,681	788,437	721,877	22,331,295	126,920	28,838,315	6,380,100
Compressed and liquefied gases.....	11	144	128	369	2,538	263,769	185,120	446,817	103,939	1,936,367	1,385,612
Concrete products.....	37	124	553	525	2,035	372,151	789,003	2,187,842	58,736	4,893,010	2,651,432
Condensed and evaporated milk.....	12	41	138	515	561	67,964	144,030	2,948,890	59,477	4,616,886	1,608,519
Confectionery.....	60	505	2,847	2,635	3,397	951,912	2,547,165	8,077,881	263,683	15,119,566	7,778,002
Cooperage.....	16	63	532	1,040	275	192,122	1,647,129	1,647,129	27,519	2,861,047	1,186,399
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	78	217	722	150	1,301	650,353	1,054,507	2,292,668	34,898	5,150,961	2,823,400
Cutlery (not including silver and plated cutlery) and edge tools.....	10	64	351		979	179,692	498,407	358,973	37,002	1,804,283	1,407,648
Dental goods and equipment.....	5	8	15		23	20,891	22,315	212,305	1,492	300,176	86,379
Doors, shutters, and window sash and frames, metal.....	17	72	243		531	177,819	367,234	583,205	11,176	1,431,214	831,333
Druggists' preparations.....	29	206	497	208	439	572,873	534,259	2,136,522	34,477	5,171,612	3,001,613
Dyeing and finishing textiles.....	6	60	385	500	304	160,555	327,344	792,144	49,488	2,099,623	1,227,991
Electrical machinery, apparatus, and supplies.....	65	1,604	7,225	1,000	16,120	4,571,480	8,453,557	10,596,682	442,100	52,936,797	32,898,015
Electroplating.....	18	34	158		742	84,542	238,749	70,525	27,989	594,783	496,260
Embroideries.....	8	6	117		65	24,800	82,675	66,501	2,839	288,276	218,936
Engines, turbines, tractors, and water wheels.....	5	182	602	2,020	441	588,666	939,196	786,797	79,995	3,307,349	2,441,557
Engraving, steel and copperplate, and plate printing.....	16	134	476		162	217,878	401,212	539,259	10,466	2,153,249	1,612,524
Engraving, wood.....	5	5	18		4	7,160	27,194	13,867	233	84,687	70,587
Envelopes.....	12	143	528	225	430	403,265	537,132	1,322,952	27,306	3,154,242	1,803,984
Explosives.....	4	60	456	1,135	2,204	160,830	628,339	3,111,650	139,981	7,055,493	3,803,853
Fancy and miscellaneous articles, not elsewhere classified.....	10	26	158		75	69,697	122,964	191,929	4,927	543,386	346,530
Feeds, prepared, for animals and fowls.....	28	285	798	686	13,304	671,010	1,073,710	25,738,809	385,077	86,546,673	10,422,787
Flavoring extracts and flavoring sirups.....	25	215	214	4,863	1,115	610,278	247,288	2,143,403	424,465	6,881,382	4,313,514
Flour and other grain-mill products.....	197	742	2,181	16,213	27,591	1,627,808	2,734,662	73,516,303	1,031,044	89,472,946	14,925,069
Food preparations, not elsewhere classified.....	36	71	202	68	1,431	170,062	227,644	2,065,298	44,403	5,299,029	1,189,328
Foundry and machine-shop products, not elsewhere classified.....	251	2,070	8,607	2,477	29,682	5,552,724	12,435,966	20,005,768	1,018,761	55,028,519	32,008,900
Fur goods.....	17	67	225		94	177,661	270,832	991,634	8,485	1,748,344	748,225
Furnishing goods, men's, not elsewhere classified.....	21	126	1,055		205	389,455	790,964	3,035,215	24,769	5,140,034	2,991,050
Furniture, including store and office fixtures.....	98	552	3,117	1,637	7,538	1,568,170	4,134,838	7,055,023	210,088	16,179,054	8,913,938
Gas and electric fixtures; lamps, lanterns, and reflectors.....	13	178	487		570	560,716	735,018	982,391	37,743	3,162,206	2,142,672
Gas, manufactured, illuminating and heating.....	22	945	1,573	9,643	3,719	1,530,891	2,097,756	1,761,363	3,353,750	14,240,360	9,125,268
Glass products (except mirrors) made from purchased glass.....	15	31	90		47	68,442	148,820	147,058	6,446	502,488	348,954
Glue and gelatin.....	4	15	72		421	40,653	86,803	30,046	30,706	639,646	249,895
Hand stamps and stencils and brands.....	14	34	76	35	107	80,029	106,833	82,029	5,788	407,843	320,026
Hardware not elsewhere classified.....	9	65	456		971	225,195	504,070	752,288	25,068	1,875,179	1,075,855
Hats and caps, except felt and straw, men's.....	31	84	628		114	201,221	628,046	1,950,657	17,000	3,589,936	1,622,189

See footnotes at end of table.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Hats, fur-felt.....	4	23	283	-----	97	90,577	270,366	1,512,705	13,598	2,254,449	728,146
Hats, straw, men's.....	7	109	541	-----	163	302,347	583,805	1,613,426	14,415	3,813,426	2,185,585
House-furnishing goods, not elsewhere classified.....	25	69	364	-----	410	174,718	276,405	1,646,038	13,418	2,688,810	1,029,364
Ice cream.....	74	248	621	295	4,408	637,922	991,044	3,951,766	205,141	8,873,768	4,716,871
Ice, manufactured.....	137	280	1,150	14,110	27,131	622,287	1,562,814	488,873	1,019,294	8,247,253	6,730,086
Ink, printing.....	8	34	63	15	389	115,156	75,400	423,257	14,871	962,237	524,129
Ink, writing.....	3	11	13	-----	2	39,469	18,615	82,254	443	190,826	108,129
Instruments, professional and scientific.....	7	36	204	-----	301	91,575	274,439	231,742	16,753	1,087,031	838,530
Iron and steel: Steel works and rolling mills.....	7	438	3,400	5,490	39,632	1,306,273	5,149,556	8,331,688	1,809,344	20,769,646	10,568,114
Jewelry.....	27	122	391	-----	134	238,882	537,148	610,042	6,212	1,826,420	1,210,166
Labels and tags.....	9	67	234	-----	421	219,634	630,592	284,890	10,815	1,283,446	642,038
Leather goods, not elsewhere classified.....	7	41	345	-----	100	120,857	290,371	473,446	6,827	1,971,697	1,491,324
Lime.....	14	65	621	1,210	3,376	133,968	700,196	689,993	492,336	2,887,619	1,405,190
Lithographing.....	16	117	312	-----	572	420,978	644,395	1,000,320	16,966	2,544,489	1,527,203
Lubricating oils and greases, not made in petroleum refineries.....	7	40	104	35	318	150,658	147,567	981,696	13,270	1,858,802	863,886
Lumber and timber products, not elsewhere classified.....	230	169	3,454	10,727	592	447,111	2,726,942	3,738,703	79,125	8,872,949	5,055,121
Macaroni, spaghetti, vermicelli, and noodles.....	10	42	273	-----	797	133,966	245,200	1,458,290	36,770	2,242,577	730,577
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	13	49	164	-----	314	95,588	281,290	127,687	15,500	793,867	650,080
Marble, granite, slate, and other stone products.....	50	139	819	717	7,151	380,434	1,173,212	1,153,047	123,818	4,185,666	2,908,701
Mattresses and bed springs, not elsewhere classified.....	25	59	304	10	853	138,647	336,789	1,228,033	22,599	2,134,658	883,626
Meat packing, wholesale.....	49	1,242	5,614	21,159	13,241	3,095,575	7,594,542	157,807,567	967,005	180,939,544	22,084,972
Millinery.....	45	310	2,042	66	417	982,516	1,799,322	4,870,237	50,911	9,622,148	4,701,000
Mirror and picture frames.....	5	13	36	-----	38	32,618	47,323	56,792	2,153	191,277	132,332
Mirrors, framed and unframed.....	10	16	83	-----	216	33,407	120,970	339,178	9,467	650,762	302,117
Models and patterns, not including paper patterns.....	24	72	194	-----	281	202,227	314,164	119,429	10,319	913,721	783,973
Motion pictures, not including projection in theaters.....	4	15	14	-----	52	34,335	39,122	36,598	3,716	115,921	76,637
Motor-vehicle bodies and motor-vehicle parts.....	32	212	4,220	20	5,288	555,529	6,580,448	29,416,803	170,167	42,284,503	12,061,528
Motor vehicles, not including motorcycles.....	8	659	6,086	6,327	2,071	1,670,198	8,486,011	168,745,600	519,008	240,762,302	77,496,794
Mucilage, paste, and other adhesives, except glue and rubber cement.....	4	5	10	9	20	16,060	12,023	39,322	708	95,254	56,224
Nonferrous-metal alloys and products, not including aluminum products.....	27	223	997	-----	5,126	682,284	1,283,650	12,077,423	190,203	16,544,314	4,276,688
Paints and varnishes.....	48	701	1,489	3,230	7,331	1,976,165	1,857,451	14,422,295	536,606	27,723,173	13,019,372
Paper goods, not elsewhere classified.....	6	26	147	-----	1,595	110,207	231,025	1,690,985	112,680	2,942,721	1,130,166
Patent or proprietary medicines and compounds.....	88	699	1,444	192	2,500	1,874,774	1,404,210	8,851,750	94,497	36,300,035	27,354,388
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	4	11	49	310	39	31,065	55,441	256,581	9,068	491,064	225,415
Perfumes, cosmetics, and other toilet preparations.....	35	231	526	-----	338	470,153	358,138	1,323,692	23,343	4,857,808	3,010,771
Photo-engraving, not done in printing establishments.....	24	168	466	-----	286	616,828	1,121,320	587,647	22,014	3,157,620	2,546,968
Pipes (tobacco).....	7	20	231	220	107	49,335	162,290	209,898	8,436	660,964	342,630
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	84	409	1,755	3,732	9,777	1,059,928	2,365,292	4,037,689	128,762	8,905,634	4,829,183
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	5	33	205	135	427	84,098	273,008	193,139	10,143	754,555	542,273
Pocketbooks, purses, and cardcases.....	5	26	108	-----	38	51,833	140,090	290,551	3,335	742,482	448,560
Poultry killing, dressing, and packing, wholesale.....	31	116	607	220	779	185,486	590,221	8,124,256	60,133	9,876,003	1,691,514
Printing and publishing, book and job.....	466	1,766	5,354	220	7,978	4,426,232	8,692,252	10,596,420	331,034	34,271,965	23,344,532
Printing and publishing, newspaper and periodical.....	407	3,747	4,284	1,648	8,811	7,904,811	8,061,557	12,376,832	385,261	49,634,086	36,602,843
Pumps (hand and power) and pumping equipment.....	9	44	222	100	463	112,280	303,070	567,299	19,666	1,234,500	647,565
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	11	116	499	-----	1,235	341,315	674,607	1,182,127	30,927	3,648,201	2,435,147
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	4	66	147	-----	691	187,014	195,772	1,261,032	61,492	3,117,498	1,794,944
Rubber goods other than tires, inner tubes, and boots and shoes.....	10	73	590	-----	3,155	143,493	591,100	1,701,430	94,292	4,111,804	2,310,082
Saddlery and harness.....	10	55	167	100	173	119,471	130,922	499,080	7,023	867,507	389,004
Safes and vaults.....	3	7	19	-----	100	6,210	21,477	27,213	1,155	64,617	30,249
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	11	18	100	23	311	56,215	134,297	1,172,354	21,021	1,671,797	478,422
Screw-machine products and wood screws.....	5	30	144	-----	415	54,102	156,011	143,027	13,768	515,532	358,737
Shirts.....	27	178	3,587	610	592	413,841	2,289,743	5,701,763	63,277	9,628,618	3,773,578
Signs and advertising novelties.....	39	153	592	15	245	420,041	692,621	1,196,866	52,716	3,647,373	2,397,791
Sporting and athletic goods, not including firearms or ammunition.....	10	85	470	-----	177	152,517	375,089	713,171	9,763	1,634,894	911,960
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	6	28	107	-----	325	90,655	184,209	462,814	24,125	915,419	428,480
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	16	134	781	815	1,832	374,092	810,004	1,993,349	85,286	4,075,631	1,990,990
Statuary and art goods, factory product.....	10	21	81	-----	63	42,596	145,126	94,427	4,398	347,224	248,399
Stereotyping and electrotyping, not done in printing establishments.....	7	43	157	-----	574	122,150	324,721	111,271	19,472	740,917	610,174
Stoves and ranges (other than electric) and warm-air furnaces.....	30	517	2,332	3,201	4,443	1,464,401	3,290,269	5,037,434	220,022	15,334,984	9,177,528
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	43	322	1,084	185	4,782	1,116,763	1,641,608	4,219,767	104,522	8,945,144	4,620,855
Surgical and orthopedic appliances, including artificial limbs.....	18	144	237	80	495	247,831	237,138	697,166	19,696	1,868,046	1,152,084
Theatrical scenery and stage equipment.....	3	19	81	-----	22	61,887	77,116	161,638	2,402	414,650	250,610
Tin cans and other tinware, not elsewhere classified.....	7	149	1,090	929	1,047	308,941	1,148,945	3,687,397	77,280	6,834,788	3,070,111
Tools, not including edge tools, machine tools, files, or saws.....	11	111	251	239	453	233,373	278,382	721,188	21,298	2,081,032	1,338,596

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Toys (not including children's wheel goods or sleds), games, and playground equipment	6	45	158	-----	138	Dollars 67,934	Dollars 135,188	Dollars 425,140	Dollars 8,177	Dollars 908,698	Dollars 476,381
Trimmings (not made in textile mills) and stamped art goods for embroidering	18	29	134	-----	69	76,741	130,651	282,843	7,240	681,784	391,701
Trunks, suitcases, and bags	18	86	825	-----	479	204,552	981,740	1,774,009	22,062	3,627,743	1,831,582
Vinegar and cider	9	29	80	50	959	87,030	85,077	481,189	34,587	1,034,926	519,150
Wall plaster, wall board, insulating board, and floor composition	7	24	41	-----	254	47,819	71,521	155,700	5,204	428,784	267,880
Waste	4	25	189	-----	243	45,039	95,058	758,885	17,629	1,121,042	345,428
Window and door screens and weather strip	19	68	107	-----	556	220,595	257,326	460,405	13,404	1,282,582	808,773
Window shades and fixtures	13	37	71	-----	23	88,232	92,027	608,104	2,700	971,845	400,951
Wirework, not elsewhere classified	14	254	740	900	2,071	591,520	838,200	4,644,633	30,852	8,896,150	4,170,665
Wire preserving	5	20	190	605	131	37,466	231,303	2,522,550	24,089	3,275,387	1,728,748
Wood turned and shaped and other wooden goods, not elsewhere classified	22	45	358	1,158	521	99,054	324,881	468,955	13,005	1,179,997	698,037
Other industries	197	2,245	15,795	20,793	67,662	5,681,879	17,213,720	89,058,074	2,836,100	161,909,664	70,015,430

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 7,849 employees of central administrative offices, with salaries aggregating \$18,263,839. See GENERAL EXPLANATIONS—Persons Engaged.

TABLE 13.—GENERAL STATISTICS FOR THE ST. LOUIS AND THE KANSAS CITY INDUSTRIAL AREAS AND FOR ST. LOUIS CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR CLAY, JACKSON, AND ST. LOUIS COUNTIES: 1929

[This table presents, for the St. Louis and the Kansas City Industrial Areas and for St. Louis city, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the industries shown separately. The counties of Clay, Jackson, and St. Louis are also industrially important, but no statistics by industries can be given for them, for the reasons stated in the explanatory notes]

INDUSTRY	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

ST. LOUIS INDUSTRIAL AREA

[This area comprises St. Louis County and the independent city of St. Louis, Mo., and Madison and St. Clair Counties, Ill. The totals for all industries do not include data for a few establishments located outside the area (see footnote 1), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total	3,287	28,270	154,321	259,343	305,413	\$72,037,263	\$198,007,887	\$390,700,208	\$28,172,105	\$1,541,953,654	\$623,081,251
Aircraft and parts	4	92	463	-----	818	239,279	529,073	1,683,628	17,304	3,073,438	1,372,506
Aluminum manufactures	4	21	37	-----	136	65,508	116,070	374,277	8,852	695,922	312,793
Awnings, tents, sails, and canvas covers	18	62	194	-----	95	136,957	227,601	1,039,959	6,810	1,596,847	550,078
Bags, other than paper, not made in textile mills	8	192	881	640	587	645,877	884,040	10,271,710	24,619	12,540,369	2,253,140
Beverages	63	171	663	818	669	420,555	927,497	1,762,526	56,437	5,370,872	3,551,909
Blacking, stains, and dressings <sup>1</sup>	13	40	79	3	355	80,413	106,160	441,083	11,833	1,375,022	922,106
Boot and shoe findings, not made in boot and shoe factories	19	127	989	-----	847	241,469	1,001,359	1,655,848	38,576	3,741,460	2,047,036
Boots and shoes, other than rubber	30	1,027	10,965	2,440	3,879	1,910,304	11,877,022	23,694,943	158,948	46,035,958	22,182,067
Boxes, paper, not elsewhere classified	41	357	2,452	250	3,424	889,018	2,179,231	7,049,140	96,365	12,254,671	5,109,166
Boxes, wooden, except cigar boxes	19	102	1,069	1,725	4,087	288,694	1,025,119	2,008,262	50,062	4,263,691	2,205,367
Bread and other bakery products	540	434	4,334	745	7,436	1,138,496	6,010,450	15,285,093	687,777	32,631,038	16,659,068
Brooms	8	2	21	-----	24	(?)	22,495	44,574	989	93,017	47,454
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	13	90	490	55	1,114	275,765	382,116	3,288,625	38,983	4,995,771	1,718,213
Car and general construction and repairs, steam-railroad repair shops	40	269	4,434	1,654	6,074	644,074	6,640,817	5,159,321	203,111	12,738,223	7,285,791
Caskets, coffins, burial cases, and other morticians' goods	13	77	464	741	1,208	268,676	529,869	1,374,619	22,517	3,030,905	1,633,769
Chemicals, not elsewhere classified	14	803	2,665	29,727	5,166	1,575,970	4,173,560	17,362,281	1,649,980	36,757,369	17,745,108
Cigars and cigarettes	24	17	163	-----	4	29,652	164,359	185,957	900	530,812	343,955
Clay products (other than pottery) and nonclay refractories	27	340	2,894	5,080	8,373	950,847	3,535,437	2,184,463	976,128	10,219,814	7,056,233
Cleaning and polishing preparations	10	40	56	-----	129	138,668	71,453	882,328	5,315	824,778	437,135
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	61	515	3,946	745	911	1,397,277	4,056,578	9,857,745	92,655	18,626,040	8,675,040
Clothing, women's, not elsewhere classified	86	343	4,823	-----	634	1,153,844	4,686,369	12,857,968	76,167	22,492,813	9,558,678

See footnotes at end of this section, p. 296.



TABLE 13.—GENERAL STATISTICS FOR THE ST. LOUIS AND THE KANSAS CITY INDUSTRIAL AREAS AND FOR ST. LOUIS CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR CLAY, JACKSON, AND ST. LOUIS COUNTIES, 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>ST. LOUIS INDUSTRIAL AREA—Continued</b>											
Coffee and spice, roasting and grinding.....	23	175	418	185	2,282	\$480,403	\$460,589	\$14,107,742	\$81,956	\$17,741,483	\$3,551,785
Compressed and liquefied gases.....	9	105	86	344	1,871	174,145	120,447	325,788	89,310	1,566,409	1,151,305
Concrete products.....	31	80	433	532	1,841	210,901	637,139	1,085,382	89,512	2,938,346	1,813,472
Condensed and evaporated milk.....	4	2	17	20	244	(?)	27,368	240,861	11,879	448,733	196,043
Confectionery.....	81	246	1,807	955	2,500	473,941	1,186,070	3,752,262	175,825	7,525,428	3,597,641
Cooperage.....	10	58	479	875	151	186,852	588,107	1,486,590	25,552	2,567,783	1,105,641
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	66	170	612	-----	1,154	521,589	892,748	1,938,214	29,281	4,314,500	2,347,005
Cutlery (not including silver and plated cutlery) and edge tools <sup>1</sup> .....	10	64	351	-----	979	179,692	498,407	358,973	37,662	1,804,283	1,407,648
Druggists' preparations.....	12	121	259	200	287	291,207	237,042	1,069,020	15,010	2,857,631	1,743,601
Dyeing and finishing textiles.....	6	60	385	500	304	160,656	327,344	702,144	49,488	2,069,623	1,227,991
Electrical machinery, apparatus, and supplies.....	47	1,520	6,893	1,000	14,444	4,354,828	8,113,002	18,156,282	380,893	49,687,060	31,155,885
Electroplating.....	14	30	140	-----	672	74,029	198,089	67,850	24,012	524,644	432,782
Envelopes.....	6	66	351	225	207	222,928	354,117	701,549	16,991	1,999,523	1,190,083
Feeds, prepared, for animals and fowls.....	11	190	450	-----	6,778	390,162	576,137	14,942,783	108,614	10,590,854	4,330,607
Fertilizers.....	6	45	264	202	2,535	79,936	291,678	2,970,438	50,677	4,833,475	1,812,380
Flavoring extracts and flavoring strups.....	21	200	205	4,863	1,076	582,588	235,014	2,054,930	423,446	6,700,190	4,230,823
Flour and other grain-mill products.....	24	243	515	8,497	3,004	605,290	691,867	22,176,478	209,569	25,956,160	3,567,122
Food preparations, not elsewhere classified.....	19	23	78	8	363	53,940	98,876	826,304	14,373	1,135,633	294,456
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	4	61	303	60	3,086	177,717	477,146	2,074,062	94,578	3,652,508	1,483,868
Foundry and machine-shop products, not elsewhere classified.....	165	1,552	7,245	2,996	21,812	4,355,384	10,642,224	15,170,014	846,488	43,029,344	27,012,842
Fur goods.....	12	30	127	-----	54	91,119	151,763	634,947	3,950	1,069,254	480,348
Furnishing goods, men's, not elsewhere classified.....	14	81	477	-----	62	280,589	464,779	2,005,629	7,840	3,472,177	1,458,699
Furniture, including store and office fixtures.....	62	421	2,350	1,405	5,519	1,206,872	3,101,472	5,190,917	156,764	12,065,823	6,718,142
Gas and electric fixtures; lamps, lanterns, and reflectors.....	9	140	327	-----	389	389,610	499,220	736,024	28,489	2,226,960	1,462,447
Glass.....	3	249	2,465	3,380	6,833	530,006	3,003,442	3,003,920	654,489	11,564,507	7,968,098
Glass products (except mirrors) made from purchased glass.....	11	26	70	-----	37	56,352	107,656	108,022	5,031	371,395	268,342
Grease and tallow, not including lubricating greases.....	4	2	31	226	108	(?)	40,188	64,256	10,276	173,124	98,692
Hand stamps and stencils and brands.....	6	18	39	-----	79	67,622	69,120	42,413	3,808	228,345	182,129
Hardware not elsewhere classified.....	9	65	456	-----	971	225,105	504,070	752,288	25,036	1,853,179	1,076,856
Hats and caps, except felt and straw, men's.....	21	52	440	-----	88	129,724	460,748	1,476,999	11,918	2,612,608	1,123,696
Ice cream.....	35	133	331	201	2,070	374,293	524,006	2,033,407	109,683	4,616,176	2,473,026
Ice, manufactured.....	24	66	300	6,705	10,815	236,015	548,326	255,001	437,562	4,773,440	4,080,377
Instruments, professional and scientific.....	7	36	204	-----	301	274,439	271,742	1,057,031	107,863	1,087,031	338,630
Iron and steel: Steel works and rolling mills.....	13	1,904	10,146	72,945	36,460	3,364,012	17,351,238	22,648,906	3,883,312	63,338,345	37,300,127
Jewelry.....	19	76	247	-----	70	155,305	373,118	454,226	2,828	1,260,301	303,047
Labels and tags.....	9	57	234	-----	421	219,634	284,890	630,592	10,815	1,283,445	642,033
Lithographing.....	10	82	223	-----	386	296,066	375,684	634,778	11,178	1,743,496	1,097,488
Lubricating oils and greases, not made in petroleum refineries.....	4	20	19	-----	181	42,426	26,521	271,222	4,110	673,513	298,181
Machine tools.....	4	27	154	-----	522	30,600	212,391	160,789	12,486	686,827	513,552
Marble, granite, slate, and other stone products.....	28	83	413	75	3,267	227,972	775,104	603,544	40,207	2,174,177	1,630,426
Mattresses and bed springs, not elsewhere classified.....	10	22	120	-----	311	63,336	141,409	496,513	7,931	829,236	324,792
Meat packing, wholesale.....	41	1,372	6,740	21,966	16,989	3,448,940	8,772,167	150,590,940	913,806	183,129,657	26,654,811
Millinery.....	39	275	1,767	6	361	869,184	1,620,455	4,461,841	43,741	8,690,435	4,184,363
Mirrors, framed and unframed.....	6	12	64	-----	180	24,260	94,585	237,703	7,529	460,226	223,984
Models and patterns, not including paper patterns.....	21	69	173	-----	232	197,107	286,184	103,928	9,481	832,824	718,915
Nonferrous-metal alloys and products, not including aluminum products.....	25	288	1,795	1,485	9,984	833,884	2,298,505	22,136,458	457,568	30,331,800	7,737,274
Paints and varnishes.....	42	532	1,506	3,660	9,790	1,416,733	1,843,260	14,717,065	489,997	27,446,076	12,245,014
Paper.....	4	25	327	6,330	883	70,121	624,971	1,950,992	224,719	3,727,262	1,521,641
Patent or proprietary medicines and compounds.....	48	508	1,278	150	2,177	1,436,261	1,241,276	7,844,162	78,263	32,405,432	24,483,007
Perfumes, cosmetics, and other toilet preparations.....	24	174	463	-----	285	325,430	303,781	710,246	18,815	2,409,550	1,680,489
Petroleum refining.....	5	537	2,612	18,187	6,144	1,251,839	4,222,981	55,682,989	813,733	77,986,638	20,839,816
Photo-engraving, not done in printing establishments.....	17	107	283	-----	160	381,925	709,218	422,631	13,769	1,953,173	1,516,773
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	55	231	1,038	2,355	7,494	618,994	1,509,122	1,987,867	82,305	5,004,927	2,934,755
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	5	34	327	-----	851	78,627	374,280	245,669	22,284	984,961	717,008
Printing and publishing, book and job.....	289	1,096	3,521	195	5,141	2,884,084	5,857,970	7,165,157	205,430	22,410,615	15,040,025
Printing and publishing, newspaper and periodical.....	94	1,059	1,925	-----	4,824	4,583,787	4,491,361	6,639,449	165,818	26,484,644	19,679,377
Refrigerator and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	8	65	346	-----	937	173,789	477,843	907,798	23,476	2,549,789	1,618,515
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	4	91	398	1,540	386	227,101	554,487	3,177,150	78,158	5,430,166	2,174,858
Rubber goods other than tires, inner tubes, and boots and shoes.....	7	35	120	-----	2,908	81,190	118,040	430,564	49,938	942,557	462,055
Shirts.....	16	132	2,340	430	362	307,271	1,661,038	4,110,403	34,323	6,674,081	2,529,355
Signs and advertising novelties.....	22	115	471	-----	223	341,656	627,055	828,198	40,863	2,880,474	1,911,408
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	4	29	163	830	256	98,363	248,220	826,794	51,782	1,589,777	711,201
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	17	205	1,598	1,175	4,671	530,569	1,715,140	3,802,340	225,323	8,609,159	4,580,906
Statuary and art goods, factory product.....	6	20	65	-----	60	41,876	120,421	81,537	3,004	281,402	196,771

See footnotes at end of this section, p. 296.

CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE ST. LOUIS AND THE KANSAS CITY INDUSTRIAL AREAS AND FOR ST. LOUIS CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR CLAY, JACKSON, AND ST. LOUIS COUNTIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
Steam fittings and steam and hot-water heating apparatus.....	5	69	568	-----	1,036	\$185,422	\$801,645	\$1,348,976	\$118,100	\$4,243,653	\$2,776,577
Steel barrels, kegs, and drums.....	3	46	375	-----	1,607	188,203	551,738	1,801,111	40,028	3,035,024	1,193,285
Stereotyping and electrotyping, not done in printing establishments.....	4	31	110	-----	395	86,364	228,010	66,470	13,214	533,012	453,328
Stoves and ranges (other than electric) and warm-air furnaces.....	34	660	3,705	3,736	6,499	1,907,581	5,046,963	8,736,890	367,630	22,620,810	13,516,290
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	30	296	955	420	4,416	1,022,935	1,432,189	3,923,933	87,837	8,101,090	4,089,326
Surgical and orthopedic appliances, including artificial limbs.....	9	95	172	-----	335	172,997	155,764	550,433	14,337	1,395,007	830,237
Tin cans and other tinware, not elsewhere classified.....	5	112	893	366	1,127	273,150	890,791	3,070,433	52,067	5,370,134	2,247,634
Tools, not including edge tools, machine tools, files, or saws.....	7	108	275	225	936	230,722	282,318	763,310	31,135	2,071,945	1,277,500
Toys (not including children's wheel goods or sleds), games, and playground equipment <sup>1</sup> .....	6	45	158	-----	138	67,934	135,188	425,140	8,177	908,098	475,381
Vinegar and cider.....	4	16	23	37	171	44,094	32,330	382,055	4,079	593,203	206,469
Wall plaster, wall board, insulating board, and floor composition.....	5	14	26	-----	277	24,059	36,856	122,445	4,232	299,936	173,259
Window and door screens and weather strip.....	14	62	180	-----	430	213,371	218,098	420,404	11,195	1,170,172	738,483
Window shades and fixtures.....	7	24	47	-----	13	66,380	59,967	351,847	1,354	573,685	220,384
Wirework, not elsewhere classified.....	7	242	660	900	1,680	560,104	805,511	4,466,822	66,399	8,539,408	4,006,187
Wood preserving.....	3	34	368	530	1,036	111,018	414,392	6,593,731	59,215	7,945,768	1,302,822
Wood turned and shaped and other wooden goods, not elsewhere classified.....	7	11	54	150	308	27,451	67,698	73,793	7,145	221,702	140,704
Other industries.....	459	5,409	34,385	43,658	91,844	12,484,724	42,231,005	298,170,014	10,949,645	469,087,674	159,968,015

ST. LOUIS INDUSTRIAL AREA—Continued

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>1</sup> The figures for the following numbers of establishments located outside the area have been included in the items for the area, to avoid disclosing the data reported by those establishments: Blacking, stains, and dressings, 2; cutlery (not including silver and plated cutlery) and edge tools, 1; hardware not elsewhere classified, 2; instruments, professional and scientific, 2; toys (not including children's wheel goods or sleds), games, and playground equipment, 2.

<sup>2</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."  
<sup>3</sup> Includes item for "Iron and steel: Blast furnaces" industry. All figures for that industry except those for power are included in the "Other industries" items, to avoid disclosing the figures reported by an individual establishment.

KANSAS CITY (MISSOURI AND KANSAS) INDUSTRIAL AREA

[This area comprises Jackson and Clay Counties, Mo., and Wyandotte County, Kans.]

All industries, total.....	1,169	10,148	48,332	50,683	158,095	\$24,138,952	\$63,705,471	\$503,267,055	\$3,071,412	\$741,237,997	\$229,899,530
Aluminum manufactures.....	5	11	43	-----	154	27,568	65,292	150,991	8,617	400,796	241,188
Awnings, tents, sails, and canvas covers.....	8	52	168	-----	87	122,602	167,348	738,342	5,736	1,116,618	372,740
Beverages.....	12	29	78	-----	240	63,794	95,131	289,897	11,417	847,086	551,772
Boxes, paper, not elsewhere classified.....	8	76	737	750	1,064	257,991	329,433	2,892,001	24,102	4,010,801	1,784,038
Bread and other bakery products.....	86	203	2,438	1,571	4,072	430,434	3,016,509	8,204,812	278,882	20,858,088	12,376,494
Brooms.....	3	4	53	-----	23	8,038	63,653	140,996	1,412	224,460	82,058
Butter.....	14	111	300	373	1,356	304,856	372,876	10,620,771	72,341	12,518,421	1,825,369
Car and general construction and repairs, steam-railroad repair shops.....	13	309	3,963	6,680	2,895	810,233	6,388,498	4,378,864	399,412	11,077,007	7,198,731
Caskets, coffins, burial cases, and other morticians' goods.....	10	34	120	-----	172	107,768	141,839	702,148	7,671	1,288,217	578,808
Clay products (other than pottery) and nonclay refractories.....	8	55	384	787	1,100	164,641	471,658	118,847	169,528	1,130,719	842,344
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....)	9	39	275	-----	55	157,320	289,007	494,721	11,434	1,097,828	561,173
Clothing, women's, not elsewhere classified.....	27	226	2,097	-----	310	603,190	1,378,769	4,487,314	29,180	8,044,174	3,527,650
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	8	131	1,503	-----	528	221,504	1,346,544	3,934,623	24,168	5,528,705	2,169,914
Coffee and spice, roasting and grinding.....	11	81	180	-----	1,122	261,486	220,532	7,198,978	35,831	9,813,093	2,578,284
Compressed and liquefied gases.....	7	71	80	125	1,164	138,219	117,414	278,193	57,560	1,084,767	749,014
Concrete products.....	14	55	192	30	819	185,955	251,980	1,253,254	20,512	2,373,237	1,090,471
Confectionery.....	19	116	847	1,265	332	200,231	850,724	2,597,250	50,778	5,373,707	2,725,673
Copperage.....	4	4	90	180	109	8,700	103,065	336,511	4,866	666,072	324,695
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	14	44	119	-----	302	110,246	237,545	569,758	6,340	1,151,114	575,016
Druggists' preparations.....	23	107	276	-----	242	320,457	315,279	1,110,640	19,677	2,686,852	1,566,535
Flavoring extracts and flavoring sirups.....	5	14	10	-----	45	37,183	13,189	102,151	1,131	207,087	103,505
Flour and other grain-mill products.....	17	359	1,066	2,125	19,171	880,510	1,545,452	50,422,435	639,793	60,655,991	9,693,763
Food preparations, not elsewhere classified.....	14	37	104	60	312	85,828	111,720	1,103,278	25,308	1,017,635	789,049

See footnotes at end of this section, p. 297.

