

NEW YORK

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers	Fuel and purchased energy		
1929	39,395	1,105,966	3,986,781	1,346,844	2,639,937	\$1,650,378,855	\$5,004,635,985	\$4,810,232,072	\$104,403,013	\$9,978,556,143	\$4,973,920,158
1927	36,650	1,072,284	3,671,185	1,404,871	2,266,314	1,605,375,086	4,804,172,874	4,006,940,030	197,232,835	9,400,001,376	4,595,838,502
1925	33,393	1,006,202	3,348,184	1,505,158	1,843,026	1,533,893,390	4,704,080,399	(⁵)	(⁵)	8,968,547,839	4,263,585,440
1923	38,186	1,160,901	3,263,325	1,709,453	1,553,872	1,581,349,221	4,764,626,479	(⁵)	(⁵)	8,960,636,400	4,194,011,021
1921	38,107	1,000,414	(⁵)	(⁵)	(⁵)	1,303,421,470	3,687,584,127	(⁵)	(⁵)	6,973,500,287	3,285,922,160
1919	49,330	1,228,130	2,926,903	1,755,986	1,170,977	1,458,206,804	4,943,213,919	4,780,956,952	162,256,967	8,867,004,906	3,923,790,987
1914	48,203	1,057,857	2,321,817	1,076,903	644,824	631,642,011	2,108,607,361	2,032,025,003	75,982,358	3,814,661,114	1,709,053,753
1909	44,935	1,003,981	1,969,922	1,579,977	389,945	557,230,839	1,856,904,342	1,794,107,326	62,797,016	3,369,490,192	1,512,585,850
1904	37,194	856,947	1,440,981	1,345,697	95,284	430,014,851	1,348,603,286	1,315,240,116	33,363,170	2,488,345,579	1,139,742,293
1899	35,957	726,909	1,005,160	1,017,302	47,768	337,323,585	1,018,377,186	(⁵)	(⁵)	1,871,830,872	853,453,688
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	7.5	3.1	8.6	-8.1	19.7	2.8	4.2	4.4	-1.4	6.2	8.2
1925-1927	9.8	0.6	9.6	-2.7	19.7	4.7	2.1			4.8	7.8
1923-1925	-12.6	-7.4	2.6	-12.0	18.6	-3.0	-1.3			0.1	1.6
1921-1923	0.2	15.0				21.3	29.2			28.5	28.3
1919-1921	-22.8	-18.5				-10.6	-25.4			-21.4	-16.7
1919-1929	-20.1	-0.9	36.2	-23.3	125.4	13.2	1.2	0.6	19.8	12.5	26.8
1909-1919	9.8	22.3	48.6	11.1	200.3	161.7	163.2	166.6	158.4	163.2	159.4
1899-1909	25.0	38.1	84.9	55.3	718.3	65.2	82.3			80.0	77.2

¹ Not including salaried employees.
² 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.
³ 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.
⁴ Not reported separately.
⁵ Not called for on schedule.
⁶ No comparable data.

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

	Population, 1930	Number of establishments	Wage earners (average for the year) ¹	Horse-power ²	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		
<i>Cities having 10,000 inhabitants or more</i> —Continued										
Binghamton.....	70,662	163	9,294	15,070	\$10,732,869	\$26,674,791	\$26,050,865	\$614,926	\$53,052,403	\$26,377,612
Buffalo ³	873,076	1,391	68,854	369,640	100,677,692	440,027,689	420,850,090	10,171,400	720,200,980	280,173,361
Coloos.....	23,226	64	4,904	25,396	5,130,065	9,750,065	9,254,467	505,188	19,697,141	9,837,486
Corning.....	15,777	28	2,397	4,147	3,246,767	2,963,176	2,314,705	638,471	12,065,323	9,112,147
Cortland.....	15,043	39	3,498	12,698	4,227,475	12,028,079	11,538,597	489,482	25,055,173	13,027,094
Dunkirk.....	17,802	33	2,840	13,796	3,972,531	9,310,200	8,651,078	659,132	16,970,998	7,660,738
Elmira.....	47,397	99	5,700	18,861	8,110,640	12,354,126	11,420,080	928,046	31,877,717	16,623,591
Floral Park.....	10,016	7	31	200	60,099	60,633	60,005	3,528	222,704	153,171
Fresport.....	15,467	12	186	216	283,063	225,837	211,876	13,961	651,945	426,108
Fulton.....	12,462	23	3,324	20,016	4,068,172	14,961,023	14,106,575	844,448	26,811,035	11,860,012
Geneva.....	10,053	39	1,777	8,248	2,595,823	6,600,031	5,184,858	316,073	12,088,333	6,587,407
Glen Falls.....	18,531	62	2,390	31,432	2,629,878	6,627,877	4,800,296	727,581	12,216,981	6,080,084
Gloversville.....	23,099	107	6,281	8,086	6,088,730	17,183,876	16,788,067	394,908	31,323,084	14,142,200
Hempstead.....	12,650	23	272	3,165	359,847	1,110,582	846,862	263,720	2,003,571	1,552,989
Henkimer.....	10,440	20	1,225	4,898	1,518,002	2,151,703	2,068,061	92,742	5,050,617	2,898,014
Hornell.....	16,250	20	2,620	5,034	3,740,040	4,553,713	4,407,992	145,751	10,950,109	6,405,896
Hudson.....	12,337	22	888	2,078	901,863	1,743,335	1,635,266	108,060	4,777,493	2,334,073
Ithaca.....	20,708	38	2,073	5,393	3,110,784	1,743,071	1,522,237	221,434	8,067,096	7,013,426
Jamestown.....	45,165	135	9,040	25,131	13,787,907	23,825,310	23,177,632	647,678	54,210,093	30,394,388
Johnstown.....	10,801	95	2,808	5,574	2,955,188	7,507,462	7,283,301	224,151	15,077,398	7,509,850
Kenmore.....	16,482	5	16	22	27,061	47,908	44,522	3,386	142,401	94,563
Kingston.....	28,088	92	4,189	7,411	4,100,281	7,930,071	7,553,379	377,592	17,309,808	9,438,837
Little Falls.....	11,105	35	2,670	14,026	2,857,034	6,481,828	6,211,717	270,111	12,828,406	6,346,698
Lockport.....	23,160	65	3,087	25,356	5,810,822	22,284,430	21,469,402	815,034	38,790,485	10,485,049
Lynbrook.....	11,093	8	95	514	162,430	248,040	233,777	14,263	680,472	438,432
Mamaroneck.....	11,700	17	247	634	562,711	644,814	524,140	38,671	1,341,095	778,384
Massena.....	10,637	14	130	470	144,026	719,328	683,702	35,600	877,373	158,045
Middletown.....	21,270	48	1,520	2,913	1,898,222	2,018,837	1,876,444	142,393	5,733,395	3,714,553
Mount Vernon.....	91,499	87	1,910	4,592	2,020,073	4,073,256	3,828,626	244,730	11,396,387	7,313,131
Newburg.....	31,275	96	4,478	10,048	5,330,947	13,485,626	12,844,242	641,284	26,450,277	12,904,751
New Rochelle.....	54,000	46	868	2,410	1,401,602	1,933,562	1,906,000	77,062	5,621,236	3,937,083
New York ⁴	6,930,440	29,440	563,249	978,622	912,274,596	2,947,129,773	2,885,380,031	61,740,742	5,984,254,941	3,037,125,108
Bronx Borough (Bronx County).....	1,295,268	1,204	24,058	65,401	40,613,431	73,021,421	67,803,381	5,158,040	176,326,999	103,305,678
Brooklyn Borough (Kings County).....	2,500,401	5,818	140,648	394,900	214,040,571	692,184,262	571,050,870	21,124,380	1,214,060,535	621,000,273
Manhattan Borough (New York County).....	1,807,312	20,797	328,230	314,538	558,764,981	1,942,634,397	1,916,806,964	25,827,443	3,080,303,844	2,043,660,447
Queens Borough (Queens County).....	1,079,129	1,417	55,106	147,797	85,461,966	278,800,787	271,463,336	7,307,451	516,178,834	234,318,047
Richmond Borough (Richmond County).....	168,340	210	8,247	55,840	12,594,047	60,428,906	58,186,484	2,242,422	62,354,729	31,925,823
Niagara Falls.....	75,400	123	13,211	114,156	19,870,497	63,707,475	63,762,922	9,654,553	131,207,287	67,499,782
North Tonawanda.....	19,019	58	4,261	37,787	5,900,596	15,903,042	14,324,791	1,608,251	33,633,312	17,040,270
Ogdensburg.....	16,915	37	1,068	14,415	1,384,818	5,047,216	4,661,024	396,192	8,302,394	3,255,178
Olean.....	21,790	51	2,740	12,300	3,737,639	10,275,071	15,636,130	638,911	21,427,469	6,132,398
Ononda.....	10,568	28	932	2,390	1,241,905	2,037,561	1,956,720	80,835	6,309,377	3,271,810
Oneonta.....	12,536	22	1,322	3,902	1,638,376	5,652,225	5,512,613	139,012	9,333,517	3,681,292
Ossining.....	15,241	19	503	1,226	1,399,636	1,347,002	1,376,636	52,684	3,275,325	1,876,639
Oswego.....	22,652	41	2,835	20,240	3,123,001	10,774,420	10,071,762	702,698	19,307,186	8,622,706
Peekskill.....	17,125	30	967	13,772	2,740,277	2,740,277	3,307,940	372,387	5,992,758	3,252,481
Plattsburgh.....	13,349	28	584	9,882	677,250	2,315,915	2,024,124	291,791	4,376,668	2,060,753
Port Chester.....	22,062	27	1,595	5,985	2,361,874	5,503,919	5,301,363	202,556	12,785,809	7,281,390
Port Jervis.....	10,243	25	1,073	2,456	2,263,637	3,025,686	2,814,846	210,840	6,642,336	3,616,650
Poughkeepsie.....	40,288	115	5,195	10,203	6,249,188	12,020,261	11,465,118	571,143	30,119,092	18,022,831
Rensselaer.....	11,223	17	1,973	8,514	2,841,148	8,172,574	7,871,434	801,140	16,833,267	7,060,683
Rochester ⁵	328,132	935	58,448	110,530	82,410,403	142,973,981	136,636,560	6,337,382	380,701,393	237,727,412
Rockville Center.....	13,718	12	87	509	167,056	150,053	130,763	25,300	794,653	578,000
Rome.....	32,338	56	5,762	31,148	7,223,111	40,390,025	39,168,367	1,221,658	57,032,917	16,642,892
Saratoga Springs.....	13,109	30	259	1,073	338,208	718,982	683,914	35,068	1,603,393	974,411
Schenectady.....	95,692	114	25,366	174,311	43,410,388	86,533,446	83,346,370	3,187,076	107,146,411	80,612,905
Syracuse ⁶	209,320	445	26,486	82,652	39,161,879	77,040,012	73,747,612	3,292,400	181,798,450	104,152,438
Tonawanda.....	12,681	24	2,278	15,997	2,090,610	7,601,743	7,104,116	497,628	17,713,642	10,111,899
Troy.....	72,793	149	11,272	31,661	11,399,319	20,144,434	17,236,887	2,907,547	44,418,327	24,273,893
Utica ⁷	101,740	216	13,195	51,616	14,319,579	31,370,579	29,165,819	2,204,760	65,186,803	33,816,224
Valley Stream.....	11,700	5	17	60	26,780	43,095	41,810	2,185	97,691	53,596
Watertown.....	32,205	69	3,030	20,096	3,651,461	8,304,476	7,697,108	607,368	20,140,137	11,835,061
Watervliet.....	16,083	24	1,400	3,668	1,559,751	4,837,706	4,738,511	99,285	10,253,266	5,415,499
White Plains.....	35,830	34	431	1,080	780,213	994,899	987,566	57,333	3,076,192	2,081,293
Yonkers.....	134,046	141	13,127	31,442	17,283,517	73,165,755	71,317,461	1,848,294	113,536,679	40,370,924

¹ Not including salaried employees.
² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.
³ The New York City Industrial Area comprises Bronx, Kings, New York, Queens, Richmond, and Westchester Counties, N. Y., and Bergen, Essex, Hudson, Middlesex, Passaic, and Union Counties, N. J. For statistics by industries for this area, and for Bronx, Kings, New York, Queens, and Richmond Counties, see Table 13.
⁴ The Buffalo Industrial Area comprises Erie and Niagara Counties. For statistics by industries for this area, see Table 13.
⁵ The Rochester Industrial Area is coextensive with Monroe County. For statistics by industries for this area, see Table 13.
⁶ For statistics by industries for this county, see Table 13.
⁷ Not including Endicott, Glen Cove, Johnson City, and Lackawanna, 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.
⁸ For statistics by industries for this city, see Table 14.

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 ¹	1,359,731	988,649	371,082	28,374	27,258	1,116	33,287	31,300	1,987	192,104	123,053	20,051	1,105,066	807,038	298,028
1919 ^{1,2}	1,524,761	1,095,371	429,390	49,484	47,285	2,199	24,832	23,400	1,372	222,315	147,946	74,369	1,228,130	876,680	351,450
1914 ³	1,289,698	927,648	361,450	48,636	46,333	2,303	16,565	15,786	779	166,040	120,536	45,504	1,057,857	744,993	312,864
1909 ⁴	1,203,241	869,434	333,807	47,599	46,429	2,140	12,916	12,481	435	138,775	104,883	33,892	1,003,981	706,641	297,340

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

² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 3,151; male, 3,062; female, 89. Other salaried officers and employees—total, 47,370; male, 29,041; female, 18,329. (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.)

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

⁴ 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 ¹	1,105,966	1,066,743	1,095,065	1,117,542	1,113,582	1,099,151	1,088,193	1,087,809	1,118,059	1,149,530	1,155,205	1,116,434	1,066,681	92.4
1919 ¹	1,228,130	<i>1,179,216</i>	1,182,279	1,187,865	1,194,824	1,186,957	1,191,679	1,228,077	1,260,592	1,272,811	1,260,413	1,281,760	1,311,087	86.9
1914 ²	1,057,857	1,055,575	1,078,564	1,094,773	1,084,215	1,067,030	1,063,471	1,033,963	1,037,475	1,067,384	1,072,512	1,034,049	1,014,893	92.7
1909 ³	1,003,981	<i>946,368</i>	971,236	991,033	989,498	983,987	980,503	977,203	998,896	1,041,333	1,063,162	1,050,852	1,045,110	88.9

¹ 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.....	30,395	1,105,066	45 and over but under 48.....	2,521	83,253
Not reported.....	4,383	12,770	48.....	7,011	330,392
Under 40.....	512	3,763	Over 48 but under 54.....	3,943	231,709
40.....	4,698	69,585	54.....	1,309	53,233
Over 40 but under 44.....	681	44,496	Over 54 but under 60.....	806	46,202
44 and over but under 45.....	12,603	207,758	60 and over.....	928	22,800

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.....	30,395	49,330	44,935	1,105,066	1,228,130	1,003,981	51 to 100.....	1,918	2,107	2,050	135,780	148,375	145,116
No wage earners.....	1,845	6,847	4,067				101 to 250.....	1,225	1,309	1,253	185,526	204,318	180,485
1 to 5.....	17,016	21,448	20,799	48,708	49,973	48,402	251 to 500.....	394	432	384	134,055	151,320	132,046
6 to 20.....	11,932	11,648	10,524	134,720	134,160	121,330	501 to 1,000.....	161	206	143	110,095	143,650	98,443
21 to 50.....	4,892	5,227	5,057	153,922	169,698	162,696	1,001 to 2,500.....	83		58	{ 117,905 }	226,236	106,463
							2,501 and over.....	18	108		{ 84,655 }		

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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	39,395	49,330	44,935	1,105,966	1,228,130	1,003,981	\$9,978,556,143	\$8,867,004,906	\$3,369,490,192	\$4,973,920,158	\$3,923,790,987	\$1,512,585,850
Less than \$5,000.....	(²)	8,743	12,274	(²)	4,797	15,130	(²)	22,082,902	29,649,739	(²)	14,300,330	18,996,135
\$5,000 to \$10,999.....	10,109	13,378	15,325	27,260	36,330	83,503	116,725,758	147,170,788	165,058,229	75,681,490	86,680,694	93,919,002
\$20,000 to \$99,999.....	16,166	15,621	11,614	132,847	154,589	211,730	757,264,089	732,562,634	515,939,471	457,971,399	384,843,905	266,722,940
\$20,000 to \$49,999.....	9,983	(³)	(³)	62,802	(³)	(³)	318,075,586	(³)	(³)	203,173,097	(³)	(³)
\$50,000 to \$99,999.....	6,203	(³)	(³)	70,045	(³)	(³)	439,188,504	(³)	(³)	254,798,302	(³)	(³)
\$100,000 to \$499,999.....	9,516	8,467	(³)	265,970	293,380	(³)	2,148,758,001	1,894,735,736	(³)	1,107,029,386	877,238,234	(³)
\$100,000 to \$249,999.....	6,222	(³)	(³)	129,217	(³)	(³)	902,686,320	(³)	(³)	522,308,958	(³)	(³)
\$250,000 to \$499,999.....	3,294	(³)	5,252	136,753	(³)	438,229	1,156,071,771	(³)	1,412,874,684	584,720,428	(³)	664,347,244
\$500,000 to \$999,999.....	1,935	1,064	(³)	146,821	162,129	(³)	1,341,299,432	1,168,979,076	(³)	662,541,700	528,685,065	(³)
\$1,000,000 and over.....	1,069	1,457	470	538,068	576,925	255,383	5,614,508,773	4,900,493,770	1,245,968,072	2,670,696,777	2,032,042,759	468,600,529
\$1,000,000 to \$2,499,999.....	1,141	(³)	(³)	167,050	(³)	(³)	1,719,864,682	(³)	(³)	846,665,219	(³)	(³)
\$2,500,000 to \$4,999,999.....	313	(³)	(³)	117,511	(³)	(³)	1,082,477,430	(³)	(³)	555,558,013	(³)	(³)
\$5,000,000 and over.....	215	(³)	(³)	248,507	(³)	(³)	2,812,166,652	(³)	(³)	1,268,472,945	(³)	(³)

¹ 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.

² No data.

³ 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.....	39,395	49,330	1,105,966	1,228,130	\$9,978,556,143	\$8,867,004,906	\$4,973,920,158	\$3,923,790,987
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	18,246	14,383	920,043	933,622	8,294,585,110	6,548,079,609	4,181,954,800	2,918,332,722
Other forms of ownership or control (individual, partnership, etc.).....	21,149	34,947	185,923	294,508	1,683,971,027	2,318,925,297	791,965,798	1,005,458,265
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	2,602	(¹)	408,480	(¹)	3,768,393,019	(¹)	1,759,062,635	(¹)
Independent (single-unit).....	36,793	(¹)	697,488	(¹)	6,210,163,124	(¹)	3,214,867,523	(¹)

¹ 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 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	Number	Horsepower	Number	Horsepower	
The State:														
1929	3,986,781	1,346,844	4,522	626,281	867	432,107	687	77,900	828	210,556	371,597	2,030,937	63,349	724,774
1927	3,671,185	1,404,871	5,024	731,496	808	412,307	845	64,650	1,038	256,358	288,119	2,206,314	84,677	826,464
1925	3,348,184	1,505,163	5,545	768,540	675	370,600	1,179	72,111	1,303	293,847	240,037	1,843,026	75,666	710,377
1919 ¹	2,920,993	1,765,983	3,627	1,050,738	638	248,810	3,078	113,415	1,986	343,023	170,262	1,170,977	54,069	512,861
1914	2,321,817	1,076,993	2,111,223	21,165,731	(²)	(³)	4,530	118,330	3,130	392,932	96,586	644,824	34,805	398,308
Industrial Areas														
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 York (Bronx, Kings, New York, Queens, Richmond, and Westchester Counties)	1,062,007	297,865	1,575	196,821	269	85,952	208	14,891	15	201	194,079	765,042	18,132	165,488
Portion in New Jersey (Bergen, Essex, Hudson, Middlesex, Passaic, and Union Counties)	1,109,882	515,758	1,473	235,006	378	266,898	171	12,981	13	873	98,714	594,224	37,690	338,750
Buffalo Area (Erie and Niagara Counties)	1,070,725	243,911	567	128,347	170	77,036	77	37,106	11	1,422	46,834	835,814	6,165	130,867
Rochester Area (coextensive with Monroe County)	140,714	48,902	183	27,479	23	19,455	22	718	12	1,250	17,343	91,812	8,730	50,517
Albany-Schenectady-Troy Area (Albany, Rensselaer, and Schenectady Counties)	315,674	104,852	146	30,182	61	62,028	31	1,236	21	11,408	27,967	210,822	4,109	52,458
Counties in which aggregate horsepower exceeded 25,000: 1929														
Albany	89,801	22,791	53	8,768	9	4,677	6	247	5	9,000	5,801	67,010	1,688	14,320
Bronx	95,401	7,399	43	4,525	2	55	24	2,519			10,043	58,002	509	4,165
Broome	49,362	10,010	36	5,428	6	4,511	2	80			10,798	39,343	1,845	12,406
Cattaraugus	28,024	14,022	94	8,420	19	4,045	10	1,523	2	34	1,796	14,002	1,067	9,385
Chautauqua	57,470	17,128	105	12,550	4	3,233	9	340	7	1,000	4,765	40,347	1,801	23,946
Chemung	25,349	7,336	37	6,757	7	517	2	62			2,008	18,013	540	6,367
Columbia	39,867	31,635	36	13,214	9	16,364	4	165	12	1,892	878	8,232	605	16,236
Erie	881,733	225,087	527	119,161	150	60,985	70	36,390	4	151	34,081	650,046	5,859	135,549
Essex	27,309	22,355	22	9,906	7	8,325	1	(⁴)	24	9,624	283	4,954	200	4,400
Genesee	26,392	5,531	24	1,366	12	3,315	10	275	2	75	1,869	20,861	477	5,169
Herkimer	40,557	20,057	45	9,980	3	1,012	1	(⁴)	34	8,185	2,171	20,500	933	6,446
Jefferson	83,852	42,853	65	6,539	19	7,968	8	215	138	28,131	1,957	40,999	805	9,088
Kings	394,990	101,946	732	30,771	52	16,273	73	4,325	4	77	48,760	293,044	5,230	30,605
Lewis	36,290	27,337	22	2,841	4	452	12	7,100	40	16,938	458	8,955	172	3,742
Monroe	140,714	48,902	183	27,479	23	19,455	22	718	12	1,250	17,343	91,812	8,730	50,517
New York	314,588	78,784	472	56,106	110	18,906	44	3,688	0	84	107,536	235,804	5,312	64,239
Niagara	197,992	18,224	40	9,186	20	7,051	7	716	7	1,271	12,153	179,768	306	4,313
Oneida	119,666	42,047	124	19,026	30	20,793	27	451	21	1,777	9,394	77,619	898	11,134
Onondaga	172,228	66,453	202	27,309	63	34,753	13	376	44	4,015	11,870	105,775	1,769	27,852
Orange	27,707	11,841	62	7,734	15	2,524	14	640	10	943	3,310	15,366	676	6,839
Oswego	46,990	16,308	43	5,188	6	8,016	13	184	20	2,020	2,357	30,682	1,060	13,876
Queens	147,797	47,432	157	23,634	56	22,076	19	1,722			19,256	100,365	3,039	23,462
Rensselaer	51,126	24,769	68	12,251	42	9,901	4	310	16	2,307	3,001	26,357	1,271	10,138
Richmond	55,846	14,441	50	10,332	7	3,780	11	349		(⁵)	2,590	41,405	895	7,893
St. Lawrence	117,229	27,297	32	6,435	8	3,654	4	15	120	17,193	2,444	89,932	505	8,873
Saratoga	66,426	60,367	57	9,335	5	8,005	1	(⁴)	42	43,027	744	6,059	018	27,011
Schenectady	174,747	57,292	25	9,163	10	47,450	21	679			10,165	117,455	1,150	28,000
Warren	37,535	24,094	25	2,522	1	(⁵)	2	184	29	21,388	1,782	13,441	170	2,595
Washington	42,537	31,257	36	4,946	11	4,016	2	87	48	21,308	1,283	11,280	919	19,757
Westchester	84,285	47,863	121	21,193	32	24,832	37	1,788	1	(⁵)	6,874	36,422	3,147	29,624

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 Item for steam 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 ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	3,986,781	1,346,844	2,630,937	724,774	New York.....	314,588	78,784	235,804	64,239
Albany.....	80,801	22,791	67,010	14,320	Niagara.....	107,002	18,224	179,768	4,318
Allegany.....	6,273	2,063	3,310	964	Oneida.....	110,668	42,047	77,619	11,134
Bronx.....	65,401	7,399	58,002	4,165	Onondaga.....	172,228	66,453	105,775	27,882
Broome.....	49,362	10,019	39,343	12,408	Ontario.....	14,000	3,034	10,966	1,355
Cattaraugus.....	28,024	14,022	14,002	9,388	Orange.....	27,707	11,841	15,866	6,830
Cayuga.....	24,707	8,272	16,435	800	Orleans.....	6,457	2,335	4,122	902
Chautauqua.....	57,470	17,123	40,347	23,946	Oswego.....	46,990	16,308	30,682	13,876
Chemung.....	26,349	7,336	18,013	6,307	Otsego.....	5,583	2,142	3,441	370
Chenango.....	5,774	3,075	2,699	2,088	Putnam.....	470	334	136	154
Clinton.....	19,691	10,649	9,042	3,209	Queens.....	147,797	47,432	100,365	23,492
Columbia.....	30,867	31,635	8,232	16,236	Rensselaer.....	51,120	24,769	26,357	10,138
Cortland.....	14,124	9,848	4,276	3,984	Richmond.....	55,846	14,441	41,405	7,363
Delaware.....	4,788	2,818	1,970	125	Rockland.....	15,738	11,117	4,621	8,759
Dutchess.....	24,004	8,418	15,586	6,065	St. Lawrence.....	117,229	27,297	89,932	8,873
Erie.....	881,733	225,687	656,046	135,649	Saratoga.....	60,420	60,367	6,059	27,911
Essex.....	27,309	22,355	4,954	4,400	Schenectady.....	174,747	57,292	117,455	28,000
Franklin.....	11,190	5,401	5,789	183	Schoharie.....	7,469	6,560	909	6,515
Fulton.....	16,250	5,226	11,024	1,530	Schuyler.....	3,200	2,758	442	2,293
Genesee.....	26,392	5,531	20,861	5,159	Seneca.....	8,728	4,130	4,598	3,001
Greene.....	14,987	7,068	7,919	6,002	Steuben.....	17,835	13,670	4,165	12,773
Hamilton.....	210	210	-----	-----	Suffolk.....	9,387	5,304	4,083	1,834
Herkimer.....	40,557	20,057	20,500	6,446	Sullivan.....	1,343	867	470	55
Jefferson.....	83,852	42,853	40,999	9,088	Tioga.....	2,635	637	1,998	325
Kings.....	394,900	101,946	293,044	36,605	Tompkins.....	13,540	10,406	3,134	11,835
Lewis.....	36,290	27,337	8,953	3,742	Ulster.....	18,722	8,079	10,643	2,403
Livingston.....	11,030	5,786	5,244	5,020	Warren.....	37,535	24,094	13,441	2,695
Madison.....	4,914	2,329	2,585	1,004	Washington.....	42,537	31,257	11,280	19,757
Monroe.....	140,714	48,802	91,912	50,617	Wayne.....	11,008	5,153	6,455	1,376
Montgomery.....	21,775	9,334	12,442	9,050	Westchester.....	84,285	47,863	36,422	20,624
Nassau.....	13,091	5,506	7,585	1,720	Wyoming.....	9,236	6,137	3,099	4,445
					Yates.....	4,205	3,216	3,080	262

¹ 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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 lbs.).....	17,908,422	\$79,508,977	17,412,576	17,514,958	15,790,088	13,883,231	12,191,311
Anthracite (tons, 2,240 lbs.).....	1,729,585	9,740,654	(3)	3,120,452	3,805,793	3,017,927	4,021,671
Bituminous (tons, 2,000 lbs.).....	16,061,287	69,768,323	(3)	14,000,972	11,533,633	9,831,163	7,687,939
Coke (tons, 2,000 lbs.).....	3,555,150	19,727,996	(4)	(4)	3,019,517	2,274,487	2,644,148
Fuel oils, including crude oils and gas oils (gallons) ³	423,851,874	19,033,718	(4)	(4)	288,021,858	214,327,638	167,800,920
Gasoline and kerosene (gallons) ⁴	3,723,528	532,700	(4)	(4)	5,251,050	(4)	(4)
Gas, natural (M cu. ft.).....	1,889,471	1,007,578	(4)	(4)	4,712,372	4,056,630	5,129,045
Gas, manufactured (M cu. ft.).....	118,641,235	12,012,017	(4)	(4)	(4)	(4)	(4)
Other fuels.....	-----	899,180	(4)	(4)	(4)	(4)	(4)
Electric energy purchased (kilowatt-hours).....	6,871,738,054	65,534,258	(6)	(4)	(4)	(4)	(4)
Total cost of fuel and purchased energy.....	-----	\$198,256,514	Cost \$197,232,835	Cost (8)	Cost \$162,256,967	Cost \$75,982,358	Cost \$62,797,016

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

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

³ Not tabulated separately.

⁴ No data.

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

⁶ Data incomplete.

⁷ 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.