# MISSOURI

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**TABLE 13.—GENERAL STATISTICS FOR THE ST. LOUIS AND THE KANSAS CITY INDUSTRIAL AREAS AND FOR ST. LOUIS CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR CLAY, JACKSON, AND ST. LOUIS COUNTIES: 1929—Continued**

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

### KANSAS CITY (MISSOURI AND KANSAS) INDUSTRIAL AREA—Continued

Foundry and machine-shop products, not elsewhere classified.....	71	493	1,890	16	7,080	\$1,244,828	\$2,794,673	\$5,864,015	\$233,763	\$13,108,704	\$7,070,326
Furniture, including store and office fixtures.....	25	95	482	100	1,123	269,527	752,116	1,263,550	29,795	2,843,019	1,550,574
Hats and caps, except felt and straw, men's.....	0	15	68	-----	15	25,137	89,925	216,792	1,296	455,092	237,004
House-furnishing goods, not elsewhere classified.....	9	32	119	-----	60	88,272	39,685	464,963	3,493	833,421	364,965
Ice cream.....	11	87	230	80	1,666	292,360	368,408	1,385,733	63,430	3,424,206	1,975,043
Ice, manufactured.....	18	104	501	2,009	10,834	214,625	744,620	39,231	365,629	2,214,010	1,750,150
Lithographing.....	6	35	89	-----	186	124,012	168,711	365,542	6,788	801,050	429,720
Lubricating oils and greases, not made in petroleum refineries.....	6	41	166	35	270	166,691	150,123	1,015,573	16,156	1,069,708	637,979
Marble, granite, slate, and other stone products.....	9	31	135	-----	931	85,229	217,853	300,609	19,282	766,864	436,913
Mattresses and bed springs, not elsewhere classified.....	9	18	116	10	333	36,423	137,400	551,897	11,260	887,367	324,210
Meat packing, wholesale.....	10	1,522	7,352	14,586	16,472	3,062,033	9,561,877	199,387,781	1,152,845	227,870,784	27,330,168
Nonferrous-metal alloys and products, not including aluminum products.....	5	20	73	-----	127	47,522	106,217	512,594	13,447	606,731	80,600
Paints and varnishes.....	15	294	467	70	2,578	823,644	557,680	4,416,686	53,717	8,251,552	3,781,149
Patent or proprietary medicines and compounds.....	35	157	123	42	302	353,938	141,464	974,692	13,729	3,459,746	2,471,025
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	23	140	478	345	2,323	340,099	706,522	1,543,557	37,132	2,919,970	1,339,290
Poultry killing, dressing, and packing, wholesale.....	5	8	33	10	51	10,762	40,702	839,833	3,550	960,937	117,564
Printing and publishing, book and job.....	134	435	1,340	30	2,153	1,125,339	2,237,420	2,728,604	96,396	9,373,129	6,563,129
Printing and publishing, newspaper and periodical.....	66	1,255	1,256	1,500	2,117	2,561,508	2,363,831	4,762,727	95,431	17,381,250	12,523,092
Safes and vaults.....	3	7	19	-----	100	6,210	21,477	27,213	1,155	64,617	36,249
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	6	19	101	-----	347	68,623	134,152	1,097,864	22,795	1,606,359	479,700
Signs and advertising novelties.....	15	39	118	65	24	89,550	109,904	255,409	22,952	803,746	525,385
Stereotyping and electrotyping, not done in printing establishments.....	3	12	48	-----	179	35,736	96,711	44,801	6,258	207,905	156,846
Tools, not including edge tools, machine tools, files, or saws.....	5	12	47	20	135	24,182	55,060	66,316	5,007	248,211	176,888
Wall plaster, wall board, insulating board, and floor composition.....	3	10	18	-----	20	23,150	39,393	36,844	1,204	134,604	96,640
Wirework, not elsewhere classified.....	4	7	34	-----	378	19,301	35,858	129,205	8,553	213,523	78,765
Other industries.....	329	3,092	17,912	22,809	72,570	7,522,502	23,529,117	173,495,683	3,873,153	284,203,712	106,839,876

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers, for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

### CLAY COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Corn sirup, corn sugar, corn oil, and starch"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	52	608	2,261	6,023	10,631	\$1,393,141	\$2,757,886	\$25,773,901	\$651,970	\$41,780,333	\$15,354,506
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### JACKSON COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Motor vehicles, not including motorcycles"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publications of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	947	6,781	32,036	25,970	97,238	\$16,918,793	\$41,521,925	\$221,512,673	\$4,715,911	\$382,584,000	\$160,355,425
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CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE ST. LOUIS AND THE KANSAS CITY INDUSTRIAL AREAS AND FOR ST. LOUIS CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR CLAY, JACKSON, AND ST. LOUIS COUNTIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

ST. LOUIS COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Electrical machinery, apparatus, and supplies"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report]

All industries, total.....	99	1,298	5,861	5,623	30,650	\$3,606,903	\$7,606,201	\$17,577,435	\$2,197,088	\$45,442,197	\$25,667,674
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ST. LOUIS CITY (INDEPENDENT, NOT INCLUDED IN ANY COUNTY)

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 4, 5, and 6), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	2,708	21,244	109,010	89,469	203,542	\$54,825,797	\$134,880,814	\$571,051,003	\$12,529,646	\$1,022,713,400	\$439,132,841
Aluminum manufactures.....	4	21	87	-----	136	65,508	116,070	374,277	8,852	695,922	312,793
Awnings, tents, sails, and canvas covers <sup>1</sup> .....	18	62	194	-----	95	136,957	227,601	1,039,959	6,810	1,690,847	550,078
Bags, other than paper, not made in textile mills.....	8	192	881	640	587	845,637	834,040	10,271,710	24,519	12,849,369	2,253,140
Beverages.....	39	159	697	818	522	390,300	338,069	1,578,952	49,514	4,885,134	3,256,668
Blacking, stains, and dressings <sup>4</sup> .....	13	40	79	3	355	80,413	106,160	441,083	11,833	1,875,022	922,106
Boot and shoe findings, not made in boot and shoe factories.....	19	127	689	-----	847	241,469	1,001,359	1,655,848	38,578	3,741,400	2,047,036
Boxes, paper, not elsewhere classified.....	41	357	2,452	250	3,424	889,018	2,179,231	7,049,140	96,366	12,254,671	6,109,166
Bread and other bakery products.....	447	391	3,881	670	6,159	993,539	5,403,091	13,805,359	615,107	29,058,283	15,237,817
Butter.....	8	108	203	220	1,800	220,602	305,158	6,470,779	40,045	2,020,943	-----
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	8	70	373	-----	836	244,261	328,552	2,950,070	29,004	4,509,230	1,530,156
Car and general construction and repairs, steam-railroad repair shops.....	18	128	2,374	556	3,442	272,412	3,264,126	2,803,548	128,813	6,458,898	3,626,537
Cars, electric and steam railroad, not built in railroad repair shops.....	6	398	2,402	7,570	4,806	823,848	3,615,341	14,991,528	329,128	21,534,609	6,213,963
Caskets, coffins, burial cases, and other morticians' goods <sup>1</sup> .....	13	77	464	741	1,208	268,676	529,869	1,374,619	22,517	3,030,905	1,633,769
Cigars and cigarettes.....	13	18	127	-----	3	28,692	130,149	155,855	751	461,539	204,933
Clay products (other than pottery) and nonclay refractories.....	18	262	2,077	4,526	2,090	741,846	2,674,908	1,767,849	643,364	7,079,472	5,568,759
Cleaning and polishing preparations.....	10	40	66	-----	129	138,608	71,453	382,328	6,315	824,778	437,133
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified <sup>1</sup> .....	61	515	3,946	745	911	1,397,277	4,056,573	9,857,745	92,655	18,626,040	8,675,640
Clothing, women's, not elsewhere classified <sup>1</sup> .....	86	343	4,823	-----	634	1,153,344	4,686,369	12,857,908	76,107	22,492,813	9,558,678
Coffee and spice, roasting and grinding <sup>1</sup> .....	23	176	418	185	2,202	460,589	460,589	14,107,742	81,956	17,741,483	3,651,785
Compressed and liquefied gases.....	6	75	68	244	1,398	119,759	83,791	223,707	55,717	1,034,675	767,651
Concrete products.....	10	55	306	510	984	154,079	444,699	850,438	20,440	2,258,178	1,387,300
Confectionery.....	31	246	1,307	955	2,800	473,941	1,180,070	3,752,262	175,625	7,279,428	3,697,641
Cooperage.....	7	50	436	800	98	175,548	1,276,207	525,550	1,276,207	2,279,987	983,731
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	57	165	564	-----	1,121	511,059	813,700	1,813,719	28,017	4,064,188	2,222,452
Cutlery (not including silver and plated cutlery) and edge tools <sup>1</sup> .....	10	64	351	-----	979	179,692	408,407	358,973	37,662	1,804,283	1,407,648
Druggists' preparations <sup>1</sup> .....	12	121	259	200	287	201,207	237,042	1,079,020	15,010	2,857,631	1,763,601
Dyeing and finishing textiles.....	6	60	385	500	304	100,656	327,344	792,144	49,488	2,069,623	1,227,991
Electroplating <sup>1</sup> .....	14	30	140	-----	672	74,029	198,089	67,850	24,012	524,644	432,782
Envelopes.....	6	66	351	225	207	222,938	354,117	791,549	16,991	1,950,523	1,190,933
Flavoring extracts and flavoring sirups <sup>1</sup> .....	21	200	205	4,883	1,076	582,688	235,014	2,054,930	423,446	6,709,199	4,280,823
Flour and other grain-mill products.....	5	128	185	3,592	839	285,631	285,905	8,544,613	91,093	10,025,227	1,389,521
Food preparations, not elsewhere classified <sup>1</sup> .....	19	23	76	8	363	53,940	98,876	820,304	14,373	1,135,633	294,456
Foundry and machine-shop products, not elsewhere classified.....	131	1,140	5,059	946	17,675	3,105,304	7,662,715	9,673,251	604,333	29,042,632	19,765,048
Fur goods.....	12	30	127	-----	54	61,116	181,783	634,947	3,959	1,069,284	430,349
Furnishing goods, men's, not elsewhere classified.....	14	81	477	-----	62	280,589	464,779	2,005,629	7,849	3,472,177	1,458,699
Furniture, including store and office fixtures <sup>1</sup> .....	62	421	2,350	1,403	5,519	1,206,872	3,101,472	5,190,917	156,764	12,065,823	6,718,142
Gas and electric fixtures; lamps, lanterns, and reflectors.....	9	140	327	-----	389	389,610	499,229	736,024	28,489	2,226,060	1,462,447
Glass products (except mirrors) made from purchased glass.....	11	26	79	-----	37	66,352	107,656	108,022	5,031	371,295	258,342
Hand stamps and stencils and brands.....	6	18	30	-----	79	67,622	59,120	42,413	3,803	228,345	182,129
Hardware not elsewhere classified <sup>1</sup> .....	9	85	456	-----	971	225,165	504,070	752,288	26,036	1,853,179	1,076,855
Hats and caps, except felt and straw, men's.....	21	52	440	-----	88	129,724	460,746	1,476,990	11,913	2,612,608	1,129,696
Hats, straw, men's.....	7	109	541	-----	163	302,347	583,805	1,613,426	14,415	3,813,428	2,185,585
House-furnishing goods, not elsewhere classified.....	17	37	246	-----	359	86,441	186,720	1,181,075	9,925	1,855,389	664,389
Ice cream <sup>1</sup> .....	22	103	261	130	1,506	302,900	416,104	1,745,490	67,103	3,771,016	1,688,423
Ice, manufactured <sup>1</sup> .....	8	28	183	4,865	3,480	153,138	364,101	210,961	318,733	3,974,774	3,447,484
Instruments, professional and scientific <sup>1</sup> .....	7	36	204	-----	70	91,575	274,489	231,742	16,763	1,087,031	838,536
Jewelry.....	19	76	247	-----	301	155,305	373,118	454,426	2,828	1,260,301	808,047
Labels and tags.....	9	57	234	-----	421	219,634	284,890	630,592	10,815	1,283,445	607,038
Lithographing.....	10	82	293	-----	386	294,066	375,684	634,778	11,178	1,743,439	1,067,483
Marble, granite, slate, and other stone products.....	24	83	363	75	2,870	227,972	685,347	559,340	34,736	1,076,294	1,381,218

See footnotes at end of this section, p. 299.

TABLE 13.—GENERAL STATISTICS FOR THE ST. LOUIS AND THE KANSAS CITY INDUSTRIAL AREAS AND FOR ST. LOUIS CITY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR CLAY, JACKSON, AND ST. LOUIS COUNTIES: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>ST. LOUIS CITY (INDEPENDENT, NOT INCLUDED IN ANY COUNTY)—Continued</b>											
Mattresses and bed springs, not elsewhere classified.....	10	22	120	-----	311	\$63,336	\$141,409	\$496,513	\$7,031	\$829,236	\$324,702
Meat packing, wholesale.....	32	682	3,158	11,831	6,741	1,896,852	4,239,382	74,159,642	463,932	86,301,064	11,677,480
Millinery.....	39	275	1,797	-----	361	869,154	1,620,455	4,461,831	43,741	8,690,435	4,184,863
Mirrors, framed and unframed.....	6	12	64	-----	180	24,260	94,585	237,763	7,529	469,226	223,934
Models and patterns, not including paper patterns <sup>4</sup> .....	21	69	173	-----	232	197,107	286,184	103,928	9,481	832,324	718,915
Paints and varnishes.....	33	355	809	3,160	2,454	974,909	981,582	9,625,709	149,241	16,499,330	6,724,380
Perfumes, cosmetics, and other toilet preparations <sup>4</sup> .....	24	174	463	-----	285	325,430	303,781	710,246	18,815	2,409,550	1,669,489
Photo-engraving, not done in printing establishments.....	17	107	283	-----	160	381,925	709,218	422,631	13,769	1,953,173	1,516,773
Planting-mill products (including general mill-work), not made in planing mills connected with sawmills.....	33	166	841	1,830	5,965	469,540	1,193,930	1,548,725	59,064	3,935,966	2,328,177
Printing and publishing, book and job.....	268	1,081	3,463	195	5,018	2,859,226	5,755,102	7,068,728	198,217	22,036,262	14,769,317
Printing and publishing, newspaper and periodical.....	60	1,780	1,709	-----	4,191	4,107,494	4,051,291	6,355,759	139,493	24,552,617	18,057,365
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	8	65	346	-----	937	173,789	477,843	907,798	23,476	2,549,789	1,618,515
Signs and advertising novelties.....	22	115	471	-----	223	341,656	527,055	928,198	40,868	2,380,474	1,911,408
Statuary and art goods, factory product.....	6	20	65	-----	60	41,876	120,421	81,537	3,094	281,402	196,771
Stereotyping and electrotyping, not done in printing establishments.....	4	31	110	-----	395	86,364	228,010	66,470	13,214	533,012	453,328
Stoves and ranges (other than electric) and warm-air furnaces.....	20	468	1,884	3,261	3,520	1,327,323	2,658,296	5,423,956	175,483	13,648,375	8,048,936
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	27	221	753	90	2,560	782,347	1,139,505	2,843,734	60,192	5,959,139	3,055,213
Toys (not including children's wheel goods or sleds), games, and playground equipment <sup>5</sup> .....	6	45	153	-----	138	67,934	135,188	425,140	8,177	908,698	475,381
Wall plaster, wall board, insulating board, and floor composition <sup>4</sup> .....	5	14	26	-----	277	24,669	36,856	122,445	4,232	299,936	173,269
Window and door screens and weather strip <sup>4</sup> .....	14	62	136	-----	430	213,371	218,098	420,494	11,195	1,170,172	738,483
Window shades and fixtures <sup>4</sup> .....	7	24	47	-----	13	66,380	59,967	351,847	1,354	573,585	220,384
Wirework, not elsewhere classified <sup>4</sup> .....	7	242	666	900	1,660	560,104	805,511	4,466,822	66,399	8,539,408	4,006,187
Wood turned and shaped and other wooden goods, not elsewhere classified.....	7	11	54	150	308	27,451	67,598	73,793	7,145	221,702	140,764
Other industries <sup>7</sup> .....	608	7,941	49,042	32,054	86,247	19,294,257	56,861,750	296,690,401	6,431,633	521,117,420	217,995,386

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside St. Louis have been included with those for the city, as specified in footnotes 4, 5, and 6, to avoid disclosing, exactly or approximately, the data reported by individual establishments.

<sup>4</sup> Includes data for 1 establishment located outside St. Louis.

<sup>5</sup> Includes data for 2 establishments located outside St. Louis.

<sup>6</sup> Includes data for 3 establishments located outside St. Louis.

<sup>7</sup> The figures for this item include data for the "Boots and shoes, other than rubber" industry, which reported a larger number of wage earners than any other industry in the city, and for the "Motor vehicles, not including motorcycles" industry, which reported a larger value of products than any other industry in the city. Separate figures can not be given for either of these industries without disclosing the data for individual establishments.

# MONTANA

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1899	589	14,869	197,781	35,947	161,834	\$24,214,895	\$209,845,438	\$202,615,534	\$7,228,904	\$271,004,446	\$61,249,008
1927	565	14,242	188,390	39,169	149,221	20,915,208	151,791,508	144,794,553	6,996,955	203,503,250	51,711,742
1925	606	14,777	166,528	36,302	130,226	21,078,039	146,351,366	( <sup>5</sup> )	( <sup>5</sup> )	205,474,257	50,122,891
1923	679	15,943	190,516	36,077	154,439	24,640,317	128,701,942	( <sup>5</sup> )	( <sup>5</sup> )	174,873,619	46,171,677
1921	571	11,384	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	16,791,100	49,166,052	( <sup>5</sup> )	( <sup>5</sup> )	80,771,186	31,605,134
1919	1,290	17,160	153,489	51,579	101,910	24,742,662	122,151,924	117,594,952	4,556,972	160,064,518	44,512,594
1914	939	13,704	91,671	63,873	27,798	13,001,205	46,743,986	42,275,499	4,468,487	84,440,136	37,702,150
1909	677	11,655	90,027	63,523	26,504	10,901,452	49,180,230	45,467,399	3,712,840	73,271,793	24,091,554
1904	382	8,957	46,728	42,330	3,898	8,652,217	40,930,060	36,505,364	4,424,696	66,415,452	25,485,302
1899	395	9,854	43,616	42,420	1,196	7,376,822	30,098,101	( <sup>6</sup> )	( <sup>6</sup> )	52,744,907	22,676,806
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	4.2	4.4	5.0	-8.2	8.5	15.8	38.2	39.9	3.3	33.2	18.4
1925-1927	-0.8	-3.0	13.1	7.9	14.0	-0.8	3.7			-1.0	-12.5
1923-1925	-10.8	-7.3	-12.6	0.6	-15.7	-14.1	13.7			17.5	28.1
1921-1923	18.9	40.0				46.2	161.8			116.5	49.1
1919-1921	-55.7	-33.7				-32.1	-60.8			-51.5	-29.0
1910-1929	-54.3	-13.4	28.9	-30.3	58.8	-2.1	71.8	72.3	58.7	62.7	37.6
1909-1919	90.5	47.2	79.5	-18.8	284.5	127.0	148.4	158.6	22.7	127.5	84.8
1899-1909	71.4	18.3	106.4	49.7	2,116.1	47.8	63.6			38.9	6.2

<sup>1</sup> Not including salaried employees.

<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>4</sup> Not reported separately.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> No comparable data.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	537,606	539	14,869	197,781	\$24,214,895	\$209,846,438	\$202,615,534	\$7,229,904	\$271,094,446	\$61,249,008
<i>Counties<sup>3</sup></i>										
Beaverhead.....	6,054	7	36	209	68,039	86,481	79,393	7,088	208,833	117,352
Biaize.....	9,006	6	50	996	83,370	538,344	513,486	24,858	770,220	231,876
Carbon.....	12,571	14	99	449	103,727	414,727	405,800	8,927	702,038	287,311
Cascade.....	41,146	51	2,350	47,526	4,326,568	98,217,032	96,111,693	2,105,339	116,695,170	18,478,144
Custer.....	11,242	14	352	932	517,824	1,582,132	1,551,231	30,901	2,438,185	856,953
Deer Lodge.....	16,293	21	2,659	87,407	5,304,136	60,166,561	57,344,724	2,820,837	71,576,539	11,410,978
Fergus.....	16,631	21	285	4,309	479,944	3,084,823	2,880,705	204,118	4,588,234	1,503,411
Flathead.....	19,200	42	1,241	6,125	1,771,293	3,017,563	2,920,631	96,932	5,028,423	2,910,860
Gallatin.....	16,124	23	262	5,158	408,908	2,185,563	2,002,300	183,173	3,957,324	1,771,761
Granite.....	3,013	4	17	150	25,648	11,691	11,691		53,488	41,897
Hill.....	13,775	10	396	1,393	651,643	711,273	650,839	60,434	1,562,431	851,158
Jefferson.....	4,133	6	21	24	26,800	83,556	83,019	537	154,408	70,552
Lake.....	9,541	13	148	557	147,114	292,868	289,371	3,497	620,978	328,110
Lewis and Clark.....	18,224	20	617	6,513	1,050,340	13,230,969	12,389,181	841,788	16,474,949	3,243,880
Lincoln.....	7,089	22	754	5,387	1,108,770	623,040	467,344	55,990	2,600,772	2,137,732
Madison.....	6,323	4	9	53	3,800	58,095	56,923	1,172	88,827	30,732
Missoula.....	21,732	34	1,800	10,721	2,302,261	3,567,208	3,428,340	138,869	7,730,068	4,162,860
Musselshell.....	7,342	7	20	55	31,451	111,429	108,241	3,188	192,168	80,789
Park.....	10,622	15	510	2,435	794,693	113,412	669,117	44,295	1,731,328	1,017,910
Pondera.....	6,964	5	14	69	22,285	189,064	155,470	3,594	308,518	49,454
Ravall.....	10,315	16	184	637	229,984	804,765	785,942	18,823	1,235,139	400,374
Richland.....	9,633	7	94	1,819	104,664	1,089,462	1,049,687	39,875	1,626,412	539,950
Roosevelt.....	10,672	4	10	28	13,004	20,459	19,445	1,014	65,560	45,107
Sanders.....	5,602	15	363	541	467,401	1,061,412	1,048,564	12,848	1,918,141	851,729
Sheridan.....	9,869	6	11	88	15,150	38,193	35,212	2,981	77,081	38,888
Silver Bow.....	56,909	60	341	3,493	1,421,239	5,538,335	5,369,344	168,991	9,201,227	3,662,802
Stillwater.....	6,253	3	10	92	15,935	52,160	51,240	911	122,115	69,955
Sweet Grass.....	3,944	4	8	85	13,520	82,856	82,076	780	109,650	26,803
Valley.....	11,181	4	12	202	14,844	121,750	117,174	4,576	211,005	89,255
Wheatland.....	3,751	9	127	939	196,508	1,549,066	1,516,326	32,740	2,300,159	751,090
Yellowstone.....	30,785	48	889	5,841	1,323,591	5,613,442	5,438,032	175,610	9,014,750	3,401,108
All other counties <sup>4</sup> .....	120,767	65	680	3,537	1,063,213	5,118,307	4,982,785	135,522	6,820,288	1,701,981
<i>Cities having 10,000 inhabitants or more</i>										
Anaconda.....	12,494	13	124	1,610	250,798	251,335	206,379	44,956	686,866	455,531
Billings.....	16,380	40	598	3,032	1,002,249	2,043,917	2,867,405	70,512	5,030,447	2,086,530
Butte.....	39,532	50	607	2,241	1,021,044	2,261,184	2,122,182	139,002	4,330,600	2,669,416
Great Falls.....	28,322	40	1,014	5,247	1,628,302	5,858,315	5,715,169	143,146	9,864,729	4,006,414
Helena.....	11,803	24	246	621	414,900	577,907	530,420	47,871	1,405,721	827,724
Missoula.....	14,657	21	573	3,595	827,205	1,825,411	1,737,760	87,655	3,231,148	1,405,737

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.  
<sup>3</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately. In the case of Madison and Sweet Grass Counties, in which fewer than 10 wage earners were employed, statistics are here presented in order that comparison may be made with the corresponding figures for 1927 (published in mimeographed form).  
<sup>4</sup> Big Horn, Broadwater, Carter, Chouteau, Daniels, Dawson, Fallon, Garfield, Glacier, Golden Valley, Judith Basin, McCone, Meagher, Mineral, Petroleum, Phillips, Powder River, Powell, Prairie, Rosebud, Teton, Toole, Treasure, Wibaux Counties. (See footnote 3.) No manufacturing reported from Liberty County.

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup> .....	17,465	16,739	726	330	319	11	2 190	2 184	12	2 070	2 172	2 348	14,869	14,514	355
1919 <sup>2</sup> .....	20,692	19,666	1,026	1,200	1,161	39	184	178	6	2,148	1,719	429	17,160	16,603	557
1914 <sup>3</sup> .....	16,363	15,820	543	832	799	33	129	124	5	1,698	1,523	175	13,704	13,374	330
1909 <sup>4</sup> .....	13,694	13,387	307	659	645	14	80	88	1	1,291	1,189	102	11,655	11,465	190

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 8 (male). Other salaried officers and employees—total, 21; male, 6; female, 15. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.



TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929	14,869	14,253	14,222	14,351	14,805	14,908	15,012	14,950	15,457	14,744	15,088	15,569	<i>14,174</i>	88.7
1919	17,160	17,539	16,890	16,603	<i>16,339</i>	17,062	17,719	17,554	16,906	16,973	17,421	18,228	16,786	89.1
1914	13,704	14,260	13,154	13,187	14,395	15,172	15,280	15,877	13,232	12,386	12,920	<i>12,968</i>	12,417	78.9
1909	11,655	10,873	<i>10,772</i>	10,900	10,874	11,292	11,195	11,550	11,841	12,435	13,127	12,996	12,003	82.1

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	589	14,869	45 and over but under 48.....	11	608
Not reported.....	54	106	48.....	253	6,920
Under 40.....	4	4	Over 48 but under 54.....	9	81
40.....	8	25	54.....	73	2,224
Over 40 but under 44.....	4	7	Over 54 but under 60.....	60	3,995
44 and over but under 45.....	56	415	60 and over.....	67	424

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$6,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	589	1,290	677	14,869	17,160	11,055	51 to 100.....	20	12	15	1,412	878	1,182
No wage earners.....	22	203	92				101 to 250.....	15	16	10	2,414	2,117	1,491
1 to 5.....	336	854	414	897	1,647	900	251 to 500.....	10	11	7	3,920	3,657	2,363
6 to 20.....	138	139	99	1,413	1,526	1,100	501 to 1,000.....	4	5	2	1,414	3,325	1,514
21 to 50.....	43	50	37	1,320	1,859	1,104	1,001 to 2,500.....	1	1	1		2,151	2,001

<sup>1</sup> Combined to avoid disclosing number of wage earners reported by an individual establishment.

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	589	1,290	677	14,869	17,160	11,655	\$271,094,446	\$166,664,518	\$73,271,793	\$61,249,008	\$44,512,594	\$24,091,554
Less than \$5,000.....	( <sup>2</sup> )	445	201	( <sup>2</sup> )	289	227	( <sup>2</sup> )	1,288,673	649,143	( <sup>2</sup> )	876,010	457,008
\$5,000 to \$19,999.....	240	474	236	690	1,008	754	2,577,153	4,752,545	2,437,212	1,704,919	2,871,270	1,535,283
\$20,000 to \$99,999.....	205	247	118	1,468	1,942	1,708	9,295,294	10,995,909	5,092,318	4,711,370	5,161,393	3,108,691
\$20,000 to \$49,999.....	132	( <sup>3</sup> )	( <sup>3</sup> )	721	( <sup>3</sup> )	( <sup>3</sup> )	4,296,806	( <sup>3</sup> )	( <sup>3</sup> )	2,327,398	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	73	( <sup>3</sup> )	( <sup>3</sup> )	747	( <sup>3</sup> )	( <sup>3</sup> )	4,998,489	( <sup>3</sup> )	( <sup>3</sup> )	2,385,972	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	91	86		2,521	3,738		18,812,455	18,010,547		8,149,992	8,461,388	
\$100,000 to \$249,999.....	67	( <sup>3</sup> )		1,841	( <sup>3</sup> )		10,013,324	( <sup>3</sup> )		4,539,607	( <sup>3</sup> )	
\$250,000 to \$499,999.....	24	( <sup>3</sup> )	56	1,180	( <sup>3</sup> )	4,836	8,599,131	( <sup>3</sup> )	15,221,904	3,610,325	( <sup>3</sup> )	8,024,045
\$500,000 to \$999,999.....	26	17		2,590	1,717		17,063,816	12,150,766		8,190,157	4,410,262	
\$1,000,000 and over.....	27	21	6	7,700	8,468	4,130	223,545,728	119,815,088	49,871,216	38,492,570	22,742,262	10,965,927
\$1,000,000 to \$2,499,999.....	17	( <sup>3</sup> )	( <sup>3</sup> )	3,728	( <sup>3</sup> )	( <sup>3</sup> )	23,154,603	( <sup>3</sup> )	( <sup>3</sup> )	10,575,243	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	4	( <sup>3</sup> )	( <sup>3</sup> )	458	( <sup>3</sup> )	( <sup>3</sup> )	11,734,862	( <sup>3</sup> )	( <sup>3</sup> )	2,702,853	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	6	( <sup>3</sup> )	( <sup>3</sup> )	3,514	( <sup>3</sup> )	( <sup>3</sup> )	186,656,263	( <sup>3</sup> )	( <sup>3</sup> )	25,214,474	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

CENSUS OF MANUFACTURES: 1929

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	589	1,290	14,869	17,160	\$271,094,446	\$166,604,618	\$61,249,008	\$44,512,694
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	269	353	13,496	14,839	262,597,564	153,484,358	57,077,986	38,298,647
Other forms of ownership or control (individual, partnership, etc.).....	320	937	1,433	2,321	8,496,882	13,179,660	4,171,072	6,213,947
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	95	( <sup>1</sup> )	9,608	( <sup>1</sup> )	231,012,139	( <sup>1</sup> )	43,294,776	( <sup>1</sup> )
Independent (single-unit).....	494	( <sup>1</sup> )	5,261	( <sup>1</sup> )	40,082,307	( <sup>1</sup> )	17,954,232	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horsepower
The State:			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower
1929.....	197,781	35,947	187	22,455	18	9,006	71	2,530	8	1,956	6,021	161,834	617	13,311
1927.....	188,890	39,189	215	29,442	17	5,299	93	2,805	8	1,623	4,963	149,221	557	12,808
1925.....	166,628	36,302	217	29,224	8	3,650	46	1,078	4	2,350	4,568	130,226	432	12,808
1919 <sup>1</sup> .....	153,489	51,579	307	58,865	7	3,234	224	1,484	23	7,998	3,715	101,910	205	4,297
1914 <sup>1</sup> .....	91,671	63,873	303	62,918	( <sup>2</sup> )	( <sup>2</sup> )	131	820	28	10,185	1,625	27,798	177	10,311
Counties in which aggregate horsepower exceeded \$5,000: 1929														
Cascade.....	47,528	447	17	368			3	79			1,101	47,079		
Dear Lodge.....	87,407	7,220	9	5,405	3	475			2	1,340	2,146	30,187	85	4,140

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.  
<sup>2</sup> Reported as "Steam engines and turbines."  
<sup>3</sup> Not reported separately. See footnote 2.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

[This table presents statistics for each county\* for which separate figures are given in Table 2. See footnotes 3 and 4 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	197,781	35,947	161,834	13,311	Madison.....	63	46	7	
Beaverhead.....	209	130	20	88	Missoula.....	10,721	5,328	5,393	3,876
Blaine.....	996	847	140	70	Musselshell.....	55		55	
Carbon.....	449	60	389		Park.....	2,435	538	1,897	
Cascade.....	47,528	447	47,079		Pondera.....	89	15	54	
Custer.....	932	546	386	1,092	Ravalli.....	637	330	307	
Dear Lodge.....	87,407	7,220	80,187	4,140	Richland.....	1,819	1,760	59	850
Fergus.....	4,309	355	3,954		Roosevelt.....	23	3	25	
Flathead.....	6,125	5,037	1,088	710	Sanders.....	541	419	122	( <sup>2</sup> )
Gallatin.....	5,158	307	4,851		Sheridan.....	88	50	38	
Granite.....	156	150	6		Silver Bow.....	3,493	665	2,798	765
Hill.....	1,293	259	1,134		Stillwater.....	92	80	12	
Jefferson.....	24		24		Sweet Grass.....	85	71	14	
Lake.....	557	495	62		Valley.....	202	150	52	
Lewis and Clark.....	6,518	170	6,348		Wheatland.....	939	10	929	
Lincoln.....	5,387	5,381	6	608	Yellowstone.....	5,841	3,953	1,883	781
					All other counties.....	3,537	990	2,547	334

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.  
<sup>2</sup> Item for Sanders County included with that for "All other counties" to avoid disclosing data for a single establishment.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	482,335	\$1,870,531	440,455	500,581	530,504	578,857	625,111
Anthracite (tons, 2,240 pounds).....	1,722	9,368	( <sup>3</sup> )	1,511	234	556	435
Bituminous (tons, 2,000 pounds).....	480,406	1,861,165	( <sup>3</sup> )	508,880	539,302	578,234	624,624
Coke (tons, 2,000 pounds).....	45,043	617,021	( <sup>3</sup> )	( <sup>3</sup> )	64,705	106,481	265,279
Fuel oils, including crude oils and gas oils (gallons) <sup>4</sup> .....	14,359,277	605,985	( <sup>3</sup> )	( <sup>3</sup> )	945,714	1,030,512	124,002
Gasoline and kerosene (gallons) <sup>4</sup> .....	192,126	51,256	( <sup>3</sup> )	( <sup>3</sup> )	73,038		
Gas, natural (M cubic feet).....	2,919,379	510,200	( <sup>3</sup> )	( <sup>3</sup> )	97,410	11,211	2,807
Gas, manufactured (M cubic feet).....	5,421	6,129	( <sup>3</sup> )	( <sup>3</sup> )			
Other fuels.....		51,034	( <sup>3</sup> )	( <sup>3</sup> )			
Electric energy purchased (kilowatt-hours).....	818,476,124	3,674,980	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Total cost of fuel and purchased energy.....		7,303,737	Cost \$6,996,955	Cost (\$)	Cost \$4,556,072	Cost \$4,468,487	Cost \$3,712,840

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.

<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

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

<sup>4</sup> No data.

<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.

<sup>6</sup> Data incomplete.

<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.

<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	589	2,266	14,869	35,947	161,834	\$5,254,012	\$24,214,895	\$202,615,534	\$7,220,904	\$271,004,446	\$61,240,008
Awnings, tents, sails, and canvas covers.....	3	1	6	—	5	( <sup>3</sup> )	5,227	21,827	245	46,510	24,444
Beverages.....	22	21	53	—	28	33,032	83,977	153,876	12,856	415,354	240,122
Bread and other bakery products.....	82	40	469	—	788	110,077	668,022	1,764,028	104,852	3,748,856	1,880,446
Butter.....	54	88	272	207	1,474	160,136	362,483	5,485,938	90,883	6,869,666	1,292,345
Canning and preserving; Fruits and vegetables; pickles, jellies, preserves, and sauces.....	5	23	152	10	256	47,918	130,698	513,013	9,188	1,125,345	608,144
Car and general construction and repairs, electric-railroad repair shops.....	4	4	50	65	184	12,225	118,688	52,588	5,210	188,715	130,013
Car and general construction and repairs, steam-railroad repair shops.....	25	226	3,406	2,646	8,502	562,608	5,631,153	3,153,519	334,843	9,033,123	6,194,761
Cheese.....	6	—	4	41	2	—	4,673	106,277	1,894	138,100	20,989
Cigars and cigarettes.....	5	1	13	—	4	( <sup>3</sup> )	18,195	32,469	825	67,689	34,395
Clay products (other than pottery) and nonclay refractories.....	9	13	120	120	1,650	31,754	168,985	62,084	76,132	465,006	326,790
Coffee and spice, roasting and grinding.....	4	2	9	—	50	( <sup>3</sup> )	12,720	197,769	2,569	268,827	68,499
Confectionery.....	5	5	18	—	12	7,957	17,149	60,384	0,995	107,803	39,084
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	3	14	—	11	8,760	18,837	64,955	740	118,913	53,132
Flour and other grain-mill products.....	31	105	264	1,980	4,581	232,181	398,693	10,025,481	137,600	13,363,363	3,200,272
Foundry and machine-shop products, not elsewhere classified.....	11	43	381	75	2,292	121,012	702,155	563,893	96,807	1,602,156	941,456
Fur goods.....	3	2	14	—	50	( <sup>3</sup> )	15,435	54,146	1,220	99,793	44,427
Ice cream.....	5	1	10	—	83	( <sup>3</sup> )	13,895	56,801	4,611	118,181	56,769
Ice, manufactured.....	5	11	23	—	568	33,460	35,653	5,252	23,750	123,724	94,722
Lumber and timber products, not elsewhere classified.....	86	253	3,501	14,817	2,841	618,217	4,597,880	3,409,182	106,646	11,554,627	8,038,799
Marble, granite, slate, and other stone products.....	7	11	34	64	229	25,409	51,903	20,184	4,315	172,271	147,772
Meat packing, wholesale.....	16	50	247	20	957	100,236	304,009	5,393,496	47,303	7,026,760	1,535,960
Petroleum refining.....	17	79	168	547	409	182,760	270,787	6,978,426	57,859	8,400,230	1,372,945
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	11	14	157	958	1,668	32,650	191,032	430,280	8,944	796,362	367,158
Printing and publishing, book and job.....	21	69	170	—	251	147,883	277,440	263,499	11,945	899,294	628,850
Printing and publishing, newspaper and periodical.....	95	394	712	28	1,844	831,749	1,233,987	936,727	60,906	4,222,014	3,218,331
Sugar, beet.....	4	59	356	6,427	192	116,957	425,039	3,074,792	156,442	4,994,364	1,763,130
Other industries.....	50	739	4,235	7,852	132,598	1,837,701	8,366,271	159,734,143	5,859,789	194,469,285	28,875,363

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 29 employees of central administrative offices, with salaries aggregating \$108,345. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

# NEBRASKA

TABLE I.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1920.....	1,491	28,212	109,210	63,411	105,799	\$30,881,112	\$304,174,710	\$357,509,696	\$6,665,014	\$484,168,409	\$119,993,699
1927.....	1,277	26,110	141,506	70,087	71,410	84,296,241	326,917,490	319,990,229	6,927,261	420,296,190	93,378,700
1925.....	1,306	27,200	133,708	68,669	65,039	86,021,367	348,897,110	( <sup>5</sup> )	( <sup>5</sup> )	443,308,700	94,911,590
1923.....	1,379	31,267	120,999	63,647	57,362	39,760,607	314,026,622	( <sup>5</sup> )	( <sup>5</sup> )	416,056,943	101,030,021
1921.....	1,390	27,655	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	37,394,604	240,177,520	( <sup>5</sup> )	( <sup>5</sup> )	338,505,107	87,387,578
1919.....	2,884	36,521	125,769	79,592	46,177	46,066,755	480,774,122	473,636,425	7,137,697	596,042,498	115,268,376
1914.....	2,492	25,144	89,258	70,464	18,794	16,895,345	174,113,684	171,362,700	2,760,984	221,615,848	47,502,164
1909.....	2,500	24,336	64,256	56,720	7,530	13,947,845	151,080,671	148,788,301	2,292,670	199,018,679	47,937,608
1904.....	1,819	20,280	46,245	43,881	2,364	11,022,149	124,051,028	122,419,996	1,637,652	164,918,220	30,890,592
1899.....	1,695	18,689	41,474	40,608	866	8,842,429	95,925,178	( <sup>5</sup> )	( <sup>5</sup> )	130,302,453	34,377,275
PER CENT OF INCREASE OR DECREASE (—)											
1927-1920.....	16.8	8.1	19.6	-9.5	48.1	7.5	11.4	11.7	-3.8	15.2	28.5
1925-1927.....	-2.2	-4.0	5.8	2.1	9.8	-4.8	-6.2			-5.2	-1.6
1923-1925.....	-5.3	-13.0	10.5	7.9	13.4	-9.4	10.9			6.8	-6.1
1921-1923.....	-0.8	13.1				6.3	27.0			24.4	15.6
1919-1921.....	-51.8	-24.3				-18.8	-48.8			-44.0	-24.2
1919-1929.....	-48.3	-22.8	34.5	-20.3	129.1	-19.9	-24.3	-24.5	-6.6	-18.8	4.1
1909-1919.....	15.4	50.1	95.7	40.3	513.2	220.3	218.2	218.3	211.3	109.5	140.5
1899-1909.....	47.5	30.4	54.9	39.7	769.6	57.7	57.5			52.7	39.4

<sup>1</sup> Not including salaried employees.