⁸ 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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total	30,395	225,391	1,105,906	1,340,844	2,639,937	\$104,503,833	1,650,378,858	4,810,232,972	194,403,013	9,978,556,143	4,973,920,158
Agricultural implements	21	344	2,652	4,034	3,950	806,286	3,602,539	5,813,018	398,912	12,953,573	6,740,643
Aircraft and parts	22	954	4,192	260	3,114	2,918,070	6,136,052	4,804,752	172,159	17,225,704	12,248,853
Artificial and preserved flowers and plants	114	213	1,004		247	565,529	1,918,207	2,844,143	33,078	8,000,809	5,123,588
Artists' materials	21	64	172		285	289,666	246,076	463,042	12,772	1,500,375	1,083,901
Asbestos products, other than steam packing or pipe and boiler covering	5	26	82	100	802	77,126	109,592	173,022	16,402	542,275	352,851
Awning, tents, sails, and canvas covers	198	297	1,141	102	597	840,475	1,740,936	4,028,627	49,476	8,938,608	4,860,505
Bags, other than paper, not made in textile mills	38	244	1,715	2,040	1,444	876,428	1,737,895	24,822,505	70,394	20,849,322	4,956,423
Bags, paper, exclusive of those made in paper mills	32	285	1,947	30	3,069	822,727	1,926,810	14,225,671	78,531	21,224,070	6,919,868
Baking powders, yeast, and other leavening compounds	11	102	571	12,796	362	318,766	971,208	3,670,155	289,700	6,836,214	2,870,358
Baskets and rattan and willow ware, not including furniture	61	93	1,145	1,334	1,707	229,430	1,098,322	1,524,163	45,180	3,683,887	2,114,544
Belting, leather	32	142	336	1,015	285	407,950	474,230	3,420,930	40,476	3,089,143	1,847,728
Beverages	463	891	3,582	18,130	11,100	2,507,611	5,628,879	18,292,054	1,057,008	38,271,074	23,922,012
Billiard and pool tables, bowling alleys, and accessories	13	21	135	180	278	70,193	205,308	322,014	10,941	823,064	491,009
Blacking, stains, and dressings	21	88	183		246	256,389	162,100	908,556	8,155	2,152,404	1,285,693
Bookbinding and blank-book making	428	1,580	10,126	274	7,765	4,382,425	13,912,337	12,123,170	389,074	42,017,692	29,504,848
Boot and shoe cut stock, not made in boot and shoe factories	29	25	239		281	62,038	265,038	848,865	10,655	1,691,148	831,028
Boot and shoe findings, not made in boot and shoe factories	50	260	1,305	125	2,438	606,643	1,611,253	4,079,012	97,520	7,952,893	3,776,331
Boots and shoes, other than rubber	323	3,725	36,980	4,307	25,555	9,465,015	40,269,111	92,817,822	914,107	189,043,703	90,043,774
Boxes, cigar, wooden	12	42	487	60	404	152,943	504,345	536,144	15,669	1,410,550	858,762
Boxes, paper, not elsewhere classified	343	1,766	12,280	2,384	11,124	5,819,639	13,581,733	28,427,872	527,559	62,500,788	33,554,857
Boxes, wooden, except cigar boxes	67	166	1,120	1,192	3,653	800,705	1,420,829	3,894,696	102,555	6,740,048	3,242,797
Bread and other bakery products	3,199	3,824	33,704	8,583	43,602	9,378,232	52,771,427	129,803,375	5,503,807	295,190,431	159,592,249
Brooms	35	67	496	185	977	178,200	625,040	1,098,519	24,301	2,339,057	1,210,237
Brushes, other than rubber	75	233	1,009	362	1,077	726,045	2,067,437	6,685,849	38,437	11,029,209	5,241,873
Butter	35	71	1,112	187	1,048	143,448	153,522	3,840,408	30,271	4,420,390	843,711
Buttons	35	344	2,463	730	3,762	868,711	2,673,610	3,899,420	161,150	9,809,945	5,749,372
Candles	13	123	635	1,470	365	423,046	707,658	2,615,492	62,777	5,534,104	2,855,835
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	2,717,223
Canning and preserving: Fruits and vegetables; jellies, preserves, and sauces	279	1,122	7,810	9,481	14,018	2,961,221	7,053,829	46,772,638	602,257	75,407,504	27,972,000
Car and general construction and repairs, electric-railroad repair shops	36	736	7,084		13,114	1,661,902	13,750,700	7,964,181	590,081	23,998,252	15,443,090
Car and general construction and repairs, steam-railroad repair shops	140	2,293	21,706	16,140	32,772	5,727,637	37,729,752	28,399,770	1,624,557	78,832,097	43,507,770
Carbon paper and inked ribbons	23	233	493	213	1,043	753,329	744,026	3,552,362	59,500	7,214,206	3,604,854
Card cutting and designing	27	118	690		756	272,394	666,110	2,281,806	26,821	5,416,859	3,109,142
Carpets and rugs, rag	6	9	26		40	0,449	27,642	27,700	1,402	120,039	90,937
Carpets and rugs, wool, other than rag	11	1,099	14,298	18,138	3,699	3,107,153	17,715,750	31,299,699	884,827	67,589,359	35,044,838
Carriages and sleds, children's	18	54	387	150	905	130,938	494,689	1,049,868	23,401	2,114,670	1,036,301
Carriages, wagons, sleighs, and sleds	11	52	163	175	441	114,539	274,792	649,194	14,143	1,169,722	506,386
Cars, electric and steam railroad, not built in railroad repair shops	8	256	2,983	580	13,944	550,256	4,693,867	8,411,615	210,933	14,533,489	5,910,941
Cash registers and adding, calculating, and card-tabulating machines	12	375	2,125	75	1,839	1,117,892	4,722,120	3,049,542	89,304	11,961,164	8,822,268
Caskets, coffins, burial cases, and other morticians' goods	35	223	1,463	897	2,822	788,233	2,094,715	4,307,151	108,998	11,051,284	6,635,135
Cast-iron pipe	5	23	308		807	89,765	311,546	328,681	50,767	961,121	531,693
Cement	12	566	2,110	41,023	41,259	955,763	3,224,821	2,928,530	3,356,635	17,134,195	10,840,030
Cereal preparations	12	208	832	275	4,786	649,011	1,104,770	6,754,697	221,982	14,869,461	7,892,782
Cheese	248	72	493	1,535	1,254	148,314	600,220	12,388,371	198,681	14,984,983	2,396,031
Chemicals, not elsewhere classified	99	3,123	13,007	56,668	82,366	8,441,624	20,870,140	58,321,387	14,590,217	168,728,982	95,817,878
Chewing gum	10	273	1,058	1,070	3,650	693,209	1,285,007	9,805,681	123,201	22,887,853	12,955,091
China firing and decorating, not done in potteries	9	19	99		40	41,351	148,990	185,696	15,836	531,878	330,346
Chocolate and cocoa products, not including confectionery	17	285	1,879	4,050	11,646	815,100	2,363,610	17,313,668	531,508	26,805,242	8,960,006
Cigars and cigarettes	379	651	3,620	236	2,614	1,734,124	9,075,311	27,896,669	144,577	81,686,242	53,644,906
Clay products (other than pottery) and nonclay refractories	73	308	3,660	8,034	19,836	1,008,904	4,663,811	861,853	1,765,219	11,320,442	6,603,370
Cleaning and polishing preparations	74	475	784	504	2,106	1,203,029	926,590	3,763,808	74,361	10,736,033	6,897,804
Clocks, clock movements, time-recording devices, and time stamps	13	266	1,261	1,235	1,384	576,408	1,817,960	1,644,588	56,271	7,232,712	5,531,853
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	1,817	5,206	47,210	2,000	8,861	15,713,602	65,148,773	194,630,369	1,183,995	397,393,964	201,578,610
Clothing, men's, buttonholes	16	6	82	6	34	11,445	98,503	15,698	1,113	188,805	171,408
Clothing, women's, not elsewhere classified	5,704	19,136	102,098	80	18,269	62,809,421	164,149,330	722,680,544	3,097,588	1,308,065,109	582,286,977
Clothing, work (including sheep-lined and blanket-lined work coats, but not including shirts), men's	42	76	1,376		506	226,352	1,618,225	4,507,111	34,835	7,750,092	3,208,146
Cloth sponging and refinishing	25	107	645		510	387,338	1,069,068	11,373	46,160	2,405,332	2,347,709
Coffee and spice, roasting and grinding	119	712	1,557	868	6,635	1,973,044	1,937,322	67,970,446	410,798	84,822,923	16,442,631
Coke, not including gas-house coke	4	176	1,019	20,701	9,445	463,135	1,841,848	660,599	17,467,237	28,058,895	9,931,059
Combs and hairpins, not made from metal or rubber	5	13	36		20	39,506	41,303	179,150	1,374	364,967	184,443
Compressed and liquefied gases	16	156	248	1,565	9,225	254,250	406,143	588,095	183,301	3,079,722	2,308,406
Concrete products	232	351	1,497	500	8,514	973,139	2,445,021	2,628,498	169,812	8,813,239	6,014,929
Condensed and evaporated milk	84	191	905	6,798	5,564	380,625	1,178,755	17,696,225	490,235	23,062,179	4,875,719
Confectionery	229	1,181	9,602	6,845	12,697	3,213,485	9,278,709	27,444,436	803,991	59,298,700	29,050,273
Cooperage	51	64	610	636	446	151,048	798,422	3,000,200	86,488	4,749,102	1,712,414

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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Lapidary work	71	76	288		280	256,786	644,710	6,226,899	11,869	9,127,375	2,889,107
Lasts and related products	11	67	446	400	1,808	215,215	651,416	563,311	42,622	2,162,891	1,526,958
Leather goods, not elsewhere classified	188	372	2,632	3	926	1,139,603	3,279,616	9,540,224	62,703	17,680,877	8,068,450
Leather: Tanned, curried, and finished	67	376	5,354	15,462	14,311	1,590,331	7,021,302	37,172,241	867,230	53,794,167	15,704,696
Lime	7	24	154	185	1,959	59,682	226,307	211,573	176,977	892,110	503,580
Linen goods	3	21	154	550	130	62,320	145,813	282,361	11,917	591,160	296,882
Liquors, vinous	6	12	24	25	36	49,410	32,318	109,444	3,964	301,700	188,382
Lithographing	123	1,444	6,229	2,830	8,791	5,347,554	11,503,351	13,104,067	431,354	40,904,895	27,338,374
Lubricating oils and greases, not made in petroleum refineries	17	148	317	2,069	394	359,724	456,127	4,514,584	83,889	7,333,164	2,734,001
Lumber and timber products, not elsewhere classified	174	222	2,700	12,071	5,155	571,471	2,982,748	3,888,466	103,589	10,409,129	6,417,074
Macaroni, spaghetti, vermicelli, and noodles	96	208	1,357	596	6,383	565,979	1,702,676	7,803,847	321,996	13,912,095	5,786,252
Machine-tool accessories and small metal-working tools, not elsewhere classified	82	193	1,235	85	2,010	676,975	2,239,950	679,953	76,288	5,302,993	4,540,757
Machine tools	20	690	2,730	1,250	6,235	1,703,673	4,561,730	3,058,706	194,963	10,506,366	13,222,692
Malt	4	14	61	60	2,311	84,304	124,687	2,122,688	67,007	2,923,988	773,934
Marble, granite, slate, and other stone products	234	797	4,410	4,214	27,306	3,063,931	10,841,887	8,708,006	561,721	29,645,301	20,274,073
Mattresses and bed springs, not elsewhere classified	193	421	1,932	449	2,917	1,129,069	3,040,014	8,942,688	117,038	17,450,981	8,361,255
Meat packing, wholesale	122	1,758	7,278	10,100	14,633	4,597,911	11,822,718	206,242,665	1,870,300	247,426,951	39,806,668
Millinery	853	3,228	10,655	36	4,254	10,407,434	26,705,270	63,472,090	652,821	125,957,190	61,832,249
Minerals and earths, ground or otherwise treated	13	69	309	100	4,000	215,740	467,132	1,686,336	153,277	4,302,457	2,402,844
Mirror and picture frames	58	194	915		1,379	658,591	1,368,307	1,820,708	50,469	5,182,108	3,310,931
Mirrors, framed and unframed	75	281	1,380	300	1,441	753,720	2,209,213	3,643,073	91,531	8,849,853	4,614,749
Models and patterns, not including paper patterns	123	189	870	149	1,319	600,405	1,044,896	891,642	52,514	4,848,089	3,904,533
Motion pictures, not including projection in theaters	30	1,155	1,695	204	2,586	6,184,643	3,040,261	9,279,944	181,519	43,871,940	34,410,477
Motor-vehicle bodies and motor-vehicle parts	170	2,113	19,617	6,394	50,932	6,415,668	31,514,400	69,077,558	1,637,900	136,319,074	64,603,613
Motor vehicles, not including motorcycles	18	2,193	10,603	5,292	20,495	5,734,012	17,301,178	146,359,249	791,440	232,845,843	85,195,148
Motorcycles, bicycles, and parts	4	42	390		838	165,998	514,042	1,254,571	43,271	2,630,092	1,232,250
Mudlage, paste, and other adhesives, except glue and rubber cement	18	75	101	261	443	255,111	133,811	805,923	24,323	1,518,392	688,146
Musical-instrument parts and materials: Piano and organ	18	152	992	1,935	1,346	477,696	1,141,225	1,090,593	87,981	3,862,649	2,684,075
Musical instruments and parts and materials, not elsewhere classified	33	58	244	12	453	153,254	375,445	395,640	17,318	1,396,019	983,061
Musical instruments: Organs	11	15	122	75	111	31,029	186,462	130,259	5,006	544,837	408,973
Musical instruments: Pianos	29	357	3,747	2,798	7,542	1,844,432	5,493,277	6,036,169	237,872	14,708,108	8,402,097
Needles, pins, hooks and eyes, and snap fasteners	6	38	272	205	188	121,208	280,571	396,712	13,134	1,050,334	640,488
Nonferrous-metal alloys and products, not including aluminum products	219	2,418	13,001	18,353	52,875	6,599,428	20,021,813	90,424,586	2,370,089	143,322,010	50,428,335
Oil, cake, and meal, linseed	5	32	450	4	987	101,005	650,626	10,844,617	140,785	18,989,039	1,997,637
Oil, not elsewhere classified	6	19	15	215	44	45,369	21,690	539,427	4,726	732,688	223,535
Optical goods	42	660	5,225	56	8,347	2,055,224	7,532,811	5,198,327	450,043	20,104,492	14,486,092
Paints and varnishes	166	1,496	4,369	6,066	17,033	6,601,376	6,522,210	52,308,743	602,511	89,410,872	30,208,618
Paper	127	1,740	13,531	250,113	210,832	4,839,159	18,900,777	72,432,169	8,645,744	120,660,343	48,432,430
Pulp (wood and other fiber)	47	179	2,796			659,103	3,568,264	18,579,000	2,190,500	29,982,080	9,212,430
Paper goods, not elsewhere classified	106	819	3,032	4,008	5,743	2,591,954	4,435,669	19,613,975	300,145	35,784,274	15,870,154
Patent or proprietary medicines and compounds	234	1,411	2,474	1,180	4,310	4,857,180	3,081,242	13,704,410	200,761	49,677,623	35,632,443
Paving materials: Asphalt, tar, crushed slag, and mixtures	10	58	251	920	1,466	192,029	484,060	1,743,106	90,056	3,589,416	1,756,194
Pens, fountain and stylographic; pen points, gold, steel, and brass	30	151	656	12	606	407,097	879,527	2,141,705	22,762	4,410,999	2,252,532
Perfumes, cosmetics, and other toilet preparations	314	3,148	7,026	963	5,036	8,221,950	7,638,387	31,792,354	313,074	107,956,970	75,681,542
Petroleum refining	5	205	2,186	20,890	949	316,683	3,572,939	39,808,995	1,171,750	46,270,269	6,299,524
Photographs	12	42	300	65	189	134,442	339,690	1,043,463	18,381	1,795,187	778,343
Photo-engraving, not done in printing establishments	116	1,040	3,191		1,845	3,810,061	9,584,220	2,524,660	269,321	20,772,668	17,973,687
Pipes (tobacco)	12	177	938	200	1,333	418,204	1,187,623	1,004,090	44,032	3,261,909	2,213,808
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	453	1,630	7,071	17,688	38,374	5,222,808	12,054,870	22,505,227	785,395	51,071,050	27,721,328
Plated ware	80	845	2,809	3,215	7,797	2,494,627	4,740,041	5,226,620	251,073	18,424,071	12,943,378
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	32	187	834	4,305	1,840	563,979	1,130,210	2,727,988	102,884	6,064,098	3,233,226
Pocketbooks, purses, and cardcases	192	335	6,101	994	2,984	2,986,461	10,952,801	25,696,698	100,024	47,631,431	21,834,709
Pottery, including porcelain ware	10	215	1,919	1,828	976	590,170	2,515,496	1,309,440	324,547	4,464,213	4,830,226
Poultry killing, dressing, and packing, wholesale	26	54	206	100	116	140,404	255,663	3,307,144	9,348	4,205,889	889,397
Printing and publishing, book and job	2,564	12,670	31,897	57	38,872	35,618,093	62,169,091	58,895,643	2,125,998	274,041,493	213,019,352
Printing and publishing, music	62	304	491		515	2,535,088	844,479	884,875	20,888	9,818,115	812,862
Printing and publishing, newspaper and periodical	1,283	33,105	20,002	2,496	42,812	87,744,507	49,903,317	89,185,316	2,125,682	436,059,127	344,748,229
Printing materials, not including type or ink	17	60	188	160	370	208,703	324,317	392,018	29,686	1,666,387	1,244,693
Pumps (hand and power) and pumping equipment	35	680	1,766	2,375	3,726	1,516,562	2,598,133	3,749,931	148,800	10,882,568	6,983,828
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	35	180	674	400	1,654	465,260	1,099,793	1,969,265	45,985	4,839,693	2,824,443
Regalia, badges, and emblems	16	72	288		130	207,064	319,782	742,698	7,789	1,796,353	1,045,860
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint	13	114	325		1,089	248,663	404,653	2,654,437	123,958	5,026,246	2,247,851
Rubber goods other than tires, inner tubes, and boots and shoes	45	721	5,441	7,470	21,992	2,162,217	6,942,510	14,830,644	717,868	32,762,472	17,213,000
Saddlery and harness	16	13	110		48	29,064	145,902	339,424	4,480	682,899	318,905
Sales and vaults	3	36	163		365	82,865	208,351	248,320	5,577	733,687	479,690
Salt	8	178	1,101	6,435	4,018	564,673	1,295,434	2,341,489	566,051	7,858,141	4,950,601
Sand-lime brick	3	12	78	26	1,225	39,210	107,200	91,437	28,162	327,173	207,574
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	114	116	616	85	2,920	301,648	1,019,469	10,256,309	167,529	13,506,415	3,082,577
Saws	12	53	228		796	184,393	280,308	395,525	28,890	1,558,060	1,133,645

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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
Scales and balances.....	9	128	525	-----	654	Dollars 454,540	Dollars 780,069	Dollars 886,714	Dollars 32,388	Dollars 2,785,043	Dollars 1,865,941
Screw-machine products and wood screws.....	21	82	525	-----	1,513	325,768	801,970	994,884	66,347	3,549,065	2,487,834
Sewing machines and attachments.....	15	43	145	72	77	120,151	232,465	156,943	5,925	1,024,969	862,091
Ship and boat building, steel and wooden, including repair work.....	98	1,095	10,811	3,801	62,638	3,133,542	19,532,507	12,997,091	810,235	46,480,225	32,672,299
Shirts.....	290	1,090	15,072	3,344	2,693	2,632,532	12,831,688	39,152,952	315,087	70,993,611	40,525,572
Signs and advertising novelties.....	265	828	3,203	185	2,696	2,470,457	5,378,420	5,933,810	100,445	20,169,661	14,075,406
Silk and rayon manufactures.....	157	894	10,261	4,728	17,809	2,433,240	11,020,501	55,363,077	804,244	90,238,425	34,071,104
Silversmithing and silverware.....	26	115	341	-----	500	202,958	731,049	1,062,390	27,094	2,627,039	1,537,555
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	11	75	272	-----	841	330,510	404,187	7,558,891	112,798	9,418,253	1,746,594
Soda.....	44	737	1,892	7,726	6,335	1,051,250	2,572,328	24,981,051	702,093	38,404,027	12,720,973
Soda-water apparatus.....	18	52	134	-----	285	183,455	254,152	769,444	9,001	1,504,391	725,946
Sporting and athletic goods, not including firearms or ammunition.....	46	183	1,330	130	1,176	395,960	1,497,502	2,524,978	53,055	6,212,019	3,633,986
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	8	37	173	245	572	136,027	280,683	462,633	45,375	1,178,564	670,556
Stamped ware, enameling, and lacquering.....	90	1,081	5,611	2,890	13,665	3,103,493	7,169,059	13,216,289	635,373	30,948,029	17,096,362
Stationery goods, not elsewhere classified.....	55	423	2,388	741	1,729	1,157,405	2,636,834	5,849,057	154,542	17,250,052	11,252,453
Statuary and art goods, factory product.....	34	88	495	-----	170	320,540	1,348,052	466,081	15,226	2,785,188	2,320,881
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	36	143	807	1,745	2,124	607,469	1,115,153	2,443,248	108,203	6,068,457	3,517,000
Steam fittings and steam and hot-water heating apparatus.....	34	559	4,286	810	21,079	1,430,963	6,646,199	6,973,898	524,550	22,033,198	14,534,750
Stereotyping and electrotyping, not done in printing establishments.....	47	453	2,471	145	6,414	1,663,023	5,225,328	2,426,240	336,690	13,111,046	10,348,126
Stoves and ranges (other than electric) and warm-air furnaces.....	36	355	1,994	300	6,303	1,021,907	2,092,110	3,103,538	293,236	9,877,601	6,480,897
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	314	1,803	6,854	3,054	20,029	5,495,012	12,708,051	25,520,458	476,669	55,981,010	29,977,883
Sugar refining, cane.....	5	495	4,352	18,760	2,884	1,253,025	6,274,231	112,321,401	2,012,589	137,432,214	23,097,924
Surgical and orthopedic appliances, including artificial limbs.....	77	230	1,045	-----	2,568	716,453	1,220,842	5,043,242	48,940	9,523,516	4,434,334
Suspenders, garters, and other elastic woven goods, made from purchased webbing.....	41	118	1,105	-----	239	401,413	1,133,218	5,043,881	23,734	7,942,300	2,874,685
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	10	103	254	305	1,110	366,800	464,890	2,965,367	121,903	4,798,467	1,711,927
Textile machinery and parts.....	18	46	245	-----	592	144,907	334,362	249,132	15,135	1,082,511	815,144
Theatrical scenery and stage equipment.....	20	64	201	-----	318	320,028	404,935	801,127	11,580	2,297,033	1,454,326
Tin cans and other tinware, not elsewhere classified.....	43	495	4,113	3,000	5,864	1,169,071	5,200,650	17,535,844	361,588	30,129,396	12,230,964
Tobacco: Chewing and smoking, and snuff.....	18	20	99	-----	146	44,574	90,871	363,425	5,827	1,076,367	707,115
Tools, not including edge tools, machine tools, files, or saws.....	84	371	2,660	1,273	7,489	1,101,977	4,112,059	4,107,833	483,024	15,312,059	10,721,802
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	180	656	4,032	705	3,319	1,745,175	5,102,798	9,984,841	226,979	23,223,068	13,011,248
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	452	1,052	5,492	12	1,840	2,692,718	7,327,330	14,438,405	266,128	32,071,471	17,366,938
Trunks, suitcases, and bags.....	141	397	1,832	160	1,049	1,096,826	2,707,427	5,080,094	60,310	12,609,371	6,569,467
Type founding.....	5	14	92	-----	150	45,831	106,461	5,608	5,608	320,964	222,799
Umbrellas, parasols, and canes.....	92	131	816	1	436	362,816	1,064,477	4,875,794	20,475	7,695,839	2,690,570
Vinegar and cider.....	45	55	247	711	1,380	112,001	269,177	1,009,038	61,562	2,668,607	997,917
Wall paper.....	15	214	1,219	1,130	1,592	703,826	1,422,171	2,684,767	128,069	6,966,071	4,152,635
Wall plaster, wall board, insulating board, and floor composition.....	40	256	1,885	710	37,888	680,255	2,860,604	6,784,593	1,208,479	17,290,052	9,296,080
Waste.....	15	44	381	120	2,203	177,563	420,261	1,412,301	48,128	2,596,923	1,136,409
Watches and clock materials and parts, except watchcases.....	3	4	17	-----	5	14,250	23,086	30,252	220	97,250	66,748
Watchcases.....	31	135	679	250	721	335,398	1,195,057	1,652,801	49,145	4,224,162	2,522,216
Whips.....	5	3	27	-----	46	3,000	23,398	22,891	1,567	93,026	68,568
Window and door screens and weather strip.....	35	73	209	5	446	207,719	206,695	571,568	18,135	1,439,220	849,517
Wire window shades and fixtures.....	115	212	1,325	2,000	1,450	599,929	1,626,023	5,344,002	118,189	10,229,721	4,766,930
Wire, drawn from purchased bars or rods.....	5	96	1,043	2,476	2,650	336,200	1,992,646	7,151,478	272,935	11,920,755	4,496,647
Wirework, not elsewhere classified.....	106	401	2,118	89	2,562	1,344,957	2,760,284	3,829,155	158,743	10,707,688	6,719,655
Wood distillation and charcoal manufacture.....	14	60	327	1,277	172	269,831	453,383	3,915,633	220,710	4,866,615	729,122
Wood preserving.....	6	81	390	185	263	146,357	447,115	4,882,933	25,769	6,278,271	1,399,569
Wood turned and shaped and other wooden goods, not elsewhere classified.....	107	253	1,774	4,308	4,247	783,960	2,165,108	3,235,957	123,634	8,749,350	5,389,729
Woolen goods.....	23	173	2,353	5,030	3,593	568,251	3,004,334	6,850,778	298,338	14,191,948	7,042,832
Wool shoddy.....	7	58	408	1,257	2,009	300,730	400,261	2,840,298	73,947	4,244,266	1,323,961
Worsted goods.....	13	195	3,952	10,187	2,080	591,221	3,033,571	11,145,020	300,220	17,054,700	6,499,620
Other industries.....	214	6,968	45,309	72,660	120,305	17,056,151	66,151,183	235,782,617	6,260,003	434,473,251	192,480,631

¹ 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.
² 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.
³ Not including data for 50,521 employees of central administrative offices, with salaries aggregating \$159,083,750. See GENERAL EXPLANATIONS—Persons Engaged.

CENSUS OF MANUFACTURES: 1929

TABLE 18.—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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

NEW YORK CITY INDUSTRIAL AREA

[This area comprises Bronx, Kings, New York, Queens, Richmond, and Westchester Counties, N. Y., and Bergen, Essex, Hudson, Middlesex, Passaic, and Union Counties, N. J. 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.]

INDUSTRY	36,401	203,034	918,206	813,623	1,359,266	Dollars 595,159,467	Dollars 1,416,881,044	Dollars 4,797,132,925	Dollars 116,504,479	Dollars 9,424,294,682	Dollars 4,510,697,278
All industries, total.....	36,401	203,034	918,206	813,623	1,359,266	595,159,467	1,416,881,044	4,797,132,925	116,504,479	9,424,294,682	4,510,697,278
Aircraft and parts.....	11	362	1,512		909	989,679	2,298,306	2,439,206	50,782	7,015,008	4,625,080
Artificial and preserved flowers and plants.....	119	230	1,762		274	611,265	2,022,750	2,953,423	36,926	8,349,344	5,858,095
Artificial leather.....	7	139	533	1,210	4,423	603,089	1,004,522	8,024,160	149,018	10,875,556	2,702,378
Artists' materials.....	30	103	290	28	370	359,646	420,064	1,459,755	20,050	3,145,911	1,066,106
Awnings, tents, sails, and canvas covers.....	174	245	972	90	497	732,080	1,566,796	3,774,336	45,836	8,149,403	4,320,231
Bags, other than paper, not made in textile mills.....	35	220	1,544	1,840	1,083	838,038	1,654,490	21,482,269	65,800	20,096,733	4,648,574
Bags, paper, exclusive of those made in paper mills.....	26	192	946		1,323	597,529	1,078,403	6,707,911	46,474	10,513,507	3,750,122
Baking powders, yeast, and other leavening compounds.....	11	155	832	12,796	1,881	570,184	1,260,820	5,075,075	334,757	10,470,280	5,060,454
Baskets and rattan and willow ware, not including furniture.....	21	38	232	75	62	109,059	299,640	306,407	7,014	1,043,355	630,964
Belting, leather.....	29	94	277	915	194	334,993	394,434	3,191,974	34,218	4,780,341	1,554,149
Beverages.....	355	959	3,462	19,553	8,766	2,850,279	5,999,228	9,937,093	1,008,761	31,545,253	20,699,409
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	27,938	4,447,947	2,731,527
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	10	183	1,012	1,940	2,927	609,204	1,778,889	2,474,184	145,609	7,034,064	4,414,871
Bookbinding and blank-book making.....	412	1,901	9,223	24	0,892	3,769,728	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.....	25	25	144		81	62,394	204,927	2,551,271	5,344	3,552,374	995,750
Boot and shoe findings, not made in boot and shoe factories.....	43	252	1,031	205	1,528	564,434	1,391,838	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	25,130,283	39,265,808	474,179	87,719,985	47,970,998
Boxes, cigar, wooden.....	10	55	584	90	442	229,357	628,012	701,568	18,930	1,027,642	1,207,044
Boxes, paper, not elsewhere classified.....	295	1,316	9,041	1,824	7,978	4,008,802	10,335,794	22,301,272	419,502	47,482,967	24,792,193
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	5,173,051
Bread and other bakery products.....	2,812	3,334	29,572	6,645	37,585	8,448,224	48,099,734	117,304,033	5,024,875	266,790,928	144,461,070
Brooms.....	20	9	57		104	17,673	98,391	290,306	4,601	633,226	238,319
Brushes, other than rubber.....	79	285	1,839	377	1,644	965,470	2,134,034	6,134,030	143,492	12,361,065	6,034,443
Buttons.....	104	265	2,381	685	2,453	734,186	2,746,614	3,783,204	145,232	9,585,049	5,656,613
Candles.....	7	32	215	98	100	163,394	282,346	868,413	14,404	1,844,612	961,706
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	2,717,223
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	75	352	1,850	561	2,523	1,047,603	1,993,785	19,356,045	136,480	31,202,826	11,710,301
Car and general construction and repairs, electric-railroad repair shops.....	34	675	7,940		14,880	1,556,762	13,865,658	7,628,585	558,747	23,030,724	15,440,392
Car and general construction and repairs, steam-railroad repair shops.....	40	796	9,048	9,643	9,515	2,037,206	16,310,108	8,369,684	684,422	27,404,050	18,340,944
Carbon paper and inked ribbons.....	16	118	310	456	1,187	441,107	457,808	1,809,118	37,168	4,052,012	2,295,726
Card cutting and designing.....	26	91	362		300	243,563	494,154	1,137,049	12,719	2,538,070	1,388,902
Carpets and rugs, rag.....	9	6	67		43	9,389	54,405	64,643	6,643	258,670	171,619
Carriages and sleds, children's.....	16	35	297		251	95,880	382,636	858,727	15,946	1,080,501	805,828
Carriages, wagons, sleighs, and sleds.....	6	51	129		295	174,702	307,309	984,341	9,947	1,909,667	917,429
Cash registers and adding, calculating, and card-tabulating machines.....	9	228	862		883	743,077	1,300,108	745,068	38,004	5,696,931	4,913,799
Caskets, coffins, burial cases, and other morticians' goods.....	29	146	881	677	1,816	544,000	1,259,702	2,934,845	64,389	7,548,008	4,549,374
Cheese.....	8	3	13	5	6	6,546	18,090	268,948	4,267	342,952	70,037
Chemicals, not elsewhere classified.....	141	2,919	11,416	44,302	41,651	8,933,088	17,839,481	72,494,129	4,092,650	135,534,320	69,245,111
China firing and decorating, not done in potteries.....	9	10	70		23	20,136	111,894	166,104	12,245	440,958	268,609
Chocolate and cocoa products, not including confectionery.....	17	255	1,396	4,050	8,291	711,321	1,696,644	13,350,751	409,790	19,814,060	6,053,619
Cigars and cigarettes.....	353	851	12,624	441	4,076	2,376,333	12,414,330	44,964,333	241,047	129,065,816	84,449,836
Clay products (other than pottery) and nonclay refractories.....	42	573	4,868	6,592	10,534	1,501,751	6,588,314	2,677,260	1,828,424	18,427,666	13,921,984
Cleaning and polishing preparations.....	68	428	673	450	1,794	1,200,795	828,912	3,010,316	60,893	10,269,340	6,586,131
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified).....	1,809	3,935	33,634	625	6,776	50,473,093	50,473,093	166,555,096	1,000,344	338,500,954	170,933,604
Clothing, men's, buttonholes.....	16	6	82	6	34	11,445	96,593	15,696	1,113	188,305	171,490
Clothing, women's, not elsewhere classified.....	5,781	19,205	104,202	21	18,755	63,156,261	166,968,722	723,673,594	3,132,148	1,313,449,686	586,643,944
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	69,342,466	896,370	84,222,194	17,438,352
Compressed and liquefied gases.....	16	209	404	1,814	4,235	462,910	723,318	564,960	343,194	4,745,841	3,840,717
Concrete products.....	166	321	1,362	840	6,836	919,466	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	9,243,993	26,143,698	775,678	53,821,460	26,992,184
Cooperage.....	28	99	1,061	1,496	914	320,218	1,493,970	4,202,021	73,201	7,051,718	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	23,815,971	13,928,868
Corbage and twine.....	12	219	2,058	6,025	6,166	596,167	2,299,595	6,652,209	212,167	12,512,810	6,643,444
Corsets and allied garments.....	128	767	4,873	150	1,104	2,531,648	5,017,044	14,856,070	96,595	20,104,281	14,151,610
Cotton goods.....	23	182	3,684	16,290	3,689	643,468	4,216,822	6,974,036	328,325	13,065,100	6,392,789
Cotton small wares.....	22	70	545	522	531	250,381	712,995	1,557,016	40,336	3,384,153	1,780,801

See footnotes at end of this section, p. 365.

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

[See note at head of this table]

Table with 12 columns: INDUSTRY, Number of establishments, Salaries, Wages, Horsepower (Rated Capacity) of Power Equipment (Prime movers, Electric motors), Cost of materials and containers for products, Cost of fuel and purchased electric energy, Value of products, Value added by manufacture.

NEW YORK CITY INDUSTRIAL AREA—Continued

Main data table listing various industrial sectors like Outlery, Dairy men's supplies, Dental goods, etc., with corresponding statistics in dollars.