<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>4</sup> Not reported separately.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> No comparable data.

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY OR CITY	Popula- tion, 1930	Number of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PROD- UCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manu- facture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	1,377,963	1,401	28,212	169,210	\$30,881,112	\$364,174,710	\$357,509,696	\$6,665,014	\$484,168,409	\$119,903,699
<i>Counties<sup>3</sup></i>										
Adams.....	26,275	45	618	2,988	736,481	3,890,814	3,745,602	145,212	6,350,692	2,459,878
Antelope.....	15,206	9	13	371	13,245	214,693	210,911	3,782	332,866	118,173
Boone.....	14,738	9	23	158	27,937	112,054	107,799	4,255	191,121	79,067
Box Butte.....	11,861	9	294	766	479,626	1,396,207	1,329,129	67,078	2,205,335	800,123
Brown.....	5,772	9	43	451	65,194	286,762	273,526	13,236	432,600	145,738
Buffalo.....	24,338	22	121	951	161,167	1,154,376	1,105,231	49,145	1,725,735	571,359
Burt.....	13,062	8	33	334	37,622	44,027	33,823	10,204	131,435	87,408
Butler.....	14,410	10	22	406	28,634	95,813	88,918	6,895	232,145	130,332
Cass.....	17,084	13	407	7,229	599,237	960,261	622,737	337,524	2,422,113	1,401,852
Cedar.....	16,427	10	28	152	20,445	90,791	92,942	6,849	432,030	115,248
Chase.....	5,484	7	11	158	8,400	72,284	71,200	1,084	110,930	38,046
Cheyenne.....	10,187	9	75	516	116,784	195,972	179,607	16,465	406,097	210,125
Clay.....	13,671	10	48	703	49,154	370,227	360,814	9,413	534,202	163,975
Colfax.....	11,484	9	35	1,082	38,430	468,973	456,684	12,289	647,881	178,908
Cuming.....	14,327	10	26	109	26,436	68,710	61,068	7,642	172,619	103,900
Custer.....	26,189	9	18	102	21,691	38,115	32,275	5,840	117,427	70,312
Dawes.....	11,493	13	185	932	299,390	374,065	333,499	40,566	809,390	435,325
Dawson.....	17,876	19	66	616	78,555	745,390	726,528	18,862	1,036,840	291,450
Dixon.....	11,686	4	4	13	6,563	9,763	8,634	1,129	32,852	23,089
Dodge.....	25,273	40	447	2,006	486,058	3,879,069	3,795,160	84,509	5,557,430	1,077,761
Douglas <sup>4</sup> .....	232,982	445	16,339	82,959	21,636,998	280,042,287	276,882,987	3,159,280	355,635,684	75,593,417
Fillmore.....	12,971	10	41	181	48,376	75,999	71,033	4,966	231,151	155,152
Franklin.....	9,094	7	15	166	17,301	158,548	152,392	6,156	203,804	105,316
Furnas.....	12,140	12	30	342	33,732	398,979	389,681	8,998	552,484	153,805
Gage.....	30,242	33	738	3,062	906,342	4,825,621	4,706,798	118,823	7,399,890	2,574,269
Greeley.....	8,442	6	10	554	9,736	263,255	260,577	2,708	328,738	65,453
Hall.....	27,117	43	589	4,844	720,112	4,225,134	4,016,528	208,606	6,527,900	2,302,766
Hamilton.....	12,159	8	41	340	48,732	1,172,591	1,157,190	15,401	1,417,206	244,615
Hitchcock.....	7,269	11	28	415	28,324	108,527	99,505	9,022	175,856	69,329
Holt.....	10,609	8	34	93	40,374	392,584	387,455	5,129	498,149	105,565
Howard.....	10,020	7	15	67	17,411	89,891	87,139	2,752	136,834	40,943
Jefferson.....	16,409	17	256	1,397	303,499	1,523,386	1,456,702	71,684	2,230,853	702,467
Johnson.....	9,157	8	44	133	45,869	288,041	283,893	4,108	401,450	113,409
Kearney.....	8,094	6	25	239	27,866	152,218	147,552	4,666	294,558	102,340
Keith.....	6,721	8	48	57	64,246	224,830	221,393	3,437	459,473	234,043
Kimball.....	4,676	5	13	24	13,831	93,491	88,779	4,712	142,782	49,291
Knox.....	19,110	13	40	305	40,086	248,504	242,282	6,222	395,934	147,430
Lancaster.....	100,324	104	3,993	20,033	4,135,236	16,978,777	16,427,101	551,616	28,829,736	11,850,959
Lincoln.....	25,627	18	469	2,900	713,080	935,042	842,666	92,376	2,093,059	1,158,017
Madison.....	26,037	34	391	1,580	488,532	2,394,021	2,304,990	89,031	3,848,356	1,454,335
Merrick.....	10,619	12	50	412	59,620	457,688	450,514	7,174	651,520	193,852
Nance.....	8,718	5	7	41	8,045	142,167	139,935	2,232	190,701	48,534
Nemaha.....	12,356	6	15	190	16,180	73,528	68,833	4,695	133,169	59,631
Nuckolls.....	12,629	15	199	3,283	260,433	2,460,820	2,156,620	313,200	3,428,512	958,692
Phelps.....	9,261	9	47	360	55,233	379,818	364,339	14,979	557,344	177,616
Platte.....	21,181	24	165	1,565	194,108	1,281,771	1,242,688	39,083	1,836,200	554,519
Polk.....	10,692	5	7	134	6,160	15,967	15,246	721	48,635	32,668
Redwillow.....	13,859	17	265	633	414,074	432,727	395,941	36,786	1,074,914	642,187
Richardson.....	19,826	19	179	1,232	281,707	1,369,175	1,327,877	41,298	2,043,594	674,419
Sarpy.....	10,402	3	11	119	11,958	45,574	40,468	5,111	95,414	49,840
Saunders.....	20,187	12	44	296	66,370	354,761	345,441	8,320	655,372	300,611
Seward.....	15,938	10	40	586	45,060	334,175	327,431	6,744	402,254	128,079
Sheridan.....	10,793	9	19	160	18,223	97,554	65,404	2,150	128,308	60,754
Stanton.....	7,809	6	10	42	11,579	188,750	186,355	2,404	240,401	51,642
Thayer.....	13,684	13	234	505	134,381	582,655	570,250	3,978	944,215	361,560
Valley.....	9,533	6	17	154	10,835	197,906	192,810	5,096	287,728	89,822
Washington.....	12,095	14	65	327	54,622	180,136	165,877	14,259	347,856	167,720
Wayne.....	10,506	7	22	87	31,236	66,177	62,510	3,667	149,423	83,246
Webster.....	10,210	11	27	226	25,064	237,186	233,208	3,978	409,379	172,193
York.....	17,239	15	86	580	98,090	229,215	199,529	29,686	480,748	251,533
All other counties <sup>5</sup> .....	218,695	127	1,927	18,538	2,369,294	25,995,549	25,093,529	902,020	34,513,946	8,518,397
<i>Cities having 10,000 inhabitants or more</i>										
Beatrice.....	10,297	24	498	1,950	577,986	4,042,577	3,958,521	84,056	5,976,092	1,933,515
Fre蒙特.....	11,407	33	385	1,511	438,266	3,684,806	3,606,290	78,516	5,173,022	1,488,215
Grand Island.....	18,041	37	522	2,801	637,884	3,645,963	3,438,224	192,739	5,645,029	1,999,066
Hastings.....	15,490	38	554	2,483	650,386	3,809,547	3,695,115	114,432	6,048,241	2,238,694
Lincoln.....	75,933	150	1,889	9,002	2,301,195	13,173,808	12,778,043	395,763	22,812,816	9,639,010
Norfolk.....	10,717	20	170	951	216,359	1,664,924	1,616,783	48,141	2,666,404	1,001,567
North Platte.....	12,061	15	379	1,177	570,551	881,534	807,096	74,438	1,760,911	873,380
Omaha <sup>4</sup> .....	214,006	431	16,108	82,003	21,356,639	278,920,235	275,792,637	3,127,598	352,835,338	73,915,103

<sup>1</sup> Not including salaried employees.

<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

<sup>3</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately. In the cases of Dixon, Nance, and Polk Counties, in which fewer than 10 wage earners were employed, statistics are here presented in order that comparison may be made with the corresponding figures for 1927 (published in mimeographed form).

<sup>4</sup> Because of the amount of manufacturing industry in Douglas County and in the city of Omaha, it had been planned to publish statistics by industries for both the county and the city. It is found, however, that no figures can be given for the most important industry—namely, "Meat packing, wholesale"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given either for the county or for the city, would be misleading, and therefore no such statistics are included in this report.

<sup>5</sup> Boyd, Cherry, Dakota, Deuel, Dundy, Frontier, Garden, Garfield, Gosper, Grant, Harlan, Hayes, Keyapaha, Logan, Morrill, Otoe, Pawnee, Perkins, Pierce, Rock, Saline, Scotts Bluff, Sherman, Sioux, and Thurston Counties. (See footnote 3.) No manufacturing was reported from Arthur, Banner, Blaine, Hooker, Loup, McPherson, Thomas, and Wheeler Counties.

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	35,082	30,263	5,419	930	876	55	1,720	1,681	39	5,814	2,409	2,175	28,212	24,648	3,564
1919 <sup>1,2</sup>	49,076	41,370	7,607	2,916	2,786	130	741	711	30	8,898	6,607	2,291	36,521	31,275	5,246
1914 <sup>3</sup>	33,005	28,682	5,013	2,472	2,304	168	509	493	16	5,570	4,385	1,185	25,144	21,440	3,704
1909 <sup>4</sup>	31,966	27,557	4,409	2,522	2,425	97	342	334	8	4,766	3,857	909	24,330	20,941	3,389

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1920.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 57; male, 55; female, 2. Other salaried officers and employees—total, 331; male, 192; female, 139. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	28,212	26,274	<i>26,072</i>	26,326	27,297	27,772	28,905	28,903	29,358	29,373	30,246	29,079	28,930	86.2
1919 <sup>1</sup>	36,521	30,545	36,032	<b>34,450</b>	34,938	34,748	36,477	36,676	37,633	37,760	37,830	38,038	38,189	100.2
1914 <sup>1</sup>	25,144	24,159	<i>23,704</i>	24,193	24,500	25,147	25,802	25,720	26,795	26,210	26,017	24,852	24,653	88.5
1909 <sup>1</sup>	24,330	<i>22,138</i>	23,263	22,994	23,744	24,277	24,748	24,742	25,028	25,945	25,373	24,920	24,251	85.3

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1920 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	1,401	28,212	45 and over but under 48	48	4,028
Not reported	177	409	48	303	8,210
Under 40	12	70	Over 48 but under 54	117	3,082
40	14	1,042	54	165	2,255
Over 40 but under 44	6	50	Over 54 but under 60	95	2,677
44 and over but under 45	109	3,295	60 and over	355	3,110

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1920 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909	
All establishments	1,401	2,884	2,500	28,212	36,521	24,336	51 to 100	40	55	39	2,876	3,015	2,650	
No wage earners	66	554	481				101 to 250	35	30	14	5,081	4,531	2,113	
1 to 5	875	1,800	1,504	2,258	3,569	3,043	251 to 500	8	10	0	2,054	3,321	2,878	
6 to 20	345	316	305	3,521	3,507	3,252	501 to 1,000	3	5	2	1,995	3,028	1,243	
21 to 50	115	109	82	3,046	3,454	2,708	1,001 to 2,500	4		4	6,181		6,451	
							2,501 and over		5			11,106		

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TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,491	2,884	2,500	28,212	36,521	24,336	\$484,168,409	\$596,042,498	\$199,018,579	\$110,993,699	\$115,268,376	\$47,937,608
Less than \$5,000.....	(2)	963	1,269	(2)	536	1,089	(2)	2,500,345	2,951,130	(2)	1,628,628	1,907,985
\$5,000 to \$19,999.....	635	1,029	685	1,407	2,198	2,477	6,945,592	10,273,250	6,778,610	4,420,127	5,773,777	3,844,645
\$20,000 to \$99,999.....	508	572	399	3,322	4,036	4,220	23,637,036	26,155,749	17,100,526	12,170,788	11,097,371	6,781,959
\$20,000 to \$49,999.....	317	(3)	(3)	1,569	(3)	(3)	10,054,488	(3)	(3)	5,376,028	(3)	(3)
\$50,000 to \$99,999.....	191	(3)	(3)	1,753	(3)	(3)	13,582,548	(3)	(3)	6,794,760	(3)	(3)
\$100,000 to \$499,999.....	249	231		6,467	6,834		53,866,928	52,104,131		24,456,606	19,820,323	
\$100,000 to \$249,999.....	179	(3)		3,209	(3)		28,720,883	(3)		13,409,353	(3)	
\$250,000 to \$499,999.....	70	(3)	133	3,258	(3)	7,862	25,140,045	(3)	35,055,151	11,047,253	(3)	13,363,538
\$500,000 to \$999,999.....	43	34		2,657	2,936		29,274,137	24,575,469		11,715,480	8,781,178	
\$1,000,000 and over.....	56	55	17	14,349	20,071	8,688	379,450,716	480,403,554	137,133,162	67,230,698	68,167,099	22,039,481
\$1,000,000 to \$2,499,999.....	33	(3)	(3)	4,199	(3)	(3)	50,799,125	(3)	(3)	17,882,360	(3)	(3)
\$2,500,000 to \$4,999,999.....	14	(3)	(3)	2,798	(3)	(3)	48,628,726	(3)	(3)	14,388,098	(3)	(3)
\$5,000,000 and over.....	9	(3)	(3)	7,352	(3)	(3)	271,024,865	(3)	(3)	34,960,240	(3)	(3)

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	1,491	2,884	28,212	36,521	\$484,168,409	\$596,042,498	\$119,993,699	\$115,268,376
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	625	649	24,448	31,499	453,060,990	555,935,574	105,839,098	100,758,225
Other forms of ownership or control (individual, partnership, etc.).....	866	2,235	3,764	5,022	31,107,419	40,106,924	14,154,601	14,510,151
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	173	(1)	16,226	(1)	362,693,918	(1)	68,180,685	(1)
Independent (single-unit).....	1,318	(1)	11,986	(1)	121,474,491	(1)	51,813,014	(1)

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR DOUGLAS COUNTY, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY												ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING	
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number	Horsepower		
The State:			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower
1929.....	169,210	63,411	305	42,563	44	14,804	94	4,157	23	1,887	12,040	105,790	1,872	24,169
1927.....	141,596	70,087	250	46,294	52	15,507	137	5,490	35	2,796	8,826	71,410	2,781	36,137
1925.....	133,708	68,609	274	46,901	44	14,451	133	4,935	34	2,382	7,848	65,030	1,858	31,008
1919 <sup>1</sup> .....	125,769	79,592	433	57,332	31	9,117	682	8,203	81	4,940	6,285	46,177	1,970	26,572
1914 <sup>1</sup> .....	89,268	70,464	531	58,006	(3)	(3)	754	6,724	108	5,674	2,903	18,794	1,242	14,019
Douglas County <sup>4</sup> .....	82,959	24,483	112	15,825	28	8,493	3	165			6,176	58,476	775	4,976

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

<sup>4</sup> This is the only county in Nebraska in which the aggregate horsepower equaled or exceeded 25,000.



## CENSUS OF MANUFACTURES: 1929

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

[This table presents statistics for each county for which separate figures are given in Table 2. See headnote on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	27,197	18,809	8,388	7,222	Counties—Continued				
Churchill.....	471	25	446		Nye.....	72		72	
Clark.....	3,402	3,347	55	1,821	Ormsby.....	188	70	118	
Elko.....	481	307	174		Fershing.....	249	200	49	10
Humboldt.....	36	15	21		Washoe.....	8,440	2,700	5,740	1,391
					All other counties <sup>2</sup> .....	13,849	12,145	1,704	4,000

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.<sup>2</sup> Douglas, Esmeralda, Eureka, Lander, Lincoln, Lyon, Mineral, and White Pine Counties. No manufacturing was reported from Storey County.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	44,893	\$241,051	213,677	149,501	117,444	44,917	70,670
Anthracite (tons, 2,240 pounds).....	2,875	9,257	( <sup>3</sup> )	638	15	63	115
Bituminous (tons, 2,000 pounds).....	41,897	231,794	( <sup>3</sup> )	148,780	117,427	44,846	70,541
Coke (tons, 2,000 pounds).....	125	2,074	( <sup>3</sup> )	( <sup>3</sup> )	26,104	18,393	328
Fuel oils, including crude oils and gas oils (gallons) <sup>4</sup> .....	12,920,495	376,913	( <sup>3</sup> )	( <sup>3</sup> )	10,302,138	23,320,332	2,244,858
Gasoline and kerosene (gallons) <sup>4</sup> .....	20,888	3,118	( <sup>3</sup> )	( <sup>3</sup> )	12,978		
Gas, natural (M cubic feet).....			( <sup>3</sup> )	( <sup>3</sup> )			
Gas, manufactured (M cubic feet).....	1,108	1,250	( <sup>3</sup> )	( <sup>3</sup> )	5,859	831	174
Other fuels.....		13,544	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Electric energy purchased (kilowatt-hours).....	6,670,667	131,789	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Total cost of fuel and purchased energy.....		7769,739	Cost \$1,109,438	Cost ( <sup>3</sup> )	Cost \$1,492,710	Cost \$1,291,536	Cost \$568,628

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.<sup>3</sup> Not tabulated separately.<sup>4</sup> No data.<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.<sup>6</sup> Data incomplete.<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents statistics for all industries for which separate figures can be given without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other industries," however, reported larger numbers of wage earners and larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	123	3,364	2,200	18,800	8,388	\$813,640	\$3,585,425	\$24,900,633	\$751,238	\$33,717,059	\$8,065,188
Beverages.....	8	8	15	10	210	17,660	22,181	43,768	4,739	136,830	88,323
Bread and other bakery products.....	14	17	65		129	27,232	103,282	320,464	14,597	576,342	241,281
Butter.....	7	8	30		55	13,748	36,152	806,210	11,103	1,050,563	143,220
Car and general construction and repairs, steam-railroad repair shops.....	17	102	1,222	2,362	2,654	259,681	2,053,272	1,342,360	190,228	3,857,357	2,318,769
Ice, manufactured.....	6	9	58	550	1,618	13,951	98,095	6,611	39,101	275,205	229,493
Printing and publishing, book and job.....	5	7	30		42	14,069	62,258	60,015	2,249	208,900	146,636
Printing and publishing, newspaper and periodical.....	25	66	93		222	135,129	179,869	90,633	12,110	735,926	633,163
Wall plaster, wall board, insulating board, and floor composition.....	3	18	109	3,350	822	45,301	160,326	249,092	73,639	781,408	458,677
Other industries.....	33	129	578	12,482	2,434	285,869	864,990	21,891,430	397,472	26,094,558	3,805,606

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>2</sup> Value of product less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>3</sup> Not including 8 employees of central administrative offices, with salaries aggregating \$22,887. See GENERAL EXPLANATIONS—Persons Engaged.

## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	1,491	6,540	28,212	63,411	105,799	\$14,466,307	\$36,881,112	\$357,509,690	\$6,665,014	\$484,168,409	\$119,993,699
Agricultural implements.....	4	21	94	-----	188	44,531	121,591	201,281	14,467	662,255	380,507
Awnings, tents, sails, and canvas covers.....	8	39	105	-----	135	70,880	108,543	309,557	6,482	638,432	322,393
Beverages.....	50	33	160	565	522	65,738	183,407	800,797	38,082	937,723	588,844
Bookbinding and blank-book making.....	6	13	25	-----	31	35,683	29,670	68,355	1,483	240,259	170,421
Boxes, wooden, except cigar boxes.....	6	13	112	155	268	30,730	69,591	343,337	7,364	618,406	267,736
Bread and other bakery products.....	217	219	2,164	113	3,801	465,840	2,432,672	6,914,067	323,312	16,362,507	9,145,138
Brushes, other than rubber.....	3	7	20	-----	60	9,384	20,725	47,278	2,156	116,367	66,923
Butter.....	88	448	870	3,463	7,163	1,113,086	1,140,542	39,206,298	415,370	47,873,628	8,261,460
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	10	28	330	210	692	60,867	173,370	1,317,583	23,658	1,759,738	418,407
Car and general construction and repairs, steam-railroad repair shops.....	25	306	4,380	10,136	15,945	820,648	6,807,597	5,753,281	506,118	13,887,644	7,628,245
Caskets, coffins, burial cases, and other morticians' goods.....	5	25	42	-----	28	58,474	42,366	154,845	4,002	375,038	216,161
Cheese.....	12	7	28	124	80	9,168	33,326	620,700	10,524	786,855	155,541
Cigars and cigarettes.....	11	13	109	-----	12	20,772	63,052	115,723	1,317	297,348	179,808
Clay products (other than pottery) and nonclay refractories.....	15	37	203	910	1,904	90,790	287,304	85,340	150,105	915,634	680,180
Coffee and spice, roasting and grinding.....	8	73	279	-----	668	154,581	232,831	4,773,615	22,749	5,838,207	1,041,843
Compressed and liquefied gases.....	4	51	28	-----	534	95,543	44,188	107,014	37,089	452,864	307,861
Concrete products.....	26	39	129	75	401	75,146	155,513	282,865	9,620	704,402	411,887
Confectionery.....	11	66	235	290	314	102,496	157,510	476,535	17,919	1,075,186	580,732
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	16	49	118	-----	312	121,355	155,657	450,968	8,570	1,020,354	560,881
Druggists' preparations.....	11	63	108	20	151	100,177	128,716	1,142,913	11,140	2,163,010	1,008,957
Electrical machinery, apparatus, and supplies.....	4	24	76	-----	27	68,177	94,271	372,952	15,388	784,241	395,901
Fancy and miscellaneous articles, not elsewhere classified.....	3	8	33	-----	18	14,188	33,150	50,512	928	148,827	97,387
Feeds, prepared, for animals and fowls.....	13	31	98	33	3,017	56,829	117,803	2,213,303	27,538	2,725,407	484,476
Flour and other grain-mill products.....	96	287	687	5,476	9,569	634,061	833,809	23,628,345	384,480	29,679,918	5,567,093
Food preparations, not elsewhere classified.....	7	7	26	-----	50	18,615	20,637	236,267	3,062	366,001	125,772
Foundry and machine-shop products, not elsewhere classified.....	30	157	530	220	1,940	370,436	815,023	1,701,214	49,508	4,473,570	2,722,857
Fur goods.....	4	19	49	-----	17	54,401	62,234	153,201	2,001	299,436	144,234
Furniture, including store and office fixtures.....	19	71	410	-----	891	196,035	483,000	1,215,068	16,047	2,416,724	1,185,609
Gas, manufactured, illuminating and heating.....	17	159	253	2,063	982	289,642	328,472	4,109,926	817,926	3,487,142	2,258,290
Ice cream.....	41	95	224	317	2,953	197,812	205,561	1,684,014	96,830	3,516,140	1,836,305
Ice, manufactured.....	50	66	240	3,532	5,048	147,555	337,126	90,173	214,502	1,452,376	1,147,701
Jewelry.....	3	7	25	-----	12	11,379	36,017	10,642	200	74,309	63,458
Marble, granite, slate, and other stone products.....	11	49	105	-----	1,277	127,824	185,315	244,644	18,779	813,890	550,467
Mattresses and bed springs, not elsewhere classified.....	7	6	39	-----	219	8,758	45,588	132,161	4,407	289,902	153,334
Meat packing, wholesale.....	15	1,138	6,037	12,004	20,078	2,232,208	7,857,173	185,790,683	1,200,589	208,994,805	22,003,633
Motor-vehicle bodies and motor-vehicle parts.....	7	25	86	20	144	45,606	107,350	234,342	4,252	642,220	303,635
Paints and varnishes.....	7	36	93	-----	1,061	90,544	115,349	707,432	27,004	1,272,440	538,004
Patent or proprietary medicines and compounds.....	19	105	182	-----	225	219,893	275,032	477,554	6,253	1,729,643	1,245,736
Perfumes, cosmetics, and other toilet preparations.....	7	15	10	-----	11	23,652	17,609	78,116	1,030	230,383	151,238
Photo-engraving, not done in printing establishments.....	6	18	36	-----	38	60,914	71,604	24,497	2,327	215,166	188,342
Planing-mill products (including general millwork), not made in planing mills connected with saw mills.....	25	95	340	415	2,148	266,605	434,208	967,584	30,553	2,070,804	1,072,667
Poultry killing, dressing, and packing, wholesale.....	20	57	351	189	390	87,598	309,446	4,197,793	25,257	5,261,406	1,038,356
Printing and publishing, book and job.....	111	253	887	-----	1,807	663,430	1,458,874	1,722,231	63,984	5,481,445	3,695,230
Printing and publishing, newspaper and periodical.....	256	1,147	1,564	242	3,275	2,422,501	2,414,176	2,618,881	136,170	12,995,056	10,240,896
Saddlery and harness.....	6	35	85	-----	170	60,273	144,081	903,846	6,752	1,715,839	805,241
Shirts.....	4	15	16	-----	5	31,798	14,248	105,441	884	204,007	99,082
Signs and advertising novelties.....	8	53	134	-----	25	150,799	223,376	210,834	6,192	984,467	767,441
Statuary and art goods, factory product.....	3	-----	15	-----	6	-----	14,808	18,460	240	40,046	30,346
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	7	71	455	-----	2,000	185,157	645,657	1,375,632	19,511	2,867,675	1,472,532
Surgical and orthopedic appliances, including artificial limbs.....	3	2	12	-----	7	(*)	12,947	12,639	164	48,273	35,470
Wirework, not elsewhere classified.....	3	6	19	-----	51	8,450	19,735	59,400	1,023	145,951	85,438
Other industries.....	135	938	5,491	22,849	15,297	2,100,299	6,641,490	63,168,324	1,867,388	92,134,236	27,098,524

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including 388 employees of central administrative offices, with salaries aggregating \$1,016,125. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

# NEVADA

TABLE 1.—SUMMARY FOR THE STATE: 1899 to 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1921, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1920	123	2,200	27,197	18,809	8,388	\$3,585,425	\$25,651,871	\$24,000,033	\$751,238	\$33,717,059	\$8,065,188
1927	116	2,419	21,074	11,403	10,571	3,915,185	14,440,437	13,330,000	1,100,438	25,815,907	12,375,470
1926	102	2,670	14,004	7,074	7,530	4,473,555	12,084,423	( <sup>5</sup> )	( <sup>5</sup> )	21,026,698	9,542,245
1923	104	3,305	27,983	21,888	6,095	5,348,202	12,387,766	( <sup>5</sup> )	( <sup>5</sup> )	22,242,524	9,854,758
1921	107	2,393	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	4,019,923	7,895,667	( <sup>5</sup> )	( <sup>5</sup> )	13,370,864	5,475,197
1919	166	3,119	10,874	14,681	5,193	4,318,022	10,490,617	14,007,007	1,492,710	22,874,311	6,383,694
1914	180	3,655	18,744	14,481	4,263	3,577,936	9,316,815	8,025,270	1,291,536	16,083,304	6,766,480
1909	177	2,267	7,440	5,133	2,307	1,981,702	8,365,939	7,797,311	568,628	11,880,828	3,520,880
1904	115	802	2,549	1,909	550	693,407	1,627,770	1,578,007	49,760	3,096,274	1,468,498
1899	90	504	1,561	1,560	1	352,606	662,284	( <sup>5</sup> )	( <sup>5</sup> )	1,261,005	598,721
PER CENT OF INCREASE OR DECREASE (-)											
1927-1920	4.0	-9.1	23.8	64.0	-20.7	-8.4	77.0	86.8	-32.3	25.7	-34.8
1925-1927	13.7	-9.4	50.6	61.2	40.4	-12.5	19.5			24.0	29.7
1923-1925	-1.0	-20.7	-47.8	-67.7	28.5	-16.4	-2.4			-2.8	-3.2
1921-1923	-2.8	40.0				33.0	56.9			66.4	80.0
1919-1921	-35.6	-29.3				-6.9	-52.1			-41.6	-14.2
1919-1929	-25.0	-30.8	36.8	23.1	61.5	-17.0	55.6	68.0	-40.7	47.4	26.3
1909-1919	-8.2	88.2	167.1	188.0	125.1	117.9	97.1	92.3	162.5	92.4	81.3
1899-1909	( <sup>7</sup> )	347.8	376.6	229.0	( <sup>7</sup> )	462.0	1,163.2			842.6	488.1

<sup>1</sup> Not including salaried employees.

<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>4</sup> Not reported separately.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> No comparable data.

<sup>7</sup> Per cent not computed where base is less than 100.

TABLE 2.—SUMMARY FOR COUNTIES AND FOR THE CITY OF RENO: 1929

[This table gives statistics for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing an approximation of the data supplied by individual establishments. Certain of the other counties, however, reported larger numbers of wage earners or larger values of products than some of the counties shown separately]

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	91,058	123	2,200	27,197	\$3,585,425	\$25,651,871	\$24,000,033	\$751,238	\$33,717,059	\$8,065,188
Reno	18,520	40	266	1,063	436,020	1,082,026	1,014,224	68,402	3,424,402	1,441,779
<i>Counties</i>										
Churchill	5,075	9	36	471	49,477	398,529	389,472	9,057	540,755	142,226
Clark	8,532	9	335	3,402	593,283	581,441	430,948	150,493	1,387,858	806,417
Elko	9,900	12	213	481	306,643	346,703	295,247	50,456	812,994	467,291
Humboldt	3,795	3	40	36	69,084	58,139	49,470	8,669	168,846	110,707
Nye	3,989	4	12	72	21,184	24,807	21,496	3,311	87,221	62,414
Ormsby	2,221	6	37	188	44,602	33,279	29,405	3,874	109,172	75,893
Pershing	2,652	5	35	249	57,306	132,024	118,691	13,333	265,921	133,897
Washoe	27,158	51	944	8,449	1,507,123	3,581,657	3,382,910	198,747	6,724,151	3,142,494
All other counties <sup>3</sup>	27,676	24	528	13,849	876,723	20,496,292	20,182,994	313,298	23,620,141	3,123,849

<sup>1</sup> Not including salaried employees.

<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

<sup>3</sup> Douglas, Esmeralda, Eureka, Lander, Lincoln, Lyon, Mineral, and White Pine Counties. (See headnote.) No manufacturing was reported from Storey County.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	2,634	2,559	75	70	63	7	30	27	3	334	290	44	2,200	2,179	21
1919 <sup>1,2</sup>	3,563	3,442	121	136	132	4	33	33	—	275	220	55	3,119	3,057	62
1914 <sup>3</sup>	4,113	4,041	72	179	169	10	24	22	2	255	227	28	3,655	3,623	32
1909 <sup>4</sup>	2,650	2,586	64	137	131	6	32	30	2	224	194	30	2,257	2,231	26

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 3 (male). Other salaried officers and employees—total, 5; male, 4; female, 1. The corresponding data for 1919 and earlier years are included in the respective items for those years but can not be given separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	2,200	2,178	2,168	2,192	2,189	2,200	2,206	2,204	2,209	2,238	2,272	2,217	2,127	93.6
1919 <sup>1</sup>	3,119	3,486	3,207	2,078	2,044	2,096	2,903	3,142	2,855	3,191	3,249	3,235	3,263	81.3
1914 <sup>1</sup>	3,655	3,919	3,958	3,969	3,894	4,025	4,042	4,128	3,599	3,237	3,282	2,954	2,353	69.1
1909 <sup>1</sup>	2,257	2,107	2,116	2,140	2,190	2,244	2,266	2,349	2,388	2,341	2,390	2,302	2,247	87.9

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	123	2,200	45 and over but under 48.....	3	27
Not reported.....	8	14	48.....	48	379
Under 40.....	16	130	Over 48 but under 54.....	3	57
40.....			54.....	0	43
Over 40 but under 44.....			Over 54 but under 60.....	23	1,544
44 and over but under 45.....	18	88	60 and over.....	5	18

<sup>1</sup> Combined to avoid disclosing data for an individual establishment.

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)						
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909				
All establishments.....	123	166	177	2,200	3,119	2,257	21 to 50.....	10	6	8	299	215	203				
No wage earners.....	7	21	23				51 to 100.....	5	4	5	356	319	304				
1 to 5.....	71	104	116	174	220	225	101 to 250.....	14	3	1	11,087	373	443				
6 to 20.....							251 to 500.....							2	1	1,324	637
							501 to 1,000.....										

<sup>1</sup> Combined to avoid disclosing approximations of the data for individual establishments.

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
	All establishments.....	123	166	177	2,200	3,119	2,257	\$33,717,059	\$22,874,311	\$11,888,828	\$8,065,188	\$6,383,694
Less than \$5,000.....	(?)	37	60	(?)	19	49	(?)	104,808	172,825	(?)	67,708	122,639
\$5,000 to \$19,999.....	51	68	66	93	148	168	500,149	709,392	608,064	333,004	432,859	359,561
\$20,000 to \$99,999.....	40	40	40	263	335	605	1,754,927	2,142,711	1,008,738	1,060,751	1,068,762	961,529
\$20,000 to \$49,999.....	27	(?)	(?)	127	(?)	(?)	826,665	(?)	(?)	512,889	(?)	(?)
\$50,000 to \$99,999.....	13	(?)	(?)	136	(?)	(?)	928,262	(?)	(?)	547,862	(?)	(?)
\$100,000 to \$499,999.....	27	14		795	533		5,272,738	3,006,640		2,588,485	1,017,822	
\$100,000 to \$249,999.....	22	(?)		474	(?)		3,695,348	(?)		1,711,838	(?)	
\$250,000 to \$499,999.....	5	(?)	10	321	(?)	1,435	1,577,390	(?)	0,136,611	876,647	(?)	2,077,160
\$500,000 to \$999,999.....	2	3		209	190		1,282,595	1,877,188		551,231	606,866	
\$1,000,000 and over.....	3	4	1	840	1,844		24,906,650	14,046,572		3,530,757	3,099,677	
\$1,000,000 to \$2,499,999.....	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
\$2,500,000 to \$4,999,999.....	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
\$5,000,000 and over.....	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>2</sup> No data.  
<sup>3</sup> Not tabulated separately.  
<sup>4</sup> Combined to avoid disclosing data for individual establishments.

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
	Total.....	123	166	2,200	3,119	\$33,717,059	\$22,874,311	\$8,065,188
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	64	67	1,987	2,929	31,655,781	21,615,875	6,884,029	5,745,151
Other forms of ownership or control (individual, partnership, etc.).....	59	99	213	190	2,061,278	1,258,436	1,181,159	638,543
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	33	(1)	1,804	(1)	29,188,881	(1)	6,002,326	(1)
Independent (single-unit).....	90	(1)	396	(1)	4,528,178	(1)	2,062,862	(1)

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE: 1929, 1927, 1925, 1919, AND 1914

CENSUS YEAR	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY												ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING	
	Aggregate horse-power	Total horse-power of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines					
			Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power				
1929.....	27,197	18,809	22	6,702	6	8,400	14	3,207	2	500	816	8,388	200	7,222
1927.....	21,674	11,403	27	7,225	4	180	18	3,456	3	542	707	10,571	174	2,869
1925.....	14,604	7,074	28	3,387	4	180	12	2,912	4	595	591	7,530	161	2,794
1919.....	19,874	14,681	59	9,692	2	4,450	24	844	4	195	432	5,193	256	5,847
1914.....	18,744	14,481	75	13,433	(?)	(?)	28	139	9	909	270	4,263	461	13,311

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.  
<sup>2</sup> Reported as "Steam engines and turbines."  
<sup>3</sup> Not reported separately. See footnote 2.

## CENSUS OF MANUFACTURES: 1929

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

[This table presents statistics for each county for which separate figures are given in Table 2. See headnote on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	27,197	18,809	8,388	7,222	Counties—Continued				
Churchill.....	471	25	446		Nye.....	72		72	
Clark.....	3,402	3,347	55	1,821	Ormsby.....	188	70	118	
Elko.....	481	307	174		Fershing.....	249	200	49	10
Humboldt.....	36	15	21		Washoe.....	8,440	2,700	5,740	1,391
					All other counties <sup>2</sup> .....	13,849	12,145	1,704	4,000

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.<sup>2</sup> Douglas, Esmeralda, Eureka, Lander, Lincoln, Lyon, Mineral, and White Pine Counties. No manufacturing was reported from Storey County.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	44,893	\$241,051	213,677	149,501	117,444	44,917	70,670
Anthracite (tons, 2,240 pounds).....	2,875	9,257	( <sup>3</sup> )	638	15	63	115
Bituminous (tons, 2,000 pounds).....	41,897	231,794	( <sup>3</sup> )	148,780	117,427	44,846	70,541
Coke (tons, 2,000 pounds).....	125	2,074	( <sup>4</sup> )	( <sup>4</sup> )	26,104	18,393	328
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	12,920,495	376,913	( <sup>4</sup> )	( <sup>4</sup> )	10,302,138	23,320,332	2,244,858
Gasoline and kerosene (gallons) <sup>5</sup> .....	20,888	3,118	( <sup>4</sup> )	( <sup>4</sup> )	12,978		
Gas, natural (M cubic feet).....			( <sup>4</sup> )	( <sup>4</sup> )			
Gas, manufactured (M cubic feet).....	1,108	1,250	( <sup>4</sup> )	( <sup>4</sup> )	5,859	( <sup>4</sup> ) 831	( <sup>4</sup> ) 174
Other fuels.....		13,544	( <sup>4</sup> )	( <sup>4</sup> )			
Electric energy purchased (kilowatt-hours).....	6,670,667	131,789	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Total cost of fuel and purchased energy.....		7769,739	Cost \$1,109,438	Cost ( <sup>4</sup> )	Cost \$1,492,710	Cost \$1,291,536	Cost \$568,628

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.<sup>3</sup> Not tabulated separately.<sup>4</sup> No data.<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.<sup>6</sup> Data incomplete.<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents statistics for all industries for which separate figures can be given without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other industries," however, reported larger numbers of wage earners and larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	123	3364	2,200	18,800	8,388	\$813,640	\$3,585,425	\$24,900,633	\$751,238	\$33,717,059	\$8,065,188
Beverages.....	8	8	15	10	210	17,660	22,181	43,768	4,739	136,830	88,323
Bread and other bakery products.....	14	17	65		129	27,232	103,282	320,464	14,597	576,342	241,281
Butter.....	7	8	30	55	257	13,748	36,152	806,210	11,103	1,050,563	143,220
Car and general construction and repairs, steam-railroad repair shops.....	17	102	1,222	2,362	2,654	259,681	2,053,272	1,342,360	190,228	3,857,357	2,318,769
Ice, manufactured.....	6	9	58	550	1,618	13,951	98,095	6,611	39,101	275,205	229,493
Printing and publishing, book and job.....	5	7	30		42	14,069	62,258	60,015	2,249	208,900	146,636
Printing and publishing, newspaper and periodical.....	25	66	93		222	135,129	179,869	90,633	12,110	735,926	633,163
Wall plaster, wall board, insulating board, and floor composition.....	3	18	109	3,350	822	45,301	160,326	249,092	73,639	781,408	458,677
Other industries.....	33	129	578	12,482	2,434	285,869	864,990	21,891,430	397,472	26,094,558	3,805,606

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>2</sup> Value of product less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>3</sup> Not including 8 employees of central administrative offices, with salaries aggregating \$22,887. See GENERAL EXPLANATIONS—Persons Engaged.

# NEW HAMPSHIRE

TABLE I.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1924, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	1,075	65,511	402,147	300,781	101,410	\$70,513,919	\$185,402,323	\$170,903,427	\$8,498,896	\$332,534,753	\$147,132,430
1927	1,028	65,482	376,373	318,594	57,779	72,803,307	182,100,373	173,239,125	8,867,248	327,528,360	145,421,093
1925	1,038	66,658	370,740	323,444	47,296	71,725,465	192,253,411	( <sup>5</sup> )	( <sup>5</sup> )	327,400,661	135,147,240
1923	1,078	75,314	352,556	302,163	50,493	79,073,889	185,754,469	( <sup>5</sup> )	( <sup>5</sup> )	353,124,593	147,870,034
1921	1,122	67,416	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	67,893,041	189,268,670	( <sup>5</sup> )	( <sup>5</sup> )	240,346,200	107,077,530
1919	1,499	83,074	348,892	264,291	84,601	79,326,341	239,527,617	231,599,448	7,928,171	407,204,934	197,677,317
1914	1,736	78,993	340,605	291,434	49,171	40,842,303	114,968,436	110,853,377	4,114,058	152,843,868	67,850,428
1909	1,961	78,668	289,616	268,407	21,209	30,200,262	98,167,016	94,966,035	3,191,981	164,581,019	60,424,003
1904	1,618	65,806	209,612	204,599	5,013	27,693,203	78,216,887	70,754,879	2,461,508	123,010,904	50,394,617
1899	1,771	67,946	198,553	196,549	2,004	25,849,031	60,163,380	( <sup>5</sup> )	( <sup>5</sup> )	107,590,808	47,427,423
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929	4.6	( <sup>6</sup> )	6.8	-5.0	75.5	-3.1	1.8	2.1	-4.2	1.5	1.2
1925-1927	-1.0	-1.8	1.5	-1.5	22.2	1.5	-5.3	( <sup>7</sup> )	( <sup>7</sup> )	-1.7	7.6
1923-1925	-3.7	-11.5	5.1	7.0	-0.3	-0.3	3.5	( <sup>7</sup> )	( <sup>7</sup> )	-8.3	-8.3
1921-1923	-3.9	11.7	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	10.5	33.4	( <sup>7</sup> )	( <sup>7</sup> )	35.2	37.0
1919-1921	-25.2	-18.8	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	-14.4	-41.0	( <sup>7</sup> )	( <sup>7</sup> )	-30.5	-36.1
1919-1929	-28.3	-21.1	15.3	13.8	19.9	-11.1	-22.6	-23.6	7.2	-18.3	-12.3
1909-1919	-23.6	5.6	20.5	-1.5	298.9	119.1	144.0	143.9	148.4	147.4	152.4
1899-1909	10.7	16.3	46.0	36.6	958.3	40.0	63.2	( <sup>7</sup> )	( <sup>7</sup> )	53.0	40.1

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Not reported separately.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> No comparable data.  
<sup>7</sup> Less than one-tenth of 1 per cent increase.

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	465,293	1,075	65,511	402,147	\$70,513,919	\$185,402,323	\$170,903,427	\$8,498,896	\$332,534,753	\$147,132,430
<i>Counties</i>										
Belknap	22,623	40	2,188	5,307	2,210,250	2,822,020	2,680,711	141,309	9,671,050	6,840,630
Carroll	14,277	37	580	4,465	595,104	703,686	689,078	37,563	1,863,072	1,156,436
Cheshire	33,686	123	4,659	21,436	6,166,791	12,204,131	11,743,455	520,673	23,446,189	11,182,058
Cook	38,959	36	4,475	110,213	6,068,095	24,028,129	21,381,830	2,646,299	30,765,987	15,737,858
Grafton	42,816	95	3,165	24,134	3,323,407	9,031,257	8,436,254	545,003	15,718,479	6,687,222
Hillsborough <sup>3</sup>	140,165	360	28,650	134,537	20,211,141	84,244,337	81,876,558	2,367,779	142,083,828	57,839,491
Merrimack	56,152	131	7,020	38,018	5,071,028	17,782,963	17,265,020	517,934	33,609,286	15,726,323
Rockingham	53,750	116	4,272	16,396	4,592,606	8,798,041	8,321,875	476,166	18,239,622	9,441,581
Strafford <sup>3</sup>	39,580	88	7,164	30,617	7,840,106	17,537,176	16,730,280	756,896	31,496,424	13,950,248
Sullivan	24,286	49	3,341	22,054	3,986,331	8,187,633	7,609,362	488,271	16,740,216	8,552,583
<i>Cities having 10,000 inhabitants or more</i>										
Berlin	20,018	19	3,726	100,645	5,408,333	21,146,399	18,795,130	2,351,263	35,813,351	14,866,952
Clarendon	12,377	17	2,213	17,994	2,751,469	5,308,885	4,914,810	394,075	11,838,378	6,520,493
Concord	25,228	54	2,523	9,148	3,366,240	5,657,771	5,457,003	200,768	12,092,391	6,434,620
Dover	13,573	36	2,680	10,720	2,777,453	8,144,917	7,835,563	309,354	14,048,004	6,903,687
Keene	13,794	57	2,534	6,156	2,801,558	5,863,032	5,649,368	208,674	11,991,501	6,138,469
Laconia	12,471	23	1,471	2,416	1,572,495	1,451,264	1,350,634	100,630	6,956,496	5,565,202
Manchester	76,834	187	10,168	92,123	18,316,234	51,534,003	50,249,842	1,284,161	86,264,956	34,730,953
Nashua	31,463	86	6,877	23,143	8,237,107	26,013,298	25,136,167	827,131	44,195,474	18,182,176
Portsmouth	14,495	20	944	5,865	1,080,686	2,066,961	1,806,398	257,563	4,094,964	2,028,063
Rochester	10,200	17	1,095	2,968	1,039,004	2,832,039	2,771,099	60,940	4,931,488	2,099,449

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.  
<sup>3</sup> For statistics by industries for this county, see Table 13.



## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	71,941	49,324	22,617	708	686	22	642	581	61	5,080	3,352	1,728	65,511	44,705	20,806
1919 <sup>1</sup>	90,332	62,910	27,413	1,426	1,362	64	881	561	30	5,251	3,329	1,922	83,074	57,067	25,407
1914 <sup>1</sup>	85,013	60,055	24,353	1,646	1,573	73	375	365	10	3,999	2,839	1,160	78,993	55,878	23,115
1909 <sup>1</sup>	84,101	58,924	25,267	2,014	1,931	83	371	368	3	3,148	2,323	825	78,658	54,302	24,356

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.

<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 34 (male). Other salaried officers and employees—total, 237; male, 104; female, 133. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	65,511	65,288	65,011	65,078	64,962	65,192	66,086	65,998	65,898	66,980	67,371	64,520	<i>62,148</i>	63.7
1919 <sup>1</sup>	83,074	80,010	79,599	79,162	<b>78,849</b>	79,972	82,221	82,600	83,325	85,603	87,070	88,593	89,224	88.4
1914 <sup>1</sup>	78,993	82,803	82,243	81,290	80,099	79,344	78,427	78,018	77,279	<b>76,982</b>	77,402	76,993	77,030	93.0
1909 <sup>1</sup>	78,658	78,438	79,097	79,519	77,697	78,132	78,021	<b>76,324</b>	76,976	77,850	80,108	80,797	80,936	94.3

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	1,075	65,511	45 and over but under 48	38	1,981
Not reported	165	579	48	205	19,429
Under 40	13	165	Over 48 but under 54	282	14,995
40	13	104	54	205	22,140
Over 40 but under 44	8	315	Over 54 but under 60	33	1,008
44 and over but under 45	62	2,829	60 and over	51	1,068

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments	1,075	1,409	1,961	65,511	83,074	78,658	51 to 100	74	87	87	5,801	6,265	5,975
No wage earners	20	132	168				101 to 250	104	90	77	16,309	14,307	12,088
1 to 5	412	664	974	1,251	1,431	2,127	251 to 500	31	31	37	10,517	11,354	12,633
6 to 20	261	319	435	3,034	3,572	5,074	500 to 1,000	11	12	16	7,785	8,576	11,596
21 to 50	155	151	169	4,994	5,006	6,351	1,001 to 2,500	5					
							2,501 and over	2	13	8	16,320	32,563	23,914

<sup>1</sup> Combined to avoid disclosing numbers of wage earners reported by individual establishments.

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TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,075	1,499	1,901	65,511	83,074	78,058	\$332,534,753	\$407,204,934	\$164,581,019	\$147,132,430	\$167,677,317	\$66,424,003
Less than \$5,000.....	( <sup>2</sup> )	322	603	( <sup>2</sup> )	236	963	( <sup>2</sup> )	782,834	1,003,093	( <sup>2</sup> )	475,523	1,034,742
\$5,000 to \$19,999.....	390	432	648	1,275	1,459	3,695	4,349,294	4,658,204	6,733,411	2,742,516	2,034,800	3,810,066
\$20,000 to \$99,999.....	336	405	432	4,526	5,044	9,666	16,524,673	17,584,076	18,059,662	10,027,211	8,000,083	9,504,982
\$20,000 to \$49,999.....	191	( <sup>3</sup> )	( <sup>3</sup> )	1,748	( <sup>3</sup> )	( <sup>3</sup> )	6,248,405	( <sup>3</sup> )	( <sup>3</sup> )	3,902,275	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	145	( <sup>3</sup> )	( <sup>3</sup> )	2,778	( <sup>3</sup> )	( <sup>3</sup> )	10,276,268	( <sup>3</sup> )	( <sup>3</sup> )	6,124,936	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	215	213	184	11,836	13,249	26,809	52,880,192	51,658,874	57,369,937	26,620,788	25,154,580	24,282,567
\$100,000 to \$249,999.....	121	( <sup>3</sup> )		4,678	( <sup>3</sup> )		19,922,484	( <sup>3</sup> )		10,769,371	( <sup>3</sup> )	
\$250,000 to \$499,999.....	94	( <sup>3</sup> )		7,158	( <sup>3</sup> )		32,957,708	( <sup>3</sup> )		15,851,417	( <sup>3</sup> )	
\$500,000 to \$999,999.....	64	51		10,308	7,754		44,451,539	30,558,260		21,093,687	16,083,189	
\$1,000,000 and over.....	70	76	34	37,476	55,332	37,525	214,329,055	295,962,590	80,784,016	86,648,228	114,429,142	27,791,656
\$1,000,000 to \$2,499,999.....	49	( <sup>3</sup> )	( <sup>3</sup> )	13,523	( <sup>3</sup> )	( <sup>3</sup> )	78,386,103	( <sup>3</sup> )	( <sup>4</sup> )	31,588,809	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	12	( <sup>3</sup> )	( <sup>3</sup> )	7,206	( <sup>3</sup> )	( <sup>3</sup> )	44,291,616	( <sup>3</sup> )	( <sup>3</sup> )	18,689,973	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	9	( <sup>3</sup> )	( <sup>3</sup> )	16,747	( <sup>3</sup> )	( <sup>3</sup> )	91,651,336	( <sup>3</sup> )	( <sup>3</sup> )	36,369,446	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	1,075	1,499	65,511	83,074	\$332,534,753	\$407,204,934	\$147,132,430	\$167,677,317
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	476	461	65,631	71,774	290,776,270	358,832,142	127,051,113	145,211,650
Other forms of ownership or control (individual, partnership, etc.).....	599	1,038	9,880	11,300	41,758,483	48,372,792	20,081,317	22,465,668
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	180	( <sup>1</sup> )	39,855	( <sup>1</sup> )	222,771,225	( <sup>1</sup> )	90,273,748	( <sup>1</sup> )
Independent (single-unit).....	895	( <sup>1</sup> )	25,656	( <sup>1</sup> )	109,763,518	( <sup>1</sup> )	56,858,082	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS, MOTORS, AND GENERATORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY										ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING			
	Aggregate horse-power	Total horse-power of prime movers	Prime movers										Electric motors driven by purchased energy	
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines				Number	Horse-power
			Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power				
The State:														
1929.....	402,147	300,731	412	66,120	59	83,422	78	7,769	418	143,420	13,901	101,416	12,906	142,330
1927.....	379,373	318,594	483	73,570	57	87,714	74	2,592	438	154,748	7,606	57,779	13,508	173,074
1925.....	370,740	323,444	543	78,881	56	79,615	81	2,765	510	162,133	6,126	47,290	12,973	181,647
1919 <sup>1</sup> .....	343,892	264,291	768	95,353	47	61,882	106	1,676	641	115,375	6,379	84,601	2,918	67,117
1914 <sup>1</sup> .....	340,805	291,434	1,079	161,001	( <sup>2</sup> )	( <sup>2</sup> )	131	1,841	911	128,592	2,781	49,171	1,698	53,441
Counties in which aggregate horse-power exceeded 25,000: 1929														
Cook.....	110,213	91,439	18	4,167	9	28,633	1	( <sup>4</sup> )	59	58,630	1,139	18,774	3,264	60,016
Hillsborough.....	134,537	115,060	105	19,780	33	45,284	18	1,297	92	48,705	3,432	10,471	7,765	64,280
Merrimack.....	33,018	22,150	53	4,088	1	( <sup>5</sup> )	35	5,295	72	9,794	2,014	10,808	157	964
Strafford.....	30,617	16,120	36	7,501	4	2,760	4	143	30	5,735	2,612	14,488	284	4,405

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

<sup>4</sup> Item for internal-combustion engines included with that for steam engines to avoid disclosing data for a single establishment.

<sup>5</sup> Item for steam turbines included with that for steam engines to avoid disclosing data for a single establishment.

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TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	402,147	300,731	101,416	142,330	Grafton.....	24,134	16,925	7,209	3,860
Belknap.....	5,307	2,970	2,337	709	Hillsborough.....	134,537	115,066	19,471	64,280
Carroll.....	4,465	2,430	2,035	60	Merrimack.....	33,018	22,150	10,308	964
Cheshire.....	21,436	13,228	8,210	2,579	Rockingham.....	16,366	8,329	8,037	1,146
Coos.....	110,213	91,439	18,774	60,016	Stafford.....	30,617	16,129	14,488	4,405
					Sullivan.....	22,064	12,067	9,987	4,302

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	850,504	\$4,930,328*	862,051	750,109	860,710	740,375	632,070
Anthracite (tons, 2,240 pounds).....	265,090	1,500,983	( <sup>3</sup> )	223,749	286,885	101,330	23,768
Bituminous (tons, 2,000 pounds).....	553,596	3,436,390	( <sup>3</sup> )	505,610	539,405	635,885	605,450
Coke (tons, 2,000 pounds).....	12,026	122,240	( <sup>4</sup> )	( <sup>4</sup> )	30,904	10,169	16,532
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	12,805,363	553,411	( <sup>4</sup> )	( <sup>4</sup> )	24,292,716	1,955,562	1,688,358
Gasoline and kerosene (gallons) <sup>5</sup> .....	171,970	32,240	( <sup>4</sup> )	( <sup>4</sup> )	1,161,552		
Gas, natural (M cubic feet).....			( <sup>4</sup> )	( <sup>4</sup> )	20,910	19,523	32,392
Gas, manufactured (M cubic feet).....	79,597	79,104	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Other fuels.....		236,026	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours).....	301,053,733	2,780,056	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Total cost of fuel and purchased energy.....		78,784,005	Cost \$8,807,248	Cost ( <sup>6</sup> )	Cost \$7,928,171	Cost \$4,140,058	Cost \$3,191,981

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1920.

<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

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

<sup>4</sup> No data.

<sup>5</sup> For years prior to 1920, reported in barrels; converted on basis of 42 gallons per barrel.

<sup>6</sup> Data incomplete.

<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.

<sup>8</sup> Not reported separately.

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TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Num-ber of estab-lish-ments	Sala-ried officers and em-ploy-ees	Wage earners (aver-age for the year)	HORSEPOWER (RATED CAPAC-ITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of mate-rials and con-tainers for products <sup>1</sup>	Cost of fuel and pur-chased electric energy	Value of products <sup>1</sup>	Value added by manu-facture <sup>1</sup>
				Prime movers	Electric motors driven by pur-chased energy						
All industries, total.....	1, 075	\$5, 722	65, 511	300, 731	101, 416	\$14, 732, 103	\$70, 513, 019	\$176, 903, 427	\$8, 498, 806	\$332, 534, 753	\$147, 132, 430
Beverages.....	32	32	96	112	366	55, 139	119, 458	326, 444	15, 605	775, 113	433, 164
Boot and shoe findings, not made in boot and shoe factories.....	24	32	802	535	2, 022	215, 418	741, 165	2, 198, 695	54, 361	4, 321, 582	2, 068, 526
Boots and shoes, other than rubber.....	73	1, 061	14, 544	2, 088	6, 201	2, 513, 262	14, 943, 230	38, 442, 008	352, 542	66, 722, 194	27, 927, 644
Boxes, paper, not elsewhere classified.....	8	29	141	70	104	71, 074	119, 107	385, 218	9, 491	674, 608	299, 991
Boxes, wooden, except cigar boxes.....	18	74	1, 252	4, 520	2, 149	236, 584	1, 203, 915	2, 873, 410	27, 584	5, 393, 910	2, 302, 913
Bread and other bakery products.....	89	79	591	-----	863	132, 122	699, 058	2, 204, 525	115, 815	4, 343, 456	2, 023, 116
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	5	7	25	270	108	17, 756	29, 319	140, 876	2, 841	248, 003	104, 283
Caskets, coffins, burial cases, and other morticians' goods.....	3	6	42	-----	147	12, 506	45, 956	93, 507	2, 780	266, 095	109, 893
Clay products (other than pottery) and nonclay refractories.....	12	32	293	305	1, 122	80, 704	436, 151	40, 745	169, 807	900, 388	689, 836
Clothing (except work clothing), men's, youth's, and boys', not elsewhere classified.....	5	12	240	150	35	52, 770	177, 409	480, 258	8, 161	772, 324	274, 905
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	0	22	269	26	118	58, 585	200, 165	643, 360	8, 934	1, 000, 505	348, 211
Confectionery.....	7	5	35	1	65	7, 499	23, 289	69, 254	4, 402	177, 027	103, 371
Cooperage.....	3	20	306	1, 623	96	35, 678	340, 292	350, 403	2, 936	854, 236	494, 897
Cotton goods.....	18	477	13, 709	81, 834	14, 761	1, 435, 936	12, 418, 241	26, 869, 439	1, 455, 024	48, 850, 398	20, 523, 935
Cotton small wares.....	8	24	215	195	167	50, 082	211, 272	411, 289	12, 384	835, 520	411, 856
Cutlery (not including silver and plated cutlery) and edge tools.....	4	22	133	207	422	52, 524	153, 452	120, 600	12, 410	443, 893	310, 787
Electrical machinery, apparatus, and supplies.....	7	32	462	50	576	103, 600	316, 962	485, 776	14, 535	1, 180, 731	680, 420
Excelsior.....	6	6	77	806	205	18, 492	92, 598	203, 995	5, 436	431, 812	222, 381
Fancy and miscellaneous articles, not elsewhere classified.....	3	8	83	-----	105	21, 011	88, 195	50, 491	4, 067	230, 476	175, 313
Flour and other grain-mill products.....	12	16	81	1, 012	315	20, 060	33, 183	849, 820	5, 919	1, 004, 925	149, 186
Foundry and machine-shop products, not elsewhere classified.....	43	400	1, 973	2, 899	6, 663	943, 645	2, 910, 404	2, 956, 137	220, 740	10, 502, 621	7, 325, 738
Furniture, including store and office fixtures.....	27	73	775	1, 208	1, 839	193, 950	868, 215	1, 134, 495	47, 981	2, 882, 032	1, 099, 586
Gas, manufactured, illuminating and heating.....	11	39	296	699	608	166, 104	366, 204	308, 055	594, 630	2, 137, 054	1, 234, 369
Ice cream.....	20	16	78	25	741	48, 410	101, 311	589, 393	29, 948	1, 218, 363	599, 022
Knit goods.....	16	106	2, 077	2, 975	539	419, 595	1, 084, 544	2, 429, 004	84, 633	6, 820, 228	3, 300, 591
Lumber and timber products, not elsewhere classified.....	165	90	1, 982	11, 016	3, 036	205, 715	2, 053, 183	4, 322, 087	64, 856	8, 259, 108	3, 872, 165
Marble, granite, slate, and other stone products.....	31	29	492	932	3, 001	65, 111	843, 091	392, 896	50, 490	1, 741, 218	1, 288, 832
Motor-vehicle bodies and motor-vehicle parts.....	3	34	6	22	15	-----	7, 077	5, 588	584	16, 103	12, 981
Needles, pins, hooks and eyes, and snap fasteners.....	3	306	155	141	-----	69, 544	390, 845	69, 169	11, 021	701, 984	620, 894
Paper.....	23	288	2, 680	123, 395	9, 604	960, 984	3, 203, 186	13, 144, 055	1, 557, 159	22, 433, 315	7, 781, 201
Pulp (wood and other fiber).....	5	269	2, 432	-----	830	828, 593	3, 533, 484	10, 036, 192	1, 575, 887	20, 418, 031	8, 807, 452
Paper goods, not elsewhere classified.....	5	209	727	830	1, 744	641, 313	950, 957	5, 551, 480	77, 507	9, 227, 289	3, 293, 302
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	20	92	725	2, 880	1, 713	200, 014	783, 233	1, 314, 595	32, 523	2, 960, 540	1, 613, 422
Printing and publishing, book and job.....	38	34	833	-----	993	185, 443	1, 389, 778	392, 801	31, 008	2, 597, 779	2, 175, 367
Printing and publishing, newspaper and periodical.....	52	229	364	5	727	455, 800	630, 578	338, 800	42, 205	2, 397, 392	2, 016, 387
Signs and advertising novelties.....	8	-----	32	-----	6	-----	34, 007	27, 338	-----	106, 216	75, 373
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	12	54	-----	340	31, 746	62, 504	341, 070	8, 514	594, 758	219, 574
Surgical and orthopedic appliances, including artificial limbs.....	3	5	20	150	32	7, 990	28, 114	15, 172	1, 060	60, 238	44, 006
Textile machinery and parts.....	11	200	1, 108	1, 229	3, 100	592, 295	1, 390, 517	1, 304, 382	96, 100	6, 743, 289	5, 342, 807
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	6	22	159	257	261	63, 697	134, 831	183, 803	7, 713	581, 741	390, 225
Wood turned and shaped and other wooden goods, not elsewhere classified.....	30	35	425	2, 208	561	77, 233	412, 220	489, 222	18, 877	1, 402, 435	894, 836
Woolen goods.....	30	235	4, 046	12, 291	3, 555	833, 707	4, 628, 038	10, 482, 884	472, 624	18, 638, 433	7, 732, 925
Other industries.....	162	1, 026	10, 561	43, 276	32, 017	2, 467, 924	11, 040, 133	42, 441, 698	1, 182, 840	70, 654, 354	27, 029, 816

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 271 employees of central administrative offices, with salaries aggregating \$530,113. See GENERAL EXPLANATIONS—Persons Engaged.

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR SELECTED COUNTIES, BY INDUSTRIES: 1929

[This table presents, for Hillsborough and Strafford Counties, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>HILLSBOROUGH COUNTY</b>											
All industries, total.....	360	2,141	28,650	115,066	10,471	\$5,360,103	\$20,211,141	\$81,870,558	\$2,367,779	\$142,083,828	\$57,839,401
Beverages.....	11	4	19	-----	57	2,990	22,373	48,359	3,614	122,607	70,694
Boot and shoe findings, not made in boot and shoe factories.....	0	21	170	175	149	46,856	139,470	331,088	8,624	616,105	276,303
Boots and shoes, other than rubber.....	26	494	7,042	225	3,218	1,110,880	7,626,021	20,332,382	147,435	33,700,069	13,280,252
Boxes, paper, not elsewhere classified.....	3	19	61	-----	141	41,054	51,044	230,360	4,100	438,434	153,974
Boxes, wooden, except cigar boxes.....	3	24	376	1,425	200	109,182	371,075	964,538	4,151	1,791,321	822,632
Bread and other bakery products.....	56	43	280	-----	503	58,536	332,977	1,147,699	55,251	2,355,483	1,155,533
Cotton small wares.....	3	1	6	-----	7	( <sup>c</sup> )	4,201	6,965	1,026	18,338	10,347
Cutlery (not including silver and plated cutlery) and edge tools.....	4	22	133	207	422	52,524	153,452	120,000	12,416	443,803	310,787
Foundry and machine-shop products, not elsewhere classified.....	15	92	449	381	734	270,016	632,540	446,748	43,715	2,218,666	1,728,203
Furniture, including store and office fixtures.....	13	39	305	478	724	86,963	372,425	514,951	23,567	1,323,274	784,756
Ice cream.....	8	7	45	-----	392	24,710	59,072	371,914	17,379	777,082	387,789
Lumber and timber products, not elsewhere classified.....	25	26	420	2,654	335	72,889	464,055	674,784	10,002	1,482,006	777,220
Marble, granite, slate, and other stone products.....	13	11	123	462	503	23,732	133,330	69,229	19,892	359,155	270,034
Motor-vehicle bodies and motor-vehicle parts.....	3	-----	6	-----	15	-----	7,077	5,588	534	19,103	12,981
Planing-mill products (including general millwork) not made in planing mills connected with sawmills.....	7	36	266	923	444	112,911	306,104	643,778	9,111	1,310,370	657,481
Printing and publishing, book and job.....	12	18	112	-----	166	31,023	148,023	86,624	8,183	409,522	314,715
Printing and publishing, newspaper and periodical.....	13	113	149	-----	238	244,930	281,861	172,839	18,007	1,162,537	971,691
Signs and advertising novelties <sup>2</sup> .....	8	-----	32	-----	0	-----	34,007	27,838	-----	106,216	78,378
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	12	55	-----	340	31,746	62,504	341,070	3,514	564,758	210,574
Textile machinery and parts.....	7	25	264	883	509	53,820	306,857	631,580	22,306	1,250,095	605,209
Other industries <sup>3</sup> .....	120	1,134	18,337	107,216	10,300	2,978,441	17,652,673	54,657,024	1,954,952	81,682,824	34,950,848

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>c</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

<sup>2</sup> The figures for the "Signs and advertising novelties" industry include data for 1 establishment located outside the county, to avoid disclosing the data for the establishment in question. Amounts equivalent to the figures for this establishment have been subtracted from the "Other industries" items, and therefore the totals for the county are not affected by these counterbalancing adjustments.

<sup>3</sup> The figures for "Other industries" include data for the "Cotton goods" industry, which reported a larger number of wage earners than any other industry in the area, but for which separate figures can not be given without disclosing approximations of the data for individual establishments. The "Boots and shoes, other than rubber" industry outranks all others in respect of value of products.

## STRAFFORD COUNTY

All industries, total.....	88	515	7,164	16,120	14,488	\$1,414,328	\$7,340,106	\$16,780,280	\$756,896	\$31,496,424	\$13,959,248
Beverages.....	5	2	9	-----	33	( <sup>a</sup> )	9,132	26,556	1,462	69,567	41,540
Boots and shoes, other than rubber.....	14	176	2,345	735	645	475,877	2,209,344	5,543,239	66,253	9,637,260	4,027,768
Clay products (other than pottery) and nonclay refractories.....	4	15	150	-----	347	48,741	255,228	13,776	98,709	523,628	411,143
Lumber and timber products, not elsewhere classified.....	5	-----	38	-----	215	-----	34,108	21,060	2,131	103,794	79,713
Printing and publishing, book and job.....	6	6	22	-----	34	4,607	27,498	20,726	2,371	112,562	89,465
Other industries.....	64	316	4,600	15,179	13,429	835,103	4,804,296	11,154,033	585,970	21,049,613	9,309,610

<sup>a</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

# NEW JERSEY

TABLE 1.—SUMMARY FOR THE STATE: 1899 to 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers <sup>4</sup>	Fuel and purchased energy		
1920	8,388	442,328	1,645,408	709,771	845,037	\$610,506,378	\$2,165,727,126	\$2,090,853,202	\$74,873,924	\$3,937,156,775	\$1,771,429,649
1927	8,312	408,093	1,406,935	823,000	673,836	570,308,502	1,956,597,097	1,866,372,802	90,224,295	3,417,450,248	1,400,853,151
1925	8,204	425,377	1,384,234	837,703	546,531	576,235,826	2,036,855,079	( <sup>5</sup> )	( <sup>5</sup> )	3,530,181,253	1,462,328,174
1923	8,767	445,009	1,250,800	820,800	427,030	578,926,675	2,030,477,467	( <sup>5</sup> )	( <sup>5</sup> )	3,396,627,720	1,357,150,292
1921	8,784	381,773	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	460,470,509	1,434,334,060	( <sup>5</sup> )	( <sup>5</sup> )	2,556,142,540	1,071,808,471
1919	11,057	508,880	1,140,554	834,792	305,762	600,658,345	2,270,473,279	2,194,512,449	75,960,830	3,672,064,987	1,401,591,708
1914	9,742	373,605	783,706	680,101	94,605	211,136,460	833,464,504	853,988,329	29,476,265	1,406,633,414	523,168,820
1909	8,817	326,223	608,548	570,391	33,157	169,710,033	720,033,309	695,744,486	24,288,913	1,145,529,070	425,405,677
1904	7,010	206,338	427,065	417,362	10,603	128,168,801	470,449,176	454,869,824	15,579,352	774,369,025	303,019,849
1899	6,415	213,975	316,527	312,401	4,126	95,164,013	334,726,094	( <sup>7</sup> )	( <sup>7</sup> )	553,005,684	218,279,500
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	0.9	8.4	9.9	-2.8	25.5	7.1	10.7	12.0	-17.0	15.2	21.3
1925-1927	1.3	-4.1	8.1	-1.7	23.3	-1.0	-0.2			-3.4	7.0
1923-1925	-6.4	-5.1	10.1	.9	28.0	-5	2.3			4.2	26.6
1921-1923	-2	17.4				25.7	37.4			32.9	26.6
1919-1921	-20.6	-24.9				-23.3	-34.6			-30.4	-23.5
1919-1929	-24.1	-13.0	44.3	-4.2	176.6	1.7	-4.6	-4.7	-1.4	7.2	26.4
1909-1919	25.4	55.9	89.0	46.4	822.2	253.9	215.3	215.4	212.7	220.6	229.4
1899-1909	37.4	52.5	90.7	82.6	703.6	78.3	115.1			107.1	94.0

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Includes cost of foundry supplies for 1927 and earlier years but not for 1929. See GENERAL EXPLANATIONS—Comparableness With Preceding Years—Schedule Changes—Mill or Shop Supplies.  
<sup>5</sup> Not reported separately.  
<sup>6</sup> Not called for on schedule.  
<sup>7</sup> No comparable data.

TABLE 2.—SUMMARY FOR INDUSTRIAL AREAS AND FOR COUNTIES AND CITIES: 1929

	Popula- tion, 1930	Number of estab- lish- ments	Wage earners (aver- age for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PROD- UCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of prod- ucts	Value added by manu- facture
						Total	Materials and containers	Fuel and purchased energy		
The State	4,041,334	8,388	442,328	1,645,408	\$610,506,378	\$2,165,727,126	\$2,090,853,202	\$74,873,924	\$3,937,156,775	\$1,771,429,649
<i>Industrial Areas</i>										
New York City Area, <sup>3</sup> total	10,160,150	36,401	918,206	2,172,889	1,416,881,044	4,913,697,404	4,797,132,925	116,564,479	9,424,294,682	4,510,597,278
Portion in New Jersey	2,708,768	6,433	323,821	1,109,982	465,700,895	1,796,306,768	1,745,246,808	51,050,862	3,149,031,583	1,362,724,815
Portion in New York	7,451,393	29,968	594,385	1,062,907	951,180,149	3,117,390,636	3,051,886,010	65,504,617	6,275,263,099	3,157,872,463
Philadelphia Area, <sup>4</sup> total	3,137,040	7,184	370,000	1,368,306	510,540,601	1,549,559,096	1,488,231,423	61,327,673	2,981,045,661	1,431,486,565
Portion in New Jersey	416,655	515	45,627	168,092	57,368,882	188,650,604	180,510,543	8,140,061	373,016,637	184,360,033
Portion in Pennsylvania	2,720,385	6,669	330,382	1,200,214	453,171,719	1,360,908,492	1,307,720,880	53,187,612	2,608,029,024	1,247,120,532
<i>Counties in New Jersey</i>										
Atlantic	124,823	180	3,569	11,016	4,180,276	6,965,076	6,230,195	726,881	17,377,151	10,412,075
Bergen <sup>5</sup>	364,977	406	23,775	106,233	32,766,520	131,366,000	128,544,965	4,821,035	299,174,243	77,808,243
Burlington	93,541	118	9,587	26,648	12,135,703	24,000,488	22,819,789	2,080,697	50,297,166	25,396,680
Camden	252,312	316	33,736	125,745	42,203,892	153,361,308	148,060,942	5,300,366	302,180,164	148,818,856
Cape May	29,486	62	466	3,749	494,509	912,764	800,808	111,856	2,576,879	1,664,125
Cumberland	60,895	175	8,110	25,032	8,388,399	13,143,260	11,538,115	1,605,145	30,787,819	17,644,559
Essex <sup>6</sup>	833,513	2,270	92,144	222,306	129,354,661	383,738,068	374,305,551	9,432,517	757,312,601	373,574,533
Gloucester	70,802	81	2,304	15,609	3,024,284	10,388,810	9,629,812	758,998	20,539,307	10,150,497
Hudson <sup>7</sup>	690,780	1,672	90,464	313,371	134,338,714	519,632,478	502,419,418	17,213,060	908,373,084	448,740,606

See footnotes at end of table.