See footnotes at end of this section, p. 365.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
NEW YORK CITY INDUSTRIAL AREA—Continued											
Minerals and earths, ground or otherwise treated..	10	29	135	180	1,103	82,935	192,731	981,451	65,173	1,907,391	860,767
Mirror and picture frames.....	55	178	790	-----	909	614,506	1,197,651	1,733,950	41,038	4,761,571	2,086,677
Mirrors, framed and unframed.....	82	275	1,289	160	1,485	773,133	2,162,730	3,609,802	95,077	8,295,889	4,691,010
Models and patterns, not including paper patterns.	117	186	834	79	1,232	640,361	1,585,400	877,659	51,939	4,738,241	3,808,643
Motion pictures, not including projection in theaters.....	36	1,243	2,142	439	3,278	6,407,085	4,202,893	11,010,041	210,260	48,076,980	36,856,005
Motor-vehicle bodies and motor-vehicle parts.....	132	1,029	5,869	4,432	12,865	2,618,903	10,093,181	20,266,823	514,282	37,498,266	10,727,161
Musical-instruments parts and materials: Piano and organ.....	18	143	701	1,160	1,207	376,932	812,551	838,209	62,567	2,779,207	1,878,491
Nonferrous-metal alloys and products, not including aluminum products.....	230	1,635	8,031	17,350	42,725	4,778,689	13,198,510	93,849,552	1,586,020	141,432,250	45,906,087
Oils, essential.....	6	27	83	280	39	111,427	143,898	1,650,062	34,451	2,228,153	543,040
Optical goods.....	44	207	1,000	7	935	700,176	1,460,274	1,086,601	59,268	5,042,573	3,296,644
Paints and varnishes.....	206	2,851	7,067	9,641	29,117	9,397,152	11,887,240	89,991,949	1,807,532	150,428,988	58,629,507
Paper.....	21	182	1,744	19,520	9,301	689,624	2,808,063	6,900,343	1,374,370	14,740,345	6,406,632
Paper goods, not elsewhere classified.....	108	888	4,171	4,773	4,448	2,084,380	4,858,293	16,849,074	312,251	35,750,312	18,597,987
Patent or proprietary medicines and compounds.....	219	1,666	3,327	2,681	5,576	5,423,866	4,020,218	19,266,644	366,920	69,279,903	49,646,390
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	5	76	173	920	568	268,241	318,223	425,271	44,130	1,603,930	1,194,520
Perfumes, cosmetics, and other toilet preparations.....	209	3,101	7,045	1,299	4,887	8,237,101	7,842,319	31,441,972	316,700	111,446,871	79,689,199
Phonographs.....	17	84	570	1,900	225	236,389	691,000	1,179,715	85,569	2,708,514	1,803,230
Photo-engraving, not done in printing establishments.....	92	976	3,052	-----	1,445	3,576,813	9,196,313	2,492,055	259,576	10,748,087	16,997,056
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	309	1,224	5,024	10,416	25,656	4,124,621	9,267,420	17,612,631	519,372	40,098,829	21,966,826
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	30	218	840	160	2,026	601,315	1,273,741	2,718,140	112,099	6,020,301	3,199,122
Pocketbooks, purses, and cardcases.....	189	840	6,126	-----	993	3,143,230	11,256,108	25,805,949	99,755	48,377,038	22,411,334
Pottery, including porcelain ware.....	12	110	765	445	1,817	358,817	1,172,816	239,820	219,976	3,005,003	2,606,167
Poultry killing, dressing, and packing, wholesale.....	28	50	202	100	113	134,164	261,262	3,420,277	8,030	4,318,441	890,128
Printing and publishing, book and job.....	2,345	12,123	30,726	719	37,933	34,706,874	61,282,400	66,358,235	2,039,000	266,166,006	207,768,465
Printing and publishing, music.....	61	804	491	-----	507	2,535,088	842,007	883,107	20,888	9,790,035	8,895,400
Printing and publishing, newspaper and periodical.....	926	28,911	15,714	2,184	34,084	70,326,161	42,808,859	81,491,652	1,761,282	304,928,832	311,675,898
Printing materials, not including type or ink.....	12	52	159	100	293	183,900	294,092	354,558	25,057	1,600,700	1,121,085
Pumps (hand and power) and pumping equipment.....	22	479	1,656	4,155	716	1,335,930	2,836,008	4,365,077	161,004	12,125,090	7,599,000
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	31	63	323	350	623	249,436	658,280	1,168,144	25,081	2,751,025	1,568,400
Regalia, badges, and emblems.....	18	66	205	3	161	143,539	230,502	5,649	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	9,870,630	20,217,004	892,010	47,958,017	20,848,904
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	79	130	488	-----	2,175	413,372	902,658	8,680,681	135,474	11,641,461	2,845,306
Saws.....	6	7	7	-----	29	-----	8,687	19,147	577	50,963	30,639
Screw-machine products and wood screws.....	19	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	80,600	3,043,956	24,258,410	14,617,536	958,499	54,491,895	38,015,020
Shirts.....	249	717	7,298	297	1,348	2,011,280	7,514,833	36,531,712	148,769	70,010,178	33,329,701
Signs and advertising novelties.....	289	863	3,140	577	1,806	2,451,366	5,087,213	5,896,089	131,931	19,532,174	13,503,504
Silk and rayon manufactures.....	703	1,924	22,990	4,447	21,582	5,912,908	29,349,017	94,276,342	1,233,936	166,384,955	70,825,215
Silversmithing and silverware.....	40	186	869	513	604	500,064	1,786,508	1,885,719	53,621	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	1,490	3,844	10,200	6,062	3,433,237	5,429,799	44,807,240	924,454	79,978,151	34,246,448
Soda-water apparatus.....	17	53	127	-----	310	194,000	244,285	702,286	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	1,523,517	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	108	111,124	221,753	251,108	36,653	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	6,909,069	12,112,488	573,341	30,275,947	17,590,118
Stationery goods, not elsewhere classified.....	47	332	1,622	311	1,143	1,105,930	2,100,844	3,525,033	68,639	8,935,148	5,346,176
Statuary and art goods, factory product.....	39	91	526	-----	179	332,692	1,404,316	507,467	19,956	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	653,044	1,925,101	68,411	4,324,410	2,330,907
Steam fittings and steam and hot-water heating apparatus.....	20	206	1,663	3,010	1,721	644,322	2,530,845	3,434,454	280,738	9,032,048	5,316,850
Stereotyping and electrotyping, not done in printing establishments.....	37	317	1,267	145	4,112	1,160,135	3,220,051	1,139,191	230,302	7,841,969	6,472,386
Stoves and ranges (other than electric) and warm-air furnaces.....	24	325	1,450	900	3,511	972,537	2,184,473	3,507,760	159,877	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	13,790,397
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	28	214	650	1,450	3,327	995,139	1,160,904	8,440,011	210,458	13,879,943	5,229,474
Textile machinery and parts.....	50	214	1,161	610	1,637	699,419	1,713,367	2,193,869	78,780	5,932,880	3,660,231
Theatrical scenery and stage equipment.....	20	64	201	-----	318	320,028	404,935	801,127	11,580	2,297,033	1,484,320
Tin cans and other tinware, not elsewhere classified.....	44	686	0,026	4,516	7,600	1,594,296	7,881,150	19,694,517	440,227	35,791,832	15,657,088
Tools, not including edge tools, machine tools, files, or saws.....	69	163	898	453	1,738	477,157	1,342,516	1,733,899	106,702	5,573,201	3,732,000

See footnotes at end of this section, p. 365.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
NEW YORK CITY INDUSTRIAL AREA—Continued											
Toys (not including children's wheel goods or sleds), games, and playground equipment	178	685	4,644	-----	2,230	Dollars 1,928,590	Dollars 5,804,289	Dollars 11,133,709	Dollars 234,508	Dollars 26,397,602	Dollars 15,020,445
Trimmings (not made in textile mills) and stamped art goods for embroidering	459	1,086	5,712	12	1,050	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	3,376,694	7,175,362	66,793	15,044,501	7,802,371
Typewriters and parts	6	107	567	-----	167	305,789	691,442	201,937	20,327	2,060,492	1,778,228
Vinegar and cider	4	2	10	15	57	(*)	7,349	35,907	3,140	66,192	27,152
Wall paper	9	145	875	1,347	898	451,808	1,004,163	1,636,112	61,233	4,317,141	2,019,796
Wall plaster, wall board, insulating board, and floor composition	26	123	606	685	13,190	390,102	1,127,921	2,707,001	423,571	8,023,237	4,802,065
Waste	13	80	319	1,049	1,321	355,843	322,634	2,518,296	47,536	3,629,433	1,063,002
Watch and clock materials and parts, except watch-cases	3	4	17	-----	5	14,250	23,086	30,282	220	97,250	60,748
Window and door screens and weather strip	40	87	270	5	558	252,163	400,607	679,390	23,240	1,861,485	1,158,855
Window shades and fixtures	122	156	596	-----	683	429,093	821,850	3,762,674	30,940	6,445,609	2,652,095
Wire, drawn from purchased bars or rods	12	212	1,770	4,100	5,754	689,739	3,240,063	7,973,106	500,255	16,093,936	7,020,485
Wirework, not elsewhere classified	106	461	2,521	510	3,551	1,501,315	3,524,174	5,641,260	197,740	14,730,129	8,900,129
Wood preserving	4	38	301	600	601	87,979	345,080	3,431,540	97,343	4,262,798	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
Worsted goods	8	926	6,119	24,125	1,392	2,516,279	7,518,480	16,263,450	441,037	31,540,184	14,845,607
Other industries	945	12,036	87,174	244,400	142,808	34,402,939	128,252,041	1,127,153,168	10,343,306	1,586,241,462	442,744,088

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.
^b 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.
¹ Includes data for 2 establishments located outside the New York City Industrial Area.
² Includes data for 3 establishments located outside the New York City Industrial Area.
³ Includes data for 1 establishment located outside the New York City Industrial Area.
⁴ Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

BUFFALO INDUSTRIAL AREA

[This area comprises Erie and Niagara Counties]

All industries, total	1,923	20,327	115,212	243,911	835,814	Dollars 52,859,806	Dollars 171,674,331	Dollars 603,025,355	Dollars 61,224,929	Dollars 1,157,751,878	Dollars 493,501,594
Aircraft and parts	6	416	2,031	-----	1,038	1,046,472	3,104,742	2,384,620	63,238	7,650,736	5,252,928
Awnings, tents, sails, and canvas covers	15	42	101	-----	51	97,497	120,091	231,945	3,870	584,115	343,600
Bags, other than paper, not made in textile mills	6	61	333	700	594	166,944	325,066	7,070,135	15,739	8,060,996	975,121
Baskets and rattan and willow ware, not including furniture	8	18	278	174	618	57,951	260,884	251,169	9,821	679,889	418,899
Beverages	46	61	199	115	1,132	135,628	281,342	455,601	40,392	1,387,025	891,032
Boxes, paper, not elsewhere classified	17	197	1,468	502	1,513	628,692	1,411,465	2,320,859	39,917	6,042,145	3,681,539
Boxes, wooden, except cigar boxes	5	18	205	150	560	40,008	205,704	674,201	10,470	1,154,031	469,380
Bread and other bakery products	241	211	2,775	2,118	2,601	431,476	3,722,320	10,226,759	933,319	24,255,064	13,694,989
Brooms	3	7	27	-----	25	10,325	24,838	47,694	1,567	120,067	70,306
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	28	73	347	980	565	153,024	255,735	1,178,565	26,240	1,839,840	685,026
Car and general construction and repairs, steam-railroad repair shops	22	523	5,006	1,956	11,093	1,382,868	10,321,344	8,905,152	356,707	20,976,180	11,714,321
Chemicals, not elsewhere classified	27	2,193	7,157	9,695	58,765	5,000,308	11,381,100	29,473,195	8,749,188	86,084,232	47,861,849
Cigars and cigarettes	14	-----	40	-----	25	-----	52,201	71,994	821	190,941	118,120
Clay products (other than pottery) and nonclay refractories	9	20	259	350	2,921	101,619	435,609	92,540	102,143	1,163,187	908,504
Cleaning and polishing preparations	12	89	165	50	589	133,505	174,859	581,529	21,922	1,532,672	920,221
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	36	168	1,842	20	316	624,840	1,722,054	4,021,434	29,125	7,966,026	3,015,467
Clothing, women's, not elsewhere classified	10	82	816	-----	184	208,209	555,141	1,504,336	0,611	3,120,520	1,600,613
Clothing, work (including sheep-lined and blanket-lined work coats, but not including shirts), men's	3	1	31	-----	14	(*)	22,917	61,361	757	114,169	52,051
Coffee and spice, roasting and grinding	9	20	54	-----	523	53,274	64,085	2,090,866	13,498	3,050,523	946,164
Concrete products	30	38	190	15	735	108,632	323,178	1,737,949	17,347	949,021	608,496
Confectionery	33	65	365	639	639	180,839	271,389	1,125,767	29,838	2,131,419	975,814
Cooperage	7	17	93	-----	171	51,247	165,760	536,907	10,202	907,772	360,663
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	21	54	194	-----	260	187,623	310,022	425,006	8,050	1,184,937	751,881
Cotton goods	4	38	368	225	608	119,191	384,552	1,367,222	30,555	2,518,965	1,116,188
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies	3	27	102	-----	270	63,543	146,893	220,335	4,898	627,466	402,233
Druggists' preparations	6	47	124	-----	395	170,871	156,868	520,655	12,832	1,222,020	688,533
Electrical machinery, apparatus, and supplies	24	860	3,949	1,050	19,965	1,394,366	5,323,357	15,615,800	925,360	32,340,988	15,799,826
Electroplating	12	16	113	20	309	45,948	173,621	36,214	12,019	395,526	347,293
Engines, turbines, tractors, and water wheels	5	383	1,226	3,530	8,612	829,685	2,201,709	2,428,428	164,137	10,224,443	7,633,880
Engraving, steel and copperplate, and plate printing	10	19	74	3	59	54,501	87,028	95,890	1,941	326,850	229,019
Envelopes	3	30	177	-----	232	122,508	194,410	594,162	6,082	1,123,658	523,414
Feeds, prepared, for animals and fowls	16	222	663	-----	10,245	470,901	946,098	34,887,058	141,354	40,397,019	5,369,507
Flavoring extracts and flavoring sirups	11	50	241	1,085	202	168,113	379,866	1,729,997	73,264	3,631,984	1,531,753
Flour and other grain-mill products	20	550	1,251	908	27,128	1,565,382	2,050,645	70,375,051	544,658	82,682,169	11,702,460

See footnotes at end of this section, p. 366.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
Food preparations, not elsewhere classified	13	7	40		112	Dollars 10,349	Dollars 70,508	Dollars 776,076	Dollars 7,261	Dollars 1,009,956	Dollars 220,618
Forgings, iron and steel, not made in plants operated in connection with rolling mills	5	76	618	70	4,033	202,738	1,024,619	2,300,197	135,169	5,128,566	2,003,200
Foundry and machine-shop products, not elsewhere classified	134	1,345	7,318	417	36,599	3,699,414	11,987,767	16,026,239	1,136,936	44,859,237	27,196,062
Fur goods	21	23	143		48	176,601	462,432	7,639	889,050	418,932	
Furniture, including store and office fixtures	40	607	2,400	645	4,700	1,369,779	3,298,107	4,704,532	152,753	12,968,103	8,110,818
Gloves and mittens, leather	6	5	37		19	5,253	44,093	181,181	1,152	228,393	100,000
Groase and tallow, not including lubricating greases	5	15	72		885	81,834	107,174	552,980	22,159	908,390	333,251
Hats and caps, except felt and straw, men's	5	14	89		13	32,577	82,319	188,817	1,464	878,110	187,829
Ice, manufactured	20	39	174		8,583	139,695	284,559	55,489	137,130	1,436,081	1,243,456
Instruments, professional and scientific	4	9	19		27	20,675	22,973	42,902	873	117,606	73,695
Iron and steel: Steel works and rolling mills	13	1,417	12,445	9165, 678	320,291	4,111,324	21,140,143	45,870,113	10,070,300	106,262,000	50,321,532
Jewelry	21	54	220		107	161,224	350,639	712,664	4,873	1,678,555	961,028
Knit goods	7	51	704	310	371	165,256	764,989	2,416,121	17,621	3,942,213	1,508,471
Leather: Tanned, curried, and finished	3	34	255	10	1,366	110,752	344,748	2,340,780	35,755	3,242,516	806,080
Lithographing	5	72	448	290	600	276,417	640,916	1,221,158	23,406	2,900,988	1,650,424
Macaroni, spaghetti, vermicelli, and noodles	6	14	70		414	24,738	67,148	330,553	10,229	549,289	208,507
Machine-tool accessories and small metal-working tools, not elsewhere classified	8	21	154	10	355	70,481	280,481	91,128	8,329	594,794	405,387
Malt	4	14	61	00	2,311	84,304	124,687	2,122,688	67,667	2,923,988	733,633
Marble, granite, slate, and other stone products	9	47	224		1,461	134,890	327,368	476,339	19,097	1,277,787	782,361
Mattresses and bed springs, not elsewhere classified	9	44	175		330	110,855	241,635	519,639	10,511	1,285,958	755,803
Meat packing, wholesale	34	395	1,698	1,028	5,074	986,837	2,227,792	41,595,573	229,781	48,612,533	6,787,179
Millinery	6	21	137		99	55,531	125,775	311,553	2,493	670,707	265,061
Minerals and earths, ground or otherwise treated	4	35	175		1,816	142,403	270,452	997,503	72,141	2,878,499	1,808,855
Models and patterns, not including paper patterns	12	7	66		197	23,761	136,262	58,760	3,042	306,672	244,870
Motor-vehicle bodies and motor-vehicle parts	27	669	7,129		14,473	2,080,554	11,452,069	29,283,935	336,052	55,137,748	25,517,701
Motor vehicles, not including motorcycles	5	800	6,000	4,492	10,815	2,356,057	9,293,738	71,833,653	319,015	105,288,917	33,080,249
Nonferrous-metal alloys and products, not including aluminum products	19	301	2,255	796	22,587	764,435	3,305,054	10,711,200	573,199	28,966,545	8,082,146
Paints and varnishes	13	134	433		2,495	379,046	580,358	4,151,219	114,271	9,381,634	5,116,146
Paper	14	293	1,922	9,152	54,417	641,264	2,823,959	13,027,955	1,203,684	23,891,734	9,000,105
Patent or proprietary medicines and compounds	23	185	460	250	1,579	625,306	590,887	3,188,755	75,102	7,541,475	4,277,528
Perfumes, cosmetics, and other toilet preparations	10	65	134	125	172	189,884	127,112	839,077	14,931	2,541,697	1,687,689
Photo-engraving, not done in printing establishments	8	52	132		320	193,512	306,337	83,747	9,786	889,227	705,604
Planing-mill products (including general mill-work, not made in planing mills connected with sawmills)	50	222	874	2,045	7,888	613,992	1,272,899	2,587,227	128,154	5,507,075	2,701,694
Printing and publishing, book and job	127	476	1,849	10	2,557	1,210,153	2,786,654	3,372,323	83,058	10,864,718	7,409,337
Printing and publishing, newspaper and periodical	52	1,093	1,162	35	3,300	2,156,863	2,305,356	3,754,430	95,300	13,305,925	9,459,135
Pulp (wood and other fiber)	5	35	331			89,753	487,657	2,176,731	350,657	4,136,019	1,008,631
Pumps (hand and power) and pumping equipment	7	96	246		1,152	222,392	390,966	778,790	24,069	2,349,879	1,547,020
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint	4	52	197		1,153	94,728	228,399	1,511,930	69,612	3,002,649	1,421,107
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	26	25	189	25	679	52,180	288,293	2,850,709	30,548	3,641,603	760,346
Shirts	7	44	273		78	81,880	210,612	443,798	4,834	2,201,888	472,250
Signs and advertising novelties	14	124	405		287	343,787	689,972	530,391	19,510	920,993	1,742,086
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	8	242	1,438		6,156	673,426	2,129,897	3,436,536	213,745	6,917,216	3,260,935
Steam fittings and steam and hot-water heating apparatus	6	308	2,432	225	15,102	806,618	3,824,302	3,851,914	237,720	10,395,931	6,306,297
Stereotyping and electrotyping, not done in printing establishments	3	16	57		186	79,206	121,826	42,075	5,132	350,278	303,071
Stoves and ranges (other than electric and warm-air furnaces)	7	45	200		399	169,048	296,776	438,749	16,428	1,270,726	824,549
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	20	221	1,012	80	6,603	575,971	1,536,100	4,825,705	73,126	8,025,755	3,126,924
Tools, not including edge tools, machine tools, files, or saws	12	168	1,055		3,428	490,957	1,723,438	1,539,447	280,844	6,131,652	4,311,361
Toys (not including children's wheel goods or sleds), games, and playground equipment	5	39	180		1,133	116,891	224,666	319,208	19,688	875,840	536,944
Vinegar and cider	3	2	10	87	73	(^c)	7,952	67,400	1,650	96,116	20,065
Wall plaster, wall board, insulating board, and floor composition	9	94	519	244	8,593	217,974	773,923	2,541,450	310,975	5,375,160	2,522,735
Window shades and fixtures	3	5			2	5,696	19,928	19,928		37,676	17,648
Wirework, not elsewhere classified	9	40	197		308	140,880	212,032	285,159	7,136	212,450	429,155
Other industries	297	3,660	23,115	32,087	128,966	9,550,559	32,034,427	99,273,094	32,561,881	236,786,351	104,961,876

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.^c Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."^d 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.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

ROCHESTER INDUSTRIAL AREA

[This area is coextensive with Monroe County]

	1,052	11,956	63,248	48,902	91,812	Dollars 32,328,501	Dollars 88,898,033	Dollars 160,861,237	Dollars 7,012,952	Dollars 420,610,921	Dollars 252,736,732
All industries, total.....	1,052	11,956	63,248	48,902	91,812	32,328,501	88,898,033	160,861,237	7,012,952	420,610,921	252,736,732
Awnings, tents, sails, and canvas covers.....	8	21	76	53	53	42,662	68,250	117,750	3,527	202,903	171,617
Beverages.....	18	28	74	90	292	57,461	117,271	195,303	31,554	584,630	367,782
Bookbinding and blank-book making.....	0	30	192	163	163	162,118	258,921	310,954	7,232	922,885	598,699
Boot and shoe findings, not made in boot and shoe factories.....	4	12	137	84	84	33,596	95,110	269,621	5,970	498,165	222,574
Boots and shoes, other than rubber.....	27	430	4,300	740	1,609	1,102,407	4,832,254	7,789,598	77,958	18,567,042	10,690,516
Boxes, paper, not elsewhere classified.....	10	152	1,186	485	440	480,214	1,283,853	1,006,189	39,583	4,065,445	2,719,673
Bread and other bakery products.....	132	91	1,049	16	1,034	159,310	1,590,561	3,751,155	177,325	7,705,068	3,337,188
Brooms.....	3	1	30	23	23	(?)	31,340	89,352	1,510	151,800	60,938
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	32	292	1,492	718	2,910	718,307	1,470,160	11,910,654	145,464	17,331,150	5,275,041
Carbon paper and inked ribbons.....	7	104	197	200	301	383,717	302,597	1,453,558	20,225	2,046,866	1,473,026
Caskets, coffins, burial cases, and other morticians' goods.....	4	15	104	60	220	49,804	129,252	271,303	8,636	655,204	376,325
Cigars and cigarettes.....	7	2	24	4	4	(?)	18,034	19,450	402	63,703	43,842
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	39	888	10,647	700	1,468	2,864,133	12,020,871	21,695,500	138,703	47,724,512	25,990,249
Clothing, women's, not elsewhere classified.....	8	5	90	10	10	17,680	78,870	172,492	1,042	367,497	193,363
Coffee and spice, roasting and grinding.....	5	13	54	318	320	32,320	64,880	3,060,580	11,932	4,170,067	1,007,555
Concrete products.....	13	30	127	30	418	88,701	207,091	220,832	13,789	606,957	462,336
Confectionery.....	12	62	393	440	440	182,383	351,942	800,572	27,112	1,773,103	939,419
Cooperage.....	4	2	25	7	7	(?)	22,033	74,751	823	110,098	34,524
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	11	36	177	104	104	126,654	230,155	311,228	7,513	856,403	537,062
Cutlery (not including silver and plated cutlery) and edge tools.....	5	9	81	620	620	22,684	100,783	122,508	6,200	340,496	211,068
Electrical machinery, apparatus, and supplies.....	17	1,310	5,180	2,005	7,456	3,322,180	7,800,307	13,123,012	338,365	34,822,368	21,300,381
Electroplating.....	7	3	59	124	124	8,502	89,537	28,110	2,969	192,490	161,411
Engraving, steel and copperplate, and plate printing.....	7	41	88	49	49	80,757	100,754	182,101	2,500	619,771	435,020
Flavoring extracts and flavoring sirups.....	12	133	243	434	280	530,420	287,029	2,700,610	28,294	6,787,066	4,028,153
Flour and other grain-mill products.....	11	28	77	1,666	658	49,040	90,016	2,289,800	25,934	2,950,660	685,323
Foundry and machine-shop products, not elsewhere classified.....	66	745	3,331	3,755	7,019	1,998,123	5,110,707	6,245,148	440,858	22,864,170	16,168,164
Fur goods.....	5	9	69	6	6	27,035	81,517	111,755	2,404	202,690	178,531
Furniture, including store and office fixtures.....	33	286	1,723	1,620	2,328	1,060,793	2,941,154	3,469,791	118,579	9,914,682	6,826,212
Glass products (except mirrors) made from purchased glass.....	7	18	80	38	38	30,327	93,193	100,544	5,022	412,180	306,614
Hardware not elsewhere classified.....	6	61	235	375	375	163,265	322,586	254,020	18,662	1,071,080	798,089
Ice cream.....	20	40	111	150	921	120,662	239,700	771,494	40,908	1,883,184	1,070,782
Ice, manufactured.....	7	30	600	3,750	81,535	81,535	114,661	24,691	94,140	655,803	536,072
Lithographing.....	6	103	746	1,660	795	600,652	1,151,434	1,200,422	63,259	3,864,623	2,600,945
Macaroni, spaghetti, vermicelli, and noodles.....	8	11	63	201	201	20,347	59,660	418,692	20,211	680,639	247,736
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	16	22	254	305	305	95,168	556,745	116,504	15,751	1,163,184	1,030,929
Machine tools.....	0	453	1,671	1,000	3,702	1,164,720	2,834,091	2,159,085	115,028	11,438,814	6,162,901
Mattresses and bed springs, not elsewhere classified.....	4	18	62	131	131	44,593	80,291	278,584	4,167	498,404	215,553
Mirrors, framed and unframed.....	3	1	12	40	17	(?)	20,100	52,600	893	97,792	44,390
Models and patterns, not including paper patterns.....	7	7	34	57	57	16,697	49,814	14,142	1,510	137,580	121,634
Nonferrous-metal alloys and products, not including aluminum products.....	11	41	234	175	468	120,242	370,082	1,242,329	33,860	1,981,820	706,131
Optical goods.....	8	395	3,918	56	6,385	1,269,958	5,654,424	3,623,007	343,107	14,043,830	10,171,966
Paints and varnishes.....	3	9	10	23	23	20,455	15,610	59,307	1,001	99,181	38,783
Paper.....	4	26	154	2,385	1,222	77,442	236,094	855,824	149,921	1,627,381	622,136
Paper goods, not elsewhere classified.....	6	26	49	160	262	67,373	268,550	10,132	10,132	540,047	201,305
Patent or proprietary medicines and compounds.....	13	42	45	67	67	104,055	58,018	283,344	4,469	1,146,363	857,550
Photo-engraving, not done in printing establishments.....	5	19	79	72	72	88,130	236,519	37,945	5,264	541,248	498,039
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	10	88	436	1,776	1,834	282,320	707,516	926,415	48,637	2,186,190	1,211,138
Printing and publishing, book and job.....	75	430	943	1,323	1,323	1,158,553	1,849,079	2,040,123	62,198	8,232,529	6,130,248
Printing and publishing, newspaper and periodical.....	23	727	598	3	1,420	1,419,751	1,233,631	1,516,168	59,037	7,787,753	6,216,543
Pumps (hand and power) and pumping equipment.....	5	48	115	46	696	180,013	123,863	354,076	9,629	800,272	436,507
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	11	5	50	60	434	16,040	73,479	1,072,142	28,979	1,342,354	241,263
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	6	154	630	1,226	350,651	749,516	1,326,904	39,014	3,604,257	2,238,339	
Stationery goods, not elsewhere classified.....	3	3	24	32	6,450	22,550	16,900	1,115	88,154	70,139	
Stereotyping and electrotyping, not done in printing establishments.....	4	15	27	202	54,483	54,106	21,534	6,399	206,060	177,627	
Stoves and ranges (other than electric) and warm-air furnaces.....	5	66	314	300	1,111	200,155	406,692	330,721	45,305	1,223,253	847,137
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	7	67	256	185	911	227,821	438,107	972,644	17,610	2,021,188	1,030,934
Vinegar and cider.....	8	17	64	190	343	46,326	70,959	311,286	19,239	571,094	240,569
Wirework, not elsewhere classified.....	3	12	33	31	29,154	46,722	37,239	1,912	163,999	124,848	
Wood turned and shaped and other wooden goods, not elsewhere classified.....	4	3	13	72	17,680	21,845	53,557	2,002	112,939	57,380	
Other industries.....	217	4,207	20,685	27,008	34,553	10,810,952	30,504,508	57,660,633	4,053,921	161,493,733	99,779,179

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

^c 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—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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

ALBANY-SCHENECTADY-TROY INDUSTRIAL AREA

[This area comprises Albany, Rensselaer, and Schenectady Counties. 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 industries—namely, "Electrical machinery, apparatus, and supplies" and "Locomotives, not made in railroad repair shops"—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.....	699	9,696	63,112	104,852	210,822	Dollars 23,762,871	Dollars 90,807,246	Dollars 170,182,395	Dollars 9,567,669	Dollars 367,471,954	Dollars 187,721,890
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ALBANY 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, "Car and general construction and repairs, steam-railroad repair shops"—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.....	370	3,204	21,954	22,791	67,010	Dollars 8,790,160	Dollars 30,321,674	Dollars 56,855,451	Dollars 2,717,022	Dollars 127,774,340	Dollars 68,201,807
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BRONX COUNTY (BRONX BOROUGH, NEW YORK CITY)

All industries, total.....	1,204	5,175	24,958	7,399	58,062	Dollars 15,490,793	Dollars 40,513,431	Dollars 67,863,381	Dollars 5,158,040	Dollars 170,326,909	Dollars 103,305,578
Awnings, tents, sails, and canvas covers.....	19	34	147	56	56	113,265	277,532	517,486	4,865	1,367,007	844,656
Beverages.....	18	51	152	830	1,454	122,016	241,505	814,175	65,284	1,840,403	977,034
Boxes, paper, not elsewhere classified.....	4	11	115	89	89	55,500	122,212	168,511	3,354	445,348	273,483
Bread and other bakery products.....	295	303	2,603	1,405	2,692	752,809	4,987,900	11,730,001	593,391	24,614,276	12,281,224
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	12	25	358	194	194	97,651	419,486	438,167	17,663	1,157,033	701,253
Clothing, women's, not elsewhere classified.....	74	109	1,405	328	328	279,278	1,515,365	2,019,174	36,357	4,902,230	2,846,090
Concrete products.....	17	43	123	29	1,113	114,811	257,233	219,628	22,054	855,004	613,322
Confectionery.....	5	9	58	9	31	34,191	75,114	197,674	10,066	441,082	233,342
Doors, shutters, and window sash and frames, metal.....	12	04	222	30	894	238,213	465,128	1,038,207	23,938	2,518,174	1,456,020
Druggists' preparations.....	5	11	78	80	80	63,430	85,627	479,268	6,020	763,456	278,168
Embroideries.....	21	32	197	53	53	61,644	278,936	108,172	7,550	651,054	535,332
Food preparations, not elsewhere classified.....	9	13	57	97	97	45,997	70,356	609,574	6,375	914,980	298,537
Foundry and machine-shop products, not elsewhere classified.....	20	431	1,657	220	5,031	1,280,698	3,205,045	1,407,412	125,727	9,089,445	7,556,366
Furniture, including store and office fixtures.....	33	122	448	140	847	390,395	811,767	1,797,719	34,992	3,791,114	1,958,463
Furs, dressed.....	4	30	158	383	383	121,113	303,838	233,465	17,866	855,369	604,028
Gas and electric fixtures; lamps, lanterns, and reflectors.....	5	16	48	64	64	38,430	70,361	127,472	3,693	312,591	181,426
House-furnishings goods, not elsewhere classified.....	9	29	115	63	63	79,618	137,992	640,670	4,375	1,099,317	454,272
Ice, manufactured.....	12	42	292	870	13,851	149,645	596,874	182,806	444,448	2,477,241	1,849,987
Knit goods.....	21	124	497	333	333	413,493	648,948	1,266,292	23,017	3,008,982	1,809,673
Macaroni, spaghetti, vermicelli, and noodles.....	6	6	44	39	118	18,600	50,379	213,807	9,547	405,020	181,675
Marble, granite, slate, and other stone products.....	34	123	643	5,442	5,442	647,954	1,830,252	1,438,467	90,928	4,793,083	3,263,688
Mattresses and bed springs, not elsewhere classified.....	20	22	54	128	128	65,149	98,582	349,044	6,575	741,801	385,342
Nonferrous-metal alloys and products, not including aluminum products.....	8	29	104	343	343	90,274	190,358	439,825	22,604	981,758	519,239
Paper goods, not elsewhere classified.....	5	77	269	451	451	235,913	340,032	1,121,906	24,118	2,643,052	1,497,028
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	23	102	326	201	993	308,468	680,387	1,540,690	32,457	3,335,993	1,762,840
Printing and publishing, book and job.....	60	72	200	316	316	167,030	313,172	430,058	15,496	1,320,761	875,197
Printing and publishing, newspaper and periodical.....	11	408	332	474	474	712,107	764,528	783,203	19,309	3,188,736	2,381,224
Ship and boat building, steel and wooden, including repair work.....	10	137	1,153	870	2,580	529,867	2,171,115	1,953,826	52,991	5,583,803	3,576,986
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	54	219	795	210	1,945	884,271	1,821,328	3,203,763	55,757	7,816,516	4,496,906
Window shades and fixtures.....	14	7	23	75	75	12,742	33,868	203,577	1,201	352,613	147,835
Wirework, not elsewhere classified.....	4	20	164	216	216	79,754	197,319	458,073	5,217	945,662	482,372
Other industries.....	360	2,455	12,056	2,546	17,288	7,286,418	17,644,902	31,660,709	3,370,215	83,022,900	47,991,976

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

BROOME 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, "Boots and shoes, other than rubber"—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.....	217	2,406	24,037	10,019	39,343	Dollars 5,159,900	Dollars 31,359,230	Dollars 82,113,242	Dollars 1,663,148	Dollars 150,263,407	Dollars 60,487,017
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CHAUTAUQUA COUNTY

All industries, total.....	204	2,200	15,508	17,123	40,347	Dollars 5,992,573	Dollars 22,161,598	Dollars 46,962,045	Dollars 1,689,713	Dollars 97,732,181	Dollars 49,080,423
Baskets and rattan and willow ware, not including furniture.....	9	7	103	425	246	4,050	92,934	128,750	4,632	327,496	194,114
Beverages.....	7	20	176	375	403	41,400	175,563	1,112,575	18,083	2,295,164	1,164,606
Bread and other bakery products.....	24	11	101	-----	232	27,124	232,031	824,141	23,276	1,231,914	684,497
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	12	68	487	383	911	176,670	307,356	2,194,012	37,754	3,694,852	1,463,086
Doors, shutters, and window sash and frames, metal.....	4	232	1,163	1,160	1,611	677,029	2,000,103	2,070,501	55,819	6,676,243	4,549,923
Flour and other grain-mill products.....	10	3	8	72	316	3,860	7,239	163,649	2,641	223,129	61,839
Foundry and machine-shop products, not elsewhere classified.....	16	147	854	300	2,852	288,803	1,249,976	1,301,541	104,698	5,672,584	4,166,350
Furniture, including store and office fixtures.....	51	707	4,882	3,741	9,632	2,231,768	7,984,439	11,421,547	284,445	27,338,893	16,132,901
Ice cream.....	5	8	26	65	193	20,156	34,463	110,372	7,299	276,265	158,594
Ice, manufactured.....	3	6	24	-----	560	12,731	32,120	3,811	14,257	95,306	77,238
Lumber and timber products, not elsewhere classified.....	12	16	186	840	401	42,673	219,603	503,458	11,528	997,899	482,913
Macaroni, spaghetti, vermicelli, and noodles.....	3	5	17	-----	142	10,470	16,321	88,371	3,513	143,709	51,825
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	10	45	229	408	1,885	127,945	329,734	1,155,103	24,487	1,890,251	680,061
Printing and publishing, book and job.....	15	18	85	-----	131	61,640	113,098	107,478	6,167	416,244	302,601
Printing and publishing, newspaper and periodical.....	12	116	107	80	272	267,772	195,006	140,187	9,512	1,027,761	878,062
Tools, not including edge tools, machine tools, files, or saws.....	3	59	605	-----	1,807	172,004	971,400	621,377	92,395	2,649,313	1,935,541
Worsted goods.....	6	58	1,973	3,092	1,114	172,369	1,887,970	5,680,988	148,576	8,445,833	2,610,271
Other industries.....	92	674	4,392	6,183	17,584	1,673,140	6,111,086	19,628,188	840,036	33,954,325	13,685,601

ERIE 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.....	1,630	15,472	92,607	225,687	656,046	Dollars 41,801,813	Dollars 138,693,934	Dollars 609,450,310	Dollars 48,392,050	Dollars 945,571,524	Dollars 387,729,164
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FULTON COUNTY

All industries, total.....	295	946	9,079	5,226	11,030	Dollars 2,882,266	Dollars 10,052,161	Dollars 26,458,588	Dollars 698,797	Dollars 51,135,115	Dollars 23,977,730
Boxes, paper, not elsewhere classified.....	7	6	64	-----	43	19,420	65,118	108,660	2,908	266,400	154,744
Bread and other bakery products.....	10	7	80	-----	75	6,622	109,511	284,874	17,154	517,286	215,258
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	4	4	31	-----	7	5,400	34,944	106,182	501	178,670	71,807
Foundry and machine-shop products, not elsewhere classified.....	4	11	40	-----	96	24,255	63,203	56,600	4,075	202,779	142,104
Fur goods.....	7	2	79	-----	17	(³)	84,186	273,082	1,436	418,117	143,599
Gloves and mittens, cloth or leather and leather combined, made from purchased fabrics.....	11	0	151	-----	52	10,996	148,012	243,661	4,543	528,086	279,882
Gloves and mittens, leather.....	138	426	4,028	293	960	1,092,268	5,337,891	11,281,668	94,856	22,665,432	11,288,908
Knit goods.....	12	112	1,092	800	1,756	370,019	1,023,350	2,687,550	114,937	5,359,355	2,556,868
Leather: Tanned, curried, and finished.....	37	172	1,503	2,942	5,888	802,907	1,909,536	7,287,580	227,583	12,777,109	5,261,646
Lumber and timber products, not elsewhere classified.....	6	3	48	591	5	3,200	46,301	49,003	283	138,270	88,984
Printing and publishing, book and job.....	6	3	13	-----	25	7,029	18,716	18,938	1,389	85,292	64,965
Other industries.....	47	191	1,055	600	2,106	530,252	1,211,394	4,060,490	228,954	7,998,319	3,708,876

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

³ 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—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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

HERKIMER 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, "Typewriters and parts"—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.....	115	1,334	11,246	20,057	20,600	Dollars 3,297,307	Dollars 13,159,972	Dollars 17,043,241	Dollars 936,431	Dollars 53,195,981	Dollars 34,616,309
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^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.
^b 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.