TABLE 2.—SUMMARY FOR INDUSTRIAL AREAS AND FOR COUNTIES AND CITIES: 1929—Continued

	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (aver- age for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PROD- UCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of prod- ucts	Value added by manu- facture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties in New Jersey—Continued</i>										
Hunterdon.....	34,728	51	2,885	22,397	\$2,941,385	\$5,511,736	\$4,656,940	\$854,796	\$12,991,140	\$7,479,404
Mercer <sup>3</sup> .....	187,143	346	23,721	134,523	31,199,708	60,742,017	56,088,078	4,655,939	140,191,342	79,449,325
Middlesex <sup>4</sup> .....	212,208	379	36,109	168,922	48,190,152	416,152,298	408,766,885	7,385,413	563,028,590	146,876,292
Monmouth.....	147,209	216	6,141	21,302	7,164,073	20,113,876	19,207,050	906,826	40,070,123	19,956,252
Morris.....	110,445	130	6,236	40,283	9,002,994	17,135,772	15,700,202	1,426,570	38,283,532	21,147,700
Ocean.....	33,089	51	418	1,695	483,914	859,028	800,197	52,831	1,858,540	999,512
Passaic <sup>5</sup> .....	302,120	1,237	57,798	147,278	77,216,020	178,447,238	171,068,445	7,378,793	360,930,423	182,483,185
Salem.....	36,834	52	4,501	22,799	5,813,176	17,058,872	15,146,766	1,912,106	47,399,388	30,340,516
Somerset.....	65,132	60	4,833	24,013	6,569,199	15,659,192	14,397,262	1,261,930	32,052,413	16,393,221
Sussex.....	27,830	30	1,055	2,887	1,281,100	3,163,716	2,890,101	283,615	6,548,349	3,394,633
Union <sup>6</sup> .....	305,209	469	28,531	151,782	43,833,928	166,970,686	162,141,642	4,829,044	290,212,642	123,241,956
Warren.....	49,319	78	6,436	56,738	10,017,268	19,514,465	17,617,979	1,896,476	44,971,874	25,457,419
<i>Cities having 10,000 inhabitants or more <sup>6</sup></i>										
Asbury Park.....	14,981	32	442	1,028	529,358	882,478	829,770	52,708	2,253,065	1,371,187
Atlantic City.....	66,198	113	1,285	6,191	1,901,124	3,122,127	2,577,917	544,210	8,906,337	5,784,210
Bayonne.....	88,979	125	11,109	49,785	18,160,645	162,760,840	151,560,109	1,200,671	232,712,928	79,902,088
Belleville.....	20,974	61	2,541	11,817	3,860,405	16,169,501	15,680,746	478,755	27,536,804	11,377,308
Bloomfield.....	38,077	85	9,660	21,437	12,211,735	78,512,646	77,781,572	731,074	131,834,563	53,321,917
Bridgeton.....	15,999	48	2,655	9,168	2,726,920	7,216,599	6,560,820	656,740	13,671,288	6,454,719
Burlington.....	10,844	28	1,748	6,883	2,234,881	4,311,826	3,998,403	313,423	8,152,844	3,841,018
Camden.....	118,700	230	28,879	83,891	35,517,410	111,802,656	108,041,972	3,760,684	230,978,935	119,176,279
Clifton.....	46,875	77	6,438	16,547	8,885,424	27,103,376	26,378,459	724,917	46,815,745	10,712,369
Collingswood.....	12,723	7	19	280	25,827	43,188	30,307	12,881	149,984	106,796
Dover.....	10,031	20	1,826	6,874	2,344,219	3,301,783	3,119,670	182,113	7,672,101	4,370,378
East Orange.....	68,020	58	2,090	7,201	3,599,094	4,307,545	4,075,863	231,682	12,852,516	8,544,971
Elizabeth.....	114,689	201	15,714	68,928	22,923,230	66,125,740	63,621,909	2,503,837	122,751,957	66,626,211
Englewood.....	17,805	27	295	962	382,569	594,682	532,776	61,906	1,402,179	867,497
Garfield.....	29,739	56	4,233	20,275	4,933,735	12,740,177	12,203,593	536,584	24,408,588	11,692,411
Gloucester.....	13,796	22	1,864	14,906	1,890,376	5,844,841	5,358,013	486,828	11,132,588	5,287,747
Hackensack.....	24,568	40	965	1,710	1,298,535	1,016,393	1,834,266	82,137	4,687,808	2,771,415
Harrison.....	15,601	46	7,762	43,339	11,726,082	23,870,107	19,756,111	4,113,996	61,266,540	37,396,433
Hawthorne.....	11,868	18	1,011	2,292	1,465,992	1,600,370	1,446,133	154,246	5,144,810	3,544,431
Hoboken.....	59,261	198	10,359	25,174	14,937,800	32,368,189	31,559,313	768,876	75,482,635	43,124,446
Irvington.....	56,733	126	4,569	13,611	6,830,255	22,181,189	21,598,618	582,571	39,747,501	17,566,312
Jersey City <sup>7</sup> .....	316,715	617	25,222	84,235	37,984,440	164,042,700	160,654,992	3,387,708	311,986,350	147,944,160
Kearny.....	40,716	40	19,202	60,798	29,698,330	96,933,442	90,930,848	6,002,594	187,733,713	90,760,271
Linden.....	21,206	27	3,293	43,848	6,310,745	62,561,458	61,759,156	792,302	87,708,455	25,156,997
Long Branch.....	18,399	28	822	3,337	928,484	2,483,363	2,291,670	191,693	5,443,490	2,960,136
Millville.....	14,705	41	2,858	11,648	2,789,911	2,845,173	2,212,410	632,763	7,904,367	5,059,194
Montclair.....	42,017	32	281	1,112	450,773	869,319	826,554	42,765	2,043,963	1,174,644
Morristown.....	15,197	24	277	725	405,833	794,177	753,585	40,592	1,845,675	1,051,498
Newark <sup>7</sup> .....	442,337	1,731	66,647	152,785	94,544,473	244,423,115	237,722,455	6,700,660	502,507,589	258,084,474
Nutley.....	20,572	16	605	1,859	910,724	2,922,623	2,859,243	63,380	6,505,206	3,582,553
New Brunswick.....	34,555	108	7,817	14,877	9,795,617	26,017,311	25,300,667	716,644	53,713,401	27,606,060
Orange.....	35,899	72	1,523	2,832	1,026,373	3,546,530	3,414,787	131,743	11,494,496	7,947,966
Passaic.....	62,959	178	13,863	51,556	17,947,483	44,167,281	42,707,072	1,460,209	89,936,176	45,768,895
Pateron <sup>7</sup> .....	138,513	915	32,686	67,783	44,030,942	98,000,812	98,393,746	4,607,066	197,650,980	99,650,168
Perth Amboy.....	43,516	97	9,156	71,229	12,482,069	226,839,913	224,212,926	2,626,987	273,832,301	46,982,388
Phillipsburg.....	19,255	33	4,471	23,294	6,859,122	13,433,036	12,637,110	896,526	31,401,239	17,967,603
Plainfield.....	34,422	71	2,566	9,303	4,229,483	6,972,911	5,793,996	208,915	14,623,468	8,650,587
Pleasantville.....	11,580	12	293	740	356,461	1,304,308	1,275,904	28,404	2,149,173	844,865
Rahway.....	16,011	28	1,412	3,865	1,879,809	7,179,204	7,024,433	154,766	14,406,779	7,227,575
Red Bank.....	11,622	27	999	931	1,004,812	2,587,245	2,538,675	48,570	5,151,099	2,563,824
Roselle.....	13,021	14	941	2,074	1,384,005	3,382,929	3,299,490	89,433	6,492,028	3,109,629
Rutherford.....	14,015	16	368	813	613,842	814,394	777,283	37,111	2,414,875	1,600,181
South Orange.....	13,030	8	47	304	67,430	93,100	78,115	14,985	608,607	510,507
Summit.....	14,556	16	290	600	398,729	848,681	816,005	32,676	1,597,689	719,008
Trenton <sup>7</sup> .....	123,866	261	18,953	111,628	24,626,124	45,175,809	41,327,386	3,848,513	107,842,837	62,666,938
Union City.....	58,659	256	3,938	5,900	5,091,118	7,751,520	7,386,369	365,131	19,535,913	11,784,399
Westfield.....	15,801	14	116	357	204,832	908,451	909,854	28,607	2,408,179	1,409,728
West New York.....	37,107	182	3,271	3,758	4,150,851	8,356,798	8,117,595	239,203	18,648,703	10,291,905
West Orange.....	24,327	24	1,611	4,845	2,078,781	5,556,513	5,347,953	208,560	10,298,324	4,741,811

<sup>1</sup> Not including salaried employees.<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.<sup>3</sup> The New York City Industrial Area comprises Bergen, Essex, Hudson, Middlesex, Passaic, and Union Counties, N. J., and Bronx, Kings, New York, Queens, Richmond, and Westchester Counties, N. Y. For statistics by industries for the area as a whole and for the New Jersey counties within the area, except Union County, see Table 13.<sup>4</sup> The Philadelphia Industrial Area comprises Burlington, Camden, and Gloucester Counties, N. J., and Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa. For statistics by industries for the area as a whole, see report for Pennsylvania.<sup>5</sup> For statistics by industries for this county, see Table 13.<sup>6</sup> Not including Carteret, Cliffside Park, Lodi, Ridgefield Park, Ridgewood, and South River, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments.<sup>7</sup> For statistics by industries for this city, see Table 14.



TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	521,262	384,919	136,343	4,686	4,481	205	7,466	7,027	439	66,782	46,953	19,829	442,328	326,458	115,870
1919 <sup>1</sup>	602,170	453,767	148,403	9,349	9,003	346	6,547	6,266	281	77,588	56,079	21,509	508,686	388,419	120,267
1914 <sup>4</sup>	431,003	320,967	110,036	8,342	8,030	312	4,549	4,397	152	44,507	35,584	8,923	373,006	272,986	100,019
1909	371,265	278,968	92,297	8,204	7,924	280	4,147	4,056	91	32,601	26,716	5,976	326,223	240,273	85,950

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1910 and 1920.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 340; male, 331; female, 9. Other salaried officers and employees—total, 6,851; male, 5,177; female, 1,474. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1910 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	442,328	<i>422,605</i>	427,066	434,371	438,066	442,640	443,866	446,600	456,082	462,403	462,814	444,851	424,766	01.3
1919 <sup>1</sup>	508,686	<i>504,904</i>	484,083	<b>482,210</b>	489,806	490,342	503,088	510,700	516,895	519,235	528,238	530,083	537,439	89.7
1914 <sup>4</sup>	373,006	<i>376,412</i>	377,720	381,166	383,830	383,370	379,332	371,217	367,483	372,481	372,064	362,322	356,067	92.8
1909 <sup>1</sup>	326,223	<i>318,158</i>	318,216	318,401	321,883	321,870	321,069	318,216	323,506	334,710	341,669	342,786	343,389	91.2

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	8,388	442,328	45 and over but under 48.....	701	57,500
Not reported.....	652	1,929	48.....	1,567	149,281
Under 40.....	152	1,110	Over 48 but under 54.....	1,785	108,256
40.....	343	11,096	54.....	373	16,929
Over 40 but under 44.....	77	2,033	Over 54 but under 60.....	407	34,052
44 and over but under 45.....	1,957	50,671	60 and over.....	384	9,342

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	8,388	11,057	8,817	442,328	508,686	326,223	51 to 100.....	660	642	513	46,537	46,709	30,848
No wage earners.....	204	1,239	712				101 to 250.....	539	405	387	83,693	77,535	60,448
1 to 5.....	3,270	4,829	4,078	9,370	11,016	10,005	251 to 500.....	194	213	170	68,686	74,270	59,516
6 to 20.....	2,197	2,276	2,010	24,674	25,927	22,539	501 to 1,000.....	87	93	75	59,864	62,366	82,497
21 to 50.....	1,186	1,200	841	38,901	39,535	27,554	1,001 to 2,500.....	41	70	31	{ 62,414	}171,325	59,816
							2,501 and over.....	10			{ 48,189		

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TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	8,388	11,057	8,817	442,328	508,686	326,223	\$3,937,156,775	\$3,672,064,987	\$1,145,520,076	\$1,771,429,640	\$1,401,591,708	\$425,495,677
Less than \$5,000.....	( <sup>2</sup> )	2,007	2,288	( <sup>2</sup> )	1,352	3,094	( <sup>2</sup> )	5,244,581	5,815,878	( <sup>2</sup> )	3,410,547	3,771,287
\$5,000 to \$19,999.....	2,347	3,367	3,081	6,541	10,697	16,213	27,376,730	37,193,970	32,476,593	17,460,997	21,242,311	18,157,017
\$20,000 to \$99,999.....	3,050	2,996	2,053	33,243	35,449	43,646	142,616,046	135,068,707	90,682,537	89,465,243	70,823,249	46,875,046
\$20,000 to \$49,999.....	1,888	( <sup>3</sup> )	( <sup>3</sup> )	14,446	( <sup>3</sup> )	( <sup>3</sup> )	59,907,765	( <sup>3</sup> )	( <sup>3</sup> )	38,371,899	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	1,162	( <sup>3</sup> )	( <sup>3</sup> )	18,797	( <sup>3</sup> )	( <sup>3</sup> )	82,708,278	( <sup>3</sup> )	( <sup>3</sup> )	61,098,344	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	1,807	1,622	1,201	75,597	74,298	137,123	429,887,933	368,845,380	366,705,326	236,494,594	181,209,300	168,792,862
\$100,000 to \$249,999.....	1,223	( <sup>3</sup> )		36,820	( <sup>3</sup> )		193,480,335	( <sup>3</sup> )		110,449,922		
\$250,000 to \$499,999.....	674	( <sup>3</sup> )		38,777	( <sup>3</sup> )		236,407,598	( <sup>3</sup> )		126,044,672		
\$500,000 to \$999,999.....	462	470		52,384	60,449		331,800,801	330,320,324		173,121,616	153,009,185	
\$1,000,000 and over.....	632	595	194	274,563	326,141	126,142	3,005,475,256	2,795,392,025	649,848,742	1,254,887,199	971,237,047	187,898,561
\$1,000,000 to \$2,499,999.....	384	( <sup>3</sup> )	( <sup>3</sup> )	81,830	( <sup>3</sup> )	( <sup>3</sup> )	597,578,518	( <sup>3</sup> )	( <sup>3</sup> )	300,723,324	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	139	( <sup>3</sup> )	( <sup>3</sup> )	63,416	( <sup>3</sup> )	( <sup>3</sup> )	490,672,753	( <sup>3</sup> )	( <sup>3</sup> )	239,673,695	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	109	( <sup>3</sup> )	( <sup>3</sup> )	129,317	( <sup>3</sup> )	( <sup>3</sup> )	1,917,223,985	( <sup>3</sup> )	( <sup>3</sup> )	714,490,180	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	8,388	11,057	442,328	508,686	\$3,937,156,775	\$3,672,064,987	\$1,771,429,640	\$1,401,591,708
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	4,458	3,944	402,816	454,860	3,718,084,443	3,367,501,201	1,661,480,436	1,270,813,586
Other forms of ownership or control (individual, partnership, etc.).....	3,930	7,113	39,512	53,826	219,072,332	304,563,696	109,949,213	130,778,122
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	1,241	( <sup>1</sup> )	247,750	( <sup>1</sup> )	2,673,887,096	( <sup>1</sup> )	1,108,304,706	( <sup>1</sup> )
Independent (single-unit).....	7,147	( <sup>1</sup> )	194,578	( <sup>1</sup> )	1,263,269,679	( <sup>1</sup> )	663,124,943	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR INDUSTRIAL AREAS AND IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horsepower
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower				
The State:														
1929	1,045,408	799,771	2,241	355,452	612	408,245	350	21,360	78	14,714	126,326	845,637	54,732	535,109
1927	1,409,635	823,060	2,586	428,946	540	362,807	463	24,872	97	8,884	94,061	673,830	50,199	487,653
1925	1,384,234	837,703	2,982	465,824	483	328,247	591	34,918	183	8,714	72,312	546,531	53,022	511,347
1919 <sup>1</sup>	1,140,554	834,792	5,136	573,463	457	207,971	1,303	40,830	304	12,528	41,180	305,762	36,582	418,801
1914 <sup>1</sup>	789,706	689,101	3,868	642,608	( <sup>2</sup> )	( <sup>2</sup> )	1,328	30,562	390	15,901	16,350	94,605	21,443	257,601
<i>Industrial Areas</i>														
New York city Area, total	2,172,889	813,623	3,048	431,827	637	352,850	379	27,872	28	1,074	292,793	1,359,266	55,822	504,238
Portion in New Jersey (Bergen, Essex, Hudson, Middlesex, Passaic, and Union Counties)	1,109,982	515,758	1,473	235,006	378	266,898	171	12,981	13	873	98,714	594,224	37,690	338,750
Portion in New York (Bronx, Kings, New York, Queens, Richmond, and Westchester Counties)	1,062,907	297,865	1,575	196,821	259	85,952	208	14,891	15	201	194,079	765,042	18,132	166,488
Philadelphia Area, total	1,368,306	592,616	2,103	317,849	479	238,206	380	30,712	96	5,749	111,733	775,790	38,770	411,374
Portion in New Jersey (Camden, Burlington, and Gloucester Counties)	168,092	104,339	270	31,875	97	69,493	41	2,751	8	220	8,041	63,753	7,187	80,504
Portion in Pennsylvania (Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties)	1,200,214	488,177	1,833	285,974	382	168,713	345	27,961	88	5,529	103,692	712,037	31,589	330,870
<i>Counties in which aggregate horsepower exceeded 25,000: 1929</i>														
Bergen	106,233	73,142	181	27,868	43	44,281	14	993	1	( <sup>4</sup> )	6,388	33,091	6,479	58,345
Burlington	26,648	8,110	35	6,407	5	470	14	1,013	8	220	2,401	18,638	413	2,787
Camden	125,745	85,448	200	20,925	86	69,231	19	1,201	4	745	4,977	40,297	6,468	73,454
Cumberland	25,032	13,144	46	4,068	11	7,172	22	1,130	4	745	2,400	11,888	839	6,080
Essex	222,306	58,183	350	43,063	96	11,520	67	3,262	3	38	35,041	164,213	4,708	20,619
Hudson	313,371	156,234	393	60,284	170	90,128	50	6,822	8	385	23,234	157,137	11,916	93,080
Mercer	134,523	49,111	147	34,209	23	14,348	8	885	6	172	6,881	86,412	2,104	28,431
Middlesex	168,022	97,940	160	43,701	38	53,072	18	1,173	7	635	8,231	70,976	4,415	66,832
Morris	40,283	22,635	79	16,848	15	5,206	4	248	7	635	1,433	17,348	1,006	11,125
Passaic	147,278	56,621	276	32,172	41	23,808	6	201	7	590	17,328	90,367	5,338	20,923
Union	151,782	73,332	163	27,943	50	43,729	26	1,440	2	220	7,802	78,450	4,834	63,042
Warren	56,738	35,242	34	13,858	6	12,600	2	95	17	8,789	2,135	21,496	1,822	21,959

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

<sup>4</sup> Item for water wheels and water turbines included with that for steam engines to avoid disclosing data for a single establishment.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State	1,045,408	799,771	845,637	535,109	Mercer	134,523	49,111	85,412	28,431
Atlantic	11,916	7,597	4,319	1,464	Middlesex	168,022	97,945	70,976	66,832
Bergen	106,233	73,142	33,091	58,345	Monmouth	21,302	6,620	14,682	1,218
Burlington	26,648	8,110	18,538	2,787	Morris	40,283	22,935	17,348	11,125
Camden	125,745	85,448	40,297	78,454	Ocean	1,695	1,097	598	16
Cape May	3,749	2,385	1,361	93	Passaic	147,278	56,621	90,367	26,923
Cumberland	25,032	13,144	11,888	6,080	Salem	22,790	14,404	8,395	20,177
Essex	222,306	58,183	164,213	29,619	Somerset	24,013	13,757	10,256	12,809
Gloucester	15,099	10,781	4,918	4,263	Sussex	2,887	2,168	719	1,320
Hudson	313,371	156,234	157,137	93,080	Union	151,782	73,332	78,450	63,042
Hunterdon	22,397	11,211	11,186	11,172	Warren	56,738	35,242	21,496	21,959

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.

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TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter V, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
<b>Fuel:</b>							
Coal, total <sup>2</sup> (tons, 2,000 lbs.)	7,846,006	\$35,890,120	8,746,880	8,018,444	10,712,329	8,512,791	7,936,410
Anthracite (tons, 2,240 lbs.)	1,996,020	9,312,582	(3)	2,746,046	3,581,497	4,085,925	3,725,740
Bituminous (tons, 2,000 lbs.)	5,610,464	26,677,538	(9)	5,542,872	6,701,052	3,936,555	3,768,681
Coke (tons, 2,000 lbs.)	548,105	4,240,975	(4)	(4)	693,592	444,749	730,083
Fuel oils, including crude oils and gas oils (gallons) <sup>3</sup>	698,186,180	20,757,826	(4)	(4)	274,134,402	68,429,256	49,002,864
Gasoline and kerosene (gallons) <sup>4</sup>	1,964,940	292,133	(4)	(4)	4,047,540	(4)	(4)
Gas, natural (M. cu. ft.)							
Gas, manufactured (M. cu. ft.)	21,899,219	7,687,120	(4)	(4)	1,969,277	1,231,745	842,742
Other fuels		605,529	(4)	(4)	(4)	(4)	(4)
Electric energy purchased (kilowatt-hours)	1,051,187,141	19,497,541	(6)	(4)	(4)	(4)	(4)
<b>Total cost of fuel and purchased energy</b>		<b>789,031,253</b>	<b>Cost</b> <b>\$90,224,295</b>	<b>Cost</b> <b>(5)</b>	<b>Cost</b> <b>\$75,980,830</b>	<b>Cost</b> <b>\$20,476,265</b>	<b>Cost</b> <b>\$24,288,013</b>

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.

<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

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

<sup>4</sup> No data.

<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.

<sup>6</sup> Data incomplete.

<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.

<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929

[This table presents separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RELATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total	8,388	274,248	442,328	799,771	845,037	198,265,800	610,569,378	2,000,853,202	74,873,924	3,937,156,775	1,771,429,649
Agricultural implements	3	1	7	33	15	(4)	8,388	15,846	1,004	42,852	26,002
Aircraft and parts	5	232	912	1,402	1,402	621,694	1,414,452	1,353,460	43,149	3,414,430	2,017,830
Artificial and preserved flowers and plants	5	17	98	27	27	45,736	104,433	109,280	3,843	348,535	235,407
Artificial leather	7	139	583	1,210	4,423	508,989	1,004,522	8,024,100	149,018	10,875,556	2,702,378
Artists' materials	9	39	118	28	141	70,080	183,938	996,113	7,278	1,585,530	682,145
Asbestos products, other than steam packing or pipe and boiler covering	7	188	1,920	7,800	3,059	743,061	2,757,529	5,379,495	509,744	12,442,021	6,558,782
Awnings, tents, sails, and canvas covers	71	56	391	203	203	182,593	324,500	770,666	15,765	1,634,959	848,528
Bags, other than paper, not made in textile mills	9	41	331	365	365	125,464	345,794	4,325,275	23,992	5,340,558	901,321
Bags, paper, exclusive of those made in paper mills	4	9	70	81	81	36,160	60,716	243,200	2,431	560,716	324,025
Baskets and rattan and willow ware, not including furniture	14	38	328	640	237	99,097	271,987	557,329	6,743	1,344,544	780,472
Beating, leather	9	9	22	36	36	29,305	37,645	118,738	1,625	240,340	119,933
Beverages	203	390	1,209	3,418	2,878	929,960	2,200,005	2,961,175	244,508	10,816,672	7,610,989
Bleaching, stains, and dressings	10	212	525	405	950	569,031	625,632	2,380,270	45,988	7,870,106	4,942,898
Bookbinding and blank-book making	28	87	729	348	348	182,715	638,529	567,067	14,920	1,874,437	1,292,450
Boots and shoes, other than rubber	20	100	1,422	665	172	474,475	1,515,937	3,456,424	54,970	6,878,127	3,397,733
Boxes, cigar, wooden	4	24	299	30	172	108,954	223,538	327,456	8,127	831,024	495,441
Boxes, paper, not elsewhere classified	66	307	2,945	785	5,586	1,204,094	3,171,904	10,188,879	270,706	17,520,497	7,060,912
Boxes, wooden, except cigar boxes	28	96	919	583	2,275	302,143	1,309,634	4,904,037	40,308	8,245,248	3,300,903
Bread and other bakery products	932	681	7,223	1,040	9,937	1,328,540	11,765,100	26,896,153	1,424,064	67,298,093	28,978,016
Brushes, other than rubber	27	127	650	360	714	446,678	725,129	1,926,233	71,038	4,377,283	2,380,845
Buttons	32	124	1,389	675	1,556	345,241	1,617,665	1,608,626	91,524	4,334,082	2,033,932
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces	56	665	4,718	3,352	3,824	1,755,194	4,715,084	42,425,864	351,071	73,317,872	30,540,037
Car and general construction and repairs, electric-railroad repair shops	28	35	1,132	4,206	87,088	1,667,333	910,654	26,760	2,691,835	1,754,421	
Car and general construction and repairs, steam-railroad repair shops	33	626	7,254	0,439	3,775	1,568,809	12,315,768	6,645,775	506,901	21,015,923	13,863,247
Card cutting and designing	5	9	49	31	31	32,341	94,793	108,327	1,295	303,192	193,570
Carpets and rugs, rag	7	3	58	44	44	3,045	39,704	43,797	2,611	170,990	124,582
Caskets, coffins, burial cases, and other morticians' goods	8	19	143	155	194	42,176	176,122	309,201	12,603	735,418	416,014
Cast-iron pipe	9	226	3,535	1,759	12,909	629,530	4,868,021	6,082,551	945,626	14,860,043	7,831,730
Cheese	3	2	9	2	2	27,780	2,300	27,780	660	39,224	10,784
Chemicals, not elsewhere classified	103	3,226	13,504	50,471	42,634	9,109,265	20,746,134	76,914,825	5,174,433	155,782,630	73,693,372
China firing and decorating, not done in potteries	4	8	34	6	5	19,919	37,939	81,146	4,014	106,419	81,259
Chocolate and cocoa products, not including confectionery	4	43	101	150	1,055	123,581	230,755	1,807,369	52,115	2,782,664	923,180
Cigars and cigarettes	60	689	9,884	205	2,835	1,497,857	7,823,037	29,882,277	184,745	75,585,311	45,538,289
Clay products (other than pottery) and nonclay refractories	68	693	6,088	8,546	12,645	1,762,147	7,693,343	3,252,761	2,266,981	21,739,973	16,220,231
Cleaning and polishing preparations	19	76	104	401	401	246,969	119,296	808,118	11,797	2,071,719	1,253,804
Clocks, clock movements, time-recording devices, and time stamps	5	23	93	91	91	70,039	140,549	112,799	4,051	338,778	221,928
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	168	345	7,910	48	1,437	1,228,548	9,143,167	12,069,593	200,007	28,380,959	16,111,859
Clothing, women's, not elsewhere classified	243	508	8,972	4	1,784	1,344,962	7,825,447	10,195,729	191,727	25,414,837	15,027,381

See footnotes at end of table.

NEW JERSEY

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	12	75	1,024		253	Dollars 179,703	Dollars 844,452	Dollars 3,168,641	Dollars 21,026	Dollars 4,881,804	Dollars 1,692,137
Coffee and spice, roasting and grinding	14	104	151	90	651	318,553	192,582	3,400,066	40,720	13,895,270	5,436,484
Collapsible tubes	7	80	622		639	300,648	695,233	1,062,828	38,010	3,420,228	1,420,390
Compressed and liquefied gases	14	228	377	1,090	4,951	488,585	682,131	1,021,178	851,404	5,404,748	4,092,166
Concrete products	109	235	1,801		4,423	596,000	1,850,680	2,687,038	145,918	7,647,481	4,814,525
Confectionery	54	119	1,248	430	1,178	340,017	1,232,840	3,167,445	103,582	9,927,763	2,656,736
Copperage	16	72	720	891	952	261,899	1,055,840	2,403,241	64,566	4,376,965	1,908,218
Copper, tin, and sheet-iron work, including gvanized-iron work, not elsewhere classified	78	243	923	255	1,478	727,727	1,736,189	2,755,555	58,879	9,435,273	3,620,339
Cordage and twine	7	114	955	5,450	2,510	401,637	1,001,271	4,050,138	100,161	7,688,906	3,529,609
Cork products	7	117	690	1,435	3,526	230,511	841,414	3,454,912	267,485	9,338,833	2,016,436
Corsets and allied garments	15	281	1,616	160	402	796,078	1,420,988	3,775,348	32,677	7,621,263	3,813,238
Cotton goods	28	241	4,758	10,102	5,897	827,311	5,220,985	8,727,373	414,552	17,270,601	8,128,730
Cotton small wares	14	51	381	357	417	141,192	458,333	936,125	30,241	2,003,040	1,036,680
Cutlery (not including silver and plated cutlery) and edge tools	20	177	1,143	800	1,770	520,109	1,406,756	1,097,733	85,777	5,008,893	3,825,333
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies	4	48	143		188	196,262	288,267	757,440	6,471	1,304,001	630,150
Doors, shutters, and window sash and frames, metal	5	34	252		796	113,009	439,773	540,334	9,959	1,416,810	866,523
Druggists' preparations	20	212	861		378	710,365	603,897	1,782,772	71,459	5,080,700	3,826,469
Dyeing and finishing textiles	107	2,897	23,087	42,005	20,407	9,522,623	29,043,872	41,530,316	5,444,838	113,558,338	66,374,184
Electrical machinery, apparatus, and supplies	151	12,490	42,193	23,583	53,001	24,272,758	54,638,737	134,441,484	2,360,793	292,785,977	155,974,700
Electroplating	18	28	165	20	553	64,636	238,934	123,637	21,090	603,686	548,908
Embroideries	297	171	1,988		1,045	416,311	2,356,848	2,664,807	123,913	8,994,500	6,205,780
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking	12	10	50		38	37,226	110,318	0,047	1,545	247,900	237,308
Engraving, steel and copperplate, and plate printing	22	88	604	55	280	478,607	944,160	241,833	28,092	2,462,099	2,192,174
Fancy and miscellaneous articles, not elsewhere classified	32	296	1,724	110	1,395	1,033,541	2,692,669	2,781,318	96,992	9,264,876	6,386,566
Feeds, prepared, for animals and fowls	10	73	148	470	480	162,229	198,926	1,070,790	30,454	1,943,360	330,137
Fertilizers	10	162	911	2,000	2,377	412,135	765,402	4,865,927	87,024	7,124,287	2,171,336
Fires	6	53	630	1,015	654	191,930	785,878	260,516	65,788	1,004,719	1,572,415
Flowerworks	6	13	170	100	145	28,670	203,550	300,415	16,262	850,073	443,396
Flavoring extracts and flavoring syrups	21	123	179	575	480	457,961	299,343	1,823,274	98,189	3,209,323	1,297,860
Flood and other grain-mill products	40	61	168	1,016	1,643	125,684	194,832	2,972,046	46,751	3,816,156	795,759
Food preparations, not elsewhere classified	22	181	504	50	1,328	402,597	721,037	5,210,523	44,570	10,829,662	5,574,460
Forgings, iron and steel, not made in plants operated in connection with rolling mills	14	298	980	6,504	1,302	570,857	1,055,068	2,492,300	305,472	6,477,969	3,680,107
Foundry and machine-shop products, not elsewhere classified	394	4,938	22,343	28,036	61,676	13,440,875	37,116,068	46,755,015	2,799,552	135,991,319	86,436,152
Fur goods	15	20	104	12	72	61,170	204,304	463,295	0,942	879,984	409,747
Furnishing goods, men's, not elsewhere classified	22	31	1,447	109	210	207,299	1,087,992	2,977,204	21,175	5,920,295	2,621,016
Furniture, including store and office fixtures	82	418	2,568	214	5,267	1,236,432	4,009,902	5,799,850	170,337	14,439,170	8,468,992
Furs, dressed	22	185	1,317	500	2,085	669,327	2,181,051	736,856	116,811	5,832,703	4,070,936
Gas and electric fixtures; lamps, lanterns, and reflectors	22	167	852	700	945	409,939	1,002,783	1,424,446	57,993	3,845,704	2,363,265
Gas machines, gas meters, and water and other liquid meters	8	111	396		766	333,223	530,893	1,187,048	30,291	2,464,698	1,277,100
Gas, manufactured, illuminating and heating	22	429	1,286	35,029	2,481	804,393	1,931,221	6,060,819	5,375,047	38,488,281	27,043,415
Glass	10	420	4,220	5,219	8,751	1,122,377	4,900,495	2,484,683	1,418,888	16,283,769	12,850,248
Glass products (except mirrors) made from purchased glass	34	135	1,043	60	954	376,553	1,169,200	3,019,583	75,433	6,780,615	2,785,599
Gold leaf and foil	11	5	145		47	9,357	123,200	296,968	5,249	675,312	373,105
Gold, silver, and platinum, reducing and refining, not from the ore	16	236	565	565	2,007	786,381	1,017,358	28,574,769	122,374	31,470,767	2,773,624
Grease and tallow, not including lubricating greases	16	51	256	1,030	1,086	196,109	407,230	4,733,904	114,059	6,284,885	1,435,522
Handkerchiefs	31	167	2,018	900	724	532,423	2,220,990	6,708,077	61,438	12,657,607	5,828,992
Hand stamps and stencils and brands	10	45	135		72	129,272	205,762	69,240	4,628	779,484	705,616
Hardware not elsewhere classified	24	260	1,071	270	1,876	919,510	2,788,500	2,281,130	20,514	6,838,713	3,933,820
Hat and cap materials, men's	8	27	422	486	267	73,407	295,443	294,051	10,143	3,029,730	778,086
Hats and caps, except felt and straw, men's	21	39	393	83	94,107	451,364	842,101	1,060,668	10,143	1,799,409	941,165
Hats, fur-felt	20	125	1,666	1,305	1,360	496,393	2,371,075	0,170,068	142,647	10,245,352	3,932,037
Hats, straw, men's	4	43	231	20	128	128,331	240,887	619,056	13,164	1,142,044	509,824
House-furnishing goods, not elsewhere classified	17	90	680	150	975	289,908	630,372	2,305,187	43,200	4,203,606	1,855,219
Ice cream	136	280	1,166	2,093	9,939	616,397	1,857,665	6,000,438	365,789	15,229,030	8,262,865
Ice, manufactured	121	230	995	13,870	32,678	628,321	1,618,747	342,823	1,138,130	6,881,915	5,400,967
Ink, printing	11	63	215	578	1,769	231,553	347,654	1,069,850	65,400	4,590,737	2,575,397
Iron and steel: Steel works and rolling mills	17	1,304	8,056	36,263	47,027	3,095,493	12,739,551	20,383,186	3,464,923	54,895,192	31,057,037
Jewelry	121	585	2,381	298	1,472	2,060,765	3,703,010	6,769,664	84,450	17,220,166	10,376,052
Jewelry and instrument cases	12	44	280	120	85	184,661	390,522	424,051	10,478	1,181,991	747,462
Knit goods	83	405	6,827	1,020	2,481	1,594,210	9,854,539	17,438,086	241,704	35,480,337	17,800,547
Lace goods	4	28	215	622	203	76,894	267,539	804,240	33,800	910,066	571,966
Leather goods, not elsewhere classified	18	71	606	15	340	232,480	726,347	1,871,556	21,776	3,811,001	1,417,069
Leather: Tanned, curried, and finished	51	432	4,159	7,550	8,761	1,319,210	6,003,625	25,723,414	575,403	89,564,554	13,265,737
Linen goods	3	75	693	1,030	441	221,727	761,253	1,889,025	63,510	3,062,031	1,169,487
Lithographing	10	47	342		359	163,554	553,133	683,183	16,819	1,619,254	1,039,262
Lubricating oils and greases, not made in petroleum refineries	16	176	934	1,449	624	609,214	1,370,232	12,072,730	140,769	21,847,476	9,633,977
Macaroni, spaghetti, vermicelli, and noodles	17	64	330	1,688	548	185,552	329,513	2,118,412	67,130	4,709,793	2,534,246
Machine-tool accessories and small metal-work-ing tools, not elsewhere classified	43	130	936		1,217	441,384	1,757,978	609,580	55,705	4,060,230	3,397,951
Machine tools	6	164	692	1,058	865	413,613	1,097,685	1,435,327	41,667	3,933,755	2,450,761
Marble, granite, slate, and other stone products	41	137	701	775	4,130	526,885	1,664,827	1,388,947	69,633	5,090,279	3,621,690
Meat packing, wholesale	84	580	2,817	6,480	4,030	1,432,965	4,605,828	75,168,571	483,943	88,945,411	13,361,192
Military	13	43	400	3	123	165,966	408,334	1,146,845	11,098	2,241,453	1,076,512
Minerals and earths, ground or otherwise treated	9	28	97	80	1,759	122,016	130,234	990,874	61,412	1,709,255	656,972
Mirrors, framed and unframed	16	37	232		372	128,326	322,222	743,116	18,288	1,484,743	673,339

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Models and patterns, not including paper patterns.....	31	30	171	15	360	Dollars 106,798	Dollars 301,820	Dollars 111,848	Dollars 12,604	Dollars 767,951	Dollars 633,509
Motion pictures, not including projection in theaters.....	6	88	447	175	692	222,442	643,632	1,730,097	28,731	4,205,046	2,446,218
Motor-vehicle bodies and motor-vehicle parts.....	47	654	3,086	4,447	7,774	1,421,381	5,163,279	7,931,601	319,802	16,789,982	8,508,510
Motor vehicles, not including motorcycles.....	6	325	5,616	3,000	907	823,569	8,417,492	83,179,609	135,486	131,607,007	48,282,512
Musical instrument parts and materials: Piano and organ.....	6	61	216	640	248	135,121	245,244	333,644	24,626	812,806	454,536
Musical instruments and parts and materials, not elsewhere classified.....	4	33	104	4	387	74,658	221,201	239,077	15,068	720,143	465,008
Needles, pins, hooks and eyes, and snap fasteners.....	5	63	571	484	213	161,268	625,599	611,856	23,761	1,827,765	1,192,118
Nonferrous-metal alloys and products, not including aluminum products.....	80	682	4,149	4,288	41,630	1,655,026	6,362,575	67,769,692	1,201,855	94,955,465	25,984,518
Oils, not elsewhere classified.....	11	146	344	1,969	647	369,529	676,720	7,849,975	180,974	10,587,418	2,550,460
Optical goods.....	14	49	229	7	187	162,197	268,523	352,323	6,300	941,972	680,283
Paints and varnishes.....	88	1,683	4,510	5,980	16,716	4,850,387	6,955,857	48,244,905	1,209,834	82,292,806	32,778,157
Paper.....	35	415	4,143	58,764	20,898	1,667,834	5,985,057	17,859,554	3,230,195	37,743,106	16,653,357
Paper goods, not elsewhere classified.....	35	327	1,704	2,775	1,372	1,284,562	2,104,346	7,818,610	158,209	16,739,186	8,762,401
Patent or proprietary medicines and compounds.....	82	721	1,780	2,180	4,773	1,693,278	2,001,144	11,230,006	259,405	36,187,415	23,607,045
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	5	44	99	100	558	188,132	158,756	322,737	21,274	1,185,865	841,854
Pencils, lead (including mechanical).....	6	370	1,809	2,425	1,682	1,107,430	2,088,921	4,177,645	115,806	10,457,008	6,163,567
Pens, fountain and stylographic; pen points, gold, steel, and brass.....	17	185	1,302	135	930	466,989	1,662,799	3,101,785	55,568	9,588,783	6,431,430
Perfumes, cosmetics, and other toilet preparations.....	26	321	858	461	530	1,026,966	938,805	4,092,840	41,856	15,884,043	11,750,238
Petroleum refining.....	10	1,041	8,167	51,263	5,363	2,731,872	15,191,714	204,686,115	704,307	297,151,470	91,771,048
Photo-engraving, not done in printing establishments.....	10	50	218	-----	87	168,712	547,235	190,746	15,859	1,273,395	1,066,790
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	145	525	1,989	5,109	11,957	1,613,213	3,206,022	5,843,958	222,572	13,208,020	7,141,400
Plated ware.....	4	10	115	-----	107	44,581	150,356	144,823	10,069	417,936	263,344
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	11	149	1,084	1,400	2,539	600,317	1,484,440	3,084,178	185,506	5,109,714	1,840,030
Pocketbooks, purses, and cardcases.....	9	108	646	-----	97	370,675	829,923	1,445,061	14,058	4,090,527	2,031,408
Pottery, including porcelain ware.....	52	733	6,049	2,535	6,721	2,291,385	7,876,877	2,209,588	1,185,601	19,608,494	10,213,305
Poultry killing, dressing, and packing, wholesale.....	6	-----	18	-----	-----	-----	23,877	475,770	30	553,208	77,468
Printing and publishing, book and job.....	402	1,015	4,901	676	7,404	3,030,605	8,477,701	6,065,501	203,724	26,470,523	19,520,208
Printing and publishing, newspaper and periodical.....	248	3,119	3,076	1,372	6,331	6,740,391	7,183,063	5,078,010	388,064	31,085,491	25,618,517
Printing materials, not including type or ink.....	3	9	42	-----	233	31,630	89,907	78,551	5,127	315,320	231,042
Pumps (hand and power) and pumping equipment.....	12	685	2,288	6,720	1,095	1,793,058	3,803,904	5,633,422	219,939	17,461,718	11,608,357
Regalia, badges, and emblems.....	6	12	47	3	34	33,728	62,575	86,483	3,055	232,282	142,744
Roofing, built up and roll; asphalt shingles; roof coatings other than paint.....	11	170	1,011	185	3,830	354,425	1,747,045	10,655,858	405,684	17,264,373	6,202,931
Rubber goods other than tires, inner tubes, and boots and shoes.....	48	1,204	7,740	10,540	48,003	3,073,738	10,604,773	20,876,475	1,561,928	50,790,712	28,358,300
Rubber tires and inner tubes.....	0	441	1,969	6,800	5,452	990,806	2,641,180	6,491,062	209,770	11,386,447	4,594,706
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	20	75	252	-----	1,266	266,445	442,749	4,347,099	65,807	5,777,560	1,363,754
Scales and balances.....	8	59	206	-----	373	202,033	415,443	321,183	16,037	1,464,049	1,127,429
Screw-machine products and wood screws.....	6	48	230	25	113	129,239	393,053	451,100	15,800	1,252,068	786,068
Ship and boat building, steel and wooden, including repair work.....	41	897	7,551	15,123	25,478	2,500,653	12,383,750	8,920,562	485,050	29,620,600	20,214,970
Shirts.....	51	197	4,693	297	617	535,074	3,882,884	10,249,136	62,686	21,510,956	11,170,133
Signs and advertising novelties.....	40	342	1,115	567	678	803,518	1,561,070	1,641,203	49,587	6,593,512	3,902,722
Silk and rayon manufactures.....	681	1,551	21,410	7,525	10,365	5,144,892	28,009,752	67,637,973	1,254,948	126,307,508	57,414,677
Silver-smithing and silverware.....	14	71	528	513	164	267,106	1,055,450	823,329	26,527	2,391,866	1,542,010
Smelting and refining, copper.....	3	564	3,730	58,565	2,425	1,392,364	6,445,004	274,016,065	2,056,908	302,546,434	25,672,561
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	7	32	205	-----	1,142	101,386	280,672	3,383,803	119,513	4,109,414	606,098
Sporting and athletic goods, not including firearms or ammunition.....	12	55	245	-----	450	205,932	285,938	784,289	18,955	1,724,512	921,268
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	40	351	2,780	1,185	2,533	1,040,867	3,205,497	4,732,161	265,900	12,900,676	7,902,615
Stationery goods, not elsewhere classified.....	11	89	452	145	290	290,270	689,589	896,956	16,442	2,448,959	1,535,261
Statuary and art goods, factory product.....	8	6	47	-----	9	14,940	78,968	74,095	2,440	208,937	130,402
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	14	94	387	900	469	256,174	641,016	1,366,316	60,069	3,191,378	1,764,393
Steam fittings and steam and hot-water heating apparatus.....	13	269	1,899	2,975	3,272	653,940	2,088,200	5,000,630	349,894	13,310,225	7,959,731
Steel barrels, kegs, and drums.....	4	33	375	-----	1,059	96,630	635,785	1,987,817	53,256	3,498,715	1,457,642
Stereotyping and electrotyping, not done in printing establishments.....	6	21	112	-----	348	78,033	240,529	87,988	17,067	607,337	502,282
Stoves and ranges (other than electric) and warm-air furnaces.....	13	280	1,144	900	2,704	737,240	1,716,340	2,516,706	125,145	7,092,339	4,450,488
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	81	587	2,763	3,228	9,167	1,930,699	4,450,044	16,404,842	274,339	29,142,480	12,463,299
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	24	185	498	1,085	3,572	819,203	823,302	6,801,861	151,562	11,143,491	4,190,048
Textile machinery and parts.....	43	203	1,107	760	1,611	681,765	1,660,995	2,183,213	75,122	5,787,973	3,529,638
Tin cans and other tinware, not elsewhere classified.....	8	267	2,539	1,465	3,526	607,639	3,519,699	9,522,759	162,122	16,134,952	6,450,071
Tools, not including edge tools, machine tools, files, or saws.....	25	106	644	397	1,373	266,893	943,643	886,141	87,016	3,816,203	2,393,046
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	24	188	1,471	-----	865	555,993	1,608,146	2,507,002	62,059	6,858,240	4,289,179
Trunks, suitcases, and bags.....	20	78	734	650	400	1,064,051	1,966,356	24,722	4,164,841	4,164,841	2,173,763
Umbrellas, parasols, and canes.....	6	25	415	600	86	129,418	405,613	703,671	32,619	1,627,682	891,392

See footnotes at end of table.

TABLE 12.—GENERAL STATISTICS FOR THE STATE, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Vinegar and cider.....	9	11	40	285	158	31,392	32,793	252,400	8,678	514,009	252,931
Wall paper.....	6	115	747	1,257	841	387,241	850,671	1,417,520	48,103	3,630,944	2,171,261
Wall plaster, wall board, insulating board, and floor composition.....	10	48	209	985	880	172,401	201,811	641,726	40,685	1,850,273	1,107,862
Waste.....	7	71	205	929	1,198	321,821	270,430	2,293,849	39,200	3,172,784	339,685
Window and door screens and weather strip.....	11	35	148	-----	261	97,740	193,403	229,837	9,400	779,835	640,698
Window shades and fixtures.....	22	58	189	-----	147	105,825	280,709	1,339,032	13,225	2,090,377	738,020
Wire, drawn from purchased bars or rods.....	12	249	1,988	3,074	12,732	734,659	3,037,774	6,506,099	574,131	15,794,950	8,714,720
Wirework, not elsewhere classified.....	32	190	1,329	500	2,259	570,851	1,774,103	3,776,870	120,528	8,683,494	4,787,090
Wood turned and shaped and other wooden goods, not elsewhere classified.....	23	43	170	143	619	107,301	208,301	280,795	20,147	787,877	486,895
Woolen goods.....	10	138	1,904	6,150	3,900	627,198	2,206,213	5,530,573	503,187	10,628,578	4,894,858
Worsted goods.....	13	983	7,293	27,347	2,254	2,723,775	8,700,919	20,505,048	223,256	38,415,458	17,386,554
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	3	21	67	270	418	49,318	109,104	238,080	17,016	631,934	376,838
Other industries.....	314	8,040	47,170	129,939	82,327	20,455,978	66,797,453	247,426,711	13,034,949	474,986,594	214,524,934

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Not including data for 6,991 employees of central administrative offices, with salaries aggregating \$17,258,405. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>4</sup> Withheld to avoid disclosing compensation of an individual employee; included in items for "Other industries."

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929

[This table presents, for each industrial area (See GENERAL EXPLANATIONS—Industrial Area) and for each important industrial county in the State, with certain exceptions, the reasons for which are given in explanatory notes, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

NEW YORK CITY INDUSTRIAL AREA

[This area comprises Bergen, Essex, Hudson, Middlesex, Passaic and Union Counties, N. J., and Bronx, Kings, New York, Queens, Richmond, and Westchester Counties, N. Y. The totals for all industries do not include data for a few establishments located outside the industrial area (see footnotes 1, 2, and 3), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	36,401	203,034	918,206	813,623	1,359,206	\$695,159,467	\$1,416,881,044	\$4,797,132,925	\$116,564,479	\$9,424,294,682	\$4,510,597,278
Aircraft and parts.....	11	302	1,512	-----	960	989,679	2,298,366	2,439,206	50,782	7,015,068	4,525,080
Artificial and preserved flowers and plants.....	119	230	1,782	-----	274	611,205	2,022,760	2,953,423	36,926	8,349,844	5,358,995
Artificial leather.....	7	139	583	1,210	4,423	503,959	1,004,522	6,024,160	149,018	10,875,550	2,702,378
Artists' materials.....	30	103	290	28	376	359,646	-----	429,064	1,459,755	3,145,911	1,066,106
Awnings, tents, sails, and canvas covers.....	174	245	972	00	497	732,086	1,580,796	3,774,330	45,836	8,149,403	4,320,231
Bags, other than paper, not made in textile mills.....	35	220	1,644	1,940	1,083	838,038	1,654,490	21,482,269	65,890	26,086,733	4,548,574
Bags, paper, exclusive of those made in paper mills.....	26	192	946	-----	1,323	597,529	1,078,403	6,707,011	46,474	10,513,507	3,759,122
Baking powders, yeast, and other leavening compounds.....	11	155	832	12,706	1,881	570,184	1,260,820	5,075,075	334,767	10,470,286	5,066,454
Baskets and rattan and willow ware, not including furniture.....	21	38	232	75	62	109,059	299,640	390,407	7,014	1,043,385	639,904
Belting, leather.....	29	94	277	915	194	334,893	394,434	3,191,974	34,218	4,780,341	1,554,149
Beverages.....	355	969	3,462	19,553	8,766	2,860,279	5,969,228	9,937,093	1,008,751	31,545,253	20,599,409
Billiard and pool tables, bowling alleys, and accessories.....	13	14	81	-----	126	24,431	147,144	289,199	5,443	620,717	320,075
Blacking, stains, and dressings.....	19	119	307	405	239	403,388	372,325	1,688,437	27,933	4,447,947	2,731,627
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	10	183	1,012	1,040	2,927	609,204	1,778,880	2,474,134	145,609	7,034,664	4,414,871
Bookbinding and blank-book making.....	412	1,301	9,223	24	6,862	3,709,728	12,375,195	10,259,260	334,512	34,875,239	24,281,467
Boot and shoe cut stock, not made in boot and shoe factories.....	26	25	144	-----	81	62,304	204,927	2,551,271	5,344	3,552,374	995,769
Boot and shoe findings, not made in boot and shoe factories.....	43	262	1,031	205	1,528	564,434	1,301,838	2,591,720	75,841	5,980,104	3,312,543
Boots and shoes, other than rubber.....	275	1,840	15,572	1,242	7,464	5,973,341	25,136,283	39,265,808	474,179	87,719,935	47,970,993
Boxes, cigar, wooden.....	10	55	584	90	442	229,357	-----	701,568	18,930	1,927,542	1,207,044
Boxes, paper, not elsewhere classified.....	295	1,316	9,041	1,824	7,978	4,608,802	10,335,794	22,301,272	419,502	47,482,967	24,762,193
Boxes, wooden, except cigar boxes.....	59	199	1,420	661	4,402	641,134	2,061,866	6,361,570	107,818	11,642,439	6,173,051
Bread and other bakery products.....	2,812	3,334	29,572	6,645	37,585	8,448,224	48,099,734	117,304,083	5,024,875	266,790,928	144,461,970
Brooms.....	20	9	67	-----	104	17,673	98,391	290,306	4,601	533,226	238,319

See footnotes at end of this section, p. 334.



CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products *	Cost of fuel and purchased electric energy	Value of products *	Value added by manufacture †
				Prime movers	Electric motors driven by purchased energy						
Brushes, other than rubber.....	79	285	1,889	377	1,644	\$905,470	\$2,134,034	\$6,134,030	\$143,402	\$12,361,066	\$6,034,443
Buttons.....	104	265	2,381	685	2,458	734,180	2,746,614	3,783,204	145,232	9,585,049	5,656,613
Candles.....	7	32	215	98	109	168,304	282,346	868,413	14,494	1,844,042	961,705
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	23	85	236	-----	248	288,838	287,741	4,435,677	47,987	7,200,887	2,717,228
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	75	352	1,850	561	2,523	1,047,603	1,903,785	19,356,045	130,480	31,202,826	11,710,301
Car and general construction and repairs, electric-railroad repair shops.....	34	675	7,946	-----	14,886	1,556,762	13,865,658	7,628,585	558,747	23,636,724	15,449,392
Car and general construction and repairs, steam-railroad repair shops.....	40	706	9,468	9,643	9,515	2,037,266	16,310,108	8,369,684	684,422	27,404,050	18,349,044
Carbon paper and inked ribbons.....	16	118	310	456	1,187	441,107	457,808	1,809,118	37,168	4,052,012	2,205,726
Card cutting and designing.....	20	91	302	-----	300	243,563	494,154	1,137,049	12,719	2,538,670	1,388,902
Carpets and rugs, rag.....	9	6	67	-----	43	9,389	54,406	64,643	2,514	238,076	171,519
Carriages and sleds, children's.....	16	35	297	-----	251	95,880	382,636	868,727	15,046	1,680,501	805,828
Carriages, wagons, sleighs, and sleds.....	6	51	129	-----	265	174,702	307,309	984,341	7,807	1,909,607	917,429
Cash registers and adding, calculating, and card-tabulating machines.....	9	228	802	-----	883	743,077	1,360,168	745,068	38,064	5,696,931	4,913,799
Caskets, coffins, burial cases, and other morticians' goods.....	29	140	881	677	1,816	544,096	1,259,702	2,934,845	64,389	7,548,608	4,549,374
Cheese.....	8	3	13	5	6	6,545	18,690	268,648	4,207	342,952	70,037
Chemicals, not elsewhere classified.....	141	2,619	11,416	44,302	41,651	8,933,098	17,883,481	72,494,129	4,092,080	135,834,320	59,248,111
China firing and decorating, not done in potteries.....	9	10	70	-----	23	20,135	111,864	166,104	12,245	446,958	268,609
Chocolate and cocoa products, not including confectionery.....	17	255	1,396	4,050	8,291	7,111,321	1,606,644	13,350,751	409,796	19,814,060	6,053,613
Cigars and cigarettes.....	353	851	12,024	441	4,075	2,376,338	12,414,380	44,964,333	241,647	129,665,816	84,449,836
Clay products (other than pottery) and nonclay refractories.....	42	578	4,808	6,592	10,534	1,501,751	6,888,314	2,677,260	1,828,424	18,427,668	13,021,684
Cleaning and polishing preparations.....	68	428	673	450	1,794	1,200,795	823,912	3,010,316	60,893	10,266,340	6,686,104
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	1,809	3,935	33,634	625	6,779	12,013,574	50,473,003	160,555,006	1,009,344	338,500,954	170,930,104
Clothing, men's, buttonholes.....	16	6	82	6	34	11,445	96,503	15,696	1,113	188,305	171,406
Clothing, women's, not elsewhere classified.....	5,781	10,205	104,202	21	18,755	63,156,261	106,968,722	723,673,594	3,132,148	1,313,449,686	686,043,944
Clothing, work (including sheep-lined and blanket-lined work coats, but not including shirts), men's.....	32	79	711	-----	182	235,938	934,430	3,807,211	15,868	6,099,388	2,276,309
Coffee and spice, roasting and grinding.....	91	677	1,426	873	5,882	1,846,396	1,799,204	66,342,466	399,376	84,222,194	17,483,562
Compressed and liquefied gases.....	10	209	404	1,814	4,235	462,010	723,313	564,960	343,164	4,748,841	3,840,717
Concrete products.....	166	321	1,362	340	6,835	919,496	2,361,701	2,946,991	169,735	9,451,322	6,334,596
Confectionery.....	183	1,077	9,365	7,269	11,064	2,972,028	9,243,903	26,143,603	775,673	53,821,460	26,902,184
Cooperage.....	28	99	1,061	1,496	914	320,218	1,493,670	4,202,021	73,201	7,061,718	2,776,496
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	305	816	3,105	256	3,605	2,608,297	6,170,513	9,720,905	165,598	23,815,371	13,928,868
Cordage and twine.....	12	219	2,058	6,025	6,166	596,167	2,299,595	6,652,209	212,157	12,512,810	5,648,444
Corsets and allied garments.....	128	767	4,873	150	1,104	2,531,648	5,017,044	14,866,070	96,595	29,104,281	14,151,616
Cotton goods.....	23	182	3,684	16,290	3,689	643,468	4,216,862	0,974,030	328,325	13,665,100	6,362,739
Cotton small wares.....	22	70	545	522	531	269,381	712,995	1,557,016	46,330	3,384,153	1,780,801
Cutlery (not including silver and plated cutlery) and edge tools.....	35	347	2,252	800	3,329	1,315,060	2,769,149	3,164,723	161,866	14,898,571	11,571,083
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiculturists' supplies.....	5	46	141	-----	211	192,102	287,709	763,666	6,279	1,400,411	630,466
Dental goods and equipment.....	19	248	981	2,080	366	685,973	1,266,674	5,099,527	53,265	6,587,108	3,834,316
Doors, shutters, and window sash and frames, metal.....	57	353	2,173	355	3,863	1,332,204	4,683,435	5,826,479	110,159	15,480,780	6,550,148
Druggists' preparations.....	70	582	1,344	60	1,379	1,801,271	1,515,012	5,262,953	127,993	15,946,213	10,555,262
Drug grinding.....	9	45	159	294	1,477	109,848	241,081	1,088,152	49,335	1,937,995	800,508
Dyeing and finishing textiles.....	292	3,226	25,058	33,658	36,613	10,862,737	32,937,737	40,778,202	5,965,472	126,556,752	73,823,078
Electrical machinery, apparatus, and supplies.....	340	15,248	54,553	24,408	68,840	32,113,257	69,943,145	175,979,064	3,155,832	378,720,715	199,655,819
Electroplating.....	88	150	786	35	2,441	442,985	1,442,427	519,524	110,722	3,617,727	2,081,431
Embroideries.....	692	566	5,141	-----	1,781	1,427,264	6,393,412	5,183,120	194,119	20,804,186	15,470,941
Emery wheels and other abrasive and polishing appliances.....	8	15	110	50	180	37,440	129,408	399,465	8,801	673,718	265,452
Engraving (other than steel, copperplate, or wood), chasing, etching, and disinking.....	71	164	837	-----	1,065	513,148	1,227,019	1,108,401	47,487	4,527,961	3,372,073
Engraving, steel and copperplate, and plate printing.....	122	561	3,845	62	4,015	2,019,790	6,911,389	3,762,133	142,637	18,504,776	14,000,006
Engraving, wood.....	7	12	39	-----	33	27,594	66,602	164,589	18,582	164,589	147,492
Envelopes.....	33	308	1,320	380	1,297	863,601	1,543,291	3,553,417	72,473	7,830,533	4,204,643
Fancy and miscellaneous articles, not elsewhere classified.....	390	1,302	7,752	163	4,076	4,065,776	8,816,870	18,178,172	281,293	43,392,547	24,938,082
Feathers, plumes, and manufactures thereof.....	34	44	231	1	69	99,997	231,032	356,033	4,976	958,616	647,607
Feeds, prepared, for animals and fowls.....	9	98	325	685	950	204,069	458,423	1,569,068	83,742	3,514,837	1,802,027
Fertilizers.....	7	97	448	1,209	2,317	257,323	582,554	3,437,207	71,240	5,189,131	1,680,084
Files.....	7	79	675	1,160	704	249,366	978,147	349,130	78,869	2,357,781	1,929,792
Fireworks.....	6	17	283	170	172	36,020	358,374	653,228	23,549	1,444,786	768,009
Flags and banners.....	17	74	403	30	116	135,908	337,643	570,138	11,238	1,851,495	800,119
Flavoring extracts and flavoring sirups.....	125	419	760	1,416	2,436	1,452,945	1,178,121	7,819,743	242,940	15,702,417	7,669,728
Food preparations, not elsewhere classified.....	99	830	1,897	435	3,978	2,500,763	2,428,146	16,278,077	201,291	30,781,592	14,302,224
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	15	266	844	5,148	1,539	457,720	1,482,856	1,883,196	209,502	5,336,824	3,244,126
Foundry and machine-shop products, not elsewhere classified.....	784	7,742	34,024	31,591	74,032	23,036,023	59,954,338	68,548,887	3,462,398	212,634,583	140,628,298
Fur goods.....	2,019	2,818	10,680	12	3,644	9,175,334	24,943,307	148,991,973	370,231	227,424,918	78,053,709

See footnotes at end of this section, p. 334.

GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of product <sup>b</sup>	Value added by manufacture <sup>c</sup>
				Prime movers	Electric motors driven by purchased energy						
men's, not elsewhere classified	288	873	5,570		998	\$2,792,922	\$7,950,725	\$34,107,010	\$134,508	\$61,832,450	\$27,530,032
ing store and office fixtures	622	2,395	12,802	1,620	24,710	8,261,758	23,919,091	40,608,915	774,221	95,452,423	54,009,287
207	644	4,247	580	6,874	2,782,244	7,301,455	14,610,110	318,402	33,084,810	19,026,292	
other coating, not done in connection with rolling	5	10	144		80	50,012	108,993	307,755	27,545	824,943	480,643
xtures; lamps, lanterns, and meters, and water and other	218	1,253	5,006	460	5,014	3,967,310	8,780,610	16,273,043	350,431	38,773,721	22,149,347
l, illuminating and heating	14	208	1,462		2,471	890,271	2,188,073	2,951,924	120,013	8,637,271	5,505,334
15	4,879	8,865	93,448	10,068	8,920,403	12,450,061	22,882,852	22,611,406	112,118,361	90,024,103	
9	65	582	720	1,823	243,280	815,770	400,001	237,380	3,213,895	2,506,908	
except mirrors) made from	105	280	1,013	90	1,421	925,375	2,462,172	5,467,758	119,501	11,251,249	5,063,990
is, leather	17	37	268		28	72,423	400,018	495,573	2,866	1,202,341	700,902
12	39	161	37	824	142,824	224,593	2,019,204	43,001	3,112,620	1,050,415	
24	10	258		95	53,555	260,580	517,067	0,300	1,178,740	652,379	
v, not including lubricating	22	165	652	1,805	1,470	492,050	1,037,245	8,102,286	192,009	11,053,868	2,609,573
32	58	225	1	19	120,574	284,574	413,303	0,469	1,180,223	760,388	
69	307	3,573	1,035	609	854,424	2,901,406	0,004,170	75,230	10,070,858	9,091,452	
58	183	601		415	480,243	989,772	969,772	28,193	3,259,778	2,582,373	
65	481	2,500	720	4,032	1,811,109	3,463,064	0,921,116	64,056	15,272,330	8,287,158	
cept felt and straw, men's	231	282	2,144	3	740	708,127	1,704,020	4,057,312	35,860	8,722,712	4,629,431
26	161	1,200	20	343	618,670	7,206,816	34,824,608	240,009	56,385,432	21,320,125	
oods, not elsewhere classified	407	1,101	6,413	405	4,240	3,224,125	4,698,798	19,940,809	850,141	41,052,034	21,161,924
278	784	2,739	2,705	24,771	1,877,952	4,208,870	1,028,934	3,600,753	22,509,278	17,939,591	
150	285	2,345	11,644	80,865	532,987	4,816,556	5,021,772	7,071,700	259,038	10,172,925	10,942,187
50	412	1,009	2,802	5,637	1,891,787	4,316,556	6,021,772	169,180	10,708,248	14,577,296	
essional and scientific	77	948	2,896	1,100	2,074	2,437,451	13,938,865	36,876,230	220,245	75,838,372	38,742,807
655	2,025	7,265	625	4,222	6,984,207	13,938,865	1,269,461	1,454,045	80,253	4,175,994	2,691,496
00	140	954	120	350	430,201	1,269,461	50,098,083	644,872	107,184,873	50,471,718	
469	1,760	13,989	1,785	6,933	5,817,637	10,320,927	2,004,329	71,045	8,005,613	5,029,239	
50	315	1,204		1,790	978,319	777,070	7,872,536	12,078	11,084,188	3,198,074	
74	93	379		349	335,022	233,423	241,703	18,928	913,841	653,150	
5	31	104		775	109,889	3,720,343	10,282,590	77,647	18,772,623	8,412,386	
products	106	423	2,945	15	1,128	1,275,826	4,457,198	19,111,743	437,969	30,342,378	10,792,666
t elsewhere classified	55	350	2,908	3,575	7,045	1,044,787	4,457,198	10,038,315	351,484	23,714,318	
curried, and finished	113	1,200	5,245	880	7,473	4,040,312	10,038,315	11,010,676	35,076,478	23,714,318	
ad greases, not made in petro-	23	200	951	1,483	671	667,413	1,398,701	12,420,002	143,222	22,437,487	9,874,263
ber products, not elsewhere	7	75	507	2,225	938	222,302	618,293	3,021,880	41,538	4,714,740	1,651,322
90	235	1,498	2,184	5,907	682,707	1,848,003	8,830,120	384,157	16,803,720	7,699,434	
tti, vermicelli, and noodles	82	210	1,369		1,807	707,521	2,484,415	890,225	70,020	5,093,934	5,003,683
ssories and small metal-work-	11	211	731	526	1,152	577,705	1,255,320	1,367,680	47,033	3,048,207	3,248,207
sewhere classified	219	800	4,334	2,790	25,051	3,244,916	11,311,728	9,001,250	622,969	30,853,084	21,328,859
late, and other stone products	180	508	2,293	1,305	3,204	1,261,693	3,873,280	11,493,024	174,529	25,300,507	13,638,114
d springs, not elsewhere classi-	88	1,599	7,337	14,055	9,800	4,105,103	12,470,003	220,256,878	1,433,009	40,665,807	40,665,807
olesale	867	3,232	10,706	39	4,230	10,462,196	26,871,645	63,879,593	667,463	127,025,151	62,488,105
arths, ground or otherwise	10	29	135	180	1,103	82,935	192,731	981,451	65,173	1,907,391	860,787
o frames	55	178	790		969	614,506	1,107,651	1,733,956	41,038	4,701,571	2,956,877
nd unframed	82	275	1,289	160	1,486	773,133	2,162,739	3,009,802	95,077	8,295,889	4,591,010
rnns, not including paper pat-	117	180	834	79	1,232	640,361	1,585,406	877,659	51,039	4,788,241	3,808,643
not including projection in	36	1,243	2,142	439	3,278	6,407,035	4,292,893	11,010,041	210,250	48,076,986	36,856,695
ies and motor-vehicle parts	132	1,020	5,869	4,432	12,365	2,618,903	10,003,181	20,256,823	514,282	37,498,266	16,727,161
nt parts and materials: Piano	18	143	701	1,150	1,207	376,032	812,651	838,209	62,587	2,779,287	1,873,491
alloys and products, not in-	230	1,635	8,031	17,850	42,725	4,778,689	13,108,510	93,849,552	1,586,620	141,432,269	45,998,087
im products	6	27	83	280	39	111,427	143,898	1,650,062	34,451	2,223,153	543,840
44	207	1,008	7	935	700,175	1,400,274	1,686,061	59,268	5,042,573	3,298,644	
209	2,851	7,607	9,641	20,117	0,397,152	11,887,246	89,091,949	1,807,532	160,428,988	58,629,507	
ibes	21	182	1,744	10,520	9,301	680,624	2,803,633	6,960,343	1,374,370	14,746,345	6,405,632
108	888	4,171	4,773	4,448	2,084,380	4,853,263	16,849,074	812,251	35,759,312	18,597,987	
sewhere classified	219	1,655	3,327	2,681	5,575	5,423,866	4,026,218	10,266,044	366,820	69,279,963	49,046,899
etary medicines and com-	5	75	173	920	553	268,241	318,223	425,271	14,130	1,663,930	1,194,529
: Asphalt, tar, crushed slag,	290	3,101	7,045	1,209	4,887	8,237,191	7,842,319	31,441,972	315,700	111,446,871	70,080,199
ics, and other toilet prepara-	17	84	570	1,900	225	236,389	591,600	1,179,715	85,569	2,768,514	1,503,230
not done in printing establish-	92	975	3,052		1,445	3,576,813	9,106,313	2,492,055	259,576	19,748,687	16,997,056
ucts (including general mill-	309	1,224	5,024	10,410	25,056	4,124,621	9,267,420	17,612,031	519,372	40,098,829	21,966,826
le in planing mills connected	30	218	840	160	2,025	601,315	1,273,741	2,718,140	112,099	6,029,351	3,199,122
ies, not including pipe or vit-	189	840	6,129	993	3,143,230	3,143,230	11,250,108	25,865,949	99,755	43,877,038	22,411,334
itary ware	12	110	765	445	1,817	358,817	1,172,810	239,820	219,976	3,065,963	2,606,167
ses, and card cases											
g porcelain ware											

at end of this section, p. 334.

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>NEW YORK CITY INDUSTRIAL AREA—Continued</b>											
Poultry killing, dressing, and packing, wholesale.....	28	50	202	100	113	\$134,104	\$201,262	\$3,420,277	\$8,036	\$4,318,441	\$890,128
Printing and publishing, book and job.....	2,345	12,123	30,720	719	37,983	34,706,874	61,282,469	50,358,235	2,039,900	265,166,606	207,768,465
Printing and publishing, music.....	61	804	401	-----	507	2,535,088	842,607	883,107	20,888	9,799,035	8,895,040
Printing and publishing, newspaper and periodical.....	926	28,911	15,714	2,184	34,084	79,326,161	42,803,850	81,491,052	1,761,282	394,928,832	311,675,808
Printing materials, not including type or ink.....	12	52	159	160	263	183,060	294,092	354,558	25,067	1,500,700	1,121,085
Pumps (hand and power) and pumping equipment.....	22	470	1,056	4,155	716	1,335,939	2,836,008	4,365,077	161,004	12,125,090	7,599,009
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	31	93	323	350	623	249,485	653,280	1,153,144	25,081	2,751,625	1,568,400
Regalia, badges, and emblems.....	18	66	205	3	161	143,539	230,502	401,138	5,649	1,197,578	700,791
Rubber goods other than tires, inner tubes, and boots and shoes.....	60	1,071	7,349	7,985	28,350	2,796,388	9,870,530	20,217,004	892,019	47,958,017	26,848,904
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	70	130	488	-----	2,178	413,372	902,658	8,060,081	135,474	11,041,461	2,845,306
Saws.....	5	-----	7	-----	29	-----	8,687	19,147	877	80,393	30,939
Screw-machine products and wood screws.....	10	88	481	25	790	324,732	830,710	1,105,815	49,598	3,582,581	2,427,168
Ship and boat building, steel and wooden, including repair work.....	64	1,354	13,224	2,236	80,696	3,043,956	24,258,410	14,617,536	958,439	54,491,895	38,915,920
Shirts.....	249	717	7,298	207	1,848	2,011,280	7,514,833	36,631,712	148,765	70,010,178	38,329,701
Signs and advertising novelties.....	239	853	3,140	577	1,895	2,451,366	5,087,213	5,890,689	131,981	19,552,174	13,503,504
Silk and rayon manufactures.....	703	1,924	22,060	4,447	21,582	5,912,908	29,349,017	94,270,842	1,283,308	166,384,655	70,825,215
Silversmithing and silverware.....	40	186	869	513	664	500,064	1,786,508	1,885,710	63,021	5,018,905	3,079,565
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	14	75	307	-----	868	320,367	446,547	7,819,695	111,389	9,338,717	1,407,633
Soap.....	43	1,400	3,844	10,200	6,092	3,433,237	5,429,799	44,807,249	924,454	79,978,151	34,246,448
Soda-water apparatus.....	17	53	127	-----	310	104,000	244,285	702,280	10,180	1,409,490	697,024
Sporting and athletic goods, not including firearms or ammunition.....	30	113	597	50	733	319,559	815,013	1,528,517	30,576	3,585,033	2,025,940
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	7	29	127	200	103	111,124	221,753	251,108	30,653	844,309	556,548
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	101	892	5,627	2,904	7,928	2,800,572	6,969,069	12,112,488	573,341	30,275,047	17,590,118
Stationery goods, not elsewhere classified.....	47	332	1,622	311	1,143	1,105,930	2,100,844	3,525,033	68,939	8,035,148	5,846,176
Statuary and art goods, factory product.....	39	91	526	-----	179	332,692	1,404,316	607,467	19,950	2,905,259	2,377,836
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	40	139	362	540	952	564,486	658,644	1,925,101	68,411	4,324,419	2,330,907
Steam fittings and steam and hot-water heating apparatus.....	20	206	1,063	3,010	1,721	644,322	2,580,845	3,434,454	280,738	9,032,048	5,316,856
Stereotyping and electrotyping, not done in printing establishments.....	37	317	1,267	145	4,112	1,160,135	3,220,651	1,130,191	230,392	7,841,060	6,472,386
Stoves and ranges (other than electric) and warm-air furnaces.....	24	825	1,450	900	3,511	972,587	2,184,473	3,507,760	150,877	8,987,531	5,319,894
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	331	1,713	7,024	2,294	18,452	5,613,219	13,080,149	30,188,041	506,973	63,944,802	33,240,788
Surgical and orthopedic appliances, including artificial limbs.....	75	776	2,699	350	861	2,338,878	3,282,740	11,326,130	184,187	25,300,714	13,700,307
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	28	214	650	1,450	3,327	995,139	1,160,964	8,440,011	210,458	13,870,943	5,220,474
Textile machinery and parts.....	50	214	1,161	610	1,687	659,419	1,718,397	2,193,899	78,730	5,932,830	3,060,231
Theatrical scenery and stage equipment <sup>3</sup> .....	20	64	201	-----	318	320,028	404,935	801,127	11,580	2,297,033	1,484,326
Tin cans and other tinware, not elsewhere classified.....	44	680	6,026	4,516	7,000	1,594,290	7,881,150	10,694,517	440,227	35,701,832	15,657,088
Tools, not including edge tools, machine tools, files, or saws.....	69	108	898	453	1,738	477,157	1,342,516	1,733,899	106,702	5,573,201	3,732,600
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	178	685	4,644	-----	2,239	1,928,590	5,804,289	11,133,709	234,508	26,307,602	15,020,445
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	459	1,086	5,712	12	1,956	2,870,940	7,524,517	15,113,326	275,825	33,531,653	18,142,502
Trunks, suitcases, and bags.....	151	414	2,199	525	1,092	1,278,531	3,370,694	7,175,862	66,768	15,044,501	7,802,371
Typewriters and parts.....	6	107	507	-----	167	305,759	691,442	201,937	20,327	2,000,492	1,778,228
Vinegar and cider.....	4	2	10	15	57	(9)	7,349	35,000	3,140	60,192	27,152
Wall paper.....	9	145	875	1,347	898	451,808	1,004,163	1,636,112	61,233	4,317,141	2,619,796
Wall plaster, wallboard, insulating board, and floor composition.....	26	123	696	985	13,190	390,102	1,127,921	2,797,601	423,571	8,023,237	4,802,065
Waste.....	13	80	319	1,049	1,321	355,843	322,634	2,518,296	47,535	3,029,433	1,063,602
Watch and clock materials and parts, except watchcases.....	3	4	17	-----	5	14,250	23,086	30,282	220	97,250	66,748
Window and door screens and weather strip.....	40	37	270	5	558	252,163	408,607	679,390	23,240	1,861,485	1,158,855
Window shades and fixtures.....	122	156	595	-----	983	423,003	821,850	3,762,574	30,940	6,445,609	2,652,096
Wire, drawn from purchased bars or rods.....	12	212	1,776	4,199	5,754	689,739	3,249,063	7,073,196	500,255	16,003,936	7,820,455
Wirework, not elsewhere classified.....	103	461	2,521	510	3,651	1,501,315	3,524,174	5,641,260	197,740	14,739,129	8,900,129
Wood preserving.....	4	38	301	600	601	87,979	345,080	3,431,546	67,343	4,262,708	763,909
Wood turned and shaped and other wooden goods, not elsewhere classified.....	72	121	434	175	1,551	331,938	696,250	1,576,418	40,256	3,862,385	2,245,711
Worsteds goods.....	8	926	6,119	24,125	1,392	2,516,279	7,518,480	16,253,450	441,037	31,540,184	14,845,697
Other industries.....	945	12,030	87,174	244,400	142,890	34,402,939	128,252,041	1,127,153,168	10,343,306	1,539,241,462	442,744,088

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside the New York City Industrial Area have been included with those for the area, as specified in footnotes 1, 2, and 3, to avoid disclosing, exactly or approximately, the data reported by individual establishments.