KINGS COUNTY (BROOKLYN BOROUGH, NEW YORK CITY)

All industries, total.....	5,818	23,268	146,648	101,946	293,044	Dollars 78,237,061	Dollars 214,949,571	Dollars 571,059,876	Dollars 21,124,386	Dollars 1,214,090,535	Dollars 621,906,273
Awnings, tents, sails, and canvas covers.....	36	26	149	-----	87	89,589	252,634	583,392	6,355	1,354,993	785,246
Beverages.....	109	235	1,045	4,510	3,210	774,437	1,653,660	3,042,429	366,963	9,810,520	6,401,137
Bookbinding and blank-book making.....	24	220	1,509	-----	662	501,233	1,907,684	3,041,891	61,222	6,233,950	3,130,837
Boots and shoes, other than rubber.....	141	1,079	9,379	475	4,797	3,640,128	15,496,850	22,947,213	265,173	51,421,132	23,208,746
Boxes, paper, not elsewhere classified.....	90	480	3,187	516	3,113	1,712,881	3,714,848	9,163,301	162,993	18,529,858	9,203,594
Boxes, wooden, except cigar boxes.....	13	42	233	25	956	112,527	303,695	846,968	27,013	1,740,622	866,641
Bread and other bakery products.....	802	599	5,724	170	8,902	1,756,147	10,536,893	27,507,851	1,207,160	58,495,742	20,780,731
Brushes, other than rubber.....	14	27	322	-----	377	62,352	424,649	1,239,517	17,948	2,134,920	877,455
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	23	120	983	195	682	374,274	980,930	9,080,594	45,731	13,002,427	3,276,102
Carrriages, wagons, sleighs, and sleds.....	3	8	16	-----	34	17,760	20,214	41,897	1,492	103,361	59,972
Caskets, coffins, burial cases, and other morticians' goods.....	6	41	202	-----	887	158,396	332,684	609,808	19,477	2,170,520	1,541,244
Chemicals, not elsewhere classified.....	20	207	952	1,479	1,858	1,100,989	1,381,011	7,623,990	321,912	15,173,943	7,228,041
Cleaning and polishing preparations.....	20	264	391	450	1,159	637,055	490,401	2,075,408	32,380	6,317,963	4,210,169
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	347	235	7,721	-----	1,773	891,513	10,235,012	5,337,142	245,553	20,731,369	15,148,674
Clothing, men's, buttonholes.....	6	-----	24	-----	11	-----	31,149	6,206	462	58,586	51,919
Clothing, women's, not elsewhere classified.....	543	426	9,114	8	2,027	1,050,052	9,514,212	15,538,854	195,379	33,764,601	18,300,368
Coffee and spice, roasting and grinding.....	19	267	717	15	3,076	619,701	885,293	36,192,526	173,048	42,398,627	6,032,953
Concrete products.....	20	23	120	-----	423	88,966	214,722	263,545	14,431	954,326	676,350
Confectionery.....	61	441	3,124	1,055	4,212	1,178,400	2,772,341	7,985,143	259,905	16,478,817	8,233,769
Cooperage.....	8	25	340	505	22	59,323	435,149	1,709,125	13,291	2,578,827	856,411
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	88	279	1,071	-----	1,440	969,079	2,004,636	3,197,960	66,124	7,978,180	4,714,066
Cork products.....	15	77	854	815	1,173	166,977	935,005	2,561,648	77,606	5,039,401	2,400,057
Doors, shutters, and window sash and frames, metal.....	20	169	847	125	1,401	598,960	2,046,531	2,724,922	36,910	7,086,869	4,325,023
Druggists' preparations.....	13	47	167	-----	81	311,219	184,008	1,083,201	17,623	2,825,015	1,724,191
Dyeing and finishing textiles.....	42	219	1,824	800	2,827	739,516	1,822,586	3,370,245	368,149	8,161,364	4,422,070
Electrical machinery, apparatus, and supplies.....	48	729	4,024	375	5,099	1,952,756	5,366,728	10,266,503	254,538	25,013,688	14,492,647
Electroplating.....	9	12	82	-----	213	22,637	122,060	60,387	9,259	275,622	215,976
Embroideries.....	25	20	183	-----	89	34,169	198,121	212,206	7,032	617,980	398,743
Engravers' materials.....	5	20	51	-----	209	51,411	80,637	480,616	7,913	778,479	283,950
Fancy and miscellaneous articles, not elsewhere classified.....	53	120	907	100	845	378,619	1,148,314	2,271,890	64,348	5,120,934	2,784,696
Flavoring extracts and flavoring sirups.....	34	93	232	260	309	374,220	324,203	2,662,598	34,714	4,840,268	2,142,946
Food preparations, not elsewhere classified ^a	30	578	944	435	1,614	1,740,602	1,228,345	7,551,615	97,742	14,229,352	6,579,995
Foundry and machine-shop products, not elsewhere classified.....	162	1,920	8,588	1,262	24,948	5,771,468	15,016,061	12,395,960	725,594	50,255,745	37,134,191
Fur goods.....	100	46	214	-----	142	97,074	445,937	1,534,474	14,063	2,869,803	1,821,328
Furnishing goods, men's, not elsewhere classified.....	24	28	625	-----	146	65,485	659,262	1,660,933	15,725	3,323,001	1,647,243
Furniture, including store and office fixtures.....	212	692	3,617	682	8,919	2,424,684	7,148,742	14,224,231	239,329	31,353,432	16,889,376
Furs, dressed.....	51	256	1,865	80	3,100	1,129,298	3,532,334	1,240,346	130,227	8,290,100	6,919,527
Gas and electric fixtures; lamps, lanterns, and reflectors.....	42	226	1,551	225	1,410	751,180	2,397,964	3,633,050	94,495	8,864,374	5,136,829
Glass products (except mirrors) made from purchased glass.....	20	19	111	80	37	57,669	195,080	220,596	6,525	686,447	459,326
Hardware not elsewhere classified.....	12	105	903	359	978	408,448	1,120,197	903,416	64,235	3,192,718	2,225,007
House-furnishing goods, not elsewhere classified.....	91	144	900	-----	1,167	358,845	1,115,574	5,326,617	58,331	8,869,322	3,485,474
Ice cream.....	55	152	595	70	7,139	404,003	970,551	5,137,684	188,341	9,137,022	3,511,997
Ink, printing ^a	16	145	405	815	2,161	944,672	739,303	3,422,679	106,423	7,314,272	3,785,170
Instruments, professional and scientific.....	24	412	1,074	-----	1,662	1,033,905	1,483,271	2,088,124	74,995	6,898,121	4,735,002
Knit goods.....	202	676	5,898	1,640	2,600	1,856,877	7,584,571	20,348,082	289,122	47,022,980	20,885,770
Leather: Tanned, curried, and finished.....	6	29	241	315	379	136,728	305,711	1,454,550	24,260	2,327,156	848,546
Lithographing.....	17	246	1,286	50	2,162	887,628	2,399,733	2,545,110	105,635	8,141,121	5,490,376
Macaroni, spaghetti, vermicelli, and noodles.....	32	92	702	85	2,287	233,306	988,445	4,078,932	138,425	6,962,371	2,750,014
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	13	28	136	-----	220	63,515	191,139	91,188	6,746	670,851	572,917
Marble, granite, slate, and other stone products.....	60	248	1,162	357	5,953	898,743	2,788,458	2,773,303	159,983	8,537,074	5,003,288
Mattresses and bed springs, not elsewhere classified.....	68	120	628	-----	1,009	324,055	904,438	2,800,669	34,502	5,274,552	2,430,381
Meat packing, wholesale.....	23	203	929	1,007	1,581	675,878	1,808,230	28,723,488	160,093	34,753,687	5,869,506
Mirrors, framed and unframed.....	22	67	325	10	388	198,482	631,857	1,240,953	27,194	5,497,494	1,239,647
Models and patterns, not including paper patterns.....	26	49	136	-----	246	149,480	238,247	169,603	8,091	775,864	608,170

See footnotes at end of this section, p. 371.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
Motor-vehicle bodies and motor-vehicle parts.....	36	142	721		2,084	Dollars 443,423	Dollars 880,703	Dollars 1,513,137	Dollars 84,385	Dollars 3,871,160	Dollars 2,273,038
Nonferrous-metal alloys and products, not including aluminum products.....	50	625	2,471	6,047	2,676	1,062,743	4,020,661	8,470,746	166,798	21,409,433	12,802,889
Paints and varnishes.....	84	769	2,288	5,200	7,771	2,896,720	3,454,024	27,817,500	406,687	46,943,037	18,719,860
Paper goods, not elsewhere classified.....	18	194	982	503	808	611,695	1,025,036	3,503,414	68,638	7,517,907	3,945,855
Patent or proprietary medicines and compounds.....	42	280	302	170	605	1,094,038	509,560	2,780,330	37,520	9,076,512	6,268,656
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	68	271	1,258	4,445	7,340	959,182	2,146,360	6,157,088	147,175	11,641,030	5,336,707
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	8	34	200		420	103,992	260,857	541,160	32,389	1,187,801	614,342
Printing and publishing, book and job.....	200	497	2,227	10	2,833	1,344,335	4,130,202	3,798,065	141,714	14,000,495	10,120,716
Printing and publishing, newspaper and periodical.....	34	1,149	1,190	355	5,388	3,009,385	3,273,126	5,712,653	166,644	18,387,268	12,507,971
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	6	21	55		168	65,343	124,831	213,572	6,955	520,485	209,068
Rubber goods other than tires, inner tubes, and boots and shoes.....	13	180	1,174	525	4,418	613,280	1,400,135	3,282,907	153,619	7,041,223	3,604,697
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	9	11	27		200	31,909	42,832	371,873	8,698	512,475	131,004
Screw-machine products and wood screws.....	7	28	161		362	91,888	202,931	257,180	20,741	911,949	634,028
Ship and boat building, steel and wooden, including repair work.....	21	523	5,701	355	41,301	1,400,803	10,775,833	5,345,046	487,890	24,672,660	18,830,733
Shirts.....	25	49	693		227	122,400	970,665	183,546	10,368	1,547,162	1,347,248
Signs and advertising novelties.....	38	68	325		237	292,023	564,340	780,003	11,734	2,294,006	1,492,669
Sporting and athletic goods, not including firearms or ammunition.....	7	26	270		248	54,099	379,551	608,511	6,943	1,322,425	700,071
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	28	261	1,341	219	2,382	884,186	1,526,116	3,805,676	127,202	8,498,123	4,565,245
Statuary and art goods, factory product.....	6	9	74		83	16,526	124,618	75,147	6,677	316,609	233,786
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	12	27	79		206	229,363	131,509	613,997	9,264	1,328,818	705,557
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	94	317	1,040		2,038	1,076,202	2,114,822	4,372,586	78,304	9,571,518	5,120,628
Tin cans and other tinware, not elsewhere classified.....	23	299	2,403	1,721	3,200	632,878	3,018,455	6,541,460	177,488	12,840,820	6,121,892
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	31	91	711		427	238,184	1,033,267	1,630,243	41,660	4,239,558	2,561,719
Umbrellas, parasols, and canes.....	10	4	62		53	8,680	68,460	311,820	3,384	518,563	293,859
Window and door screens and weather strip.....	16	18	69	3	136	81,045	119,928	232,439	2,811	560,404	325,214
Window shades and fixtures.....	39	69	226		443	171,905	266,015	865,070	13,340	1,785,007	910,681
Wirework, not elsewhere classified.....	29	182	972		1,580	638,442	1,382,349	1,674,720	80,101	6,188,281	3,424,410
Wood turned and shaped and other wooden goods, not elsewhere classified.....	15	20	68	16	396	55,913	105,808	179,065	12,003	627,958	436,800
Other industries ¹⁰	803	7,063	30,725	62,977	81,445	18,063,621	41,061,961	165,532,655	11,447,934	352,169,518	175,178,929

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.
^b 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.
⁹ The items for each of the 2 industries covered by this footnote include data for 1 establishment located outside the county, 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 county are not affected by these counterbalancing adjustments.
¹⁰ See footnote 9.

MONROE COUNTY (SEE ROCHESTER INDUSTRIAL AREA)

MONTGOMERY 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, "Carpets and rugs, wool, other than rag"—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.....	113	1,192	11,851	9,334	12,442	Dollars 3,284,837	Dollars 13,471,073	Dollars 36,229,119	Dollars 941,280	Dollars 68,516,761	Dollars 31,346,352
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NEW YORK COUNTY (MANHATTAN BOROUGH, NEW YORK CITY)

All industries, total.....	20,797	96,870	328,230	78,784	235,804	Dollars 295,354,733	Dollars 558,754,981	Dollars 1,910,806,954	Dollars 26,827,443	Dollars 3,980,303,844	Dollars 2,043,669,447
Awnings, tents, sails, and canvas covers.....	58	124	417	90	185	374,465	718,597	1,873,738	18,644	3,724,148	1,831,766
Beverages.....	48	231	910	10,574	1,411	802,629	1,706,178	2,647,866	302,488	7,780,441	4,830,087
Bookbinding and blank-book making.....	355	977	6,731	20	5,468	3,032,081	9,391,369	6,223,197	246,263	25,459,432	18,989,942
Boots and shoes, other than rubber.....	107	419	3,124	7	1,058	1,430,292	5,709,954	8,730,294	63,359	10,838,152	11,014,499
Boxes, paper, not elsewhere classified.....	130	447	2,814	523	1,846	1,382,982	3,462,553	6,041,394	109,723	14,087,724	7,936,697
Boxes, wooden, except cigar boxes.....	25	58	313	53	987	210,377	471,288	975,511	37,658	2,160,423	1,147,264
Bread and other bakery products.....	531	815	10,799	3,128	10,910	2,485,184	16,381,127	38,756,738	1,398,796	97,002,505	50,846,971

See footnotes at end of this section, p. 373.

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]

Table with columns: INDUSTRY, Number of establishments, Salaried officers and employees, Wage earners (average for the year), HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT (Prime movers, Electric motors driven by purchased energy), Salaries, Wages, Cost of materials and containers for products, Cost of fuel and purchased electric energy, Value of products, Value added by manufacture. Includes a sub-section for NEW YORK COUNTY (MANHATTAN BOROUGH, NEW YORK CITY) and a list of various industries like Brushes, Buttons, Canning, etc.

See footnotes at end of this section, p. 373.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
NEW YORK COUNTY (MANHATTAN BOROUGH, NEW YORK CITY)—Continued											
Printing and publishing, newspaper and periodical	681	24,370	11,232	-----	22,520	Dollars 68,855,066	Dollars 31,066,488	Dollars 69,294,508	Dollars 1,210,250	Dollars 341,948,507	Dollars 271,443,749
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	15	43	140	-----	227	125,914	347,671	592,859	7,345	1,346,223	746,010
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	38	40	199	-----	759	117,569	370,459	3,354,244	63,807	4,605,950	1,107,899
Screw-machine products and wood screws	6	12	90	-----	321	103,555	143,776	397,535	13,057	1,417,664	1,007,072
Shirts	171	453	2,030	-----	517	1,299,961	2,847,287	26,008,672	60,880	46,685,128	20,615,576
Signs and advertising novelties	144	373	1,456	10	756	1,194,244	2,436,462	3,016,275	80,948	9,908,018	6,841,395
Silk and rayon manufactures	73	383	1,419	30	1,151	1,020,548	2,188,390	30,775,767	78,007	46,937,708	16,088,844
Sporting and athletic goods, not including firearms or ammunition	10	34	105	50	30	69,048	144,328	323,334	4,410	693,935	366,191
Stamped ware, enameling, and metal stamping, enameling, japanning, and lacquering	28	69	548	-----	701	255,122	634,380	918,318	38,665	2,536,576	1,579,593
Stationery goods, not elsewhere classified	31	177	629	41	458	608,833	806,975	1,396,261	26,781	3,884,918	2,461,870
Statuary and art goods, factory product	21	70	306	-----	58	281,872	1,084,652	314,208	10,235	2,174,721	1,850,278
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	10	29	54	-----	233	102,046	84,563	377,509	7,169	687,628	302,950
Textile machinery and parts	6	6	61	-----	135	10,070	64,376	61,178	4,420	210,114	144,512
Toys (not including children's wheel goods or sleds), games, and playground equipment	122	418	2,516	-----	930	1,121,908	3,195,957	7,021,785	181,146	15,321,323	8,168,392
Umbrellas, parasols, and canes	78	119	646	1	232	318,005	786,606	4,201,161	10,826	6,448,216	2,227,229
Watch and clock materials and parts, except watch-cases	3	4	17	-----	5	14,250	23,089	30,282	220	97,250	66,748
Window and door screens and weather strip	7	11	19	2	46	17,081	31,820	80,234	1,208	190,197	108,755
Window shades and fixtures	38	33	171	-----	68	79,701	281,391	1,502,983	4,512	2,378,784	871,289
Wirework, not elsewhere classified	39	79	420	10	225	204,573	481,381	587,813	20,617	1,711,147	1,102,717
Wood turned and shaped and other wooden goods, not elsewhere classified	33	48	200	16	509	148,953	378,019	1,101,158	13,748	2,404,225	1,289,810
Other industries	3,587	15,735	73,534	43,959	47,922	48,525,828	116,143,230	259,877,735	11,107,589	569,553,394	298,508,070

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

^c Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

NIAGARA COUNTY

Be cause 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, "Chemicals, not elsewhere classified"—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	293	4,855	22,605	18,224	179,768	Dollars 10,967,993	Dollars 33,075,397	Dollars 93,575,045	Dollars 12,832,879	Dollars 212,180,354	Dollars 105,772,430
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ONEIDA COUNTY

All industries, total	400	3,854	26,728	42,047	77,619	Dollars 9,601,231	Dollars 30,710,752	Dollars 85,136,940	Dollars 4,356,954	Dollars 161,232,522	Dollars 71,738,628
Awnings, tents, sails, and canvas covers	3	3	14	-----	63	2,957	15,671	26,409	469	65,607	39,729
Beverages	14	39	111	553	387	95,271	122,097	418,901	35,592	1,102,759	648,266
Boxes, paper, not elsewhere classified	3	10	130	-----	368	26,607	111,721	228,442	9,476	469,846	221,928
Bread and other bakery products	47	48	330	-----	720	107,767	600,871	1,269,954	68,987	2,922,496	1,593,555
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	15	42	312	1,031	568	78,826	264,280	939,806	26,102	1,772,672	808,264
Cheese	27	2	24	63	47	(^c)	34,410	534,712	9,155	644,791	100,924
Cigars and cigarettes	3	-----	12	-----	-----	-----	8,598	10,542	154	27,310	16,620
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	9	178	880	50	230	378,092	974,567	1,736,728	27,233	4,050,092	2,286,731
Concrete products	6	6	10	-----	63	9,524	17,354	19,918	930	75,709	54,861
Cotton goods	6	141	3,359	10,606	17,842	371,096	3,453,090	5,383,826	503,112	12,551,639	6,064,701
Electrical machinery, apparatus and supplies	8	48	101	-----	265	94,763	142,104	936,129	12,289	1,440,787	492,349
Flour and other grain-mill products	5	9	22	110	310	26,918	32,662	301,375	5,610	533,096	186,110
Foundry and machine-shop products, not elsewhere classified	21	112	635	351	1,492	280,800	909,917	1,334,537	118,290	3,247,821	1,794,994
Furniture, including store and office fixtures	11	69	499	510	1,395	179,815	586,710	1,094,214	55,071	2,759,809	1,610,324
Ice cream	6	27	71	6	440	55,585	101,183	514,115	18,975	1,098,726	565,036
Ice, manufactured	3	8	40	-----	258	18,300	36,153	8,498	19,697	132,883	104,688
Knit goods	24	334	5,345	6,580	5,158	926,378	4,071,705	9,327,646	324,741	17,456,725	7,804,338
Motor-vehicle bodies and motor-vehicle parts	7	143	924	35	3,161	392,325	1,315,736	1,671,159	107,171	4,604,314	2,825,984
Paper	3	15	174	1,255	258	57,107	200,862	568,045	106,217	1,165,911	491,649
Photo-engraving, not done in printing establishments	3	7	26	-----	14	15,877	55,405	29,096	2,172	150,962	119,694
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	8	28	99	390	875	72,625	130,200	294,191	18,639	754,303	441,473
Printing and publishing, book and job	27	32	159	-----	291	83,941	220,374	282,701	9,752	919,265	626,812
Printing and publishing, newspaper and periodical	14	239	283	4	679	422,910	490,560	383,235	26,425	2,272,797	1,863,137
Signs and advertising novelties	5	21	130	-----	412	40,738	140,382	130,188	7,483	497,340	350,669
Sporting and athletic goods, not including firearms or ammunition	8	50	310	20	112	107,410	308,000	429,534	11,474	1,101,483	750,475
Other industries	114	2,238	12,666	20,433	42,163	5,808,820	16,842,062	57,164,539	2,842,738	99,231,994	39,274,717

^c 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—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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
ONONDAGA COUNTY											
All industries, total.....	549	5,071	35,080	66,453	105,775	Dollars 15,804,311	Dollars 52,555,512	Dollars 93,400,857	Dollars 8,318,667	Dollars 243,340,855	Dollars 141,615,331
Awnings, tents, sails, and canvas covers.....	4	2	31	12	13	(4)	52,511	53,504	2,455	127,002	71,043
Beverages.....	10	21	51	1,060	117	46,029	72,509	150,613	26,932	433,732	300,137
Boxes, paper, not elsewhere classified.....	8	35	301	100	304	123,614	284,037	780,035	16,475	1,467,232	690,722
Boxes, wooden, except cigar boxes.....	4	5	38	107	75	3,202	34,459	66,049	2,707	130,012	61,166
Bread and other bakery products.....	62	92	928	-----	1,590	204,880	1,402,045	3,219,699	105,150	7,222,862	3,838,007
Candles.....	6	93	434	1,375	255	501,821	1,851,867	49,261	-----	3,850,992	1,049,534
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	7	6	50	280	105	11,483	36,304	154,563	2,828	272,059	115,568
Cigars and cigarettes.....	7	13	90	-----	20	31,260	69,268	103,317	1,057	254,584	140,080
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	15	88	1,211	-----	160	210,570	1,675,526	1,700,619	23,140	4,100,121	2,385,362
Coffee and spice, roasting and grinding.....	5	4	18	-----	63	19,075	20,933	298,601	4,128	451,241	148,512
Confectionery.....	6	14	101	-----	227	52,520	94,358	339,916	10,371	570,571	226,284
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	6	46	-----	31	16,380	24,480	51,300	1,200	133,200	80,610
Druggists' preparations.....	7	36	32	-----	52	117,846	37,347	121,124	3,018	386,569	202,427
Foundry and machine-shop products, not elsewhere classified.....	47	657	3,336	1,555	9,174	1,723,026	4,874,065	5,015,192	400,571	20,531,160	14,265,397
Furniture, including store and office fixtures.....	9	71	622	360	368	269,080	960,900	1,083,182	36,123	2,947,806	1,828,501
Ice cream.....	6	48	132	-----	559	131,415	198,793	637,888	12,467	1,470,485	820,100
Iron, manufactured.....	3	20	42	210	2,701	67,492	86,458	36,387	61,512	450,888	332,850
Knit goods.....	3	13	60	-----	56	27,718	34,468	137,028	2,081	286,379	147,270
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	9	27	180	75	284	130,833	337,124	67,124	12,025	831,850	722,701
Meat packing, wholesale.....	5	13	51	5	400	26,074	116,453	962,641	10,055	1,219,044	237,048
Models and patterns, not including paper patterns.....	5	9	29	-----	45	18,590	61,411	16,044	3,326	160,778	141,408
Motor-vehicle bodies and motor-vehicle parts.....	8	577	3,970	425	19,315	1,683,178	5,529,778	10,792,190	459,514	23,811,064	12,500,654
Nonferrous-metal alloys and products, not including aluminum products.....	6	72	394	75	740	229,843	903,288	1,487,077	70,243	3,612,820	2,054,600
Paper.....	10	50	458	3,930	3,374	170,547	542,356	1,753,991	261,124	3,344,584	1,320,449
Patent or proprietary medicines and compounds.....	5	18	9	-----	33	30,942	8,379	58,208	953	175,796	110,635
Photo-engraving, not done in printing establishments.....	4	13	40	-----	15	36,141	108,344	31,079	2,785	286,826	252,362
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	0	16	88	350	550	23,864	145,275	202,801	11,509	462,346	247,046
Printing and publishing, book and job.....	45	78	306	-----	424	186,308	473,054	393,560	22,174	1,581,930	1,166,196
Printing and publishing, newspaper and periodical.....	10	648	439	-----	992	1,358,056	964,763	1,202,873	49,716	6,024,734	4,772,145
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	7	62	153	-----	1,232	180,114	254,910	650,264	19,044	1,374,866	695,658
Wirework, not elsewhere classified.....	3	3	10	-----	15	4,176	10,663	7,555	718	33,199	24,026
Other industries.....	202	3,131	21,464	56,524	61,857	8,395,952	32,750,382	50,050,560	6,543,989	155,217,014	89,613,465
ORANGE COUNTY											
All industries, total.....	243	1,343	10,558	11,841	15,866	Dollars 3,562,696	Dollars 13,283,834	Dollars 22,659,668	Dollars 1,410,138	Dollars 52,108,156	Dollars 28,038,350
Beverages.....	12	6	23	4	114	7,922	27,970	67,429	3,503	170,552	99,620
Bread and other bakery products.....	40	22	162	5	234	30,581	216,002	550,864	22,923	1,135,570	555,783
Car and general construction and repairs, steam-railroad repair shops.....	9	177	1,568	1,200	1,844	442,915	2,497,511	1,464,819	131,782	4,537,027	2,040,426
Carpets and rugs, wool, other than rag.....	3	77	735	1,745	283	262,092	868,041	1,550,226	55,738	3,744,704	2,129,740
Clothing, women's, not elsewhere classified.....	16	49	887	-----	116	96,398	679,763	920,892	19,297	2,069,672	1,129,483
Foundry and machine-shop products, not elsewhere classified.....	11	92	440	290	1,485	245,065	690,803	911,570	40,718	2,289,983	1,337,695
Gas, manufactured, illuminating and heating.....	4	18	63	572	25	27,521	106,994	66,739	158,246	675,877	450,892
Ice cream.....	7	14	26	-----	218	26,377	49,354	143,452	9,532	302,725	140,741
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	5	9	34	125	314	19,085	62,118	70,803	7,640	192,629	114,186
Printing and publishing, book and job.....	12	21	141	-----	173	87,097	275,795	169,400	15,464	656,185	481,321
Printing and publishing, newspaper and periodical.....	13	102	112	-----	207	192,940	211,154	117,001	14,804	927,043	795,238
Silk and rayon manufactures.....	11	44	899	330	826	138,640	1,115,491	3,188,442	69,967	5,785,048	2,526,030
Other industries.....	100	712	5,468	7,570	10,027	2,016,663	6,482,838	13,433,031	860,524	29,621,141	15,327,586

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.^c 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
QUEENS COUNTY (QUEENS BOROUGH, NEW YORK CITY)											
All industries, total.....	1,417	10,840	55,160	47,432	100,865	Dollars 33,354,732	Dollars 85,461,066	Dollars 271,463,336	Dollars 7,397,451	Dollars 515,173,334	Dollars 230,318,047
Beverages.....	18	40	145	-----	276	107,329	204,305	633,498	16,286	1,721,384	1,071,001
Boxes, paper, not elsewhere classified.....	13	98	815	-----	901	485,621	901,773	2,947,854	42,303	5,394,805	2,874,708
Bread and other bakery products.....	279	1,116	4,022	1,042	0,210	2,308,605	5,808,380	14,896,340	643,721	34,270,373	18,850,300
Buttons.....	7	41	198	-----	325	102,324	230,571	292,125	17,188	875,208	665,022
Chemicals, not elsewhere classified.....	9	23	62	20	275	141,927	101,602	351,820	21,901	800,197	426,476
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	9	15	446	-----	93	30,284	770,485	101,542	14,513	1,051,014	934,959
Clothing, women's, not elsewhere classified.....	48	116	1,100	3	340	236,809	1,401,622	1,397,287	22,879	4,056,270	2,670,110
Concrete products.....	17	22	111	4	482	85,993	264,618	120,443	8,117	710,735	570,175
Confectionery.....	9	66	479	225	525	182,587	517,642	1,527,319	26,801	3,207,619	1,713,489
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	22	45	226	-----	204	177,597	471,435	634,537	4,627	1,723,431	1,084,267
Doors, shutters, and window sash and frames, metal.....	6	97	817	200	668	329,811	1,051,764	1,320,100	36,948	4,010,945	2,602,891
Druggists' preparations.....	5	51	85	-----	76	140,660	88,647	301,704	5,519	808,856	561,633
Fancy and miscellaneous articles, not elsewhere classified.....	12	30	574	-----	559	309,720	584,368	1,499,203	20,730	3,307,473	1,847,540
Food preparations, not elsewhere classified.....	7	41	189	-----	642	77,050	182,930	1,269,859	23,152	2,010,677	717,666
Foundry and machine-shop products, not elsewhere classified.....	48	285	1,270	15	3,018	945,940	2,170,410	3,002,775	128,926	0,100,584	5,068,883
Furniture, including store and office fixtures.....	48	388	2,498	44	3,935	1,343,069	3,974,816	6,791,038	146,614	16,065,303	9,726,751
Furs, dressed.....	5	27	175	-----	627	128,826	262,018	135,304	30,089	876,470	707,077
Gas and electric fixtures; lamps, lanterns, and reflectors.....	7	151	474	-----	503	500,477	998,787	910,278	33,430	3,356,440	2,403,723
Ice cream.....	27	185	531	680	3,902	375,911	986,160	3,019,629	122,298	9,490,485	5,767,488
Ice, manufactured.....	17	13	221	1,440	5,053	40,403	404,776	99,670	388,401	2,957,713	2,472,282
Knit goods.....	54	150	1,006	20	1,138	585,707	2,428,800	4,017,408	72,119	9,368,077	5,278,550
Macaroni, spaghetti, vermicelli, and noodles.....	6	37	212	350	1,862	112,827	231,824	1,230,284	55,812	2,214,233	922,137
Marble, granite, slate, and other stone products.....	54	240	1,337	25	8,631	931,982	3,859,753	2,539,210	145,457	9,521,708	6,837,011
Mirrors, framed and unframed.....	4	14	48	-----	43	41,367	80,308	158,479	4,325	370,518	207,714
Motor-vehicle bodies and motor-vehicle parts.....	16	121	885	-----	1,931	454,153	1,689,252	1,564,632	60,949	4,172,833	2,640,457
Nonferrous-metal alloys and products, not including aluminum products.....	17	101	378	103	894	299,341	702,019	3,335,016	72,054	5,233,343	1,820,773
Paints and varnishes.....	29	271	771	151	3,137	1,236,965	1,151,659	9,157,013	125,255	10,268,401	6,086,223
Patent or proprietary medicines and compounds.....	12	70	178	-----	314	286,939	202,024	1,062,769	20,332	3,843,647	2,770,556
Perfumes, cosmetics, and other toilet preparations.....	10	352	731	808	631	582,952	499,128	2,184,227	27,683	7,140,875	4,034,062
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	40	167	799	1,309	2,904	707,080	1,596,817	2,500,772	55,454	6,204,845	3,582,619
Printing and publishing, book and job.....	56	189	1,616	3	2,988	602,362	3,025,364	1,855,872	85,630	7,899,773	5,808,271
Printing and publishing, newspaper and periodical.....	20	299	200	-----	594	702,207	553,517	374,508	25,104	2,654,011	2,254,399
Rubber goods other than tires, inner tubes, and boots and shoes.....	11	160	2,149	5,820	981	418,200	2,706,818	2,850,053	145,579	9,370,896	6,383,364
Signs and advertising novelties.....	11	69	232	-----	186	168,295	463,375	393,042	20,808	1,485,353	1,071,483
Silk and rayon manufactures.....	8	77	828	-----	1,409	210,013	1,064,260	2,768,169	59,580	4,712,474	1,884,777
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	7	227	1,009	1,500	2,414	646,767	1,490,200	2,779,233	135,697	6,613,544	3,698,614
Statuary and art goods, factory product.....	4	6	39	-----	29	10,354	118,078	44,017	604	207,992	168,371
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	31	386	1,767	291	3,274	1,241,067	3,199,047	5,028,399	167,392	12,506,571	7,370,780
Tin cans and other tinware, not elsewhere classified.....	5	105	1,015	1,375	614	287,106	1,225,834	3,370,833	87,011	6,139,554	2,081,660
Wirework, not elsewhere classified.....	5	14	42	-----	79	63,600	74,475	91,900	3,995	307,987	212,062
Other industries.....	404	4,885	24,934	31,914	37,552	15,707,888	37,378,220	182,195,706	4,426,114	292,394,054	105,772,234
RENSELAER COUNTY											
All industries, total.....	203	1,726	15,474	24,769	26,357	Dollars 4,542,305	Dollars 16,730,861	Dollars 29,418,309	Dollars 3,645,046	Dollars 71,272,950	Dollars 33,209,595
Beverages.....	6	6	32	-----	53	12,740	44,691	67,741	4,266	104,591	122,554
Bread and other bakery products.....	19	32	236	175	128	78,156	378,008	722,603	44,176	1,476,957	710,178
Clay products (other than pottery) and nonclay refractories.....	4	20	140	-----	586	74,323	200,329	80,044	74,298	410,333	255,991
Paper.....	6	112	714	4,320	3,659	441,418	940,029	1,754,572	322,807	4,841,906	2,764,527
Printing and publishing, book and job.....	14	27	131	-----	179	88,347	197,598	149,825	9,445	587,349	428,079
Printing and publishing, newspaper and periodical.....	8	142	165	130	296	278,213	310,942	181,125	17,363	1,164,795	960,307
Shirts.....	13	277	4,532	2,897	607	493,272	3,581,162	6,167,730	109,862	13,203,680	6,926,084
Other industries.....	133	1,110	9,518	17,241	20,849	3,075,836	11,077,202	20,294,669	3,062,829	49,393,363	20,035,865