<sup>1</sup> Includes data for 2 establishments located outside the New York City Industrial Area.<sup>2</sup> Includes data for 3 establishments located outside the New York City Industrial Area.<sup>3</sup> Includes data for 1 establishment located outside the New York City Industrial Area.<sup>4</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

PHILADELPHIA INDUSTRIAL AREA

[This area comprises Burlington, Camden, and Gloucester Counties, N. J., and Bucks, Chester, Delaware, Montgomery, and Philadelphia (coextensive with Philadelphia City) Counties, Pa. For statistics by industries for the area as a whole, see report for Pennsylvania]

All industries, total.....	7, 184	62, 880	376, 009	592, 516	775, 790	\$160, 510, 736	\$510, 540, 601	\$1, 488, 231, 423	\$91, 827, 673	\$2, 981, 045, 661	\$1,481,486,565
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BERGEN COUNTY

All industries, total.....	406	3, 434	23, 775	73, 142	33, 091	\$9, 962, 249	\$32, 706, 520	\$126, 544, 965	\$4, 821, 035	\$209, 174, 243	\$77, 808, 243
Awnings, tents, sails and canvas covers.....	3	1	14	-----	5	( <sup>c</sup> )	15, 570	38, 500	220	77, 500	38, 780
Beverages.....	10	8	26	-----	88	18, 140	34, 237	77, 678	6, 326	227, 099	143, 095
Bread and other bakery products.....	65	18	227	2	371	39, 899	365, 394	884, 458	56, 170	1, 861, 366	920, 738
Chemicals, not elsewhere classified.....	8	77	631	4, 215	1, 404	310, 624	934, 183	0, 965, 103	255, 827	10, 016, 968	2, 766, 038
Clay products (other than pottery) and non-clay refractories.....	5	19	144	-----	1, 400	53, 700	226, 074	10, 102	82, 204	480, 621	379, 225
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	14	36	426	-----	87	77, 635	369, 414	351, 068	13, 376	997, 348	632, 504
Clothing, women's, not elsewhere classified.....	24	60	741	-----	106	194, 289	825, 857	1, 314, 273	16, 655	2, 991, 060	1, 630, 132
Concrete products.....	19	39	153	-----	764	100, 092	264, 662	392, 252	25, 915	972, 532	564, 365
Dyeing and finishing textiles.....	14	738	6, 304	15, 507	4, 431	2, 310, 825	8, 407, 416	0, 338, 130	1, 431, 967	28, 310, 723	17, 540, 626
Embroideries.....	13	16	119	-----	45	30, 617	150, 840	7, 408	7, 408	436, 688	338, 100
Foundry and machine-shop products, not elsewhere classified.....	7	50	582	300	1, 431	146, 698	842, 338	889, 277	73, 897	2, 743, 758	1, 780, 584
Ice cream.....	5	15	34	-----	115	40, 694	45, 356	151, 207	13, 267	335, 450	170, 976
Ice, manufactured.....	7	13	32	80	1, 354	54, 846	50, 158	13, 364	61, 688	280, 061	205, 009
Marble, granite, slate, and other stone products.....	4	3	18	-----	166	7, 600	30, 268	63, 710	2, 341	154, 775	88, 724
Nonferrous-metal alloys and products, not including aluminum products.....	3	20	61	-----	88	87, 892	130, 187	277, 228	12, 407	580, 244	290, 609
Paper.....	6	99	959	13, 344	2, 440	335, 075	1, 529, 835	3, 757, 639	638, 201	7, 937, 727	3, 441, 937
Paper goods, not elsewhere classified.....	6	29	288	480	312	195, 909	360, 364	1, 443, 684	23, 981	2, 759, 579	1, 232, 014
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	7	38	121	540	973	140, 420	162, 873	375, 635	22, 643	833, 144	434, 866
Printing and publishing, book and job.....	16	19	56	3	98	60, 401	95, 879	83, 830	4, 729	307, 131	278, 572
Printing and publishing, newspaper and periodical.....	20	214	109	-----	260	317, 681	240, 659	178, 527	14, 364	1, 404, 369	1, 211, 478
Silk and rayon manufactures.....	7	42	821	75	572	78, 800	1, 052, 960	1, 540, 314	48, 178	3, 623, 391	2, 040, 899
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	23	35	-----	201	47, 136	54, 049	201, 401	4, 181	673, 601	378, 019
Other industries.....	139	1, 843	11, 929	38, 596	16, 330	5, 248, 476	16, 513, 467	98, 066, 725	1, 956, 000	141, 182, 028	41, 220, 903

BURLINGTON COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industries—"Cast-iron pipe," as measured by number of wage earners, and "Iron and steel: Steel works and rolling mills," as measured by value of products—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report]

All industries, total.....	118	1, 017	9, 587	8, 110	18, 538	\$2, 625, 877	\$12, 135, 706	\$22, 819, 789	\$2, 080, 697	\$50, 297, 166	\$25, 396, 680
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CAMDEN COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industries—"Phonographs," as measured by number of wage earners, and "Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces," as measured by value of products—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report]

All industries, total.....	316	5, 033	33, 736	85, 448	40, 267	\$12, 410, 940	\$42, 208, 392	\$148, 060, 942	\$5, 300, 366	\$302, 180, 164	\$148, 818, 856
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>c</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>ESSEX COUNTY</b>											
All industries, total.....	2, 270	18, 150	92, 144	58, 183	164, 213	\$52, 909, 537	\$129, 354, 061	\$374, 305, 551	\$9, 432, 517	\$757, 312, 001	\$373, 574, 533
Awnings, tents, sails, and canvas covers.....	18	22	80	-----	100	55, 630	89, 553	279, 275	8, 958	505, 901	277, 068
Beverages.....	35	251	744	1, 677	1, 078	673, 077	1, 354, 010	1, 403, 132	116, 833	6, 341, 159	4, 761, 194
Bookbinding and blank-book making.....	12	12	178	-----	139	38, 604	239, 291	142, 801	5, 044	710, 543	562, 098
Boxes, paper, not elsewhere classified.....	21	91	658	5	726	342, 705	647, 139	993, 928	27, 760	2, 620, 412	1, 498, 794
Boxes, wooden, except cigar boxes.....	6	22	193	-----	519	94, 412	261, 277	596, 381	13, 274	1, 154, 630	544, 375
Bread and other bakery products.....	249	216	2, 855	622	4, 000	543, 001	4, 410, 935	10, 513, 569	408, 066	22, 683, 305	11, 703, 670
Brushes, other than rubber.....	18	104	602	399	650	608, 915	400, 231	1, 818, 774	67, 098	4, 068, 135	2, 182, 263
Buttons.....	18	93	972	650	875	233, 270	1, 122, 928	1, 093, 606	63, 650	2, 971, 116	1, 813, 860
Canning and preserving; Fruits and vegetables; pickles, jellies, preserves, and sauces.....	9	27	140	-----	51	87, 731	120, 737	951, 363	6, 002	1, 641, 713	684, 348
Chemicals, not elsewhere classified.....	31	682	2, 325	7, 944	5, 004	2, 125, 540	3, 494, 844	12, 213, 367	589, 950	21, 005, 417	9, 195, 100
Cleaning and polishing preparations.....	9	51	59	-----	85	160, 343	69, 259	488, 078	5, 258	1, 295, 025	801, 089
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	65	103	1, 919	-----	257	351, 699	2, 684, 191	1, 827, 007	51, 660	6, 879, 655	4, 700, 079
Clothing, women's, not elsewhere classified.....	59	122	1, 760	1	400	855, 209	1, 090, 070	2, 122, 400	39, 923	5, 545, 025	3, 395, 702
Compressed and liquefied gases.....	3	109	118	450	1, 626	286, 898	210, 973	255, 780	111, 423	1, 869, 002	1, 494, 796
Concrete products.....	30	57	277	73	835	179, 397	420, 134	751, 099	33, 253	2, 117, 672	1, 392, 720
Confectionery.....	14	59	667	355	387	151, 939	639, 052	1, 403, 074	44, 417	2, 772, 985	1, 326, 494
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	45	94	403	100	410	284, 355	720, 888	1, 100, 295	21, 743	2, 602, 138	1, 480, 100
Corsets and allied garments.....	9	261	1, 132	150	340	749, 707	1, 114, 836	3, 120, 024	28, 338	6, 232, 831	3, 084, 460
Druggists' preparations.....	11	143	277	-----	160	531, 283	324, 731	951, 108	19, 361	3, 869, 384	2, 898, 015
Dyeing and finishing textiles.....	8	33	740	1, 078	517	125, 107	962, 428	642, 600	99, 981	2, 095, 082	1, 352, 501
Electrical machinery, apparatus, and supplies.....	80	4, 057	22, 151	3, 390	29, 047	9, 460, 434	27, 427, 549	47, 067, 072	1, 369, 785	124, 205, 801	75, 769, 034
Electroplating.....	10	22	124	20	350	49, 812	222, 311	88, 890	15, 362	542, 619	438, 367
Engraving, steel and copperplate, and plate printing.....	8	36	338	55	129	203, 719	557, 981	48, 197	9, 911	1, 212, 098	1, 153, 990
Fancy and miscellaneous articles, not elsewhere classified.....	14	157	845	60	557	584, 337	1, 051, 050	979, 007	34, 127	4, 755, 768	3, 742, 634
Flavoring extracts and flavoring sirups.....	8	73	129	450	375	296, 742	233, 357	1, 281, 074	87, 929	2, 179, 698	810, 695
Food preparations, not elsewhere classified.....	3	41	91	-----	284	160, 336	78, 375	671, 822	6, 754	1, 163, 533	484, 957
Foundry and machine-shop products, not elsewhere classified.....	115	897	4, 440	2, 768	7, 996	2, 829, 822	8, 068, 821	8, 181, 848	498, 383	27, 097, 709	18, 417, 478
Fur goods.....	8	10	50	12	38	27, 321	101, 159	214, 009	3, 894	457, 303	238, 500
Furniture, including store and office fixtures.....	27	96	448	-----	774	330, 107	928, 667	1, 597, 535	35, 536	3, 612, 466	1, 979, 395
Furs, dressed.....	9	116	923	250	1, 568	461, 844	1, 469, 861	490, 799	81, 091	4, 378, 709	3, 806, 819
Gas and electric fixtures; lamps, lanterns, and reflectors.....	11	47	181	-----	185	138, 064	283, 233	390, 457	13, 378	1, 143, 869	740, 034
Grease and tallow, not including lubricating greases.....	4	9	40	50	233	42, 516	76, 029	434, 420	14, 174	619, 669	171, 075
Hand stamps and stencils and brands.....	10	45	135	-----	72	129, 272	205, 752	69, 240	4, 628	779, 484	705, 616
Hardware not elsewhere classified.....	14	90	365	270	428	273, 234	395, 690	1, 027, 493	26, 270	1, 993, 371	944, 602
Hats and caps, except felt and straw, men's.....	3	61	3	-----	4	9	4, 164	7, 700	204	20, 321	12, 411
House-furnishing goods, not elsewhere classified.....	20	129	504	1, 385	4, 822	192, 352	293, 888	1, 519, 778	35, 465	2, 835, 130	1, 270, 893
Ice cream.....	14	39	202	3, 130	7, 365	233, 106	916, 680	3, 483, 115	151, 820	7, 833, 013	4, 198, 078
Ice, manufactured.....	121	585	2, 331	298	1, 472	2, 060, 765	3, 703, 610	6, 750, 684	84, 450	17, 220, 166	10, 376, 052
Jewelry.....	14	85	750	-----	423	375, 637	1, 432, 804	2, 018, 940	35, 289	4, 722, 441	2, 668, 203
Knit goods.....	12	45	331	10	286	121, 812	429, 737	1, 304, 714	13, 706	2, 111, 012	792, 592
Leather goods, not elsewhere classified.....	38	284	2, 218	2, 160	6, 885	1, 317, 634	3, 424, 531	14, 618, 943	365, 573	23, 362, 962	8, 378, 446
Leather: Tanned, curried, and finished.....	32	112	810	-----	1, 002	388, 245	1, 555, 542	537, 776	45, 181	3, 630, 718	3, 053, 701
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	14	68	418	500	1, 036	262, 099	983, 046	687, 131	33, 145	2, 943, 140	2, 222, 894
Marble, granite, slate, and other stone products.....	8	188	730	925	1, 979	421, 740	1, 214, 656	17, 775, 171	103, 270	20, 529, 788	2, 651, 347
Meat packing, wholesale.....	4	6	43	-----	101	10, 588	63, 662	83, 732	5, 238	258, 707	160, 737
Mirrors, framed and unframed.....	13	18	99	-----	207	85, 618	174, 070	62, 592	7, 954	438, 085	367, 539
Models and patterns, not including paper patterns.....	18	50	300	25	422	170, 789	527, 425	673, 206	21, 445	1, 751, 272	1, 066, 621
Motor-vehicle bodies and motor-vehicle parts.....	39	148	741	1, 833	1, 263	549, 219	1, 145, 695	11, 540, 711	221, 540	15, 556, 488	3, 794, 237
Nonferrous metal alloys and products, not including aluminum products.....	9	36	165	7	162	106, 293	199, 037	218, 889	7, 171	615, 967	391, 907
Optical goods.....	31	782	1, 880	1, 057	10, 248	2, 273, 798	3, 099, 914	21, 326, 019	535, 545	35, 492, 970	13, 631, 406
Paints and varnishes.....	5	20	180	1, 485	1, 024	62, 102	294, 443	361, 418	132, 033	1, 084, 804	591, 353
Paper.....	9	107	580	845	370	410, 348	645, 074	2, 627, 674	31, 711	5, 578, 428	2, 919, 043
Paper goods, not elsewhere classified.....	21	287	497	724	1, 670	884, 809	622, 868	2, 554, 055	64, 127	8, 502, 269	5, 884, 077
Patent or proprietary medicines and compounds.....	14	268	631	361	318	849, 232	630, 784	3, 141, 879	31, 035	13, 211, 024	10, 038, 110
Perfumes, cosmetics, and other toilet preparations.....	30	209	694	625	4, 404	507, 260	1, 039, 410	2, 061, 497	69, 684	4, 623, 755	2, 492, 574
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	5	49	183	-----	393	121, 281	288, 747	450, 590	17, 826	1, 115, 037	646, 621
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	3	27	110	-----	325	98, 015	145, 732	24, 347	34, 209	524, 528	465, 970
Pottery, including porcelain ware.....	130	493	1, 621	315	1, 858	1, 559, 351	2, 820, 098	2, 973, 189	101, 968	11, 097, 918	8, 022, 761
Printing and publishing, book and job.....	33	970	934	1, 324	1, 091	2, 145, 031	2, 437, 132	2, 575, 981	117, 325	11, 019, 355	8, 326, 049
Printing and publishing, newspaper and periodical.....	10	66	299	275	1, 479	197, 375	375, 917	501, 948	36, 748	1, 784, 613	1, 195, 917
Rubber goods other than tires, inner tubes, boots and shoes.....	3	19	51	-----	310	56, 064	101, 976	869, 784	16, 143	1, 135, 959	250, 032
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	6	8	121	-----	39	20, 991	96, 223	124, 040	2, 325	326, 505	200, 140
Shirts.....	25	295	907	567	590	686, 108	1, 284, 822	1, 248, 983	35, 660	4, 576, 676	3, 289, 088
Signs and advertising novelties.....	14	71	528	513	164	207, 106	1, 055, 459	823, 329	26, 527	2, 391, 866	1, 542, 010
Silversmithing and silverware.....	14	71	528	513	164	207, 106	1, 055, 459	823, 329	26, 527	2, 391, 866	1, 542, 010

See footnotes at end of this section, p. 337.

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>ESSEX COUNTY—Continued</b>											
Stamped ware, enameled ware, and stamping, enameling, japanning, and lacquering.....	29	201	1,806	707	1,256	\$619,049	\$2,346,176	\$1,886,162	\$104,184	\$6,523,629	\$4,533,283
Stationary goods, not elsewhere classified.....	6	62	341	120	140	201,462	530,162	694,700	11,244	1,796,466	1,090,426
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	10	116	682	150	3,913	476,711	1,118,415	3,610,209	76,877	5,840,943	2,153,857
Tools, not including edge tools, machine tools, files, or saws.....	19	90	556	227	1,339	214,137	812,518	785,501	77,708	2,978,561	2,115,352
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	9	116	832	-----	547	317,291	929,066	1,521,554	30,544	4,415,972	2,863,874
Wall plaster, wall board, and floor composition.....	3	13	70	840	545	26,910	67,695	196,917	24,168	796,910	575,825
Window shades and fixtures.....	11	13	39	-----	13	24,280	56,648	193,283	2,021	370,576	175,272
Wire, drawn from purchased bars or rods.....	4	68	280	-----	1,523	213,376	563,469	1,015,621	72,281	2,836,801	1,748,899
Wirework, not elsewhere classified.....	20	142	788	500	1,256	446,711	1,230,162	2,461,973	62,469	5,821,018	3,296,576
Wood turned and shaped and other wooden goods, not elsewhere classified.....	7	18	42	18	160	27,991	54,345	57,215	4,801	180,297	118,281
Other industries <sup>c</sup> .....	428	3,526	20,987	15,656	39,812	11,088,023	27,981,905	153,594,875	2,298,858	244,529,914	88,636,181

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>c</sup> The figures for the "Jewelry" industry include data for 3 establishments located outside the county. These adjustments have been made to avoid disclosing approximations of the data for the establishments in question. Amounts equivalent to the sums of the figures for these establishments have been subtracted from the "Other industries" items, and therefore the totals for the county are not affected by these counterbalancing adjustments.  
<sup>d</sup> See footnote 6.

**GLOUCESTER COUNTY**

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Explosives"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	81	276	2,304	10,781	4,918	\$620,755	\$3,024,284	\$9,629,812	\$758,998	\$20,539,307	\$10,150,497
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**HUDSON COUNTY**

All industries, total.....	1,072	13,956	90,404	156,234	157,137	\$45,436,255	\$134,338,714	\$502,410,418	\$17,218,060	\$668,373,084	\$448,740,608
Awnings, tents, sails, and canvas covers.....	8	17	35	-----	11	37,152	42,177	101,898	1,198	217,376	114,779
Beverages.....	32	42	172	702	460	114,659	284,053	410,096	60,604	1,272,841	805,741
Boxes, paper, not elsewhere classified.....	19	114	929	600	964	355,658	953,960	1,820,732	53,451	4,105,486	2,231,303
Bread and other bakery products.....	216	96	1,317	263	1,321	210,600	2,364,261	5,989,781	331,369	12,609,016	6,187,896
Buttons.....	8	17	104	-----	407	61,367	284,734	185,281	18,449	641,801	438,071
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	8	18	71	50	110	29,365	78,154	972,130	7,367	1,518,217	538,730
Car and general construction and repairs, steam-railroad repair shops.....	12	380	4,213	3,015	5,929	967,318	7,269,570	2,385,703	230,019	10,862,173	8,246,451
Chemicals, not elsewhere classified.....	19	584	2,201	4,488	3,785	1,669,958	3,492,023	9,102,626	714,690	20,168,934	10,351,618
Cleaning and polishing preparations.....	5	10	13	-----	41	43,168	16,439	80,025	1,308	201,131	113,738
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	9	17	193	-----	62	90,767	219,673	480,571	6,495	1,051,010	563,953
Clothing, women's, not elsewhere classified.....	51	90	1,497	-----	381	238,599	1,428,016	1,265,280	29,882	4,698,295	3,303,183
Compressed and liquefied gases.....	5	43	89	40	831	65,501	144,103	95,171	70,952	1,299,554	1,130,431
Concrete products.....	11	26	99	120	428	55,720	154,626	202,192	14,761	685,475	418,522
Confectionery.....	11	19	180	75	133	55,342	177,085	470,953	16,641	857,727	370,133
Cooperage.....	6	49	558	756	650	166,602	841,106	1,029,331	46,690	3,030,684	1,354,993
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	12	63	157	95	276	195,492	294,904	769,093	14,049	1,565,529	782,387
Cork products.....	3	10	83	1,075	93	19,198	52,363	95,361	7,814	192,844	86,669
Cotton small wares.....	5	6	179	207	153	27,292	201,007	377,513	8,827	787,567	371,227
Dyeing and finishing textiles.....	33	189	1,888	1,197	8,159	679,497	1,741,557	3,702,454	291,751	8,671,416	4,577,211
Electrical machinery, apparatus, and supplies.....	35	7,304	14,814	18,360	11,549	12,101,272	20,461,729	62,727,235	686,207	123,814,180	60,501,738
Electroplating.....	3	-----	12	-----	97	-----	6,040	2,321	-----	33,627	25,266
Embroideries.....	270	136	1,614	-----	941	351,707	1,945,317	2,391,433	108,714	7,895,075	5,394,928
Engraving, steel and copperplate, and plate printing.....	3	-----	21	-----	6	-----	35,188	9,226	531	71,420	61,663
Fancy and miscellaneous articles, not elsewhere classified.....	6	37	284	-----	371	110,745	237,101	560,556	12,173	1,340,658	787,929
Food preparations, not elsewhere classified.....	7	70	427	-----	980	223,441	587,881	4,169,102	32,680	6,035,816	4,834,034
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	4	19	102	110	426	70,435	154,363	216,362	35,527	666,459	354,580
Foundry and machine-shop products, not elsewhere classified.....	71	1,674	6,717	14,986	8,662	4,372,994	10,968,923	17,232,967	835,796	43,540,511	25,471,748
Furniture, including store and office fixtures.....	20	103	1,174	128	3,102	560,946	1,823,674	2,389,910	81,533	6,061,234	3,589,786
Furs, dressed.....	7	33	170	-----	180	109,614	367,666	71,546	11,246	671,619	588,727
Grease and tallow, not including lubricating greases.....	7	36	168	140	778	135,540	262,641	4,031,577	63,198	5,196,114	1,101,339

See footnotes at end of this section, p. 338.



CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (GRATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>HUDSON COUNTY—Continued</b>											
Hardware not elsewhere classified.....	4	84	228		437	\$324,998	\$296,793	\$543,124	\$88,357	\$1,781,707	\$1,200,286
Hats and caps, except felt and straw, men's.....	7	8	171		37	10,660	218,889	376,114	3,871	704,802	414,817
Ice cream.....	43	8	78	50	594	23,820	117,809	420,030	32,868	1,102,956	643,158
Ice, manufactured.....	9	33	155	1,725	4,402	100,833	265,534	67,450	162,024	1,036,682	807,208
Jewelry and instrument cases.....	4	20	131		59	109,983	188,759	258,453	6,005	659,850	394,792
Knit goods.....	24	42	771		499	167,158	852,289	4,322,469	44,426	6,407,454	2,040,569
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	4	1	17		35	( <sup>c</sup> )	28,666	5,097	1,562	57,425	50,706
Marble, granite, slate, and other stone products.....	12	33	194	200	1,348	175,310	503,020	411,435	25,261	1,361,019	925,223
Meat packing, wholesale.....	10	327	1,858	4,800	1,504	769,756	3,007,986	51,578,886	329,507	61,420,694	0,512,802
Millinery.....	3	9	55	3	15	19,850	54,984	121,517	2,876	314,523	100,130
Mirrors, framed and unframed.....	8	25	138		156	90,878	204,203	566,785	7,012	986,014	413,117
Models and patterns, not including paper patterns.....	9	6	26		64	9,192	42,879	11,875	2,006	129,352	115,471
Motor-vehicle bodies and motor-vehicle parts.....	8	17	116	14	256	42,105	228,047	295,696	12,420	730,096	420,980
Nonferrous-metal alloys and products, not including aluminum products.....	16	53	305	35	1,200	145,852	583,059	1,483,978	79,477	2,930,100	1,366,707
Paints and varnishes.....	20	200	600	305	3,681	633,050	953,553	6,394,663	115,563	11,049,340	5,138,814
Paper.....	4	25	231	1,910	2,688	97,926	383,551	1,017,170	194,504	2,350,287	1,138,613
Paper goods, not elsewhere classified.....	4	9	76		159	25,090	90,901	127,442	4,707	377,591	245,442
Patent or proprietary medicines and compounds.....	26	137	338		876	418,583	377,357	1,853,484	36,817	7,116,513	5,220,212
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	23	70	286	1,860	2,152	232,396	478,654	806,823	30,515	1,930,752	1,093,414
Pocketbooks, purses, and cardcases.....	5	43	351		37	170,034	532,491	817,785	4,299	2,039,089	1,217,005
Poultry killing, dressing, and packing, wholesale.....	0		18								
Printing and publishing, book and job.....	79	166	1,171	203	1,390	573,493	2,152,750	1,356,811	61,123	5,792,096	4,374,162
Printing and publishing, newspaper and periodical.....	20	374	380		1,320	1,017,037	1,035,146	678,357	56,194	4,282,048	3,547,497
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	8	26	72		345	94,692	131,044	1,414,446	13,968	1,910,408	481,094
Ship and boat building, steel and wooden, including repair work.....	10	402	3,813	520	24,108	1,170,942	6,653,078	3,965,726	231,776	14,353,309	10,155,867
Shirts.....	4	3	141		40	4,737	90,145	53,740	2,551	160,120	103,829
Signs and advertising novelties.....	4	20	117		75	65,136	122,482	274,100	4,019	502,522	284,409
Silk and rayon manufactures.....	31	225	2,510	994	1,930	639,069	3,369,085	7,528,662	109,065	13,112,854	5,410,527
Statuary and art goods, factory product.....	3		20				27,587	40,237	1,235	81,826	40,354
Stoves and ranges (other than electric) and warm-air furnaces.....	5	109	383	900	589	354,833	578,209	985,826	31,537	2,863,456	1,846,093
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	28	86	270		1,065	277,091	580,801	1,693,010	27,087	3,201,554	1,481,457
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	6	25	84		687	149,178	143,373	1,441,933	20,596	2,480,469	1,017,940
Textile machinery and parts.....	4	5	18		28	14,050	24,101	19,957	1,061	89,296	67,648
Wood turned and shaped and other wooden goods, not elsewhere classified.....	5	9	32	125	121	25,320	39,475	54,848	2,001	168,616	111,767
Other industries.....	310	5,022	36,157	95,514	58,693	14,208,792	53,082,630	286,993,427	11,769,758	541,259,519	242,406,334

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>c</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

MERCER COUNTY

All industries, total.....	346	3,370	23,721	49,111	85,412	\$9,051,114	\$31,199,708	\$56,086,078	\$4,655,939	\$140,191,342	\$79,449,325
Beverages.....	12	13	55	40	95	21,384	81,547	100,188	7,677	357,152	243,287
Bread and other bakery products.....	49	37	385		511	84,008	654,752	1,327,914	82,359	2,875,385	1,466,112
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	3	2	22	95	7	( <sup>c</sup> )	7,896	25,696	1,035	44,183	17,452
Cigars and cigarettes.....	5	78	1,480		128	101,536	1,125,873	2,272,507	12,650	5,309,687	3,021,630
Clay products (other than pottery) and nonclay refractories.....	8	42	511	225	565	157,901	502,119	365,895	93,606	1,420,119	980,748
Concrete products.....	8	4	36		148	4,709	43,388	76,595	2,734	172,650	93,327
Electrical machinery, apparatus, and supplies.....	9	142	845		1,555	315,109	760,127	3,712,636	71,422	9,759,826	5,975,768
Fertilizers.....	4	21	30	130	1	47,632	31,249	369,809	2,650	491,481	119,022
Flour and other grain-mill products.....	4	8	8	162	113	3,640	149,589	1,810	2,204	216,810	104,927
Foundry and machine-shop products, not elsewhere classified.....	20	116	610	668	1,265	384,912	872,765	581,560	74,298	2,400,197	1,744,339
Ice, manufactured.....	6	14	43	975	7,288	26,516	74,065	14,712	81,825	432,175	335,638
Marble, granite, slate, and other stone products.....	3	11	32		305	25,940	54,272	84,280	3,644	155,179	107,246
Minerals and earths, ground or otherwise treated.....	4	20	50		1,524	89,415	71,214	374,445	50,223	730,029	305,361
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	3	3	37		302	5,545	69,152	162,452	4,527	266,121	99,142
Pottery, including porcelain ware.....	35	591	4,789	1,762	4,254	1,801,943	6,095,298	1,634,494	846,842	14,987,113	12,455,777
Printing and publishing, book and job.....	23	38	190		227	116,640	339,981	281,074	15,116	990,248	694,053
Rubber goods other than tires, inner tubes, and boots and shoes.....	15	362	2,747	3,390	15,663	1,040,159	3,453,347	7,989,304	630,094	17,168,898	8,638,500
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5	12	44		259	61,190	65,165	760,247	10,095	1,004,308	233,066
Other industries.....	131	1,871	11,801	41,655	51,222	4,762,885	16,915,694	35,746,702	2,753,948	81,374,775	42,874,125

<sup>c</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."



TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>MIDDLESEX COUNTY</b>											
All Industries, total.....	379	5,521	36,109	97,946	70,970	\$14,078,820	\$48,190,152	\$408,700,885	\$7,385,413	\$563,028,590	\$140,870,292
Awnings, tents, sails, and canvas covers.....	4		12		5		13,419	33,020	563	67,034	33,451
Beverages.....	17	17	20		80	34,355	34,461	97,852	5,836	263,770	160,082
Bread and other bakery products.....	48	16	205		234	23,310	340,074	729,401	47,371	1,523,331	746,059
Car and general construction and repairs, steam-railroad repair shops.....	5	16	178	510	416	46,664	300,770	127,430	16,173	491,046	347,443
Chemicals, not elsewhere classified.....	10	514	2,186	8,211	8,441	1,279,502	3,886,769	10,240,346	861,174	34,787,200	14,670,680
Cigars and cigarettes.....	14	185	3,382	75	725	2,407,312	2,407,312	7,145,977	63,532	14,645,823	7,436,314
Clay products (other than pottery) and nonclay refractories.....	26	488	4,120	5,447	7,553	1,220,553	5,485,299	2,343,100	1,567,986	15,675,344	11,764,258
Clothing, women's, not elsewhere classified.....	20	39	1,095		158	106,779	315,067	933,478	23,531	2,385,635	1,428,628
Concrete products.....	12	25	123		242	76,585	189,633	191,759	12,032	657,727	453,936
Fertilizers.....	4	80	425	1,200	2,144	227,804	557,699	3,185,710	69,377	4,787,593	1,532,506
Paints and varnishes.....	6	531	1,354	1,418	1,154	1,306,060	1,933,439	13,846,515	367,989	22,314,592	8,100,088
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	4	22	90	100	629	76,524	181,674	249,741	8,632	571,206	312,533
Pottery, including porcelain ware.....	6	32	632	280	1,420	260,682	993,092	212,888	130,835	2,483,540	2,089,817
Printing and publishing, book and job.....	17	66	704		2,616	223,499	1,246,678	728,482	37,587	3,057,370	2,291,307
Printing and publishing, newspaper and periodical.....	18	129	95		267	294,012	233,542	142,195	16,217	1,142,321	983,000
Shirts.....	8	20	805		104	72,416	700,800	2,878,464	15,775	5,247,174	2,352,945
Smelting and refining, copper.....	3	564	3,730	58,565	2,425	1,392,364	6,445,004	274,916,965	2,066,908	302,546,434	25,672,661
Other industries.....	151	2,727	10,941	22,140	42,357	7,039,188	22,684,511	81,757,574	2,033,395	160,381,444	66,590,475
<b>PASSAIC COUNTY</b>											
All Industries, total.....	1,237	7,732	57,798	56,921	90,357	\$23,374,790	\$77,216,920	\$171,008,445	\$7,378,793	\$360,930,423	\$182,483,185
Awnings, tents, sails, and canvas covers.....	5	1	12		5	( <sup>9</sup> )	12,046	37,007	349	82,205	44,840
Beverages.....	27	24	89	690	389	61,214	160,677	267,258	30,124	335,094	548,612
Bookbinding and blank-book making.....	3	5	25		14	10,200	34,610	9,842	1,185	86,730	75,703
Boxes, paper, not elsewhere classified.....	11	42	321		110	165,994	287,468	428,687	7,482	1,075,678	639,509
Bread and other bakery products.....	101	49	612		1,189	119,645	1,076,257	2,230,093	116,889	4,318,910	2,462,058
Card cutting and designing.....	5	9	49		31	32,341	94,793	108,327	1,205	393,192	193,670
Chemicals, not elsewhere classified.....	5	120	188	61	786	284,933	257,551	950,741	61,711	2,701,235	1,659,783
Cigars and cigarettes.....	10	19	495		15	78,538	452,665	708,611	2,051	1,005,525	893,963
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	10	49	605		47	145,078	631,220	150,958	7,127	1,093,630	936,645
Clothing, women's, not elsewhere classified.....	14	27	805		134	65,352	618,176	1,246,616	9,787	2,218,090	961,684
Concrete products.....	5	31	20		66		39,741	55,646	1,436	132,513	75,431
Dyeing and finishing textiles.....	95	1,673	12,775	14,428	19,919	5,598,335	16,723,723	23,952,610	3,396,950	65,794,582	38,446,022
Electrical machinery, apparatus, and supplies.....	5	502	2,136	1,550	4,627	1,261,918	3,105,626	15,704,312	177,884	23,209,249	7,327,053
Embroideries.....	7	7	125		11	14,680	139,303	3,436	619	262,931	258,876
Engraving, steel and copperplate, and plate printing.....	7	28	227		79	200,740	292,740	3,243	12,254	775,148	759,651
Foundry and machine-shop products, not elsewhere classified.....	35	261	1,220	887	2,229	915,542	2,100,302	3,084,248	152,379	8,827,323	5,590,701
Furniture, including store and office fixtures.....	9	13	77		146	40,101	115,699	280,118	3,849	678,059	294,089
Handkerchiefs.....	20	101	1,524	900	312	211,905	1,192,258	3,244,273	30,604	6,099,492	2,821,585
Ice cream.....	11	35	119		1,161	114,845	212,920	574,463	33,999	1,413,491	805,039
Ice, manufactured.....	6	12	62	240	2,034	46,142	89,542	27,495	79,219	429,002	322,288
Knit goods.....	14	116	1,202		562	402,315	2,001,877	3,222,600	41,204	7,428,129	4,164,319
Motor-vehicle bodies and motor-vehicle parts.....	4	23	115		199	62,892	203,153	238,172	6,315	658,509	414,022
Nonferrous-metal alloys and products, not including aluminum products.....	4	8	38		31	31,650	56,743	164,777	7,090	315,033	143,166
Patent or proprietary medicines and compounds.....	5	37	48		180	98,793	74,396	333,329	9,068	943,201	550,304
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	8	19	100	565	171	115,266	165,982	286,380	8,752	749,902	454,770
Printing and publishing, book and job.....	35	34	111		230	108,161	176,393	235,109	11,039	805,915	559,167
Printing and publishing, newspaper and periodical.....	12	246	301		774	500,793	674,750	551,264	36,003	2,448,381	1,861,114
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5	4	37		110	16,080	74,562	552,514	11,964	717,456	152,978
Silk and rayon manufactures.....	558	1,117	14,928	2,635	14,200	3,742,114	19,822,371	49,504,880	777,130	92,811,319	42,523,309
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	7	45	175		1,081	146,246	219,513	610,122	15,626	1,550,009	624,861
Textile machinery and parts.....	33	186	1,022	610	1,417	637,004	1,531,324	2,061,631	68,793	5,360,718	3,230,379
Wood turned and shaped and other wooden goods, not elsewhere classified.....	8	12	53		225	42,230	63,168	108,043	4,451	264,034	151,540
Other industries.....	153	2,908	18,162	34,335	37,767	8,112,677	24,514,483	59,742,271	2,292,750	124,537,266	62,537,245