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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 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 ^a	Cost of fuel and purchased electric energy	Value of products ^b	Value added by manufacture ^c
				Prime movers	Electric motors driven by purchased energy						
RICHMOND COUNTY (RICHMOND BOROUGH, NEW YORK CITY)											
All industries, total.....	210	1,305	8,247	14,441	41,405	Dollars 3,430,650	Dollars 12,594,647	Dollars 58,180,484	Dollars 2,242,422	Dollars 92,354,720	Dollars 31,925,823
Beverages.....	6	17	64	300	35	45,242	167,977	118,376	30,544	486,128	337,208
Bread and other bakery products.....	56	15	235	13	374	39,747	409,719	839,288	55,243	1,780,047	885,516
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified).....	6	2	171	-----	30	(14) 99,018	31,377	7,002	180,983	148,604	
Clothing, women's, not elsewhere classified.....	13	4	271	-----	56	5,504	268,013	5,945	455,310	420,902	
Foundry and machine-shop products, not elsewhere classified.....	5	33	75	195	308	89,823	145,599	244,434	10,482	621,550	366,643
Planing-mill products (including general mill work), not made in planing mills connected with saw-mills.....	9	9	32	-----	251	28,584	64,075	78,948	5,300	228,802	144,554
Printing and publishing, book and job.....	8	10	27	-----	57	18,180	44,909	57,417	1,937	163,922	104,568
Printing and publishing, newspaper and periodical.....	7	77	60	-----	128	257,263	125,829	107,047	10,074	765,740	648,619
Ship and boat building, steel and wooden, including repair work.....	11	206	2,010	10	11,307	520,113	3,490,819	2,488,006	158,301	7,096,210	4,440,303
Other industries.....	89	632	5,302	13,923	28,869	2,420,194	7,788,689	84,192,528	1,957,504	80,569,938	24,419,906

SCHENECTADY 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—namely, "Electrical machinery, apparatus, and supplies" and "Locomotives, not made in railroad repair shops"—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.....	126	4,766	25,684	57,292	117,455	Dollars 10,430,406	Dollars 43,754,711	Dollars 83,908,635	Dollars 3,205,601	Dollars 168,424,064	Dollars 81,310,428
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WESTCHESTER 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—"Carpets and rugs, wool, other than rag," as measured by number of wage earners, and "Sugar refining, cane," 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.....	522	4,024	26,136	47,803	36,422	Dollars 10,617,478	Dollars 38,905,553	Dollars 166,505,988	Dollars 3,754,875	Dollars 201,008,158	Dollars 120,747,205
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^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

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

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

ALBANY

[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, "Car and general construction and repairs, steam-railroad repair shops"—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.....	227	1,727	8,097	5,341	15,751	Dollars 4,275,640	Dollars 11,492,943	Dollars 22,441,412	Dollars 874,730	Dollars 52,600,178	Dollars 29,284,030
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BUFFALO

[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.....	1,391	12,296	68,854	99,256	299,284	Dollars 34,165,644	Dollars 100,577,502	Dollars 420,856,099	Dollars 10,171,400	Dollars 720,200,960	Dollars 280,173,391
Aircraft and parts.....	6	416	2,031	---	1,038	1,046,472	3,104,742	2,334,620	63,238	7,850,786	5,252,928
Awnings, tents, sails, and canvas covers ¹	11	39	89	---	42	92,147	105,273	201,647	3,231	610,380	314,461
Bags, other than paper, not made in textile mills.....	6	61	383	700	504	156,044	325,066	7,070,135	15,739	8,060,065	975,321
Beverages.....	25	49	165	50	721	113,615	229,023	346,557	29,074	1,057,940	682,516
Boxes, paper, not elsewhere classified ¹	14	171	1,280	502	1,327	548,944	1,227,158	1,971,070	34,390	5,326,211	3,329,745
Bread and other bakery products.....	197	190	2,501	2,116	2,203	397,078	3,415,698	9,425,447	290,320	22,756,710	13,040,934
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	4	12	18	---	32	21,480	21,506	73,313	1,481	130,060	64,272
Car and general construction and repairs, steam-railroad repair shops.....	12	200	3,447	495	5,868	732,916	5,014,420	4,987,896	168,168	11,813,568	6,087,444
Cigars and cigarettes.....	14	---	40	---	---	---	52,261	71,994	---	190,941	118,122
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified).....	36	168	1,842	20	316	624,840	1,722,954	4,021,434	29,125	7,060,026	3,915,407
Clothing, women's, not elsewhere classified.....	10	82	810	---	184	208,209	555,141	1,504,330	9,611	3,120,560	1,606,013
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	3	1	31	---	14	(²)	22,017	61,361	757	114,169	52,051
Coffee and spice, roasting and grinding.....	9	20	54	---	523	53,274	64,085	2,000,800	13,498	3,050,528	940,164
Confectionery ¹	33	65	305	---	639	180,339	271,369	1,125,707	20,838	2,131,419	975,814
Engraving, steel and copperplate, and plate printing.....	10	19	74	3	69	54,501	87,028	95,890	1,041	326,350	223,019
Envelopes.....	3	30	177	---	232	122,508	164,410	694,162	6,082	1,123,658	523,414
Flavoring extracts and flavoring sirups.....	11	50	241	1,685	262	168,113	379,865	1,726,967	73,284	3,631,984	1,831,753
Flour and other grain-mill products ¹	11	520	1,158	750	25,080	1,489,478	1,908,544	67,308,321	407,300	78,889,368	10,993,731
Food preparations, not elsewhere classified.....	13	7	49	---	112	10,349	70,568	776,076	7,261	1,009,955	226,618
Foundry and machine-shop products, not elsewhere classified.....	98	1,022	5,841	210	29,175	2,930,542	9,465,304	12,551,253	920,080	35,124,712	21,644,420
Fur goods.....	21	23	143	---	48	43,728	176,601	462,432	7,030	889,050	418,982
Gloves and mittens, leather.....	6	5	37	---	19	5,253	44,093	121,181	1,152	228,303	106,060
Grease and tallow, not including lubricating greases.....	5	15	72	---	885	81,834	107,174	552,080	22,159	908,390	333,251
Hats and caps, except felt and straw, men's.....	5	14	89	---	13	32,577	32,319	188,817	1,404	378,110	187,829
Ice, manufactured.....	7	19	127	---	6,118	89,942	218,722	39,080	100,031	1,150,074	1,004,957
Instruments, professional and scientific.....	4	9	19	---	27	20,675	22,973	42,992	873	117,569	73,695
Iron and steel: Steel works and rolling mills.....	5	483	2,005	10,080	25,881	1,522,897	4,427,231	11,397,652	1,408,743	22,301,353	9,404,903
Jewelry.....	21	54	226	---	107	161,224	350,639	712,004	4,873	1,678,565	961,023
Leather: Tanned, curried, and finished.....	3	34	255	10	1,360	119,752	344,748	2,340,780	35,756	3,242,518	866,030
Lithographing.....	5	72	448	200	600	276,417	640,916	1,221,158	23,406	2,900,988	1,666,424
Machine-tool accessories and small metal-working tools, not elsewhere classified ¹	8	21	154	10	355	70,481	280,431	91,128	8,329	594,794	495,337
Malt.....	4	14	61	60	2,311	84,304	124,087	2,122,088	67,067	2,923,988	733,633
Marble, granite, slate, and other stone products.....	5	30	202	---	1,315	108,790	239,159	435,088	15,832	1,140,590	695,676
Mattresses and bed springs, not elsewhere classified ¹	9	44	175	---	330	110,855	241,635	519,639	10,511	1,255,953	765,803
Meat packing, wholesale ¹	34	395	1,598	1,028	5,074	980,837	2,227,793	41,695,673	228,781	48,612,533	6,737,179
Millinery.....	6	21	137	---	90	55,531	125,775	311,553	2,489	579,707	295,661
Motor vehicles, not including motorcycles.....	5	860	6,060	4,402	10,815	2,350,077	9,293,738	71,833,653	319,015	105,238,017	33,086,249
Perfumes, cosmetics, and other toilet preparations.....	10	65	134	125	172	189,884	127,112	839,077	14,931	2,541,697	1,637,659
Photo-engraving, not done in printing establishments.....	8	52	132	---	320	193,512	366,337	83,747	9,786	889,227	795,604
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	35	143	599	1,025	4,379	396,196	860,755	1,655,554	86,057	3,400,578	1,748,937
Printing and publishing, newspaper and periodical.....	30	982	933	---	2,728	1,858,142	1,930,509	3,481,634	70,866	11,881,009	8,322,509
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments ¹	26	25	189	26	679	52,180	288,293	2,850,709	30,548	3,641,603	760,346
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering ¹	8	242	1,488	---	6,156	678,426	2,120,897	3,436,536	213,745	6,917,216	3,266,935
Stereotyping and electrotyping, not done in printing establishments.....	3	16	57	---	186	79,296	121,826	42,075	5,132	350,278	308,071
Window shades and fixtures.....	3	---	5	---	2	---	5,066	19,928	---	37,576	17,648
Other industries.....	602	5,503	31,948	73,780	161,077	15,674,727	46,684,731	150,559,572	14,272,617	303,052,136	132,219,947

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹ 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; boxes, paper, not elsewhere classified, 1; confectionery, 1; flour and other grain-mill products, 3; machine-tool accessories and small metal-working tools, not elsewhere classified, 1; mattresses and bed springs, not elsewhere classified, 1; meat packing, wholesale, 3; sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments, 1; stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering, 1.

² Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

NEW YORK CITY

[For borough statistics, see Bronx, Kings, New York, Queens, and Richmond Counties, Table 13. The totals for all industries do not include data for a few establishments located outside the city (see footnotes 3, 4, 5, and 6), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	20,446	140,458	503,249	250,002	728,020	Dollars 425,807,969	Dollars 912,274,596	Dollars 2,885,380,031	Dollars 61,749,742	Dollars 5,984,254,941	Dollars 8,037,125,108
Artificial and preserved flowers and plants ³	114	213	1,664	.....	247	565,529	1,918,267	2,844,143	33,078	8,000,809	5,123,588
Artists' materials.....	21	64	172	.....	235	289,566	245,076	463,642	12,772	1,560,375	1,083,061
Awnings, tents, sails, and canvas covers.....	125	193	757	90	346	608,509	1,311,881	3,151,753	31,285	6,828,383	3,645,345
Beverages.....	196	574	2,316	16,214	6,395	1,851,660	3,973,631	7,256,544	781,564	21,044,977	13,607,067
Blacking, stains, and dressings.....	10	42	89	.....	99	133,355	.....	558,050	3,951	1,301,567	730,566
Bookbinding and blank-book making.....	388	1,255	8,547	24	6,571	3,640,687	11,790,164	9,701,212	318,733	33,109,035	23,089,090
Boots and shoes, other than rubber.....	262	1,735	14,619	732	7,108	6,687,584	24,064,728	36,596,440	439,138	82,389,565	45,353,987
Boxes, cigar, wooden.....	6	81	345	60	270	120,403	402,474	374,112	10,803	1,096,518	711,603
Boxes, paper, not elsewhere classified.....	237	1,036	6,931	1,039	6,039	3,636,984	8,201,386	18,320,970	318,733	38,427,795	19,788,452
Boxes, wooden, except cigar boxes.....	43	111	628	78	2,374	370,494	917,110	2,134,520	72,738	4,493,109	2,285,851
Bread and other bakery products.....	1,963	2,848	23,383	5,758	29,094	7,342,302	37,824,025	93,730,878	3,708,314	216,162,043	118,624,751
Brushes, other than rubber.....	53	173	1,180	17	931	545,213	1,882,160	4,090,842	70,975	7,768,467	3,606,650
Buttons.....	74	140	1,056	10	070	405,984	1,185,927	2,280,611	57,763	5,515,308	3,177,034
Canning and preserving: Fish, crabs, shrimps, oysters, and clams ³	23	85	236	.....	248	288,838	287,741	4,435,677	47,987	7,200,887	2,717,223
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	55	306	1,625	505	2,386	929,571	1,782,834	17,368,362	122,633	27,932,171	10,441,126
Car and general construction and repairs, steam-railroad repair shops.....	12	201	2,344	.....	2,052	555,087	4,060,422	1,740,399	171,025	6,526,933	4,615,500
Card cutting and designing.....	21	82	313	.....	269	211,222	399,361	1,028,722	11,424	2,235,478	1,195,332
Carriages, wagons, sleighs, and sleds.....	3	8	16	.....	34	17,760	20,214	41,897	1,492	103,361	59,972
Caskets, coffins, burial cases, and other morticians' goods.....	21	127	738	522	1,632	501,920	1,083,580	2,628,644	51,786	6,813,100	4,132,760
Cheese.....	5	3	11	.....	5	6,545	14,270	241,200	3,956	301,528	50,372
Chemicals, not elsewhere classified.....	43	301	1,151	1,074	2,992	1,452,968	1,682,088	8,816,088	382,939	17,897,309	8,698,282
China firing and decorating, not done in potteries ⁶	9	10	70	.....	23	20,135	111,864	166,104	12,245	446,958	268,609
Cigars and cigarettes.....	302	454	6,259	236	1,870	1,400,705	7,294,863	23,453,874	98,913	71,015,470	48,362,683
Clay products (other than pottery) and nonclay refractories.....	5	61	489	1,020	803	178,963	754,525	181,921	143,292	1,729,449	1,404,236
Cleaning and polishing preparations.....	50	354	579	450	1,453	961,026	712,697	2,027,900	49,640	8,465,021	5,488,066
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	1,682	3,655	28,498	625	5,058	11,001,021	44,101,165	158,373,243	874,657	319,217,002	159,970,092
Clothing, men's, buttonholes.....	16	6	81	6	34	11,445	96,503	15,696	1,113	188,305	171,496
Clothing, women's, not elsewhere classified.....	5,554	18,751	96,011	20	16,800	61,802,273	159,335,352	713,404,289	2,950,261	1,287,967,559	571,608,029
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	25	41	317	.....	81	105,446	533,899	1,791,033	8,680	3,076,240	1,276,527
Coffee and spice, roasting and grinding.....	82	653	1,361	853	5,368	1,782,770	1,702,902	60,991,611	368,947	75,082,648	13,722,190
Combs and hairpins, not made from metal or rubber.....	5	13	36	.....	20	39,506	41,303	179,150	1,374	304,967	184,443
Compressed and liquefied gases.....	5	31	104	724	596	57,070	175,730	165,968	46,153	1,133,043	922,822
Concrete products.....	59	90	371	52	2,026	296,475	770,998	631,076	45,267	2,605,579	1,929,230
Confectionery.....	148	905	8,121	6,839	9,701	2,419,379	7,941,801	22,455,761	675,161	45,152,849	22,021,927
Cooperage.....	16	35	390	605	47	82,069	507,053	2,036,442	15,630	3,095,877	1,043,805
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	232	605	2,351	1	2,667	1,979,457	4,094,018	7,287,253	120,369	18,242,204	10,834,582
Cork products.....	18	78	863	815	1,193	107,977	940,465	2,569,618	78,945	5,088,801	2,440,338
Cotton goods.....	10	49	236	.....	602	135,659	342,419	1,265,640	26,546	2,268,300	970,114
Cotton small wares.....	9	19	169	165	121	118,189	258,762	624,800	16,335	1,301,107	749,882
Dental goods and equipment ³	19	248	981	2,080	366	685,973	1,286,074	5,699,527	53,265	9,587,108	3,834,316
Doors, shutters, and window sash and frames, metal.....	52	349	1,926	355	3,087	1,218,595	4,243,662	5,286,145	100,200	14,069,970	8,683,625
Druggists' preparations.....	51	253	579	80	446	947,688	697,410	3,000,915	42,277	8,247,439	5,204,247
Dyeing and finishing textiles.....	139	577	3,738	850	3,368	2,060,740	5,009,330	8,969,280	707,184	21,409,473	11,733,909
Electrical machinery, apparatus, and supplies.....	202	2,719	12,740	825	15,054	7,724,396	15,230,015	39,539,885	729,892	87,681,634	47,411,857
Electroplating.....	71	123	627	15	1,910	379,649	1,174,093	397,237	96,192	2,934,042	2,440,613
Embroideries.....	395	395	3,146	.....	735	1,007,953	4,027,267	2,469,419	69,413	11,795,279	9,256,447
Engravers' materials.....	9	28	70	.....	257	74,039	99,325	540,832	12,099	921,174	368,243
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking ³	62	156	790	.....	1,079	480,082	1,126,615	1,107,357	46,970	4,318,492	3,164,159
Engraving, steel and copperplate, and plate printing.....	101	479	3,198	7	3,746	1,550,315	5,978,971	3,534,801	115,783	16,093,419	12,442,835
Engraving, wood.....	7	12	39	.....	33	27,504	66,662	16,165	932	164,589	147,492
Envelopes ³	33	308	1,320	360	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.....	359	1,025	6,130	103	2,732	3,087,942	7,076,187	15,476,220	206,747	34,769,065	19,086,098
Feathers, plumes, and manufactures thereof.....	34	44	231	1	59	99,967	281,002	336,033	4,976	988,616	647,607
Flavoring extracts and flavoring sirups.....	106	308	593	841	1,947	1,010,439	884,616	6,100,990	146,143	12,676,250	6,420,123
Food preparations, not elsewhere classified.....	80	705	1,360	435	2,690	2,112,689	1,740,600	11,327,551	159,233	20,379,585	8,892,801
Foundry and machine-shop products, not elsewhere classified.....	443	3,522	14,277	1,884	38,207	11,109,282	25,491,730	23,469,469	1,170,915	89,435,118	64,794,734
Fur goods.....	2,007	2,798	10,589	.....	3,270	9,111,551	24,750,583	148,514,066	370,342	226,503,928	77,019,580
Furnishing goods, men's, not elsewhere classified.....	277	836	5,257	.....	959	2,649,436	7,638,610	32,883,649	126,695	59,615,367	26,065,023
Furniture, including store and office fixtures.....	557	2,034	10,738	1,504	20,210	7,092,594	20,441,226	35,717,077	622,614	82,855,665	46,515,974
Furs, dressed.....	186	464	2,970	80	4,897	2,077,206	5,180,404	13,923,260	208,791	28,282,107	14,150,056
Gas and electric fixtures; lamps, lanterns, and reflectors.....	201	1,159	5,121	460	4,440	3,685,049	8,124,219	15,322,446	324,965	36,282,424	20,635,013
Gas machines, gas meters, and water and other liquid meters.....	8	195	1,120	.....	1,919	572,309	1,715,798	1,856,258	93,360	6,330,688	4,381,070
Glass products (except mirrors) made from purchased glass.....	86	183	837	90	598	618,043	1,590,093	1,860,013	61,432	5,446,256	3,524,810
Gloves and mittens, leather.....	17	37	268	.....	28	72,428	400,618	498,573	2,866	1,202,341	707,092
Grease and tallow, not including lubricating greases.....	9	118	429	1,475	430	299,775	662,004	3,524,498	107,999	4,942,474	1,309,977
Hair work ³	32	58	225	1	19	120,874	284,574	413,366	6,469	1,180,223	700,388
Hand stamps and stencils and brands.....	48	138	565	.....	343	359,971	784,020	580,002	23,535	2,480,294	1,876,757

See footnotes at end of this section, p. 380.

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	Cost of fuel and purchased electric energy	Value of products	Value added by manufacture
				Prime movers	Electric motors driven by purchased energy						
Hardware not elsewhere classified	44	238	1,651	459	2,339	Dollars 920,846	Dollars 2,287,408	Dollars 2,000,399	Dollars 120,234	Dollars 6,748,951	Dollars 4,628,818
Hat and cap materials, men's	74	172	1,132	1,215	466	600,663	1,386,972	8,626,633	60,525	12,391,071	3,703,913
Hats and caps, except felt and straw, men's	212	243	1,730	3	657	814,020	2,992,012	6,082,769	54,011	13,483,777	7,206,997
Hats, straw, men's	21	118	1,069		215	490,245	1,463,133	3,438,256	22,705	7,630,668	4,110,707
House-furnishing goods, not elsewhere classified	384	970	5,493		3,242	2,825,378	6,461,562	30,442,600	189,888	49,656,868	19,024,370
Ice cream	179	529	1,716	755	10,515	1,318,007	2,988,360	14,114,571	548,843	28,637,128	13,973,714
Ice, manufactured	93	131	1,598	5,494	57,152	404,164	2,982,770	786,422	2,755,271	17,711,352	14,169,659
Ink, printing	39	349	855	2,314	3,868	1,660,234	1,527,957	6,011,850	203,548	14,582,188	8,366,790
Instruments, professional and scientific	68	799	2,365		2,448	2,128,111	3,511,630	4,149,591	133,663	17,024,575	12,741,481
Ivory, shell, and bone work, not including buttons, combs, or hairpins	5	6	29		69	18,420	47,258	41,015	3,861	140,464	101,588
Jewelry	535	1,440	4,885	330	2,751	4,923,502	10,235,663	30,119,002	135,795	58,623,700	28,368,009
Jewelry and instrument cases	40	97	680		304	256,720	882,355	1,034,844	19,775	3,014,688	1,900,069
Knit goods	407	1,495	10,874	1,680	5,317	4,707,773	14,541,218	45,598,850	506,848	86,833,975	40,728,277
Lapidary work	71	76	288		280	256,786	644,710	6,226,899	11,369	0,127,375	2,889,107
Lasts and related products	5	31	194		775	109,989	283,428	241,763	18,928	018,841	653,150
Leather, tanned, curried, and finished	12	45	292	315	544	222,021	402,874	2,704,483	20,702	4,216,004	1,481,909
Lithographing	106	1,237	4,883	880	7,113	4,464,226	9,434,010	10,465,560	320,980	33,200,566	22,424,026
Lubricating oils and greases, not made in petroleum refineries	7	24	17	34	47	58,199	28,460	347,272	2,453	500,011	240,286
Macaroni, spaghetti, vortricelli, and noodles	68	105	1,122	564	5,120	477,177	1,466,338	6,484,982	261,415	11,722,791	4,976,394
Machine-tool accessories and small metal-working tools, not elsewhere classified	41	85	470		697	280,366	787,920	204,029	20,716	2,004,544	1,683,790
Marble, granite, slate, and other stone products	174	667	3,447	492	21,952	2,677,364	9,195,314	7,468,909	441,371	25,164,880	17,254,600
Mattresses and bed spring, not elsewhere classified	151	268	1,201	55	1,912	747,117	2,067,820	6,405,645	73,115	12,166,081	5,687,321
Meat packing, wholesales	64	1,042	4,648	7,675	5,694	2,767,203	8,079,312	147,665,930	972,836	170,535,975	27,896,774
Meat packing and cuttings, ground or otherwise treated	4	21	63	100	313	50,336	81,667	295,069	13,287	594,455	285,499
Minerals and picture frames	55	178	790		969	614,506	1,107,651	1,733,956	41,038	4,761,571	2,986,577
Mirrors, framed and unframed	66	238	1,057	160	1,113	644,807	1,840,517	2,866,686	76,789	6,861,146	3,917,671
Models and patterns, not including paper patterns	90	159	693	70	1,112	540,549	1,341,436	787,106	40,911	4,093,794	3,265,777
Motion pictures, not including projection in theaters	30	1,155	1,695	264	2,586	6,184,643	3,640,201	9,279,944	181,519	43,871,940	34,410,477
Motor-vehicle bodies and motor-vehicle parts	93	371	2,049	15	5,015	1,253,121	3,386,420	4,046,212	187,412	10,926,647	6,693,023
Musical-instrument parts and materials: Piano and organ	12	85	483	510	762	244,511	502,821	494,189	37,952	1,053,979	1,421,838
Musical instruments and parts and materials, not elsewhere classified	33	58	244	12	453	153,264	375,445	395,046	17,318	1,396,019	983,061
Nonferrous-metal alloys and products, not including aluminum products	153	1,027	3,910	6,502	5,633	3,222,580	6,490,768	18,847,222	375,437	39,185,010	19,962,345
Optical goods	31	134	630		378	462,261	1,015,960	1,228,206	27,060	3,007,237	2,351,971
Paints and varnishes	134	1,234	3,587	6,361	12,889	4,773,832	5,486,730	44,081,988	688,543	74,393,173	28,992,642
Paper goods, not elsewhere classified	77	579	2,544	2,123	3,158	1,763,000	2,842,454	9,245,626	162,810	10,499,900	10,091,464
Patent or proprietary medicines and compounds	136	927	1,549	645	1,700	3,210,905	1,943,951	8,292,507	123,791	34,372,888	25,956,590
Pens, fountain and stylographic; pen points, gold, steel, and brass	30	151	656	12	606	467,097	870,527	2,141,705	22,762	4,416,969	2,252,532
Perfumes, cosmetics, and other toilet preparations	274	2,778	6,106	838	4,338	7,169,000	6,840,881	27,061,270	271,626	95,079,301	67,746,405
Photo-engraving, not done in printing establishments	84	926	2,841		1,300	3,419,181	8,609,342	2,304,246	244,470	18,505,126	15,956,410
Pipes (tobacco)	12	177	938	200	1,383	418,204	1,187,623	1,004,069	44,032	3,261,000	2,213,808
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills	188	600	3,067	6,160	13,719	2,482,010	5,934,295	11,954,991	299,745	26,587,481	14,332,745
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	22	97	444	160	896	292,287	656,883	1,539,478	59,842	3,272,091	1,672,776
Printing and publishing, book and job	2,000	10,984	25,431	43	30,782	31,324,980	52,245,944	40,072,314	1,760,205	237,431,400	185,998,881
Printing and publishing, music	62	804	491		515	2,536,088	844,479	884,875	20,888	9,818,115	8,912,352
Printing and publishing, newspaper and periodical	763	20,309	13,026	355	29,104	73,536,028	36,383,488	76,271,919	1,431,381	366,930,262	289,235,962
Printing materials, not including type or ink	12	52	159	160	263	183,860	294,092	354,558	25,057	1,500,700	1,121,085
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	27	83	302	350	457	227,787	612,771	1,111,576	22,884	2,013,309	1,478,849
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint	5	19	18		96	57,705	26,230	162,040	1,687	804,101	140,374
Rubber goods other than tires, inner tubes, and boots and shoes	30	304	3,005	6,065	6,035	1,204,426	4,437,278	8,704,670	351,182	20,266,772	11,210,920
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	56	67	277		1,171	207,773	508,389	4,824,039	74,924	6,540,826	1,641,863
Screw-machine products and wood screws	13	40	251		683	195,443	436,757	654,715	33,798	2,329,613	1,641,100
Ship and boat building, steel and wooden, including repair work	48	929	9,139	1,410	55,767	2,685,108	10,908,622	10,351,692	712,503	38,917,980	27,853,765
Shirts	207	541	3,390		845	1,517,436	4,111,411	26,473,377	88,160	49,313,687	22,787,160
Signs and advertising novelties	202	519	2,062	10	1,214	1,673,520	3,595,055	4,299,503	86,677	14,121,590	9,735,410
Silk and rayon manufactures	97	513	3,374	50	4,389	1,346,677	4,507,096	35,463,054	245,515	55,781,422	20,072,853
Soda-water apparatus	17	53	127		310	104,000	244,285	702,268	10,180	1,409,960	697,024
Sporting and athletic goods, not including firearms or ammunition	20	68	442	50	308	140,355	612,294	1,125,880	14,279	2,423,750	1,293,597
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	64	565	2,950	1,719	5,683	1,820,661	3,728,447	7,554,523	316,676	17,872,685	10,001,486
Stationery goods, not elsewhere classified	86	231	1,120	160	782	785,390	1,358,160	2,466,789	42,763	6,203,209	3,693,657
Statuary and art goods, factory product	31	85	479		170	317,752	1,327,348	493,372	17,516	2,698,322	2,247,484
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	28	01	148		519	345,597	238,703	1,018,451	19,814	2,113,370	1,076,105
Steam fittings and steam and hot-water heating apparatus	9	58	141	35	233	176,760	195,693	640,524	6,066	1,377,837	730,317
Stereotyping and electrotyping, not done in printing establishments	37	317	1,267	146	4,112	1,160,135	3,220,051	1,139,191	230,392	7,841,969	6,472,886

See footnotes at end of this section, p. 380.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
NEW YORK CITY—Continued											
Stoves and ranges (other than electric) and warm-air furnaces.....	11	49	286	-----	324	Dollars 180,936	Dollars 413,183	Dollars 1,015,208	Dollars 24,293	Dollars 2,154,434	Dollars 1,114,933
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	255	1,123	4,418	569	0,615	3,859,283	8,524,388	15,172,640	200,392	30,354,215	20,891,183
Textile machinery and parts.....	9	15	33	-----	176	24,245	91,114	86,188	5,611	298,761	209,062
Theatrical scenery and stage equipment ^a	20	64	201	-----	318	320,028	404,935	801,127	11,580	2,297,033	1,484,326
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	161	519	3,303	-----	1,436	1,405,107	4,307,841	8,783,966	174,749	19,883,715	10,925,000
Umbrellas, parasols, and canes ^a	92	131	816	1	430	362,816	1,004,477	4,375,794	20,475	7,595,839	2,690,570
Waste.....	6	9	54	120	123	34,022	52,198	224,447	8,335	456,699	223,917
Watch and clock materials and parts, except watch-cases.....	3	4	17	-----	5	14,250	23,086	30,282	220	97,250	60,748
Window and door screens and weather strip.....	29	49	124	5	312	149,313	210,689	434,816	13,605	1,059,430	611,009
Window shades and fixtures.....	101	101	436	-----	604	269,738	603,043	2,059,432	20,338	4,662,193	2,012,423
Wirework, not elsewhere classified.....	77	295	1,598	10	2,100	986,372	2,135,524	2,812,506	118,930	8,153,027	5,221,591
Wood turned and shaped and other wooden goods, not elsewhere classified.....	52	82	307	32	1,036	236,397	539,262	1,356,312	29,003	3,249,438	1,864,123
Other industries.....	3,063	19,561	95,409	140,368	132,554	53,524,304	139,915,235	522,133,541	27,751,561	919,813,286	369,928,184

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.
^b 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 New York City have been included with those for the city, as specified in footnotes 3, 4, 5, and 6, to avoid disclosing, exactly or approximately, the data reported by individual establishments.
³ Includes data for 2 establishments located outside New York City.
⁴ Includes data for 3 establishments located outside New York City.
⁵ Includes data for 1 establishment located outside New York City.
⁶ Includes data for 4 establishments located outside New York City.

ROCHESTER

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 8 and 9), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	936	11,458	58,446	41,504	78,020	Dollars 31,088,400	Dollars 82,410,463	Dollars 196,036,599	Dollars 6,337,382	Dollars 380,701,393	Dollars 237,727,412
Beverages.....	15	25	63	90	226	52,225	108,887	174,720	30,213	506,150	301,208
Bookbinding and blank-book making.....	6	39	192	-----	103	162,118	258,921	319,954	7,232	922,885	595,699
Boot and shoe findings, not made in boot and shoe factories.....	4	12	137	-----	84	33,596	95,110	269,621	5,970	498,165	222,574
Boots and shoes, other than rubber.....	27	430	4,390	740	1,609	1,102,407	4,832,254	7,789,568	77,958	18,567,042	10,699,510
Boxes, paper, not elsewhere classified.....	19	152	1,180	485	440	480,214	1,283,853	1,006,180	39,583	4,665,445	2,719,073
Bread and other bakery products.....	123	91	1,083	11	1,636	159,310	1,577,895	3,684,592	173,058	7,640,114	3,782,464
Brooms.....	3	1	30	-----	23	(?)	31,340	89,352	1,510	151,800	60,938
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	8	199	712	195	2,155	460,347	763,095	4,030,145	64,288	8,379,469	3,385,036
Carbon paper and inked ribbons.....	7	104	197	200	301	383,717	302,587	1,453,558	20,225	2,946,809	1,473,026
Cigars and cigarettes.....	7	2	24	-----	4	(?)	18,934	10,450	402	63,703	43,842
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	39	888	10,647	700	1,468	2,894,133	12,920,871	21,695,560	133,763	47,724,512	25,990,249
Clothing, women's, not elsewhere classified.....	8	5	99	-----	19	17,580	78,870	172,492	1,642	367,497	193,303
Coffee and spice, roasting and grinding.....	6	13	64	-----	318	32,320	64,880	3,060,580	11,932	4,170,067	1,097,555
Concrete products.....	10	30	117	20	366	82,791	191,091	195,562	11,150	629,622	422,910
Confectionery.....	12	62	393	-----	440	182,383	351,942	806,572	27,112	1,773,103	939,419
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	11	35	177	-----	104	126,054	230,155	311,228	7,513	856,403	537,602
Cutlery (not including silver and plated cutlery) and edge tools.....	5	9	81	-----	620	22,684	100,733	122,568	6,260	340,499	211,068
Electrical machinery, apparatus, and supplies ^a	17	1,310	5,180	2,005	7,456	3,322,180	7,800,397	13,123,612	338,365	34,822,358	21,360,381
Electroplating.....	7	3	59	-----	124	5,502	39,537	28,119	2,969	192,499	161,411
Engraving, steel and copperplate, and plate printing.....	7	41	88	-----	49	80,757	100,754	182,161	2,590	610,771	435,020
Flavoring extracts and flavoring sirups.....	12	133	248	434	280	530,420	287,929	2,700,619	28,294	6,757,066	4,028,153
Foundry and machine-shop products, not elsewhere classified.....	62	733	3,289	3,030	6,940	1,967,885	5,048,499	6,137,776	486,813	22,537,556	15,962,997
Fur goods.....	5	9	69	-----	6	27,035	81,517	111,755	2,404	292,690	178,531
Furniture, including store and office fixtures ^a	33	280	1,723	1,620	2,328	1,060,793	2,941,154	3,499,791	118,579	9,914,582	6,320,212
Glass products (except mirrors) made from purchased glass.....	7	18	80	-----	38	20,327	59,660	100,544	5,022	912,180	306,614
Ice cream.....	16	28	64	150	301	92,726	117,830	471,926	25,254	1,183,160	685,981
Ice, manufactured ^a	7	30	60	600	3,750	51,535	114,951	24,691	40,140	655,803	536,072
Lithographing.....	6	103	746	1,690	795	500,652	1,151,434	1,200,422	63,256	3,864,623	2,600,945
Macaroni, spaghetti, vermicelli, and noodles.....	8	11	63	-----	201	20,847	59,660	418,692	20,211	686,639	247,736
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	16	22	254	-----	305	95,168	556,745	116,504	15,751	1,163,184	1,030,929
Machine tools.....	6	453	1,671	1,000	3,702	1,164,720	2,834,091	2,159,985	115,928	11,438,814	9,162,901
Mattresses and bed springs, not elsewhere classified.....	4	18	62	-----	131	44,593	39,291	278,584	4,167	498,404	215,653
Mirrors, framed and unframed.....	3	1	12	40	17	(?)	20,100	62,500	893	97,792	44,390
Models and patterns, not including paper patterns.....	7	7	34	-----	57	16,697	49,814	14,142	1,810	137,586	121,634
Nonferrous-metal alloys and products, not including aluminum products.....	11	41	234	175	468	129,242	370,082	1,242,329	33,860	1,981,820	706,131
Optical goods.....	8	335	3,918	58	6,385	1,269,958	5,684,424	3,523,697	348,167	14,043,830	10,171,966
Paper goods, not elsewhere classified.....	6	36	49	150	292	67,863	67,373	268,550	10,132	540,047	261,365

See footnotes at end of this section, p. 381.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
ROCHESTER—Continued											
Patent or proprietary medicines and compounds ^c	13	42	45	-----	07	Dollars 104,055	Dollars 58,018	Dollars 288,344	Dollars 4,469	Dollars 1,145,803	Dollars 857,550
Photo-engraving, not done in printing establishments.....	5	19	70	-----	72	83,130	236,510	37,945	5,264	541,248	498,039
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	15	79	410	1,776	1,056	259,780	669,363	750,775	45,158	1,923,595	1,127,062
Printing and publishing, book and job ^d	75	430	943	-----	1,323	1,158,553	1,549,070	2,040,123	62,108	8,232,569	6,130,248
Printing and publishing, newspaper and periodical.....	16	716	483	-----	1,381	1,404,934	1,192,017	1,401,263	52,853	7,641,404	6,097,288
Pumps (hand and power) and pumping equipment.....	5	48	115	45	695	130,013	123,803	354,076	9,629	800,272	436,567
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	11	5	50	60	434	16,040	73,470	1,072,142	28,979	1,342,384	241,263
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	6	154	639	-----	1,226	350,651	749,516	1,326,904	39,014	3,604,257	2,238,339
Stationery goods, not elsewhere classified.....	3	3	24	-----	32	6,450	22,550	16,900	1,115	88,154	70,139
Stereotyping and electrotyping, not done in printing establishments.....	4	15	27	-----	202	64,483	54,196	21,534	6,899	206,060	177,627
Stoves and ranges (other than electric) and warm-air furnaces.....	5	66	314	300	1,111	200,155	406,692	330,721	45,395	1,223,253	847,137
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	7	67	256	185	911	227,821	438,107	972,044	17,610	2,021,188	1,030,934
Wirework, not elsewhere classified.....	3	12	33	-----	31	29,154	46,722	37,230	1,912	163,009	124,848
Wood turned and shaped and other wooden goods, not elsewhere classified.....	4	3	13	-----	72	17,680	21,845	53,557	2,002	112,930	57,380
Other industries.....	213	4,045	17,694	25,477	21,126	10,392,222	20,079,018	45,466,999	3,731,410	139,939,996	90,741,587

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

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

^d The figures for a few establishments located outside Rochester have been included with those for the city, as specified in footnotes 8 and 9, to avoid disclosing, exactly or approximately, the data reported by individual establishments.

^e Includes data for 1 establishment located outside Rochester.

^f Includes data for 2 establishments located outside Rochester.

SCHENECTADY

[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 industries—namely, "Electrical machinery, apparatus, and supplies" and "Locomotives, not made in railroad repair shops"—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.....	114	4,727	25,368	57,181	117,130	Dollars 10,315,704	Dollars 43,410,388	Dollars 83,346,370	Dollars 3,187,076	Dollars 167,146,411	Dollars 80,612,905
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SYRACUSE

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 11 and 12), and therefore are slightly smaller than the sums of the items for the individual industries.]

All industries, total.....	445	5,077	26,486	11,835	70,217	Dollars 13,162,687	Dollars 39,151,879	Dollars 73,747,512	Dollars 3,808,500	Dollars 181,798,450	Dollars 104,152,438
Awnings, tents, sails, and canvas covers.....	4	2	31	12	13	(9)	32,511	53,504	2,455	127,002	71,043
Beverages ¹¹	10	21	51	1,060	117	46,029	72,509	150,613	26,982	483,732	306,137
Boxes, paper, not elsewhere classified.....	8	35	301	100	304	123,614	284,037	760,035	16,475	1,467,232	690,722
Bread and other bakery products.....	57	93	902	114	1,677	294,989	1,370,918	3,143,207	162,445	7,080,667	3,775,015
Candles.....	6	92	434	1,376	255	259,992	501,821	1,851,867	49,291	3,860,992	1,949,834
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	3	4	8	20	7	5,800	4,224	24,515	318	47,763	22,930
Cigars and cigarettes.....	7	13	90	-----	20	31,266	69,298	103,817	1,687	254,584	149,030
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	15	88	1,211	-----	166	219,570	1,575,526	1,709,619	23,140	4,109,121	2,385,362
Coffee and spice, roasting and grinding.....	5	4	18	-----	63	19,075	20,933	298,601	4,128	451,241	148,512
Confectionery.....	6	14	101	-----	227	52,520	94,358	330,016	10,371	576,571	226,284
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	6	46	-----	31	16,380	24,480	51,800	1,290	133,200	80,610
Druggists' preparations ¹¹	7	36	32	-----	52	117,846	37,347	121,124	3,018	386,569	262,427
Foundry and machine-shop products, not elsewhere classified.....	41	554	2,482	780	7,390	1,345,426	3,694,064	4,281,466	282,269	16,060,977	11,497,242
Furniture, including store and office fixtures ¹²	9	71	622	390	368	269,989	960,960	1,083,182	36,123	2,047,806	1,828,501
Ice cream.....	6	48	132	-----	559	181,415	198,733	637,888	12,497	1,470,485	820,100
Ice, manufactured.....	3	20	42	210	2,701	57,492	86,458	36,387	81,612	460,888	332,889
Knit goods.....	3	13	60	-----	56	27,718	84,458	137,028	2,081	286,379	147,270
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	9	27	180	75	284	130,333	337,124	97,124	12,025	831,850	722,701
Meat packing, wholesale ¹¹	5	13	51	5	490	29,074	116,453	962,641	19,055	1,219,644	237,948
Models and patterns, not including paper patterns.....	5	9	29	-----	45	18,590	61,411	16,044	3,320	160,778	141,408
Motor-vehicle bodies and motor-vehicle parts.....	51	577	3,370	425	10,316	1,688,178	5,629,778	10,792,196	458,514	23,811,664	12,560,954

See footnotes at end of this section, p. 382.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
SYRACUSE—Continued											
Patent or proprietary medicines and compounds ¹¹	5	18	9	-----	33	Dollars 30,942	Dollars 8,379	Dollars 53,208	Dollars 953	Dollars 175,790	Dollars 110,635
Photo-engraving, not done in printing establishments.....	4	13	46	-----	15	36,141	103,344	31,679	2,785	286,826	252,302
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills ¹¹	9	16	83	350	550	23,864	145,275	202,801	11,599	462,340	247,946
Printing and publishing, book and job ¹²	45	78	306	-----	424	186,398	473,054	393,580	22,174	1,581,030	1,166,199
Printing and publishing, newspaper and periodical.....	10	629	415	-----	945	1,305,277	925,483	1,175,361	46,086	5,801,543	4,580,098
Structural and ornamental iron and steel work not made in plants operated in connection with rolling mills ¹¹	7	62	153	-----	1,232	189,114	254,910	659,204	19,944	1,374,800	695,658
Wirework, not elsewhere classified.....	3	3	10	-----	15	4,176	10,663	7,555	718	33,199	24,926
Other industries.....	152	2,532	15,385	7,004	32,773	6,638,710	22,208,282	44,716,831	2,596,443	106,416,886	59,103,612

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.¹⁰ Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."¹¹ The figures for a few establishments located outside Syracuse have been included with those for the city, as specified in footnotes 11 and 12, to avoid disclosing the data reported by individual establishments.¹¹ Includes data for 1 establishment located outside Syracuse.¹² Includes data for 2 establishments located outside Syracuse.

UTICA

All industries, total.....	216	1,782	13,195	17,120	34,490	Dollars 4,335,843	Dollars 14,319,579	Dollars 29,155,819	Dollars 2,214,760	Dollars 65,186,803	Dollars 33,316,224
Beverages.....	9	31	97	553	343	83,497	106,111	388,302	33,529	1,016,559	506,608
Boxes, paper, not elsewhere classified.....	3	10	130	-----	368	26,507	111,721	228,442	9,476	1,058,846	221,928
Bread and other bakery products.....	35	37	293	-----	556	79,662	429,512	924,228	44,001	2,203,047	1,234,818
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	9	178	880	50	236	378,092	974,567	1,736,728	27,233	4,050,692	2,286,731
Concrete products.....	3	2	5	-----	20	(¹³)	7,142	8,721	379	46,394	37,294
Foundry and machine-shop products, not elsewhere classified.....	10	78	384	135	808	199,940	570,524	988,566	56,103	2,270,497	1,225,823
Ice cream ¹⁴	6	27	71	6	446	55,585	101,183	514,115	18,975	1,068,726	505,636
Knit goods.....	13	280	4,997	5,155	4,480	782,528	3,318,732	7,317,863	259,151	14,003,656	6,428,842
Printing and publishing, book and job.....	18	22	65	-----	217	45,521	143,665	199,359	6,088	569,214	372,707
Printing and publishing, newspaper and periodical.....	8	189	209	-----	426	327,370	381,016	324,896	16,898	1,859,109	1,517,615
Other industries ¹⁵	102	928	6,634	11,227	26,580	2,356,141	8,175,406	16,635,839	1,742,927	37,608,063	19,330,207

¹³ Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."¹⁴ The figures for the "Ice cream" 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.¹⁵ See footnote 14.

YONKERS

[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—"Carpets and rugs, wool, other than rag," as measured by number of wage earners, and "Sugar refining, cane," 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.....	141	1,465	13,127	19,131	12,311	Dollars 3,880,270	Dollars 17,283,517	Dollars 71,317,461	Dollars 1,848,294	Dollars 113,536,679	Dollars 40,370,924
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NORTH CAROLINA

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers	Fuel and purchased energy		
1929	3,797	209,826	839,945	317,730	522,206	\$160,867,988	\$618,911,600	\$596,046,728	\$22,864,962	\$1,311,924,352	\$693,012,662
1927	2,984	204,690	810,798	305,624	505,174	158,394,434	660,819,236	538,121,136	22,698,100	1,154,646,612	593,827,376
1925	2,614	182,234	666,861	264,483	372,378	134,237,097	550,706,965	(⁵)	(⁵)	1,050,434,117	499,727,152
1923	2,670	173,687	606,397	288,260	318,147	127,637,821	516,148,042	(⁵)	(⁵)	951,910,599	435,761,957
1921	2,602	135,833	(⁶)	(⁶)	(⁶)	94,234,837	379,964,936	(⁵)	(⁵)	665,117,788	285,152,802
1919	5,990	157,659	549,808	352,424	197,394	126,680,099	526,006,181	512,950,300	13,016,881	943,807,949	416,901,768
1914	5,507	136,844	506,852	377,662	128,690	40,038,447	169,941,971	163,706,300	6,235,671	289,411,987	119,470,016
1909	4,931	121,473	377,305	317,261	60,044	34,354,625	121,861,530	117,592,442	4,269,088	216,650,055	94,704,525
1904	3,272	85,339	216,120	213,097	2,423	21,375,294	79,288,004	76,846,912	2,421,092	142,520,776	63,252,772
1899	3,465	72,322	153,851	152,957	894	14,051,784	44,854,224	(⁵)	(⁵)	85,274,083	40,419,859
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929	27.2	2.6	3.6	4.0	3.4	1.6	10.4	10.8	0.7	13.6	16.7
1925-1927	14.2	12.3	21.6	3.8	35.7	18.0	1.8			9.9	18.8
1923-1925	-2.1	4.9	10.0	2.2	17.0	5.3	6.7			10.4	14.7
1921-1923	2.6	27.9				35.3	35.8			43.1	52.8
1919-1921	-56.6	-13.8				-26.6	-27.9			-29.5	-31.6
1919-1929	-36.7	33.1	52.8	-9.8	164.6	27.0	17.5	16.2	64.3	39.0	60.2
1909-1919	21.7	29.8	45.7	11.1	228.7	268.7	332.4	336.2	226.0	335.6	339.8
1899-1909	42.3	68.0	145.2	107.4	6,616.3	144.5	171.7			154.1	134.5

¹ Not including salaried employees.

² 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.

³ 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.

⁴ Not reported separately.

⁵ Not called for on schedule.

⁶ 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) ¹	Horsepower ²	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	3,170,270	3,797	209,826	839,945	\$160,867,988	\$618,911,600	\$596,046,728	\$22,864,962	\$1,311,924,352	\$693,012,662
<i>Counties³</i>										
Alamance	42,140	126	6,992	15,483	5,617,783	13,391,802	12,930,966	400,896	27,229,186	13,887,324
Alexander	12,922	20	376	1,995	234,870	897,065	842,664	54,601	1,409,665	512,600
Alleghany	7,186	10	28	156	10,470	17,315	17,315		52,000	34,685
Anson	29,349	20	871	4,103	624,693	2,124,515	2,022,317	102,198	3,631,774	1,507,259
Ashie	21,019	20	64	380	36,965	101,281	101,281		208,026	107,345
Avery	11,803	11	107	502	72,568	80,062	76,068	3,994	284,856	204,794
Beaufort	35,026	39	1,200	4,538	880,972	1,888,766	1,852,556	36,200	4,090,589	2,201,833
Bertie	25,844	16	300	1,676	234,638	324,732	300,723	24,009	997,367	672,635
Bladen	22,389	49	1,122	9,133	653,843	2,218,549	2,192,939	66,154	3,859,333	1,340,784
Brunswick	15,818	13	463	3,339	364,801	1,627,226	1,574,113	53,113	2,589,328	962,602
Buncombe	97,937	74	3,614	22,123	3,413,642	8,934,731	8,498,432	436,299	16,689,917	7,755,186
Burke	29,410	36	3,065	8,362	2,354,350	9,058,093	8,833,593	224,500	14,783,985	5,725,892
Cabarrus	44,331	42	10,481	32,209	7,107,694	18,666,421	17,562,220	1,094,201	30,351,926	11,695,505
Caldwell	28,016	60	4,150	17,100	2,820,535	11,205,917	10,748,092	457,825	17,345,835	6,139,918
Carters	16,900	24	184	2,015	155,810	422,064	366,120	55,944	1,041,323	619,259
Caswell	18,214	23	95	719	64,342	61,960	61,960		188,187	126,227
Catawba	43,991	106	5,663	16,187	4,113,809	12,980,098	12,527,371	452,727	21,742,515	8,762,417
Chatham	24,177	63	971	5,500	633,513	2,235,588	2,109,160	126,428	3,693,667	1,459,081
Cherokee	10,151	15	333	1,873	232,674	1,100,035	1,042,909	57,126	1,653,427	553,392
Chowan	11,282	13	560	2,609	293,333	2,303,762	2,260,584	43,178	3,206,075	902,313
Clay	5,434	10	37	210	25,689	39,497	39,247	250	92,397	62,900
Cleveland	51,914	45	4,604	15,590	3,514,150	11,690,840	11,135,131	555,709	18,885,572	7,104,732
Columbus	37,720	36	1,699	5,126	1,273,554	1,240,682	1,209,079	64,476	3,720,013	2,446,459
Craven	30,665	38	1,898	7,480	1,845,927	1,975,198	1,898,259	76,939	4,831,388	2,866,190
Cumberland	45,219	58	2,545	10,225	1,501,652	4,545,730	4,302,322	243,408	8,310,966	3,765,236
Dare	5,202	4	16	222	12,780	7,404	7,404		40,250	32,846
Davidson	47,865	89	6,387	20,066	4,937,136	14,185,561	13,671,771	513,780	23,471,396	9,285,845
Durham	35,103	17	446	2,474	304,422	1,76,996	1,76,996		736,929	609,933
Durham	67,196	85	7,365	30,255	6,080,384	41,762,403	41,106,556	655,847	138,224,445	96,402,042
Edgecombe	47,894	56	2,495	12,118	2,505,262	7,118,774	6,818,816	299,958	11,121,999	4,003,225
Forsyth	111,631	116	18,405	31,157	14,960,972	104,832,178	104,039,375	842,803	305,914,870	201,932,692
Franklin	29,450	31	500	2,688	388,931	1,367,562	1,325,722	41,840	2,128,033	760,471
Gaston	78,003	136	18,444	80,233	12,743,568	40,639,668	37,675,155	3,064,503	69,083,052	28,443,394
Gates	10,551	7	202	390	123,063	88,167	88,167		260,577	172,410
Graham	5,841	8	288	385	297,262	273,321	273,321		856,112	582,791
Granville	28,723	30	449	2,012	339,084	861,757	816,627	35,130	1,539,381	687,624
Groene	18,656	3	27	90	11,400	9,330	9,330		39,120	20,790
Guilford	133,010	235	19,269	56,756	16,431,302	56,070,058	54,540,858	1,529,200	96,728,261	40,668,203
Hallfax	53,246	45	3,479	23,647	2,780,709	7,868,810	7,346,834	521,976	15,160,700	7,291,860
Harnett	37,911	39	1,774	8,866	1,206,708	5,301,949	5,109,701	192,248	8,153,733	2,861,784

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

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

Table with columns: COUNTY OR CITY, Population, 1930, Number of establishments, Wage earners (average for the year) 1, Horse-power 2, 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.

1 Not including salaried employees. 2 Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy. 3 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").

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 ¹	228,959	101,961	66,998	2,534	2,506	28	2,345	2,264	81	14,254	12,181	2,073	209,826	145,010	64,816
1919 ^{1,4}	175,423	132,394	43,029	6,076	6,019	57	2,153	2,111	42	9,535	7,873	1,662	157,659	116,391	41,268
1914 ⁴	151,335	118,974	32,361	5,950	5,889	61	1,637	1,613	24	6,904	6,058	846	136,844	105,414	31,430
1909 ⁴	133,453	105,175	28,278	5,451	5,395	56	1,400	1,456	4	5,060	4,537	523	121,473	93,787	27,686

¹ No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.
² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 70; male, 73; female, 3; other salaried officers and employees—total, 435; male, 309; female, 126. 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.
³ Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.
⁴ 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 ¹	209,820	206,624	208,711	211,452	212,037	209,695	208,061	<i>206,009</i>	208,707	211,823	213,259	212,083	208,756	96.6
1919 ¹	157,659	157,470	154,933	156,407	155,349	148,683	<i>147,963</i>	150,453	152,597	159,740	167,146	168,665	172,512	85.8
1914 ¹	136,844	138,553	138,731	141,491	140,511	139,150	137,182	136,775	135,011	134,465	133,804	133,544	<i>132,911</i>	93.9
1909 ¹	121,473	<i>117,007</i>	118,464	120,354	120,038	118,441	117,713	118,953	120,417	123,496	126,265	127,774	128,754	90.9

¹ The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or 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.....	3,797	209,820	45 and over but under 48.....	54	2,380
			48.....	209	17,444
Not reported.....	1,207	4,807	Over 48 but under 54.....	267	15,477
Under 40.....	46	724	54.....	92	2,269
40.....	48	2,569	Over 54 but under 60.....	1,033	121,605
Over 40 but under 44.....	10	308	60 and over.....	739	41,193
44 and over but under 45.....	92	1,050			

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.....	3,797	5,999	4,931	209,826	157,659	121,473	51 to 100.....	249	234	289	18,546	17,129	16,963
No wage earners.....	35	353	171				101 to 250.....	322	252	168	52,602	59,865	25,242
1 to 5.....	1,912	3,488	2,496	7,071	8,474	6,244	251 to 500.....	117	58	64	40,990	19,329	21,771
6 to 20.....	714	1,204	1,356	8,306	12,452	14,783	501 to 1,000.....	40	27	16	25,890	19,289	10,695
21 to 50.....	384	370	415	12,960	12,212	13,325	1,001 to 2,500.....	21	13	6	25,658	28,909	12,450
							2,501 and over.....	3			17,803		

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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	3,797	5,999	4,931	209,826	157,659	121,473	\$1,311,024,352	\$943,807,949	\$216,656,055	\$693,012,662	\$416,901,768	\$94,794,525
Less than \$5,000.....	(²)	1,608	2,322	(³)	2,024	6,970	(²)	4,277,373	5,151,695	(²)	3,087,500	3,432,558
\$5,000 to \$19,999.....	1,678	2,178	1,368	6,556	8,478	11,902	15,529,424	22,893,804	13,690,273	9,812,039	15,198,760	7,799,056
\$20,000 to \$99,999.....	944	1,295	820	11,102	14,465	24,074	74,061,195	56,090,285	37,172,248	53,716,928	28,360,505	16,594,882
\$20,000 to \$49,999.....	560	(³)	(³)	5,030	(³)	(³)	17,835,457	(³)	(³)	9,807,130	(³)	(³)
\$50,000 to \$99,999.....	384	(³)	(³)	8,072	(³)	(³)	57,125,738	(³)	(³)	43,908,798	(³)	(³)
\$100,000 to \$499,999.....	752	584	(³)	46,859	33,265	(³)	185,797,588	142,030,821	(³)	81,099,688	58,947,068	(³)
\$100,000 to \$249,999.....	433	(³)	409	17,579	(³)	(³)	71,051,025	(³)	(³)	33,298,762	(³)	(³)
\$250,000 to \$499,999.....	319	(³)	(³)	29,280	(³)	(³)	114,746,563	(³)	(³)	48,400,926	(³)	(³)
\$500,000 to \$999,999.....	244	192	(³)	41,828	29,594	(³)	171,325,614	136,343,787	(³)	70,187,649	55,550,198	(³)
\$1,000,000 and over.....	179	144	22	103,481	69,843	20,595	864,310,531	581,505,879	58,008,310	477,597,358	255,747,737	20,065,620
\$1,000,000 to \$2,499,999.....	128	(³)	(³)	46,873	(³)	(³)	180,050,359	(³)	(³)	75,144,400	(³)	(³)
\$2,500,000 to \$4,999,999.....	33	(³)	(³)	22,231	(³)	(³)	114,370,006	(³)	(³)	44,211,923	(³)	(³)
\$5,000,000 and over.....	18	(³)	(³)	34,377	(³)	(³)	563,884,100	(³)	(³)	358,240,975	(³)	(³)

¹ 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.

² No data.
³ 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.....	3,797	5,999	209,826	157,659	\$1,311,024,352	\$943,807,949	\$693,012,662	\$416,901,768
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1,673	1,008	190,024	135,350	1,240,867,498	853,423,735	657,783,562	371,801,643
Other forms of ownership or control (individual, partnership, etc.).....	2,124	4,991	10,802	22,309	71,056,854	90,384,214	35,229,100	45,100,125
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	450	(¹)	84,173	(¹)	819,502,594	(¹)	478,396,417	(¹)
Independent (single-unit).....	3,317	(¹)	125,653	(¹)	492,421,758	(¹)	214,616,245	(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 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							
The State:																	
1929.....	839,045	317,789	2,288	183,202	117	90,252	277	9,753	271	34,532	70,510	522,206	16,016	100,202			
1927.....	810,798	305,624	1,739	205,752	96	54,463	240	9,082	241	35,427	60,095	505,174	8,028	61,423			
1925.....	666,861	294,483	1,028	202,569	88	46,419	181	6,958	225	38,537	49,833	372,378	8,611	32,037			
1919 ¹	549,808	352,424	4,425	277,402	77	25,840	406	6,556	548	42,626	16,339	197,384	5,448	63,162			
1914 ¹	506,352	377,692	4,929	331,132	(²)	(³)	492	5,379	523	41,181	4,702	128,660	2,037	34,501			
Counties in which aggregate horsepower exceeded 25,000: 1929																	
Cabarrus.....	32,209	3,491	7	145	2	3,346					8,727	28,718	1,193	2,600			
Durham.....	30,255	18,368	38	4,876	16	13,142	3	80	5	270	1,978	11,887	1,087	4,991			
Forsyth.....	31,157	17,159	73	9,029	14	7,543	8	357	6	230	1,734	13,998	1,940	11,799			
Gaston.....	80,238	2,488	32	4,115	2	28	1	(⁴)	9	1,345	9,793	77,760	380	452			
Guilford.....	56,750	20,295	81	6,415	6	12,558	4	507	8	815	8,715	36,461	4,649	12,337			
Haywood.....	29,336	25,533	25	7,920	5	17,415	4	65	4	133	175	3,803	639	21,050			
Mecklenburg.....	35,637	8,329	26	4,516	6	3,755	3	58			2,728	28,308	244	1,295			
Rockingham.....	29,102	9,127	17	2,220	5	4,282	1	(⁴)	9	2,625	3,609	16,975	604	3,927			

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.

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 5 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	839,945	317,739	522,206	100,202	Lincoln.....	8,110	3,922	4,197	25
Alamance.....	15,483	5,937	9,546	2,358	McDowell.....	9,117	5,728	3,389	1,080
Alexander.....	1,995	702	1,293		Macon.....	607	563	44	
Alleghany.....	156	156			Madison.....	340	313	27	
Anson.....	4,103	997	3,106	65	Martin.....	673	481	242	
Ashe.....	380	358	22		Mecklenburg.....	36,637	8,320	28,308	1,295
Avery.....	502	417	85	(?)	Mitchell.....	1,135	803	332	
Beaufort.....	4,538	3,555	983		Montgomery.....	4,211	2,017	2,194	
Bertie.....	1,076	1,148	528	(?)	Moore.....	2,975	1,463	1,512	
Bladen.....	9,133	6,626	2,507	268	Nash.....	6,910	5,485	1,425	2,068
Brunswick.....	3,339	1,500	1,839		New Hanover.....	10,196	2,512	7,684	100
Buncombe.....	22,123	10,858	11,265	7,411	Northampton.....	780	766	14	
Burke.....	8,362	1,479	6,883		Onslow.....	646	3,646	(?)	
Cabarrus.....	32,209	3,491	28,718	2,000	Orange.....	5,728	1,700	4,028	
Caldwell.....	17,100	2,688	14,412	1,475	Pamlico.....	641	635	6	
Carteret.....	2,015	1,934	81		Pasquotank.....	4,720	2,095	2,634	400
Caswell.....	719	715	4		Pender.....	1,278	1,287	21	30
Catawba.....	16,187	4,211	11,976	820	Perquimans.....	1,428	1,235	193	120
Chatham.....	5,500	3,485	2,015		Person.....	3,579	125	3,454	
Cherokee.....	1,872	1,331	541	11	Pitt.....	2,649	2,543	406	140
Chowan.....	2,609	1,635	974	642	Polk.....	1,373	1,005	368	
Clay.....	210	203	7		Randolph.....	11,494	7,356	4,138	2,125
Cleveland.....	15,590	3,654	11,936	650	Richmond.....	17,652	4,450	13,202	165
Columbus.....	5,126	4,267	859		Robeson.....	10,800	2,287	8,512	
Craven.....	7,480	5,665	1,815	315	Rockingham.....	26,102	9,127	16,975	3,927
Cumberland.....	10,225	5,023	5,202	1,700	Rowan.....	10,192	2,167	17,025	1,441
Dare.....	222	222			Rutherford.....	10,783	7,417	12,366	745
Davidson.....	20,066	8,480	11,586	3,440	Sampson.....	1,820	1,251	578	
Duplin.....	2,474	2,460	14		Scotland.....	6,998	7,749	6,249	
Durham.....	30,255	18,368	11,887	4,091	Stanly.....	24,682	3,634	21,048	
Edgecombe.....	12,118	3,842	8,276	(?)	Stokes.....	1,128	275	853	
Forsyth.....	31,157	17,159	13,998	11,799	Surry.....	7,537	4,200	3,137	2,380
Franklin.....	2,688	1,800	1,388		Swain.....	1,421	512	109	
Gaston.....	80,238	2,488	77,750	452	Transylvania.....	2,435	2,420	6	430
Gates.....	390	390			Union.....	5,610	2,178	3,732	80
Graham.....	385	385			Vance.....	9,048	1,807	7,241	310
Granville.....	2,012	1,020	992		Wake.....	8,215	2,564	5,651	212
Greene.....	90	90			Warren.....	1,836	1,403	433	
Gullford.....	56,756	20,295	36,461	12,337	Washington.....	1,676	1,340	36	276
Hallifax.....	23,647	9,012	14,635	480	Watauga.....	472	344	108	
Harnett.....	8,866	1,991	6,875		Wayne.....	7,564	2,086	4,878	1,158
Haywood.....	29,336	25,533	3,803	21,050	Wilkes.....	8,936	6,480	2,456	1,884
Henderson.....	4,691	2,645	968	968	Wilson.....	2,908	2,452	2,452	882
Hertford.....	801	777	24	67	Yadkin.....	1,032	987	45	
Hoke.....	1,189	735	454		Yancey.....	208	208		
Iredell.....	15,859	3,989	11,870	1,975	All other counties.....	5,493	3,866	1,627	300
Jackson.....	4,350	3,500	850	2,155					
Johnston.....	7,398	1,867	5,531	(?)					
Jones.....	440	340	(?)	140					
Lee.....	4,145	1,600	2,536						
Lenoir.....	2,457	1,759	698	22					

¹ Horsepower of electric motors driven by energy generated in establishments reporting.
² Included in total for State but not shown separately to avoid disclosing data for a single establishment.
³ 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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 pounds).....	1,589,926	\$6,911,523	1,359,612	2,000,723	1,407,778	1,218,169	906,284
Anthracite (tons, 2,240 pounds).....	33,473	179,952	(³)	43,288	43,425	23,154	12,321
Bituminous (tons, 2,000 pounds).....	1,552,436	6,731,571	(³)	2,042,240	1,359,142	1,192,237	892,484
Coke (tons, 2,000 pounds).....	21,591	157,019	(³)	(³)	14,980	22,258	58,174
Fuel oils, including crude oils and gas oils (gallons) ⁴	6,198,987	405,133	(³)	(³)	1,026,828	1,248,408	750,330
Gasoline and kerosene (gallons) ⁵	533,090	92,013	(³)	(³)	523,950		
Gas, natural (M cubic feet).....			(³)	(³)	9,050	14,888	9,881
Gas, manufactured (M cubic feet).....	40,786	42,764	(³)	(³)			
Other fuels.....		139,201	(³)	(³)			
Electric energy purchased (kilowatt-hours).....	1,572,917,543	15,276,810	(³)	(³)	(³)	(³)	(³)
Total cost of fuel and purchased energy.....		\$7,23,024,463	\$22,698,100	\$2,452,908	\$13,916,881	\$6,235,671	\$4,299,088