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits.  
GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>10</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR INDUSTRIAL AREAS AND FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

## UNION COUNTY

[Because of the amount of manufacturing industry in this county, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industries—"Sewing machines and attachments," as measured by number of wage earners, and "Petroleum refining," as measured by value of products—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	409	4,753	28,531	73,332	78,450	\$12,012,369	\$43,833,928	\$102,141,642	\$4,820,044	\$290,212,642	\$123,241,956
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929

[This table presents, for each important industrial city in the State, with certain exceptions, the reasons for which are given in explanatory notes, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

## BAYONNE

[Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the most important industry—namely, "Petroleum refining"—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	125	1,854	11,109	35,616	14,160	\$4,708,003	\$18,160,645	\$151,550,169	\$1,200,071	\$232,712,028	\$79,962,088
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## CAMDEN

[Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the leading industries—"Phonographs," as measured by number of wage earners, and "Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces," as measured by value of products—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	230	4,430	28,879	55,451	28,440	\$10,908,306	\$35,517,410	\$108,041,072	\$3,700,084	\$230,978,935	\$119,176,279
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## ELIZABETH

[Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the leading industries—"Sewing machines and attachments," as measured by number of wage earners, and "Nonferrous-metal alloys and products, not including aluminum products," as measured by value of products—without disclosing the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	201	2,265	15,714	30,077	38,851	\$5,520,783	\$22,923,230	\$63,621,909	\$2,503,837	\$122,751,957	\$56,626,211
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>JERSEY CITY</b>											
All industries, total.....	617	4,490	25,822	30,967	47,268	\$12,661,826	\$37,084,440	\$160,654,092	\$3,387,708	\$311,986,850	\$147,944,150
Beverages.....	13	13	47	35	150	30,120	78,533	122,023	10,932	360,035	233,080
Boxes, paper, not elsewhere classified.....	10	50	397	75	355	150,301	351,955	372,876	17,606	1,085,324	694,782
Bread and other bakery products.....	105	50	606	3	696	123,013	1,235,066	3,165,526	180,621	6,741,240	3,386,099
Car and general construction and repairs, steam-railroad repair shops.....	6	203	2,507	3,125	3,618	511,287	4,169,181	1,263,270	135,017	6,088,327	4,690,031
Chemicals, not elsewhere classified.....	7	76	476	900	1,894	256,548	712,519	3,050,230	290,959	5,449,062	2,107,903
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	4	10	88	22	22	55,339	113,151	145,433	3,798	400,490	243,268
Confectionery.....	4	2	22	30	30	(1)	20,371	77,010	3,160	143,591	63,421
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	9	33	57	95	76	87,781	110,539	419,940	6,108	716,451	290,343
Electrical machinery, apparatus, and supplies.....	11	267	1,417	2,053	2,053	620,649	1,583,545	3,292,084	70,397	10,829,354	7,405,873
Embroideries.....	13	3	54	30	30	3,625	54,333	80,930	4,771	222,704	137,003
Engraving, steel and copperplate, and plate printing.....	3	21	21	6	6	35,188	35,188	9,226	531	71,420	61,693
Foundry and machine-shop products, not elsewhere classified.....	22	326	1,413	2,093	2,316	894,379	2,476,265	7,176,045	192,976	12,051,177	4,082,156
Furniture, including store and office furniture.....	9	90	470	125	691	266,898	713,039	1,172,060	28,330	2,555,619	1,354,549
Ice cream.....	29	6	58	50	433	18,320	92,365	317,063	25,455	826,038	483,515
Ice, manufactured.....	3	12	89	1,410	1,173	48,218	143,922	18,924	48,922	631,817	404,171
Knit goods.....	9	10	139	73	29,320	151,305	254,528	5,876	4,001,653	344,249	
Marble, granite, slate, and other stone products.....	4	12	34	295	40,360	103,242	77,131	4,362	246,735	105,242	
Models and patterns, not including paper patterns.....	4	3	15	6,352	10,092	6,857	1,127	63,468	56,474		
Nonferrous-metal alloys and products, not including aluminum products.....	6	20	137	35	521	58,118	271,159	1,055,468	35,733	1,737,667	640,400
Paints and varnishes.....	10	108	258	275	1,795	319,021	409,871	2,429,915	40,480	4,444,869	1,074,474
Patent or proprietary medicines and compounds.....	20	117	272	813	813	340,712	306,508	1,388,731	33,117	6,088,664	4,666,816
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	7	11	48	170	224	41,800	77,992	169,996	4,786	350,213	175,431
Ship and boat building, steel and wooden, including repair work.....	4	44	578	1,323	1,323	104,280	943,702	433,314	24,990	1,984,747	1,526,448
Stoves and ranges (other than electric) and warm-air furnaces.....	5	109	393	900	589	354,833	578,209	985,826	31,537	2,863,456	1,840,093
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	15	57	184	660	660	171,113	395,297	1,269,354	15,826	2,288,451	1,003,271
Other industries.....	285	2,858	15,093	27,070	27,434	8,122,830	22,832,143	131,898,588	2,161,321	243,236,243	109,175,334

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>1</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

NEWARK

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 2 and 3), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	1,731	12,851	60,647	39,041	113,744	\$38,189,916	\$94,544,473	\$237,722,455	\$6,700,690	\$502,507,589	\$268,084,474
Awnings, tents, sails, and canvas covers.....	13	15	61	96	96	42,110	66,072	234,078	8,096	456,078	213,934
Beverages.....	31	248	794	1,677	1,048	669,097	1,337,087	1,436,261	114,232	6,262,848	4,712,065
Bookbinding and blank-book making.....	12	12	178	5	139	38,504	289,291	142,801	5,644	710,543	562,098
Boxes, paper, not elsewhere classified.....	18	85	623	5	672	323,231	617,599	960,571	25,255	2,424,073	1,438,247
Boxes, wooden, except cigar boxes <sup>1</sup> .....	6	22	103	519	94,412	261,277	596,381	13,274	1,184,590	544,875	
Bread and other bakery products.....	144	139	1,710	8	2,447	399,057	2,705,739	6,312,534	276,005	14,485,343	7,896,809
Brushes, other than rubber.....	9	62	418	160	349	245,670	407,099	1,195,720	52,609	2,664,241	1,416,012
Buttons.....	18	93	672	650	875	233,276	1,122,928	1,093,606	69,650	2,971,115	1,813,859
Chemicals, not elsewhere classified.....	19	693	2,008	7,044	3,189	1,845,019	3,013,740	10,332,101	444,340	18,488,500	7,712,113
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified <sup>1</sup> .....	65	103	1,919	257	257	351,696	2,684,191	1,827,007	51,669	6,579,655	4,700,979
Clothing, women's, not elsewhere classified.....	48	105	1,439	1	340	318,267	1,393,388	1,076,660	28,368	3,595,633	2,493,575
Compressed and liquefied gases.....	3	109	118	450	1,028	285,898	210,973	255,730	111,426	1,362,002	1,494,798
Concrete products.....	8	29	109	73	298	86,025	162,491	314,962	18,111	926,461	598,388
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	30	61	254	160	355	194,141	480,531	807,886	16,888	1,851,391	1,026,620
Corsets and allied garments.....	9	261	1,132	160	340	749,767	1,114,836	3,120,024	28,338	6,232,831	3,084,469
Electrical machinery, apparatus, and supplies.....	52	2,023	12,920	1,140	9,502	4,868,494	15,441,027	23,037,511	566,262	67,123,441	43,523,683
Electroplating <sup>1</sup> .....	10	22	124	20	350	49,312	222,311	88,890	15,362	542,619	438,367
Fancy and miscellaneous articles, not elsewhere classified <sup>1</sup> .....	14	157	845	60	557	584,387	1,051,050	979,007	34,127	4,755,768	3,742,634
Flavoring extracts and flavoring sirups <sup>1</sup> .....	8	73	129	450	375	206,742	233,367	1,281,074	87,929	2,179,698	810,695
Food preparations, not elsewhere classified <sup>1</sup> .....	8	41	91	284	150	206,336	78,376	671,822	6,754	1,163,633	484,957
Foundry and machine-shop products, not elsewhere classified.....	81	588	3,134	1,958	5,202	1,811,231	5,949,461	6,529,502	322,071	19,404,673	12,553,100
Fur goods.....	8	10	50	12	35	27,321	101,169	214,900	3,894	457,303	238,500
Furniture, including store and office fixtures.....	24	83	392	702	702	233,232	843,382	1,466,096	31,662	3,279,461	1,731,703
Furs, dressed.....	9	116	923	250	1,558	461,844	1,469,861	490,799	81,061	4,378,709	3,806,819
Gas and electric fixtures, lamps, lanterns, and reflectors <sup>1</sup> .....	11	47	181	185	185	138,064	283,233	390,467	13,373	1,143,869	740,034

See footnotes at end of this section, p. 342.

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>NEWARK—Continued</b>											
Hardware not elsewhere classified <sup>1</sup>	14	96	365	270	428	\$273,234	\$395,600	\$1,027,493	\$26,276	\$1,998,371	\$344,602
Ice cream	14	33	175	85	1,765	55,144	352,145	1,700,908	58,856	3,567,170	1,807,411
Ice, manufactured	9	23	144	2,380	4,707	54,942	205,251	43,270	178,596	770,050	559,184
Jewelry	114	558	2,137	298	1,241	1,975,079	3,880,940	6,188,344	78,173	15,818,278	9,561,761
Knit goods	12	61	328	184	235	121,193	515,407	830,642	13,204	2,045,750	1,201,814
Leather goods, not elsewhere classified	12	45	331	10	285	121,812	429,737	1,804,714	13,706	2,111,012	792,692
Leather, tanned, curried, and finished	35	202	2,038	2,100	6,380	1,224,815	3,203,362	13,688,151	335,749	21,830,916	7,827,016
Marble, granite, slate, and other stone products	11	50	372	500	1,610	215,255	873,081	588,555	27,268	2,624,574	2,008,721
Meat packing, wholesale	8	188	730	925	1,979	421,740	1,214,650	17,775,171	103,270	20,520,788	2,051,347
Mirrors, framed and unframed	4	6	43	101	101	10,583	63,062	83,732	5,238	258,707	160,737
Nonferrous-metal alloys and products, not including aluminum products	29	100	480	38	854	420,698	740,823	7,289,878	139,048	10,363,505	2,934,570
Optical goods <sup>2</sup>	9	36	105	7	162	106,296	199,037	216,889	7,171	615,067	391,007
Paints and varnishes	25	703	1,739	417	9,997	1,954,931	2,859,637	20,074,138	505,501	33,238,395	12,658,756
Planing-mill products (including general millwork), not made in planing mills connected with sawmills	24	163	555	600	3,873	361,129	793,944	1,459,560	55,487	3,331,553	1,816,506
Printing and publishing, book and job	100	424	1,222	315	1,247	1,281,895	2,226,271	2,146,333	76,802	8,920,350	6,708,215
Printing and publishing, newspaper and periodical	22	874	333	1,324	385	1,006,438	2,180,050	2,448,773	102,272	10,077,447	7,520,402
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	3	10	51	310	310	56,064	101,976	869,784	16,143	1,135,050	250,032
Silver smithing and silverware <sup>3</sup>	14	71	528	513	164	207,106	1,055,459	823,329	26,527	2,391,866	1,542,010
Stam ped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	25	178	1,638	707	970	536,640	2,126,859	1,758,811	91,706	5,941,704	4,091,007
Stationery goods, not elsewhere classified <sup>4</sup>	6	62	341	120	140	201,462	530,162	694,796	11,244	1,706,466	1,080,426
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	14	88	598	150	3,740	322,976	918,031	3,222,843	69,846	4,899,737	1,607,048
Tools, not including edge tools, machine tools, files, or saws	15	71	507	227	989	178,952	732,726	605,664	66,019	2,301,245	1,629,562
Toys (not including children's wheel goods or sleds), games, and playground equipment	4	36	410	118	118	153,191	414,151	881,178	8,285	1,782,090	892,627
Wall plaster, wall board, insulating boards, and floor composition	3	13	70	840	545	26,010	67,695	106,917	24,168	790,910	575,325
Window shades and fixtures	6	5	14	10	10	9,780	25,930	90,772	1,181	160,872	77,069
Wire, drawn from purchased bars or rods	4	68	280	1,523	1,523	213,376	663,469	1,015,621	72,281	2,836,801	1,748,899
Wirework, not elsewhere classified	13	72	338	100	499	173,072	547,152	1,437,550	26,136	3,287,986	1,324,300
Other industries	538	3,452	19,710	11,897	37,958	10,958,860	26,474,923	84,642,104	2,165,578	102,539,082	75,732,000

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside Newark have been included with those for the city, as specified in footnotes 2 and 3, to avoid disclosing data reported by individual establishments.

<sup>1</sup> Includes data for 1 establishment located outside Newark.

<sup>2</sup> Includes data for 2 establishments located outside Newark.

**PATERSON**

All industries, total	915	3,699	32,686	20,647	47,136	\$12,118,081	\$44,030,942	\$93,393,746	\$4,607,066	\$197,650,980	\$90,050,168
Beverages	16	15	65	690	321	38,246	128,424	186,409	24,436	645,801	435,016
Boxes, paper, not elsewhere classified	6	19	133	63	63	53,976	94,031	135,973	2,706	327,853	180,474
Bread and other bakery products	61	35	453	931	931	90,768	803,403	1,641,413	86,276	3,623,797	1,890,103
Card cutting and designing	5	9	49	31	31	32,341	94,793	108,327	1,295	303,192	193,570
Cigars and cigarettes	4	1	16	2	2	(*)	20,760	31,012	387	87,000	54,701
Dyeing and finishing textiles	74	1,023	8,884	6,984	18,464	3,886,486	11,887,394	16,992,175	2,507,967	45,737,989	26,177,564
Engraving, steel and copperplate, and plate printing	3	9	104	30	30	95,212	149,267	2,270	2,326	375,591	370,495
Foundry and machine-shop products, not elsewhere classified	21	127	582	522	1,406	438,173	988,075	770,572	69,570	3,023,174	2,183,032
Ice cream	7	22	92	891	891	80,568	163,847	436,769	20,375	1,111,150	643,006
Ice, manufactured	3	6	33	1,262	1,262	26,982	48,320	4,020	46,397	210,000	101,213
Knit goods	9	75	311	288	288	287,712	1,323,453	1,929,016	18,241	4,398,128	2,450,871
Nonferrous metal alloys and products, not including aluminum products	4	8	38	31	31	31,650	56,743	164,777	7,090	315,033	143,166
Planing-mill products (including general millwork), not made in planing mills connected with sawmills <sup>1</sup>	8	19	100	565	171	115,256	165,862	280,380	8,762	749,602	454,770
Printing and publishing, book and job	22	22	82	159	159	75,066	126,826	156,656	8,273	582,278	387,849
Printing and publishing, newspaper and periodical	4	140	225	592	592	309,606	482,307	342,922	23,184	1,562,846	1,196,789
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments <sup>2</sup>	5	4	37	110	110	16,080	74,562	552,514	11,964	717,456	152,978
Silk and rayon manufactures	526	684	12,940	1,415	12,811	3,323,712	17,115,230	43,058,294	691,543	80,970,556	36,626,719
Textile machinery and parts	28	165	923	565	1,284	559,441	1,391,875	1,851,204	61,459	4,817,213	2,904,650
Other industries <sup>3</sup>	109	1,016	7,119	9,906	13,289	3,150,866	9,416,131	24,112,438	949,362	48,085,362	23,623,662

<sup>1</sup> Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

<sup>2</sup> The items for each of the 2 industries covered by this footnote include data for 1 establishment located outside the city, to avoid disclosing the figures reported by the establishments in question. Amounts equivalent to the sums of the figures for these establishments have been subtracted from the "Other Industries" items, and therefore the totals for the city are not affected by these counterbalancing adjustments.

<sup>3</sup> See footnote 5.

TABLE 14.—GENERAL STATISTICS FOR IMPORTANT CITIES, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of Products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

TRENTON

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 7 and 8), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	261	2,531	13,953	42,219	69,409	\$6,703,150	\$24,626,124	\$41,327,386	\$3,848,513	\$107,842,837	\$62,666,938
Beverages <sup>7</sup> .....	12	13	55	40	95	21,384	81,547	106,188	7,677	367,152	243,287
Bread and other bakery products.....	41	32	346	-----	460	75,408	590,937	1,200,518	77,171	2,635,272	1,348,583
Cigars and cigarettes.....	5	78	1,480	-----	128	101,636	1,125,873	2,272,507	12,650	5,306,687	3,021,530
Clay products (other than pottery) and nonclay refractories.....	8	42	511	-----	225	157,901	502,119	365,865	93,506	1,420,119	960,748
Foundry and machine-shop products, not elsewhere classified <sup>8</sup> .....	20	116	610	-----	668	1,265	384,012	872,765	681,500	2,400,197	1,744,339
Planing-mill products (including general millwork), not made in planing mills connected with sawmills <sup>7</sup> .....	4	3	37	-----	302	5,545	69,152	102,452	4,527	266,121	99,142
Pottery, including porcelain ware.....	26	464	3,975	-----	902	3,772	1,456,210	4,953,631	1,223,715	719,511	12,399,695
Printing and publishing, book and job <sup>8</sup> .....	23	38	100	-----	227	116,640	339,081	281,074	15,116	990,248	694,058
Rubber goods other than tires, inner tubes, and boots and shoes.....	6	93	936	-----	650	8,140	276,495	1,199,642	1,491,336	209,942	4,455,656
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5	12	44	-----	259	61,190	65,165	760,247	10,095	1,004,308	233,066
Other industries.....	117	1,645	10,789	-----	39,665	54,253	4,053,220	14,345,440	32,801,462	2,625,793	77,093,130
											41,575,884

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

The figures for a few establishments located outside Trenton have been included with those for the city, as specified in footnotes 7 and 8, to avoid disclosing data reported by individual establishments.

<sup>7</sup> Includes data for 1 establishment located outside Trenton.

<sup>8</sup> Includes data for 2 establishments located outside Trenton.

# NEW MEXICO

TABLE 1.—SUMMARY FOR THE STATE: 1899 TO 1929

[Data for the "Automobile repairing" industry are included in the figures for 1919 and 1924, the only years for which this industry was canvassed in connection with the census of manufactures. The figures for 1919 and prior years cover all establishments with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>2</sup>	Materials and containers	Fuel and purchased energy		
1929	260	4,470	23,147	10,097	7,050	\$5,504,991	\$10,419,449	\$9,730,401	\$983,048	\$21,697,148	\$11,277,699
1927	200	4,053	21,407	17,061	4,406	5,421,441	10,055,852	9,412,924	642,928	20,182,072	10,126,820
1925	200	4,020	18,842	15,957	2,885	5,083,211	9,084,279	( <sup>4</sup> )	( <sup>4</sup> )	19,458,585	9,774,306
1923	186	5,459	16,863	14,485	2,378	6,483,635	9,954,209	( <sup>4</sup> )	( <sup>4</sup> )	20,422,126	10,467,917
1921	194	4,477	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	4,879,708	6,158,514	( <sup>4</sup> )	( <sup>4</sup> )	13,890,000	7,788,446
1919	387	5,736	17,260	13,898	3,364	6,658,402	7,727,493	5,974,121	1,753,362	17,850,002	10,129,119
1914	368	3,776	12,408	11,159	1,809	2,695,448	4,430,134	3,370,845	1,059,289	9,320,087	4,889,933
1909	313	4,143	15,405	12,220	3,245	2,591,879	3,261,043	2,407,989	853,054	7,897,756	4,636,713
1904	199	3,478	5,833	5,680	203	2,153,068	2,236,034	2,154,211	81,723	5,705,880	3,469,945
1899	174	2,490	3,668	3,650	8	1,199,496	1,998,593	( <sup>4</sup> )	( <sup>4</sup> )	4,060,924	2,062,331
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929	25.0	-3.8	7.8	-5.7	60.0	2.0	3.6	3.4	6.2	7.5	11.4
1925-1927		-0.5	13.9	6.9	52.7	6.7	3.8			3.7	3.6
1923-1925	7.5	-15.2	11.7	10.2	21.3	-21.6	-2.7			-4.7	-6.6
1921-1923	-4.1	21.9				32.9	61.0			47.0	35.3
1919-1921	-49.1	-21.9				-26.7	-20.3			-22.2	-23.6
1919-1929	-35.4	-22.0	34.1	15.8	109.0	-16.4	34.8	63.0	-61.0	21.5	11.3
1909-1919	23.6	38.5	11.6	13.7	3.7	156.9	137.0	148.1	105.5	126.1	118.5
1899-1909	79.9	66.4	322.8	234.8	( <sup>4</sup> )	116.0	63.2			64.5	124.8

<sup>1</sup> Not including salaried employees.

<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>4</sup> Not reported separately.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> No comparable data.

<sup>7</sup> Per cent not computed where base is less than 100.

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

[This table gives statistics for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing an approximation of the data supplied by individual establishments. Certain of the other counties, however, reported larger numbers of wage earners or larger values of products than some of the counties shown separately]

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	423,317	250	4,470	23,147	\$5,504,991	\$10,419,449	\$9,730,401	\$983,048	\$21,697,148	\$11,277,699
<i>Counties</i>										
Bernalillo	45,480	47	1,095	6,416	2,329,370	4,452,882	4,240,415	203,467	9,053,719	4,600,837
Chaves	19,549	22	132	1,700	168,882	772,713	718,943	53,770	1,376,321	603,008
Colfax	19,167	12	267	1,114	386,780	333,041	305,029	28,012	1,015,723	682,082
Curry	15,809	12	331	2,198	444,973	531,740	459,247	72,493	1,256,914	725,174
Doña Ana	27,455	8	120	837	84,740	399,183	304,406	94,717	656,945	257,762
Eddy	15,842	9	65	893	65,393	971,415	947,907	23,448	1,298,710	327,295
Grant	19,050	10	47	253	60,087	75,330	68,023	7,307	194,649	110,319
Hidalgo	5,023	4	42	60	60,518	40,519	28,708	11,816	129,360	88,841
Luna	6,247	7	21	111	20,291	41,529	30,030	2,493	67,966	67,966
McKinley	20,643	19	244	2,329	331,335	269,680	215,637	54,043	885,724	610,044
Mora	10,322	3	10	89	9,800	3,600	3,600		20,620	16,920
Otero	9,779	14	834	4,342	799,794	1,882,802	1,223,635	109,767	2,740,729	1,407,927
Quay	10,828	7	185	128	280,795	170,347	146,502	23,845	622,090	352,043
Rio Arriba	21,381	10	138	398	117,715	69,885	68,772	1,113	330,259	260,874
Roosevelt	11,109	5	28	122	10,396	128,623	126,185	2,438	205,783	77,160
Sandoval	11,144	4	11	190	10,737	14,199	10,600	3,599	31,033	16,834
San Miguel	23,636	16	124	640	136,741	241,380	224,616	16,764	591,334	349,954
Santa Fe	19,507	10	41	145	64,401	102,657	94,796	7,861	278,192	175,535
Socorro	9,611	5	17	148	18,160	10,519	10,115	404	44,577	34,058
Taos	14,394	5	18	104	20,964	23,032	22,124	908	63,241	40,209
Torrance	9,269	3	10	75	9,399	2,790	2,670	111	23,261	20,471
Valencia	16,186	4	37	587	52,577	89,765	72,349	17,416	211,895	122,130
All other counties <sup>3</sup>	61,886	14	59	148	72,128	341,218	333,962	7,256	665,774	324,556
<i>Cities having 10,000 inhabitants or more<sup>4</sup></i>										
Albuquerque	26,570	41	1,092	4,074	1,841,060	2,589,451	2,442,584	146,867	5,715,761	3,126,310
Santa Fe	11,176	10	41	145	64,401	102,657	94,796	7,861	278,192	175,535

<sup>1</sup> Not including salaried employees.

<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

<sup>3</sup> De Baca, Guadalupe, Harding, Lea, Lincoln, San Juan, and Union Counties. (See headnote.) No manufacturing was reported from Catron and Sierra Counties.

<sup>4</sup> Not including Roswell, which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for this city from separate publication to avoid disclosing approximations of the data for individual establishments located outside the city but within Chaves County.

## CENSUS OF MANUFACTURES: 1929

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	5,234	5,059	175	104	155	9	73	68	5	521	434	87	4,476	4,402	74
1919 <sup>1,2</sup>	6,646	6,435	211	336	320	16	59	58	1	515	441	74	5,736	5,616	120
1914 <sup>3</sup>	4,504	4,481	113	325	308	17	47	47	—	446	407	39	3,776	3,710	67
1909	4,766	4,659	107	288	282	6	41	41	—	294	278	16	4,143	4,058	85

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.

<sup>2</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>3</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 4.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

[Statistics for wage earners by months for individual industries, by States, are given in the industry reports as published separately and in Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929	4,476	4,277	4,341	4,266	4,416	4,596	4,691	4,601	4,637	4,648	4,604	4,370	<i>4,266</i>	90.9
1919	5,736	<i>4,982</i>	5,104	5,337	5,181	5,629	5,909	6,148	6,263	6,170	6,025	6,019	6,005	79.8
1914	3,776	3,621	3,623	<i>3,605</i>	3,804	3,926	3,892	4,032	3,927	3,846	3,816	3,606	3,614	89.4
1909	4,143	3,666	<i>3,616</i>	3,775	3,965	4,103	4,142	4,389	4,532	4,691	4,346	4,320	4,273	78.8

<sup>1</sup> The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures.

TABLE 5.—ESTABLISHMENTS CLASSIFIED ACCORDING TO PREVAILING HOURS OF LABOR PER WEEK FOR WAGE EARNERS: 1929

[The data for each establishment are classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	250	4,476	45 and over but under 48.....	3	12
Not reported.....	48	125	48.....	78	1,639
Under 40.....			Over 48 but under 54.....	4	41
40.....			54.....	13	106
Over 40 but under 44.....	15	113	Over 54 but under 60.....	15	300
44 and over but under 45.....	13	86	60 and over.....	71	1,668

<sup>1</sup> Combined to avoid disclosing approximations of the data for individual establishments.

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	250	387	313	4,476	5,736	4,143	21 to 50.....	17	12	11	522	435	367
No wage earners.....	5	35	31				51 to 100.....	5	3	6	304	531	389
1 to 5.....	165	272	202	475	592	476	101 to 250.....	5	9	6	678	1,073	1,039
6 to 20.....	48	47	54	516	457	527	251 to 500.....	15	3	2	1,921	1,048	662
							501 to 1,000.....		1	1		970	638

<sup>1</sup> Combined to avoid disclosing data for an individual establishment.



TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	250	387	313	4,476	5,736	4,143	\$21,697,148	\$17,856,602	\$7,897,750	\$11,277,699	\$10,120,119	\$4,636,713
Less than \$5,000.....	( <sup>2</sup> )	116	143	( <sup>2</sup> )	112	221	( <sup>2</sup> )	297,543	329,169	( <sup>2</sup> )	207,811	243,159
\$5,000 to \$19,999.....	128	169	114	387	474	562	1,340,454	1,787,911	1,088,650	875,613	1,036,948	689,587
\$20,000 to \$99,999.....	84	67	43	682	695	778	3,522,583	2,608,702	1,996,506	1,937,774	1,311,071	1,062,426
\$20,000 to \$49,999.....	58	( <sup>3</sup> )	( <sup>3</sup> )	304	( <sup>3</sup> )	( <sup>3</sup> )	1,744,020	( <sup>3</sup> )	( <sup>3</sup> )	1,030,006	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	26	( <sup>3</sup> )	( <sup>3</sup> )	378	( <sup>3</sup> )	( <sup>3</sup> )	1,778,563	( <sup>3</sup> )	( <sup>3</sup> )	907,768	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	29	28	13	1,526	2,097	2,582	6,734,329	5,921,624	4,483,431	4,049,638	3,527,497	2,641,541
\$100,000 to \$249,999.....	18	( <sup>3</sup> )		410	( <sup>3</sup> )		2,493,724	( <sup>3</sup> )		1,551,696	( <sup>3</sup> )	
\$250,000 to \$499,999.....	11	( <sup>3</sup> )		1,116	( <sup>3</sup> )		4,240,605	( <sup>3</sup> )		2,497,972	( <sup>3</sup> )	
\$500,000 to \$999,999.....	6	7		664	2,358		4,441,011	7,240,822		1,523,299	4,046,792	
\$1,000,000 and over.....	3			1,217			5,658,771			2,891,375		
\$1,000,000 to \$2,499,999.....	4	( <sup>3</sup> )	( <sup>3</sup> )	1,217	( <sup>3</sup> )	( <sup>3</sup> )	5,068,771	( <sup>3</sup> )	( <sup>3</sup> )	2,891,375	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....		( <sup>3</sup> )	( <sup>3</sup> )		( <sup>3</sup> )	( <sup>3</sup> )					( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>2</sup> No data.

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

<sup>4</sup> Combined to avoid disclosing data for an individual establishment.

TABLE 8.—ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and they cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	250	387	4,476	5,736	\$21,697,148	\$17,856,602	\$11,277,699	\$10,120,119
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	99	135	3,857	5,168	18,584,705	15,001,235	9,034,799	8,790,961
Other forms of ownership or control (individual, partnership, etc.).....	151	252	619	578	3,112,353	2,855,367	1,042,900	1,338,158
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	44	( <sup>1</sup> )	2,726	( <sup>1</sup> )	13,342,194	( <sup>1</sup> )	6,470,017	( <sup>1</sup> )
Independent (single-unit).....	206	( <sup>1</sup> )	1,750	( <sup>1</sup> )	8,354,954	( <sup>1</sup> )	4,807,682	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE: 1929, 1927, 1925, 1919, AND 1914

CENSUS YEAR	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horse-power	Prime movers								Electric motors driven by purchased energy				
		Total horse-power of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines					
			Number	Horse-power	Number	Horse-power	Number	Horse-power	Number					Horse-power
1929.....	23,147	16,097	106	11,591	5	2,210	20	2,296	1	20	932	7,050	420	7,098
1927.....	21,467	17,061	99	12,978	6	1,862	29	2,101	1	20	642	4,406	476	7,477
1925.....	18,842	15,957	102	12,968	7	1,718	22	1,271	4	381	485	2,835	381	6,237
1919 <sup>1</sup> .....	17,260	13,896	129	11,187	7	1,408	75	920	4	381	512	3,304	98	1,814
1914 <sup>1</sup> .....	12,468	11,159	148	10,861	( <sup>2</sup> )	( <sup>2</sup> )	52	775	3	23	249	1,309	78	1,308

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

<sup>2</sup> Reported as "Steam engines and turbines."

<sup>3</sup> Not reported separately. See footnote 2.

## CENSUS OF MANUFACTURES: 1929

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND OF ELECTRIC MOTORS, BY COUNTIES: 1929

[This table presents statistics for each county for which separate figures are given in Table 2. See headnote on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	23,147	16,097	7,050	7,008	<i>Counties—Continued</i>				
<i>Counties</i>					Otero.....	4,342	3,089	1,253	
Bernalillo.....	6,416	4,650	1,766	5,770	Quay.....	128	80	68	
Chaves.....	1,760	846	914	28	Rio Arriba.....	398	398		
Colfax.....	1,114	940	174	227	Roosevelt.....	122	85	37	
Curry.....	2,198	1,149	1,049	472	Sandoval.....	190	175	15	
Dona Ana.....	837	200	637		San Miguel.....	640	410	230	
Eddy.....	893	725	108		Santa Fe.....	145		145	
Grant.....	253	130	123		Socorro.....	148	140	8	
Hidalgo.....	60		60		Taos.....	104	105	59	
Luna.....	111		111		Torrance.....	75	73	2	
McKinley.....	2,329	2,225	104	436	Valencia.....	537	517	70	
Mora.....	89	89			All other counties <sup>2</sup> .....	148	91	57	

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.<sup>2</sup> De Baca, Guadalupe, Harding, Lea, Lincoln, San Juan, and Union. No manufacturing was reported from Catron and Sierra Counties.

TABLE 11.—FUEL AND ELECTRIC ENERGY CONSUMED, BY QUANTITY AND COST: 1929, 1927, 1923, 1919, 1914, AND 1909

[The figures given in this table cover the consumption of fuel and purchased electric energy for all purposes—power, heat, light, etc. For county figures, see Chapter VII, Volume 1, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.).....	81,037	\$254,847	97,753	337,785	573,187	774,882	855,180
Anthracite (tons, 2,240 lbs.).....	2,043	14,517	( <sup>3</sup> )	194	589	422	498
Bituminous (tons, 2,000 lbs.).....	79,349	240,330	( <sup>3</sup> )	337,568	572,527	774,409	854,622
Coke (tons, 2,000 lbs.).....	4,522	24,016	( <sup>4</sup> )	( <sup>4</sup> )	831	2,355	888
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	8,079,371	249,815	( <sup>4</sup> )	( <sup>4</sup> )	3,048,708	1,203,034	588,504
Gasoline and kerosene (gallons) <sup>4</sup> .....	40,145	9,330	( <sup>4</sup> )	( <sup>4</sup> )	29,100		
Gas, natural (M cu. ft.).....	66,918	25,343	( <sup>4</sup> )	( <sup>4</sup> )	1,050	1,332	225
Gas, manufactured (M cu. ft.).....	66,811	9,312	( <sup>4</sup> )	( <sup>4</sup> )			
Other fuels.....		6,464	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours).....	6,349,040	150,377	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Total cost of fuel and purchased energy.....		7729,504	Cost \$642,928	Cost ( <sup>6</sup> )	Cost \$1,753,362	Cost \$1,050,289	Cost \$863,054

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.<sup>3</sup> Not tabulated separately.<sup>4</sup> No data.<sup>5</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.<sup>6</sup> Data incomplete.<sup>7</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.<sup>8</sup> Not reported separately.

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents statistics for all industries for which separate figures can be given without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other industries," however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	250	594	4,476	16,007	7,050	\$1,266,139	\$5,564,991	\$9,736,401	\$683,048	\$21,607,148	\$11,277,699
Beverages.....	17	13	81	88	5	19,640	34,809	89,469	4,039	258,498	164,990
Bread and other bakery products.....	34	16	177	332	5	25,694	198,051	630,318	33,178	1,164,690	501,194
Butter.....	5	6	13	95	5	9,200	14,545	229,082	4,434	303,388	69,872
Clay products (other than pottery) and non-clay refractories.....	5	9	102	475	448	23,800	69,471	10,699	45,047	158,261	101,615
Confectionery.....	3	9	9	5	5	5,767	18,129	438	37,796	19,229	19,229
Flour and other grain-mill products.....	13	8	31	342	285	14,279	40,811	328,274	13,226	446,830	105,330
Ice cream.....	10	10	19	167	167	15,180	22,943	119,163	10,492	249,510	119,855
Ice, manufactured.....	16	24	128	1,565	851	39,464	160,926	86,160	81,573	665,000	548,267
Lumber and timber products, not elsewhere classified.....	40	77	1,540	4,859	1,382	207,254	1,430,117	664,053	124,952	4,198,302	3,409,297
Mattresses and bed springs, not elsewhere classified.....	3	1	5	30	19	(3)	4,550	13,740	352	29,793	15,701
Oil, cake, and meal, cottonseed.....	4	17	73	1,155	298	23,100	41,229	783,421	19,078	1,133,590	331,091
Petroleum refining.....	4	21	55	59	59	36,795	57,305	1,502,747	7,946	2,048,485	537,792
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	9	11	148	125	409	53,350	128,173	373,416	14,127	686,310	298,776
Printing and publishing, book and job.....	8	5	36	57	57	15,400	46,233	53,984	2,867	208,863	152,012
Printing and publishing, newspaper and periodical.....	42	153	224	11	443	239,134	348,287	236,387	24,327	1,358,298	1,097,084
Other industries.....	37	223	1,876	7,485	2,052	543,849	2,961,174	4,647,859	296,072	8,749,525	3,805,694

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

<sup>3</sup> Withheld to avoid disclosing compensation of an individual employee; included in item for "Other industries."