¹ No data on cost of fuel, by kinds, were collected for years prior to 1929.
² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.
³ Not tabulated separately.
⁴ No data.
⁵ For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.
⁶ Data incomplete.
⁷ 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.
⁸ 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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	3,797	16,599	299,826	317,739	522,206	\$37,942,407	\$160,867,988	\$590,046,728	\$22,804,962	\$1,311,924,352	\$603,012,662
Agricultural implements.....	11	27	213	150	548	102,490	207,797	224,502	12,141	850,566	613,943
Awnings, tents, sails, and canvas covers.....	6	2	27		15	(³)	23,173	63,955		141,028	76,331
Baskets and rattan and willow ware, not including furniture.....	11	23	535	684	411	40,760	298,555	334,791	5,432	802,546	552,323
Beverages.....	148	183	757	70	2,032	552,616	619,421	3,311,098	94,810	8,469,686	5,083,778
Boxes, paper, not elsewhere classified.....	9	28	422		438	83,864	271,930	751,344	13,410	1,459,255	694,501
Boxes, wooden, except cigar boxes.....	23	62	798	2,260	1,804	143,258	498,362	1,772,525	15,573	2,075,164	1,187,066
Bread and other bakery products.....	83	164	1,949	516	2,292	303,390	1,291,827	3,592,058	164,565	7,229,865	3,472,642
Brooms.....	6	5	68		30	6,200	43,017	136,774	1,492	229,469	91,193
Brooms, other than rubber.....	3	6	22		46	11,525	18,338	11,622	740	57,473	45,111
Butter.....	15	21	49	30	401	38,590	55,838	342,403	12,301	1,035,678	180,974
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	4	5	67	523	48	9,973	21,876	93,005	6,363	194,502	95,224
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	6	11	88	39	215	26,532	45,850	290,304	1,537	461,737	169,896
Car and general construction and repairs, electric-railroad repair shops.....	8	9	85		208	19,971	98,261	77,336	592	196,187	118,259
Car and general construction and repairs, steam-railroad repair shops.....	15	215	4,950	2,889	6,993	547,093	5,959,250	5,832,164	240,778	12,579,459	6,500,487
Carrriages, wagons, sleighs, and sleds.....	4	30	142	400	484	64,125	139,056	203,412	6,392	566,430	356,626
Caskets, coffins, burial cases, and other morticians' goods.....	9	41	211	450	400	143,438	222,487	627,427	10,154	1,435,502	797,921
Cereal preparations.....	7	33	79	110	1,200	80,350	76,213	2,342,185	38,297	2,892,220	511,738
Cigars and cigarettes.....	8	4,430	13,778	21,005	4,470	7,937,776	11,783,472	139,178,118	434,076	480,038,850	340,425,756
Clay products (other than pottery) and nonclay refractories.....	58	135	1,458	3,561	7,142	294,866	1,000,760	236,058	896,861	3,122,899	1,980,980
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	11	59	1,763		447	210,822	991,866	3,789,788	20,837	5,543,631	1,733,006
Coffee and spice, roasting and grinding.....	9	15	14	36	84	24,336	16,064	310,329	4,743	449,405	134,333
Concrete products.....	19	34	147	21	366	78,225	152,806	180,108	6,610	521,388	334,604
Confectionery.....	17	40	233	45	215	80,721	198,361	747,232	17,262	1,523,330	768,842
Cooperage.....	30	48	220	580	93	66,257	163,028	871,640	2,385	1,369,760	496,741
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	17	17	147		34	52,541	134,299	376,515	1,830	683,826	395,472
Cordage and twine.....	11	63	1,725	2,625	5,847	130,651	1,058,365	5,093,823	222,341	7,925,174	2,600,010
Cotton goods.....	351	2,806	91,544	97,328	322,382	7,442,429	60,704,170	181,325,894	11,890,291	317,005,212	123,783,097
Cotton small wares.....	8	20	250		346	52,357	220,380	500,260	19,326	995,433	490,847
Dyeing and finishing textiles.....	18	242	2,363	4,777	4,780	636,094	1,052,693	10,497,052	325,542	16,079,262	5,266,608
Electrical machinery, apparatus, and supplies.....	6	11	68	30	128	27,178	56,736	103,774	4,267	259,716	161,675
Excelsior.....	3	10	30	110	137		28,921	66,253	4,552	118,817	48,012
Feeds, prepared, for animals and fowls.....	4	18	30	5	546	33,938	27,217	671,362	5,184	815,351	138,805
Fertilizers.....	79	359	2,140	3,855	12,568	758,048	1,550,798	10,069,134	232,289	22,956,326	6,634,368
Flour and other grain-mill products.....	201	175	469	4,376	9,315	393,063	444,937	10,714,871	193,092	14,240,105	3,332,142
Foundry and machine-shop products, not elsewhere classified.....	65	165	907	324	2,203	421,892	1,139,943	1,140,647	63,147	3,709,091	2,502,297
Furniture, including stores and office fixtures.....	140	1,039	15,000	17,546	20,619	2,816,767	12,822,706	29,070,295	654,673	56,737,459	27,012,621
Gas, manufactured, illuminating and heating.....	24	141	436	848	2,107	215,358	420,598	511,774	628,300	3,346,502	2,200,419
Ice cream.....	37	80	271	25	3,370	174,788	326,527	1,415,679	113,814	3,014,681	1,485,188
Ice, manufactured.....	143	205	1,107	7,496	15,378	411,377	1,129,166	214,204	660,808	4,237,939	3,463,339
Knit goods.....	158	1,022	22,930	7,460	11,302	2,707,586	18,160,045	47,616,360	823,535	80,112,705	37,672,870
Leather: Tanned, curried, and finished.....	9	80	1,320	4,425	3,334	344,993	1,132,077	13,581,685	190,481	18,017,395	4,230,229
Lumber and timber products, not elsewhere classified.....	1,150	819	17,364	62,025	6,611	1,850,552	12,373,968	13,212,970	310,890	39,300,383	25,830,523
Marble, granite, slate, and other stone products.....	31	87	854	1,448	2,979	221,240	1,080,953	788,503	70,972	2,956,818	2,088,343
Mattresses and bed springs, not elsewhere classified.....	17	41	184		608	82,598	151,272	571,866	11,722	1,016,169	432,581
Minerals and earths, ground or otherwise treated.....	7	35	236	433	493	108,104	158,134	510,998	23,955	1,026,060	490,727
Mirrors, framed and unframed.....	6	26	156	110	322	81,660	165,418	1,515,757	13,066	2,142,312	613,469
Motor-vehicle bodies and motor-vehicle parts.....	9	36	277		805	97,180	295,159	341,291	11,906	971,071	617,874
Oil, cake, and meal, cottonseed.....	49	251	1,154	7,625	17,920	444,622	794,527	13,832,457	449,205	16,990,715	2,709,953
Paper.....	5	50	425	28,710	5,736	99,471	502,540	3,069,569	717,014	5,684,513	1,897,980
Peanuts, walnuts, and other nuts, processed or shelled.....	10	37	469	675	735	75,936	132,495	2,949,272	15,040	3,440,373	470,061
Photo-engraving, not done in printing establishments.....	7	16	84		41	36,704	79,055	23,648	2,689	196,395	170,058
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	192	417	3,071	14,982	8,905	1,013,398	2,723,920	11,205,247	143,357	18,279,171	6,030,567
Pottery, including porcelain ware.....	6	2	22	44	23	(³)	20,286	4,925	4,883	48,706	38,898
Printing and publishing, book and job.....	102	203	706		934	488,465	1,002,708	1,057,985	47,913	3,605,848	2,499,950
Printing and publishing, newspaper and periodical.....	160	1,020	1,137	19	2,383	2,074,037	1,819,140	1,826,604	114,794	10,054,400	8,113,002
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	9	5	32		96	8,700	25,666	434,818	3,040	580,543	142,085
Shirts.....	6	21	298		73	40,750	141,134	476,312	5,349	789,386	298,725
Signs and advertising novelties.....	4	4	25		2	3,720	24,700	56,000	860	143,851	86,901
Silk and rayon manufactures.....	18	162	2,922	1,000	2,540	466,041	2,802,730	10,799,142	136,127	18,587,608	7,652,339
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	8	110	318		1,125	227,658	412,387	1,301,716	23,135	2,207,503	882,712
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	7	21	249	3,840	1,016	38,417	188,597	951,129	85,075	1,638,130	601,020
Textile machinery and parts.....	23	64	335	35	723	221,724	408,686	559,386	18,319	1,689,374	1,114,660
Window and door screens and weather strip.....	3	2	6		28	(³)	8,758	10,182	399	25,873	15,292
Wood turned and shaped and other wooden goods, not elsewhere classified.....	30	32	359	1,085	679	62,156	250,113	518,197	12,157	1,139,429	609,075
Woolen goods.....	7	93	1,104	480	2,308	104,851	937,608	3,344,513	88,641	6,019,905	2,586,751
Other industries.....	131	1,046	9,870	10,618	19,755	2,541,576	8,455,743	41,890,161	2,588,007	82,860,012	33,372,744

¹ 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.

² 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.

³ Not including data for 511 employees of central administrative offices, with salaries aggregating \$1,609,724. See GENERAL EXPLANATIONS—Persons Engaged.

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

⁵ Includes item for the "Pulp (wood and other fiber)" industry. All data for that industry except those for power are included in the "Other industries" items to avoid disclosing the figures reported by individual establishments.

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

[This table presents, 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

CABARRUS 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, "Cotton goods"—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.....	42	306	10,481	3,491	28,718	\$768,206	\$7,107,004	\$17,562,220	\$1,004,201	\$30,351,026	\$11,695,505
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FORSYTH 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, "Cigars and cigarettes"—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.....	116	4,931	18,405	17,159	18,998	\$9,402,676	\$14,960,972	\$104,039,375	\$842,803	\$305,914,870	\$201,032,092
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GASTON COUNTY

All industries, total.....	186	736	18,444	2,488	77,750	\$2,006,142	\$12,743,568	\$37,575,155	\$3,064,608	\$69,083,052	\$28,443,394
Cotton goods.....	74	592	16,991	1,995	73,347	1,595,642	11,510,100	33,440,551	2,899,082	61,927,306	25,687,673
Foundry and machine-shop products, not elsewhere classified.....	8	15	98	-----	167	44,324	111,017	81,586	5,444	370,362	283,332
Ice, manufactured.....	5	9	52	-----	1,030	14,740	45,088	8,723	25,971	155,276	120,582
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	5	12	35	385	202	28,600	35,532	100,225	3,418	201,422	97,779
Printing and publishing, book and job.....	3	-----	12	-----	26	-----	19,663	17,164	1,102	50,237	31,971
Textile machinery and parts.....	11	21	143	-----	227	119,914	183,696	235,357	4,677	916,733	626,699
Other industries.....	30	87	1,113	108	2,751	202,922	829,472	3,641,549	124,809	5,461,710	1,695,358

GULFORD COUNTY

All industries, total.....	235	1,411	19,269	20,295	36,461	\$4,052,189	\$16,431,302	\$54,540,858	\$1,520,200	\$96,728,261	\$40,658,203
Beverages.....	8	6	41	5	72	13,610	48,073	189,257	4,106	517,923	324,560
Bread and other bakery products.....	11	35	168	2	308	71,696	202,444	538,508	21,275	1,163,901	604,208
Cigars and cigarettes.....	4	11	155	-----	5	22,470	87,868	121,525	1,652	325,613	202,436
Cotton goods.....	8	165	5,313	9,903	18,310	593,948	3,940,620	14,028,280	665,934	21,284,124	6,589,910
Fertilizers.....	3	37	112	-----	1,584	95,283	110,935	1,170,533	17,753	1,711,970	523,634
Flour and other grain-mill products.....	0	21	34	100	335	44,047	30,308	740,440	12,179	940,255	187,627
Foundry and machine-shop products, not elsewhere classified.....	10	41	145	-----	505	100,353	198,830	233,838	12,522	712,951	466,591
Furniture, including store and office fixtures.....	28	259	2,964	2,320	4,122	629,755	2,735,798	6,598,605	115,663	12,301,371	5,587,103
Ice, manufactured.....	5	11	103	1,110	1,109	22,865	105,172	8,373	46,507	302,205	247,325
Knit goods.....	23	179	4,680	-----	2,286	601,465	4,053,550	10,558,540	164,209	18,904,310	8,271,561
Lumber and timber products, not elsewhere classified.....	24	62	4,090	1,115	1,807	192,589	571,623	863,568	51,616	2,510,772	1,601,598
Marble, granite, slate, and other stone products.....	3	3	17	-----	103	6,535	16,644	10,493	2,258	49,133	36,382
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	16	70	412	1,200	1,215	197,676	431,883	1,443,455	23,239	2,463,458	996,764
Printing and publishing, book and job.....	13	20	74	-----	115	59,227	113,063	140,002	5,031	430,133	200,500
Printing and publishing, newspaper and periodical.....	0	154	121	-----	234	334,220	230,018	283,410	16,218	1,881,135	1,076,507
Other industries.....	61	337	4,340	4,450	4,282	1,156,441	3,548,333	17,600,382	369,038	31,026,917	13,651,497

MECKLENBURG COUNTY

All industries, total.....	174	1,085	9,299	8,320	28,308	\$3,036,410	\$8,735,340	\$39,954,186	\$1,241,788	\$69,816,633	\$28,620,659
Beverages.....	5	13	41	-----	130	27,115	54,082	234,850	4,556	588,830	344,430
Bread and other bakery products.....	9	22	247	-----	472	44,789	263,642	837,777	40,042	1,582,611	704,792
Concrete products.....	4	12	45	-----	76	38,300	39,690	48,733	1,709	135,975	85,533
Cotton goods.....	18	122	3,631	5,525	13,949	483,255	2,441,015	5,816,761	515,472	11,511,310	5,179,077
Fertilizers.....	4	17	173	30	1,345	34,512	123,698	1,107,593	14,629	1,788,300	666,103
Foundry and machine-shop products, not elsewhere classified.....	10	51	226	90	443	157,012	298,503	407,800	12,649	1,166,148	745,039
Ice, manufactured.....	3	6	29	-----	875	19,291	25,139	3,550	31,740	162,050	126,760
Marble, granite, slate, and other stone products.....	6	14	82	-----	518	20,192	107,776	123,782	9,112	409,321	276,427
Mattresses and bed springs, not elsewhere classified.....	3	2	17	-----	51	(^c)	17,706	66,452	717	113,442	46,273
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	6	31	140	325	354	95,566	197,538	695,058	7,655	1,115,865	443,152
Printing and publishing, book and job.....	12	38	110	-----	137	100,184	147,020	189,180	7,030	624,873	428,663
Printing and publishing, newspaper and periodical.....	8	188	173	-----	315	392,348	337,444	525,321	18,365	2,279,268	1,736,582
Signs and advertising novelties ¹	4	4	25	-----	2	3,720	24,700	56,000	350	143,851	86,901
Textile machinery and parts.....	6	29	122	35	286	76,512	139,680	154,865	8,664	497,057	333,528
Other industries ²	76	536	4,224	2,324	9,355	1,543,634	4,527,798	29,715,829	569,098	47,702,726	17,417,799

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

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

² The figures for the "Signs and advertising novelties" industry include the 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.

³ See footnote 2.

NORTH DAKOTA

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) ¹	HORSEPOWER (RATED CAPACITY OF POWER EQUIPMENT)			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers	Fuel and purchased energy		
1920	373	4,024	19,756	11,096	8,660	\$5,687,028	\$30,684,462	\$38,573,196	\$1,111,266	\$55,321,592	\$16,637,130
1927	307	3,260	16,167	10,761	5,408	4,808,122	34,271,002	33,283,479	987,523	47,003,022	12,732,020
1925	320	3,261	16,711	11,918	4,793	4,574,698	32,300,744	(⁵)	(⁵)	44,631,510	12,324,772
1923	340	3,552	16,730	12,262	4,468	5,134,350	30,704,161	(⁵)	(⁵)	42,145,471	11,441,310
1921	388	3,107	(⁶)	(⁶)	(⁶)	4,660,204	26,265,359	(⁵)	(⁵)	36,358,218	10,002,859
1919	894	4,472	17,791	12,301	5,490	5,401,330	44,489,490	43,477,254	1,012,245	57,373,622	12,884,123
1914	699	3,275	13,980	11,124	2,856	2,416,235	14,484,315	13,957,277	527,038	21,147,431	6,663,116
1909	752	2,789	13,168	12,004	1,104	1,787,405	13,673,590	13,220,170	453,420	19,137,500	5,463,916
1904	507	1,755	9,867	9,586	281	1,031,307	7,095,986	6,855,030	240,956	10,217,914	3,121,928
1899	337	1,358	7,324	7,197	127	671,321	4,150,860	(⁶)	(⁶)	6,259,840	2,108,920
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	21.5	23.4	22.2	3.1	60.2	18.3	15.8	15.0	12.5	17.7	22.8
1925-1927	-4.1	(⁷)	-3.3	-0.7	12.8	5.1	6.1			5.3	3.3
1923-1925	-5.9	-8.2	-0.1	-2.8	7.3	-10.0	5.2			5.9	7.7
1921-1923	-12.4	14.3				10.0	10.0			15.0	13.4
1919-1921	-56.6	-30.6				-13.6	-41.0			-36.6	-21.7
1919-1929	-68.3	-10.0	11.0	-0.8	57.7	5.3	-10.8	-11.3	9.8	-3.0	21.4
1909-1919	18.9	60.3	35.1	2.5	371.6	202.2	225.4	228.9	123.2	199.8	135.8
1899-1909	123.1	105.4	79.8	66.8	816.5	166.3	226.4			205.7	160.1

¹ Not including salaried employees.

² 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.

³ 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.

⁴ Not reported separately.

⁵ Not called for on schedule.

⁶ No comparable data.

⁷ Less than one-tenth of 1 per cent.

CENSUS OF MANUFACTURES: 1929

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. In the cases of Bottineau, Hettinger, and McLean Counties, which reported fewer than 10 wage earners, statistics are here presented in order that comparisons may be made with the figures for these counties as published (in mimeographed form) for 1927.]

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) ¹	Horse-power ²	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.....	680,845	373	4,024	19,756	\$5,687,028	\$39,684,462	\$38,573,196	\$1,111,266	\$55,321,592	\$15,637,130
<i>Counties</i>										
Adams.....	6,343	5	10	108	14,334	35,261	34,629	632	80,053	44,792
Barnes.....	18,804	13	70	1,180	105,618	1,278,022	1,252,858	25,164	1,752,091	474,060
Bottineau.....	14,853	4	8	87	12,052	52,952	49,951	3,001	88,270	35,327
Burke.....	9,998	4	19	50	27,435	58,720	56,224	2,496	104,066	45,340
Burlingame.....	19,769	20	235	547	303,240	1,868,175	1,805,197	62,978	3,020,136	1,151,961
Cass.....	48,735	56	395	3,298	1,251,525	12,484,716	12,198,968	285,748	16,891,990	4,407,274
Eddy.....	6,346	4	10	51	16,116	97,630	94,733	2,897	128,785	31,155
Foster.....	6,353	3	10	17	15,425	29,040	26,950	2,081	65,114	36,074
Grand Forks.....	31,956	34	681	6,122	1,025,556	8,143,295	7,878,571	264,724	10,815,629	2,672,334
Hettinger.....	8,790	4	6	256	11,030	31,292	20,700	1,592	67,680	36,288
McHenry.....	15,439	5	15	39	19,157	74,306	71,638	2,618	113,767	30,451
McLean.....	17,991	4	8	57	12,300	65,807	64,936	871	97,227	31,420
Morton.....	19,647	17	280	1,089	374,683	1,822,671	1,769,807	52,864	2,644,454	821,783
Pembina.....	14,757	5	11	132	15,624	170,663	166,661	4,002	222,831	51,868
Pierce.....	9,074	4	14	148	19,097	273,385	268,528	4,857	359,300	85,915
Ramsey.....	16,252	12	184	521	247,750	1,502,165	1,468,955	33,210	2,004,689	502,524
Ransom.....	10,983	9	102	89	150,816	269,715	247,850	21,865	486,713	216,998
Richland.....	21,008	15	70	420	82,556	493,009	478,391	14,618	795,700	302,691
Stark.....	15,340	12	137	1,592	166,343	1,104,289	1,014,977	89,312	1,524,296	420,007
Stutsman.....	26,100	13	267	792	402,592	1,990,623	1,945,209	45,414	2,787,028	787,405
Trall.....	12,000	8	21	41	18,502	112,003	106,640	5,417	150,853	47,790
Walsh.....	20,047	10	30	88	31,229	183,719	175,891	7,828	296,125	112,406
Ward.....	33,697	26	479	1,539	725,926	3,393,385	3,329,037	64,348	5,141,629	1,748,244
Wells.....	13,285	5	44	46	69,320	146,104	137,241	8,863	254,095	107,991
Williams.....	19,553	12	181	382	300,020	548,817	518,799	30,018	978,748	429,931
All other counties ³	243,219	69	237	1,065	268,721	3,445,338	3,380,784	64,554	4,441,424	996,080
<i>Cities having 10,000 inhabitants or more</i>										
Bismarck.....	11,000	20	235	547	303,240	1,868,175	1,805,197	62,978	3,020,136	1,151,961
Fargo.....	28,619	53	639	2,655	899,255	3,724,716	3,506,299	218,417	6,927,291	3,202,575
Grand Forks.....	17,112	28	563	5,411	878,074	6,939,159	6,708,572	230,587	9,302,913	2,363,754
Minot.....	16,099	21	450	1,481	692,788	3,248,810	3,190,935	57,875	4,907,667	1,658,857

¹ Not including salaried employees.

² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

³ Benson, Bowman, Cavalier, Dickey, Divide, Dunn, Emmons, Golden Valley, Grant, Griggs, Kidder, La Moure, Logan, McIntosh, McKenzie, Mercer, Mountrail, Nelson, Oliver, Reaume, Rolette, Sargent, Sheridan, Sioux, Slope, Steele, and Towner Counties. (See headnote.) No manufacturing was reported from Billings 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			OTHERS 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 ¹	5,211	4,545	666	194	184	10	124	115	9	869	600	260	4,024	3,646	378
1919 ^{1a}	6,148	5,578	570	774	745	29	112	108	4	700	589	201	4,472	4,136	336
1914 ^{1b}	4,627	4,164	463	603	582	21	63	62	1	686	548	138	3,275	2,972	303
1909 ^{1c}	4,148	3,777	371	723	697	26	64	64	-----	572	478	94	2,789	2,538	251

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

^{1a} Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.

^{1b} Benson, Bowman, Cavalier, Dickey, Divide, Dunn, Emmons, Golden Valley, Grant, Griggs, Kidder, La Moure, Logan, McIntosh, McKenzie, Mercer, Mountrail, Nelson, Oliver, Reaume, Rolette, Sargent, Sheridan, Sioux, Slope, Steele, and Towner Counties. (See headnote.) No manufacturing was reported from Billings County.

^{1c} 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 ¹	4,024	3,059	3,577	3,677	3,765	3,993	4,177	4,361	4,294	4,311	4,275	4,222	3,977	82.0
1919 ¹	4,472	3,906	4,014	3,939	4,175	4,224	4,573	4,841	4,847	4,758	4,860	4,731	4,666	82.2
1914 ¹	3,275	3,000	2,954	2,976	3,104	3,207	3,442	3,625	3,554	3,533	3,397	3,333	3,175	81.5
1909 ¹	2,789	<i>2,556</i>	2,386	2,443	2,580	2,810	3,041	3,004	2,880	2,927	3,033	3,052	2,950	77.2

¹ The figures for 1910 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.....	373	4,024	45 and over but under 48.....	5	370
Not reported.....	57	123	48.....	121	1,502
Under 40.....	15	114	Over 48 but under 54.....	9	125
40.....			54.....	36	147
Over 40 but under 44.....	21	622	Over 54 but under 60.....	10	318
44 and over but under 45.....			60 and over.....	109	803

¹ Combined to avoid disclosing 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.....	373	894	752	4,024	4,472	2,780	21 to 50.....	23	24	21	750	765	706
No wage earners.....	14	211	125				51 to 100.....	10	5	3	705	380	226
1 to 5.....	239	500	537	506	1,046	956	101 to 250.....	16	10	2	1,160	1,421	247
6 to 20.....	81	84	64	843	860	654	251 to 500.....						

¹ 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 ¹			
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909	
All establishments.....	373	894	752	4,024	4,472	2,780	\$55,321,502	\$57,373,622	\$10,137,506	\$15,637,130	\$12,884,123	\$5,463,916	
Less than \$5,000.....	(²)	357	382	(²)	202	351	(²)	958,443	915,406	(²)	647,801	658,537	
\$5,000 to \$10,999.....	165	282	238	337	582	628	1,713,083	2,800,704	2,350,705	1,111,262	1,589,010	1,103,610	
\$20,000 to \$99,999.....	131	175	99	780	892	951	6,209,855	7,338,004	4,767,125	2,015,594	2,676,934	1,703,216	
\$20,000 to \$49,999.....	80	(²)	(²)	340	(²)	(²)	2,048,722	(²)	(²)	1,845,821	(²)	(²)	
\$50,000 to \$99,999.....	51	(²)	(²)	431	(²)	(²)	3,561,133	(²)	(²)	1,569,773	(²)	(²)	
\$100,000 to \$499,999.....	55	63	33	1,448	2,104	859	12,003,714	13,341,254	11,104,180	4,927,568	4,585,937	1,098,553	
\$100,000 to \$249,999.....	38	(²)		505	(²)		5,882,661	(²)		(²)	2,166,490		(²)
\$250,000 to \$499,999.....	17	(²)		883	(²)		6,121,053	(²)		(²)	2,761,078		(²)
\$500,000 to \$999,999.....	8	5		693	145		5,617,820	3,069,209		2,402,326	470,701		
\$1,000,000 and over.....	14	12		766	547		29,776,214	29,866,008		4,280,380	2,013,740		
\$1,000,000 to \$2,499,999.....	11	(²)	(²)	367	(²)	(²)	14,130,505	(²)	(²)	2,430,543	(²)	(²)	
\$2,500,000 to \$4,999,999.....	4	3	(²)	4,390	(²)	(²)	15,645,709	(²)	(²)	1,849,837	(²)	(²)	
\$5,000,000 and over.....													(²)

¹ 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.

² No data.

³ Not tabulated separately.

⁴ Combined to avoid disclosing data for individual establishments.

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.....	373	804	4,024	4,472	\$55,321,592	\$57,373,622	\$15,637,130	\$12,884,123
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	181	268	3,472	3,421	50,290,086	45,548,509	13,348,894	9,502,872
Other forms of ownership or control (individual, partnership, etc.).....	192	536	552	1,051	5,031,506	11,825,113	2,288,236	3,381,251
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	68	(1)	2,220	(1)	32,785,634	(1)	7,376,988	(1)
Independent (single-unit).....	305	(1)	1,804	(1)	22,535,958	(1)	8,260,142	(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

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	Number	Horse-power				
1929.....	19,756	11,096	77	5,746	13	4,340	19	960	2	60	2,123	8,660	388	5,617
1927.....	16,167	10,761	70	5,869	11	3,566	35	1,226	2	100	1,507	5,406	407	6,207
1925.....	16,711	11,918	80	4,544	11	5,463	53	1,826	10	86	1,296	4,793	316	5,072
1919 ¹	17,791	12,301	103	9,689	11	471	289	1,981	6	260	1,230	5,490	127	1,283
1914 ¹	13,980	11,124	² 135	² 9,627	(³)	(³)	294	1,198	9	299	593	2,856	62	944

¹ Data for the "Automobile repairing" industry are included 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.

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 ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	19,756	11,096	8,660	5,617	Counties—Continued				
<i>Counties</i>					Morton.....	1,089	128	961	15
Adams.....	108	2	106		Pembina.....	132	100	32	
Barnes.....	1,180	1,045	135	416	Pierce.....	148	135	13	
Bottineau.....	87	75	12		Ramsey.....	521	255	260	105
Burke.....	50	25	25		Ransom.....	89	44	45	15
Burleigh.....	547	65	482		Richland.....	420	80	340	
Cass.....	3,295	940	2,353	659	Stark.....	1,592	1,445	147	100
Eddy.....	51		51		Stutsman.....	792	295	497	141
Foster.....	17		17		Trails.....	41	2	39	
Grand Forks.....	6,122	4,749	1,373	3,747	Walsh.....	88	3	85	
Hottinger.....	256	225	31		Ward.....	1,539	948	591	394
McHenry.....	39	3	36		Wells.....	46	10	36	
McLean.....	57	47	10		Williams.....	382	212	170	
					All other counties ²	1,065	263	802	25

¹ Horsepower of electric motors driven by energy generated in establishments reporting.

² Benson, Bowman, Cavalier, Dickey, Divide, Dunn, Emmons, Golden Valley, Grant, Griggs, Kidder, La Moure, Logan, McIntosh, McKenzie, Mercer, Mountrail, Nelson, Oliver, Renville, Rolette, Sargent, Sheridan, Sioux, Slope, Steele, and Towner Counties. No manufacturing was reported from Billings 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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 lbs.)	232, 890	\$714, 536	155, 949	189, 704	194, 378	151, 787	109, 017
Anthracite (tons, 2,240 lbs.)	2, 019	16, 985	(³)	916	1, 736	5, 282	2, 874
Bituminous (tons, 2,000 lbs.)	230, 829	697, 551	(³)	188, 678	192, 434	145, 871	105, 798
Coke (tons, 2,000 lbs.)	1, 905	24, 323	(⁴)	(⁴)	1, 498	1, 371	429
Fuel oils, including crude oils and gas oils (gallons)	774, 928	51, 203	(⁴)	(⁴)	107, 478	137, 760	288, 918
Gasoline and kerosene (gallons) ⁵	10, 650	1, 812	(⁴)	(⁴)	97, 608		
Gas, natural (M cu. ft.)	51, 743	7, 925	(⁴)	(⁴)	6, 451	2, 221	2, 699
Gas, manufactured (M cu. ft.)	14, 492	15, 417	(⁴)	(⁴)			
Other fuels		72, 078	(⁴)	(⁴)			
Electric energy purchased (kilowatt-hours)	10, 262, 002	224, 697	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Total cost of fuel and purchased energy		7 1, 112, 891	Cost \$987, 523	Cost (⁷)	Cost \$1, 012, 245	Cost \$527, 038	Cost \$453, 420

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

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

³ Not tabulated separately.

⁴ No data.

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

⁶ Data incomplete.

⁷ 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.

⁸ 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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ¹
				Prime movers	Electric motors driven by purchased energy						
All industries, total	373	993	4, 024	11, 096	8, 000	\$2, 074, 697	\$5, 687, 028	\$38, 573, 190	\$1, 111, 206	\$55, 321, 592	\$15, 637, 130
Beverages	17	18	42	4	98	20, 568	59, 197	110, 484	7, 114	318, 213	200, 615
Bread and other bakery products	56	62	470	567	1, 038	110, 930	530, 304	1, 612, 939	91, 683	3, 487, 367	1, 782, 745
Butter	55	177	474		1, 924	318, 700	552, 618	15, 237, 420	153, 276	18, 004, 541	2, 613, 845
Car and general construction and repairs, steam-railroad repair shops	19	116	1, 294	710	1, 244	307, 948	2, 091, 052	1, 486, 127	161, 109	4, 046, 836	2, 399, 600
Clay products (other than pottery) and nonclay refractories	5	8	102	165	560	14, 237	87, 498	6, 540	39, 742	175, 270	128, 979
Concrete products	5	5	14	30	26	10, 110	17, 424	30, 808	1, 490	80, 870	48, 572
Flour and other grain-mill products	24	100	226	7, 449	576	203, 391	331, 227	7, 928, 960	110, 162	9, 812, 250	1, 778, 128
Foundry and machine-shop products, not elsewhere classified	5	12	61		321	32, 053	105, 359	187, 351	8, 259	435, 224	239, 614
Gas, manufactured, illuminating and heating	5	27	57	130	314	35, 250	83, 185	132, 268	269, 184	815, 536	414, 384
Ice cream	11	19	50	16	317	25, 939	61, 577	309, 577	18, 089	707, 405	379, 739
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	10	7	53	50	322	17, 086	75, 221	99, 790	6, 242	239, 651	133, 619
Poultry killing, dressing, and packing, wholesale	5	8	33		33	11, 535	31, 105	587, 167	1, 820	693, 094	104, 617
Printing and publishing, book and job	21	48	157		233	137, 801	207, 775	224, 918	12, 172	741, 063	503, 973
Printing and publishing, newspaper and periodical	98	244	414	19	873	540, 905	717, 297	444, 135	51, 296	3, 139, 106	2, 643, 675
Other industries	37	142	577	1, 727	781	279, 325	735, 589	10, 174, 703	179, 628	12, 624, 356	2, 270, 025

¹ The aggregates for the 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.

² 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.

OHIO

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers ⁴	Fuel and purchased energy		
1929	11,855	741,143	4,340,575	2,095,138	2,245,437	\$1,102,166,499	\$3,138,098,834	\$2,919,341,176	\$218,757,658	\$6,027,903,137	\$2,889,804,303
1927	10,981	669,097	3,734,761	1,909,426	1,825,335	968,181,165	2,877,126,245	2,661,084,604	215,141,741	6,250,323,268	2,353,197,023
1925	11,137	676,742	3,482,618	1,901,435	1,581,183	975,811,976	3,029,686,278	(⁵)	(⁵)	5,847,622,464	2,317,836,185
1923	11,195	690,132	3,307,726	1,996,766	1,310,960	979,659,809	2,909,187,245	(⁵)	(⁵)	5,140,514,777	2,297,847,532
1921	11,479	494,288	(⁵)	(⁵)	(⁵)	627,032,666	1,919,090,420	(⁵)	(⁵)	3,300,693,256	1,381,602,530
1919	16,125	730,733	2,885,007	1,939,666	945,341	944,651,734	2,911,947,871	2,729,033,617	182,914,254	5,100,308,728	2,188,360,857
1914	15,658	510,435	1,985,950	1,712,136	273,814	317,923,813	1,920,782,015	961,440,203	59,535,812	1,782,803,279	762,026,264
1909	15,138	440,934	1,577,220	1,483,628	93,592	245,449,904	824,201,947	774,034,174	50,117,773	1,437,935,817	613,733,870
1904	13,785	364,298	1,111,189	1,088,030	23,159	182,429,425	527,636,585	497,265,767	30,370,828	960,811,857	435,175,272
1899	13,868	308,109	776,819	767,051	8,768	136,427,579	409,302,501	(⁷)	(⁷)	748,670,855	339,366,564
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	8.2	10.8	16.2	9.7	23.0	13.8	9.1	9.7	1.7	15.2	22.8
1925-1927	-1.6	-1.1	7.2	0.4	15.4	-0.8	-5.0			-2.2	1.5
1923-1925	-0.5	-3.2	5.3	-4.8	20.6	-0.4	4.1			3.9	3.6
1921-1923	-2.5	41.4				56.2	51.6			55.9	61.9
1919-1921	-28.8	-32.4				-33.6	-34.1			-35.3	-36.9
1919-1929	-26.5	1.4	50.5	8.0	127.5	16.7	7.8	7.0	10.6	18.2	32.1
1909-1919	6.5	63.5	82.9	30.7	910.1	284.9	253.3	252.5	265.0	254.7	256.6
1899-1909	9.2	45.1	103.3	93.4	967.4	79.9	101.4			92.1	80.8

¹ Not including salaried employees.
² 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.
³ 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.
⁴ Includes cost of mill supplies for 1927 and earlier years, but not for 1929. See GENERAL EXPLANATIONS—Comparableness with Preceding Years—Schedule Changes—Mill or Shop Supplies.
⁵ Not reported separately.
⁶ Not called for on schedule.
⁷ 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) ¹	Horsepower ²	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	6,646,697	11,855	741,143	4,340,575	\$1,102,166,499	\$3,138,098,834	\$2,919,341,176	\$218,757,658	\$6,027,903,137	\$2,889,804,303
<i>Industrial Areas</i>										
Cleveland Area ³	1,310,661	2,912	176,840	989,227	276,161,077	770,213,935	708,633,968	61,579,967	1,505,490,392	735,276,457
Cincinnati Area, ⁴ total	870,305	2,373	114,068	475,196	167,583,726	494,232,720	478,214,297	16,018,429	933,200,890	439,058,164
Portion in Ohio	703,440	2,185	105,014	436,148	144,423,909	462,665,858	448,295,207	14,370,651	874,737,401	412,071,543
Portion in Kentucky	166,925	188	9,054	39,048	13,159,817	31,566,868	29,919,090	1,647,778	58,553,489	26,986,621
Youngstown Area, ⁵ total	555,709	612	78,903	1,171,241	138,076,535	504,027,095	436,686,508	67,441,487	823,532,610	319,504,615
Portion in Ohio	359,205	357	53,282	812,414	96,459,583	368,408,419	316,696,929	51,811,490	597,134,677	228,726,258
Portion in Pennsylvania	196,504	255	25,621	358,827	41,616,952	135,618,576	119,989,579	15,629,997	226,397,933	90,778,357
Akron Area (coextensive with Summit County) ⁶	344,131	359	67,208	323,460	107,253,929	317,659,893	308,369,142	9,290,751	599,053,295	281,893,402
Toledo Area (coextensive with Lucas County)	347,709	625	53,996	201,483	79,925,863	266,498,160	256,014,456	10,483,704	479,836,121	212,837,961
Wheeling Area, ⁷ total	394,761	537	45,906	446,601	70,728,962	179,366,489	158,883,221	20,483,268	319,433,328	140,066,839
Portion in Ohio	269,510	351	23,489	269,912	35,271,446	91,936,718	81,968,974	9,967,744	158,773,705	66,836,987
Portion in West Virginia	125,251	186	22,417	176,689	35,457,516	87,429,771	76,914,247	10,515,524	160,659,623	73,229,852
Dayton Area (coextensive with Montgomery County) ⁸	273,481	521	42,591	117,896	64,793,012	118,889,283	115,538,747	3,350,536	330,318,581	211,429,298

See footnotes at end of table.

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

	Population, 1930	Number of establishments	Wage earners (average for the year) ¹	Horse-power ²	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		
<i>Counties—Continued</i>										
Van Wert.....	26,278	81	698	2,453	\$720,564	\$1,452,273	\$1,360,587	\$85,686	\$3,301,858	\$1,849,585
Warren.....	27,348	87	1,743	11,654	1,824,937	8,010,217	7,596,639	413,578	12,935,570	4,925,362
Washington.....	42,497	66	987	5,420	1,168,152	3,032,135	2,894,458	137,677	7,969,405	4,937,270
Wayne.....	47,024	92	2,707	23,373	3,743,223	14,163,873	13,351,522	812,351	25,355,034	11,191,161
Williams.....	24,316	43	928	2,603	973,444	3,674,564	3,554,155	120,409	6,371,012	2,696,448
Wood.....	50,320	51	2,531	20,317	3,757,800	13,215,793	12,420,806	794,987	22,380,138	9,174,345
Wyandot.....	16,036	24	410	2,303	455,680	1,066,064	950,134	115,930	1,978,024	911,960
All other counties (Geauga and Vinton) ¹⁰	25,701	19	390	2,037	409,421	458,513	385,553	72,960	1,211,928	753,415
<i>Cities having 10,000 inhabitants or more ¹¹</i>										
Akron.....	255,040	276	59,983	260,447	96,622,893	291,281,159	284,500,854	6,780,305	544,644,230	253,363,077
Alliance.....	23,047	48	3,062	25,650	5,651,767	11,278,693	10,605,247	673,451	26,145,875	14,867,177
Ashland.....	11,141	30	2,070	5,045	2,318,262	4,923,977	4,704,420	219,548	12,475,415	7,551,438
Ashtabula.....	23,301	44	2,505	8,181	3,620,261	5,369,833	5,092,210	268,623	12,263,424	6,392,536
Barberton.....	23,934	38	5,944	53,140	8,356,800	20,578,059	18,439,701	2,138,358	43,460,707	22,832,648
Bellaire.....	13,237	27	1,081	2,670	1,333,769	1,383,192	1,175,154	208,038	4,205,294	2,822,102
Bucyrus.....	10,027	24	1,205	5,470	1,598,104	2,410,374	2,225,265	185,100	5,819,409	3,499,035
Cambridge.....	16,129	30	1,730	7,531	2,600,528	5,666,624	5,378,151	278,473	10,172,222	4,615,598
Canton.....	104,006	174	18,334	155,036	31,870,051	72,047,956	64,556,472	8,091,484	153,988,924	81,340,938
Cincinnati ¹²	451,160	1,784	63,986	165,963	85,442,129	243,610,657	238,229,047	5,381,610	497,552,409	253,941,752
Cleveland ¹³	600,429	2,573	146,881	726,375	229,159,652	627,926,881	584,462,109	43,404,712	1,245,433,855	617,506,974
Cleveland Heights.....	50,945	21	90	834	107,026	486,805	446,690	40,115	1,164,922	678,117
Columbus ¹³	290,564	504	26,565	70,152	36,940,530	110,445,678	107,057,284	3,388,394	212,255,749	101,810,071
Coshocton.....	10,008	40	2,145	6,140	2,224,796	4,389,030	4,155,417	234,213	10,406,102	6,016,562
Cuyahoga Falls.....	10,797	21	653	4,533	1,152,507	2,352,534	2,244,090	107,544	4,761,171	2,408,637
Dayton.....	200,982	477	40,842	106,797	62,532,045	111,758,729	108,653,824	3,104,905	317,773,160	206,014,431
East Cleveland.....	39,667	34	3,478	5,312	4,099,730	9,206,040	9,006,259	199,781	18,940,523	9,734,483
East Liverpool.....	23,329	48	2,755	7,815	3,352,290	3,447,545	2,772,479	675,066	9,776,831	6,329,286
Elyria.....	25,633	61	4,980	24,135	7,221,483	22,186,276	21,347,584	838,692	37,945,810	15,759,534
Euclid.....	12,751	21	1,752	8,749	3,137,363	10,630,889	10,488,928	141,961	18,973,555	8,342,660
Findlay.....	19,363	50	2,141	10,415	2,348,624	7,830,237	7,430,399	390,838	15,948,521	8,118,234
Fostoria.....	12,790	35	2,329	13,732	3,238,444	8,067,750	7,638,246	429,504	14,985,652	9,917,902
Frankfort.....	13,422	54	1,967	4,674	2,117,474	6,022,875	5,787,865	235,010	11,736,191	5,713,310
Garfield Heights.....	15,589	12	647	3,736	943,377	1,839,741	1,659,305	210,436	4,367,222	2,517,481
Hamilton.....	62,170	96	12,061	54,690	17,870,710	31,890,201	30,450,606	1,439,595	66,991,843	35,101,642
Ironton.....	16,621	36	1,592	10,876	1,904,511	4,023,439	2,795,748	1,227,691	7,042,990	3,919,551
Lakewood.....	70,509	46	2,124	4,233	2,927,510	9,388,034	9,223,599	165,035	19,094,819	9,709,185
Lancaster.....	18,716	45	3,332	8,239	3,581,684	7,007,923	6,827,586	780,337	15,842,537	8,234,614
Lima.....	42,287	72	4,548	13,030	5,696,171	16,203,876	15,572,221	631,655	29,595,853	13,391,977
Mansfield.....	33,525	88	5,009	25,747	7,131,618	18,608,170	17,878,011	730,159	37,588,900	18,975,730
Marletta.....	14,285	54	848	3,901	939,762	2,673,283	2,563,652	109,636	6,870,117	4,196,829
Marion.....	31,084	54	4,197	23,455	6,004,159	15,824,230	15,161,260	662,961	30,490,161	14,935,931
Martins Ferry.....	14,524	23	2,684	13,481	3,099,326	17,709,024	16,942,841	767,083	24,420,375	6,710,451
Massillon.....	20,400	49	4,293	13,006	8,228,986	22,053,992	20,464,467	1,589,525	40,356,803	18,302,811
Middletown.....	29,092	50	6,752	102,416	9,978,983	36,218,692	33,348,125	2,870,567	68,207,563	31,988,871
Newark.....	30,506	62	4,805	16,032	6,730,576	9,261,625	8,213,080	1,048,545	21,663,211	12,401,586
New Philadelphia.....	12,365	29	1,642	7,957	5,404,934	5,281,586	5,094,326	310,003	9,458,532	3,753,993
Niles.....	16,314	31	3,610	24,034	7,186,618	16,415,426	15,171,766	1,243,660	31,652,377	15,235,951
Norwood.....	33,411	82	10,620	23,627	14,156,682	71,107,988	70,478,989	628,999	118,076,464	49,665,416
Painesville.....	10,944	19	501	1,228	741,144	-1,815,585	1,764,069	50,616	3,415,521	1,599,936
Piqua.....	16,000	43	3,228	7,348	3,577,501	11,159,795	10,916,699	243,106	19,848,618	8,688,823
Salem.....	10,622	30	2,133	10,247	3,946,176	5,281,586	4,971,465	260,121	12,527,674	7,290,083
Sandusky.....	24,622	79	2,495	15,346	3,273,922	6,605,430	6,053,882	551,543	14,809,627	8,204,197
Springfield.....	68,743	168	12,003	33,769	16,955,139	57,160,431	56,059,687	1,100,844	110,223,105	53,062,874
Staubenville.....	35,422	43	4,314	146,792	6,972,896	22,929,616	20,573,156	2,356,460	37,025,145	14,095,529
Tiffin.....	16,428	54	2,341	5,585	3,096,166	4,709,939	4,266,947	442,992	12,258,247	7,548,308
Toledo.....	290,718	586	49,090	174,230	72,481,194	233,185,497	223,144,149	10,041,348	429,599,920	196,414,429
Warren.....	41,062	57	3,900	23,491	5,921,373	17,597,920	16,736,308	861,612	36,427,889	18,329,969
Wooster.....	10,742	35	801	5,180	1,087,590	2,469,013	2,369,956	99,057	5,719,059	3,250,040
Xenia.....	10,507	26	912	3,487	876,185	2,524,416	2,442,050	82,369	4,824,381	2,299,365
Youngstown.....	170,002	140	20,543	427,021	37,001,679	170,012,074	145,026,217	24,986,857	264,520,034	94,597,960
Zanesville.....	36,440	70	4,680	16,207	6,361,118	9,917,924	8,775,683	1,142,241	25,318,285	15,400,361

¹ Not including salaried employees.

² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

³ The Cleveland Industrial Area comprises Cuyahoga and Lorain Counties. For statistics by industries for the area and for Cuyahoga County, see Table 13.

⁴ The Cincinnati Industrial Area comprises Hamilton and Butler Counties, Ohio, and Campbell and Kenton Counties, Ky. For statistics by industries for the area and for Hamilton and Butler Counties, see Table 13.

⁵ The Youngstown Industrial Area comprises Mahoning and Trumbull Counties, Ohio, and Mercer and Lawrence Counties, Pa. For statistics by industries for the area and for Mahoning and Trumbull Counties, see Table 13.

⁶ For statistics by industries for this area, see Table 13.

⁷ The Wheeling Industrial Area comprises Belmont, Columbiana, and Jefferson Counties, Ohio, and Hancock, Brooke, and Ohio Counties, W. Va. For statistics by industries for the area and for Belmont, Columbiana, and Jefferson Counties, see Table 13.

⁸ Statistics are presented for each county 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 two counties ("All other counties"). Each of the counties for which combined figures are given, however, reported a larger number of wage earners and a larger value of products than some of those shown separately.

⁹ For statistics by industries for this county, see Table 13.

¹⁰ See footnote 8.

¹¹ Not including Campbell, Chillicothe, Lorain, Parma, Portsmouth, Shaker Heights, and Struthers, 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.

¹² For statistics by industries for this city, see Table 14.

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 ¹	859,289	713,721	145,568	5,904	5,653	251	10,694	10,260	434	101,545	89,973	11,572	741,143	627,835	113,308
1919 ¹	882,018	730,167	143,751	12,823	12,292	531	9,825	9,540	285	129,537	91,667	37,870	730,733	625,468	105,265
1914 ¹	606,807	512,021	94,786	13,624	13,001	623	7,114	6,945	169	75,634	58,053	17,581	510,435	434,642	75,793
1909.....	523,004	439,811	83,193	14,710	14,141	578	6,371	6,258	113	54,980	44,043	10,937	446,934	376,369	71,565

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

² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 1,203; male, 1,185; female, 18. Other salaried officers and employees—total, 15,715; male, 10,525; female, 5,190. 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.

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

⁴ 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 ¹	741,143	723,007	746,203	753,905	705,789	771,894	760,768	762,402	755,491	758,748	740,542	690,832	658,285	85.3
1919 ¹	730,733	714,195	698,911	694,564	688,040	687,683	710,187	740,188	763,879	773,510	740,570	761,688	790,681	87.0
1914 ¹	510,435	511,055	524,663	534,597	533,186	523,653	518,316	506,133	506,991	510,037	501,306	478,412	<i>476,811</i>	89.2
1909 ¹	446,934	414,278	421,945	432,343	432,828	436,450	444,908	435,241	448,898	465,351	474,448	476,023	480,405	86.2

¹ 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.....	11,855	741,143	45 and over but under 48.....	595	49,518
Not reported.....	1,228	3,161	48.....	2,090	168,008
Under 40.....	157	2,570	Over 48 but under 54.....	2,781	251,580
40.....	252	19,422	54.....	763	30,460
Over 40 but under 44.....	75	1,782	Over 54 but under 60.....	1,071	117,641
44 and over but under 45.....	1,821	71,530	60 and over.....	1,022	24,371

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.....	11,855	16,125	15,138	741,143	730,733	446,934	51 to 100.....	868	935	733	62,422	66,641	52,186
No wage earners.....	336	2,028	1,521				101 to 250.....	796	799	635	122,617	125,932	98,905
1 to 5.....	4,729	7,092	7,320	13,099	16,393	17,097	251 to 500.....	312	312	199	109,021	110,104	69,563
6 to 20.....	3,031	3,099	3,163	33,408	34,943	35,261	501 to 1,000.....	161	168	105	110,423	118,061	70,883
21 to 50.....	1,532	1,015	1,429	50,907	53,388	46,960	1,001 to 2,500.....	67	80	33	{ 93,241	{ 205,271	{ 56,089
							2,501 and over.....	23			{ 140,108		

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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	11,855	16,125	15,138	741,143	730,733	446,934	\$6,027,903,137	\$5,100,308,728	\$1,437,035,817	\$2,889,804,303	\$2,188,360,857	\$613,733,870
Less than \$5,000.....	(2)	3,192	5,095	(2)	2,102	7,021	(2)	8,120,780	12,198,229	(2)	5,074,894	7,811,067
\$5,000 to \$19,999.....	3,418	4,452	4,474	8,520	12,089	23,571	39,222,965	49,105,812	46,028,999	24,212,413	27,477,090	26,309,094
\$20,000 to \$99,999.....	4,026	4,270	3,405	35,906	44,277	64,853	221,756,021	201,110,443	156,080,009	144,621,232	100,752,506	76,806,053
\$20,000 to \$49,999.....	2,438	(3)	(3)	14,995	(3)	(3)	78,186,600	(3)	(3)	46,528,734	(3)	(3)
\$50,000 to \$99,999.....	1,588	(3)	(3)	20,911	(3)	(3)	143,569,421	(3)	(3)	98,092,498	(3)	(3)
\$100,000 to \$499,999.....	2,692	2,674		107,697	123,388		626,476,410	607,923,301		352,545,984	293,004,714	
\$100,000 to \$249,999.....	1,697	(3)		47,650	(3)		274,526,410	(3)		157,590,892	(3)	
\$250,000 to \$499,999.....	995	(3)	1,919	60,047	(3)	208,656	351,950,000	(3)	557,384,719	194,955,092	(3)	258,737,051
\$500,000 to \$999,999.....	703	673		80,163	85,007		499,804,180	475,436,292		263,776,100	227,100,031	
\$1,000,000 and over.....	1,016	864	245	508,851	463,780	142,833	4,640,643,561	3,758,612,100	868,243,771	2,104,648,574	1,523,960,722	244,068,505
\$1,000,000 to \$2,499,999.....	600	(3)	(3)	126,752	(3)	(3)	925,444,169	(3)	(3)	477,404,799	(3)	(3)
\$2,500,000 to \$4,999,999.....	223	(3)	(3)	94,266	(3)	(3)	841,159,423	(3)	(3)	432,031,349	(3)	(3)
\$5,000,000 and over.....	193	(3)	(3)	287,833	(3)	(3)	2,874,039,900	(3)	(3)	1,194,552,426	(3)	(3)

¹ 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.

² No data.

³ 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.....	11,855	16,125	741,143	730,733	\$6,027,903,137	\$5,100,308,728	\$2,889,804,303	\$2,188,360,857
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	6,784	6,766	704,505	678,840	5,799,974,837	4,700,633,085	2,771,604,174	2,053,180,117
Other forms of ownership or control (individual, partnership, etc.).....	5,071	9,359	36,638	51,884	227,928,300	309,675,643	118,140,129	135,180,740
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	1,603	(1)	867,095	(1)	3,279,821,142	(1)	1,425,862,438	(1)
Independent (single-unit).....	10,252	(1)	374,048	(1)	2,748,081,905	(1)	1,463,041,805	(1)

¹ 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 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	Horse-power		
		Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	
The State:														
1929	4,340,575	2,035,138	3,713	1,041,497	752	920,286	817	119,560	172	13,705	225,287	2,245,437	70,763	1,499,435
1927	5,734,761	1,909,426	3,909	995,832	629	785,708	916	123,096	100	4,760	176,179	1,825,335	65,636	1,319,392
1925	3,482,618	1,901,435	4,568	1,137,009	716	623,083	1,066	133,218	173	8,085	146,574	1,581,183	58,378	1,151,619
1919 ¹	2,835,007	1,939,686	7,150	1,407,558	572	374,954	2,797	147,039	295	10,116	82,899	945,341	40,219	819,383
1914 ¹	1,985,950	1,712,136	8,346	1,541,212	(²)	(²)	4,059	158,481	333	14,443	31,450	273,814	34,687	849,186
<i>Industrial Areas</i>														
Cleveland Area (Cuyahoga and Lorain Counties)	989,227	490,743	547	213,984	169	238,283	97	37,607	9	869	63,548	498,484	12,373	370,485
Cincinnati Area, total	475,199	190,704	484	115,165	85	67,961	88	4,295	7	3,283	33,327	284,402	12,275	140,886
Portion in Ohio (Hamilton and Butler Counties)	436,148	172,015	451	105,710	79	60,201	77	3,721	7	3,283	31,053	263,233	11,649	133,315
Portion in Kentucky (Campbell and Kenton Counties)	39,048	17,789	33	9,455	6	7,760	11	574			2,274	21,259	626	7,571
Youngstown Area, total	1,171,241	722,846	799	420,432	217	251,620	73	46,087	32	4,707	18,233	448,305	14,083	411,099
Portion in Ohio (Mahoning and Trumbull Counties)	812,414	523,008	470	239,798	140	103,123	33	41,706	20	4,381	12,164	286,406	0,014	300,772
Portion in Pennsylvania (Mercer and Lawrence Counties)	358,827	199,838	329	183,634	77	58,497	40	4,381	12	326	6,069	161,899	5,069	110,327
Akron Area (coextensive with Summit County)	323,460	172,321	192	30,514	86	130,327	16	1,199	14	1,281	11,685	151,139	7,602	162,823
Toledo Area (coextensive with Lucas County)	201,483	59,737	122	15,453	17	43,284	20	850	2	150	17,774	141,746	1,301	31,612
Wheeling Area, total	446,001	265,965	312	102,231	52	66,690	71	7,044			9,927	180,636	6,408	231,005
Portion in Ohio (Belmont, Columbiana, and Jefferson Counties)	269,912	140,897	236	120,380	28	16,770	39	3,747			5,820	129,015	2,857	78,970
Portion in West Virginia (Hancock, Brooke, and Ohio Counties)	176,689	125,068	76	41,851	24	79,920	32	3,297			4,107	51,621	3,551	152,026
Dayton Area (coextensive with Montgomery County)	117,896	33,233	75	10,725	16	22,006	9	502	1	(³)	16,098	84,663	2,653	24,272
<i>Counties in which aggregate horsepower exceeded 25,000: 1929</i>														
Butler	173,384	95,668	77	44,589	35	50,319	9	477	7	3,283	3,555	74,716	4,504	75,542
Clark	36,381	11,880	29	7,081	5	1,770	22	2,159	65	570	3,137	24,801	843	8,181
Columbiana	49,586	23,077	89	20,343	11	1,072	20	1,662			2,885	26,509	213	2,581
Cuyahoga	782,808	315,108	349	128,522	121	169,089	30	16,628	9	869	61,412	467,700	8,229	261,352
Erie	25,522	8,597	31	3,999	2	4,330	10	268			1,374	16,925	810	7,725
Franklin	111,018	25,721	95	22,894	2	1,000	28	1,827			11,222	85,297	2,365	28,101
Greene	25,384	21,662	12	1,098	8	20,219	3	345			334	3,722	570	24,376
Hamilton	262,764	74,247	374	61,121	44	9,882	68	3,244			27,498	188,517	7,145	57,773
Jefferson	198,352	104,772	107	90,775	11	13,463	6	534			2,015	93,580	2,075	69,349
Lake	43,488	26,931	64	9,346	17	17,573	2	12	1	(⁴)	876	16,557	1,066	10,693
Lorain	206,419	175,635	198	85,462	48	99,194	17	20,979			2,136	30,784	4,144	109,103
Lucas	201,483	59,737	122	15,453	17	43,284	20	850	2	150	17,774	141,746	1,301	31,612
Mahoning	576,152	464,712	382	257,227	102	162,408	23	40,696	20	4,381	5,162	111,440	7,327	235,799
Montgomery	117,896	33,233	75	10,725	16	22,006	9	502	1	(⁵)	16,098	84,663	2,653	24,272
Muskingum	32,228	21,133	51	10,539	5	9,750	17	622	3	222	1,504	11,095	958	22,023
Richland	51,309	1,684	8	651	4	1,033	1	(⁶)			4,014	49,625	306	4,510
Scioto	65,269	55,078	63	19,343	32	34,967	10	763			1,474	13,181	1,240	48,021
Stark	281,115	85,822	111	25,482	42	58,895	23	1,220	6	225	9,637	195,293	4,081	112,908
Summit	323,460	172,321	192	30,514	86	139,327	16	1,199	14	1,281	11,685	151,139	7,602	162,823
Trumbull	236,262	61,296	88	29,571	38	36,715	10	1,010			7,002	174,968	1,687	64,973
Tuscarawas	40,663	23,078	107	22,595	1	(⁶)	14	402	3	81	1,408	17,555	628	7,342
Wayne	28,373	15,746	32	8,689	15	5,950	16	1,107			1,013	12,627	493	5,606

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

⁵ Item for internal-combustion engines included with that for steam engines to avoid disclosing data for a single establishment.

⁶ Item for steam 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

[This table presents statistics for each county for which separate figures are given in Table 2. See footnote 8 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors— plant energy ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors— plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	4,340,575	2,095,138	2,245,437	1,400,435	Lorain.....	206,419	175,635	30,784	109,103
Adams.....	395	231	164	-----	Lucas.....	201,483	59,737	141,746	31,612
Allen.....	21,717	12,833	8,384	16,771	Madison.....	1,083	529	554	46
Ashland.....	5,902	978	4,924	1,160	Mahoning.....	576,152	404,712	111,440	235,799
Ashtabula.....	18,418	8,000	10,418	4,748	Marion.....	24,974	4,188	20,786	931
Athens.....	4,994	2,197	2,797	130	Medina.....	9,071	4,423	4,048	1,684
Auglaize.....	9,610	4,802	4,808	915	Meigs.....	2,910	1,311	1,068	75
Belmont.....	21,974	13,048	8,926	7,049	Mercer.....	3,842	3,013	829	2,073
Brown.....	464	406	58	10	Miami.....	10,303	8,057	8,246	4,209
Butler.....	173,334	98,668	74,716	75,542	Monroe.....	446	170	267	-----
Carroll.....	2,264	2,986	3,278	561	Montgomery.....	117,896	33,233	84,663	24,272
Champaign.....	5,204	3,394	1,810	100	Morgan.....	660	597	53	-----
Clark.....	36,381	11,580	24,801	8,181	Morrow.....	693	607	80	918
Clermont.....	1,443	908	835	88	Muskingum.....	32,228	21,133	11,095	22,023
Clinton.....	1,586	210	1,376	-----	Noble.....	296	280	10	-----
Columbiana.....	49,686	23,077	26,509	2,581	Ottawa.....	9,210	3,063	6,157	5,008
Coshocton.....	7,275	2,601	4,674	1,584	Paulding.....	1,723	1,430	293	785
Crawford.....	11,192	2,911	8,281	1,750	Perry.....	5,740	3,065	2,672	1,373
Cuyahoga.....	782,808	315,108	467,700	261,382	Pickaway.....	4,800	2,263	1,817	(?)
Darke.....	2,249	773	1,478	-----	Pike.....	491	414	77	-----
Deane.....	6,292	1,637	3,765	178	Portage.....	18,001	4,900	13,101	340
Delaware.....	2,419	1,118	1,301	-----	Preble.....	684	180	504	-----
Eric.....	25,622	8,697	16,925	7,725	Putnam.....	1,437	1,113	324	964
Fairfield.....	11,869	2,469	9,410	-----	Richland.....	51,809	1,684	49,625	4,516
Fayette.....	2,331	1,187	1,144	40	Ross.....	24,584	23,321	1,263	17,312
Franklin.....	111,018	25,721	85,297	28,101	Sandusky.....	15,793	1,973	13,820	181
Fulton.....	2,546	670	1,867	292	Seneca.....	68,259	55,078	13,181	46,021
Gallia.....	889	494	395	-----	Shelby.....	17,632	1,495	10,037	350
Greene.....	25,384	21,662	3,722	24,372	Stark.....	4,627	393	4,134	-----
Guernsey.....	9,088	8,103	1,585	2,993	Summit.....	281,115	85,822	195,293	112,008
Hamilton.....	262,764	74,247	188,517	57,773	Trumbull.....	323,460	172,321	151,130	102,823
Hancock.....	14,020	4,203	10,423	571	Tuscarawas.....	236,262	61,296	174,666	64,073
Hardin.....	3,840	1,049	2,701	-----	Union.....	40,663	23,078	17,685	7,342
Harrison.....	780	507	273	-----	Van Wert.....	1,850	662	698	240
Henry.....	1,734	686	1,048	-----	Warren.....	2,463	580	1,873	(?)
Highland.....	3,136	2,127	1,009	1,102	Washington.....	11,664	5,488	0,106	1,770
Hocking.....	6,818	3,716	3,102	2,250	Wayne.....	5,429	813	4,616	142
Holmes.....	2,617	937	1,680	346	Williams.....	28,373	15,746	12,627	5,606
Huron.....	6,716	2,500	4,215	900	Wood.....	2,603	691	1,912	118
Jackson.....	12,187	10,019	1,588	1,132	Wyandot.....	20,317	15,295	5,022	20,268
Jefferson.....	108,352	104,772	93,580	69,849	Wynandot.....	2,863	1,262	1,111	250
Knox.....	6,683	3,107	2,595	-----	All other counties (Geauga and Vinton).....	2,037	1,663	374	300
Lake.....	43,488	26,081	16,567	19,693					
Lawrence.....	20,862	10,331	6,730	-----					
Licking.....	19,459	8,543	10,916	2,884					
Logan.....	2,936	1,899	1,087	608					

¹ Horsepower of electric motors driven by energy generated in establishments reporting.² Included in total for State but not shown separately to avoid disclosing data for individual establishments.

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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 lbs.).....	30,000,680	\$97,230,592	28,507,532	28,735,698	25,621,508	13,975,694	11,850,966
Anthracite (tons, 2,240 lbs.).....	140,657	598,538	(3)	202,038	108,608	43,198	80,860
Bituminous (tons, 2,000 lbs.).....	29,843,144	96,632,054	(3)	28,509,415	25,499,869	13,927,612	11,760,403
Coke (tons, 2,000 lbs.).....	10,691,089	44,536,573	(3)	(3)	8,640,711	6,267,433	6,745,934
Fuel oils, including crude oils and gas oils (gallons) ³	283,786,543	12,627,051	(3)	(3)	77,156,226	28,486,038	17,698,842
Gasoline and kerosene (gallons) ⁴	4,639,583	663,929	(3)	(3)	7,910,226		
Gas, natural (M cu. ft.).....	36,087,845	13,475,597	(3)	(3)	45,014,790	50,092,157	42,828,139
Gas, manufactured (M cu. ft.).....	221,139,694	10,264,696	(3)	(3)			
Other fuels.....	-----	1,652,123	(3)	(3)	(3)	(3)	(3)
Electric energy purchased (kilowatt-hours).....	3,080,039,560	41,523,862	(3)	(3)	(3)	(3)	(3)
Total cost of fuel and purchased energy.....	-----	\$221,974,423	\$216,141,741	(3)	\$182,914,254	\$69,335,812	\$60,117,773

¹ No data on cost of fuel, by kinds, were collected for years prior to 1929.² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.³ Not tabulated separately.⁴ No data.⁵ For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.⁶ Data incomplete.⁷ 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.⁸ Not reported separately.

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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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ¹
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	11,855	112,242	741,143	2,005,138	2,245,437	3,302,013,905	1,102,166,499	2,919,341,176	213,767,658	6,027,903,137	2,880,804,303
Agricultural implements.....	19	277	1,674	2,245	3,707	561,991	2,165,926	4,320,817	166,313	11,424,585	6,937,455
Aircraft and parts.....	10	364	966	.....	890	953,859	1,559,897	2,112,074	52,738	5,737,878	3,573,066
Aluminum manufactures.....	28	537	3,333	805	10,724	1,244,505	5,020,092	12,926,570	599,908	24,252,851	10,726,373
Artificial and preserved flowers and plants.....	5	5	33	.....	4	20,284	27,680	87,913	219	281,082	192,050
Asbestos products, other than steam packing and pipe and boiler covering.....	7	31	230	10	1,224	107,010	316,231	616,619	20,698	1,819,871	1,182,554
Awnings, tents, sails, and canvas covers.....	46	214	756	7	630	516,976	827,137	2,771,740	38,019	5,129,134	2,319,376
Bags, other than paper, not made in textile mills.....	9	34	285	.....	243	86,484	285,762	3,455,762	12,817	3,984,533	515,054
Bags, paper, exclusive of those made in paper mills.....	14	140	1,075	300	1,566	503,801	1,108,677	6,461,183	69,893	10,743,189	4,212,113
Baskets and rattan and willow ware, not including furniture.....	23	37	524	513	713	82,923	484,090	272,786	10,894	1,071,505	787,825
Belting, leather.....	14	34	85	63	170	122,433	141,705	581,135	7,061	1,097,612	509,416
Beverages.....	223	415	1,445	4,760	6,120	1,028,911	2,009,792	4,296,987	297,027	11,642,202	7,048,248
Blacking, stains, and dressings.....	6	9	15	.....	34	66,217	17,687	85,631	1,785	293,047	206,231
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	24	570	5,738	4,972	21,282	2,061,903	7,935,972	13,534,582	752,414	33,853,705	10,560,709
Bookbinding and blank-book making.....	57	121	801	.....	991	372,211	1,136,315	1,327,797	36,865	4,062,171	2,697,509
Boot and shoe findings, not made in boot and shoe factories.....	12	53	431	135	1,061	105,657	455,078	624,939	32,712	1,467,889	810,238
Boots and shoes, other than rubber.....	43	1,100	12,258	2,949	5,316	2,508,592	12,300,137	26,736,476	224,758	51,013,079	24,051,840
Boxes, cigar, wooden.....	13	10	242	110	226	40,723	163,957	237,795	7,442	625,498	380,261
Boxes, paper, not elsewhere classified.....	71	439	3,846	1,215	8,133	1,300,452	4,227,200	13,495,706	200,628	23,496,427	9,701,093
Boxes, wooden, except cigar boxes.....	46	144	1,406	2,390	3,227	484,406	1,567,115	3,675,874	61,329	7,378,886	3,641,683
Bread and other bakery products.....	1,321	1,201	13,567	1,040	22,738	2,854,274	18,496,979	49,548,205	2,057,070	103,235,031	51,620,766
Brooms.....	26	22	210	62	221	53,753	219,652	498,027	7,368	977,636	531,011
Brushes, other than rubber.....	19	171	564	285	1,943	684,826	711,392	1,802,095	23,392	4,276,385	2,460,898
Butter.....	118	420	1,195	1,859	8,713	850,361	1,530,296	35,050,633	38,560	42,774,340	7,385,147
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	106	333	2,480	6,036	3,871	712,068	1,890,076	11,951,400	180,303	18,952,074	6,820,371
Car and general construction and repairs, electric-railroad repair shops.....	43	124	1,879	.....	3,544	244,762	3,003,545	2,232,561	99,185	5,587,106	3,255,360
Car and general construction and repairs, steam-railroad repair shops.....	137	2,551	25,523	26,226	51,001	6,001,014	45,076,646	33,146,971	2,006,938	86,980,380	51,826,427
Card cutting and designing.....	7	54	259	.....	289	213,429	269,612	458,972	10,745	1,489,865	1,020,148
Carrriages and sleds, children's.....	6	191	2,083	590	1,889	509,119	2,707,635	3,667,240	121,832	8,366,249	4,576,177
Carrriages, wagons, sleighs, and sleds.....	6	26	114	250	274	70,310	152,035	406,044	10,576	825,208	407,988
Cars, electric and steam railroad, not built in railroad repair shops.....	11	333	1,281	2,302	14,023	743,207	1,084,325	4,462,894	234,488	8,153,207	3,455,825
Caskets, coffins, burial cases, and other morticians' goods.....	35	256	1,755	1,340	4,810	761,942	2,433,640	6,237,535	144,414	14,790,953	8,395,004
Cheese.....	36	11	78	817	147	43,207	99,547	722,600	13,010	1,258,009	522,309
Chemicals, not elsewhere classified.....	49	654	4,322	46,800	11,225	1,895,364	6,807,853	20,417,400	2,980,242	46,286,616	22,888,974
Chewing gum.....	4	43	103	.....	449	101,257	85,193	501,793	13,221	989,871	474,887
Cigars and cigarettes.....	107	167	6,193	.....	755	410,076	3,655,792	7,097,387	68,300	10,648,364	9,383,177
Clay products (other than pottery) and nonclay refractories.....	238	1,180	17,060	37,350	41,290	2,905,163	10,815,470	5,276,973	7,560,213	47,602,077	34,764,891
Cleaning and polishing preparations.....	52	206	287	15	990	595,423	822,002	2,822,301	33,704	7,562,612	4,706,517
Clocks, clock movements, time-recording devices, and time stamps.....	6	59	431	.....	419	172,263	608,039	653,024	19,836	1,770,304	1,097,454
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified).....	180	1,275	13,215	1,520	2,066	3,742,096	16,553,057	36,137,435	241,607	68,788,120	32,409,078
Clothing, men's, buttonholes.....	5	4	89	.....	42	9,485	92,079	20,170	222	163,962	143,570
Clothing, women's, not elsewhere classified.....	143	827	6,035	48	1,290	2,355,476	6,528,693	19,227,621	100,901	38,536,243	19,207,721
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	21	112	1,682	.....	513	304,849	1,276,881	3,553,118	26,132	6,167,925	2,588,075
Cloth sponging and refinishing.....	5	13	57	.....	54	41,205	84,365	8,027	4,703	243,308	200,573
Coffee and spice, roasting and grinding.....	54	201	890	459	3,424	745,713	994,862	24,824,962	153,440	32,387,238	7,408,890
Coke, not including gas-house coke.....	10	408	2,967	34,310	9,172	1,109,580	5,462,549	2,363,411	42,770,733	61,884,849	16,750,655
Compressed and liquefied gases.....	35	294	369	247	8,432	616,982	629,151	1,089,743	437,576	5,691,854	4,104,535
Concrete products.....	205	177	976	385	3,218	401,656	1,334,290	1,702,449	86,707	5,270,188	3,421,032
Condensed and evaporated milk.....	43	73	412	3,125	3,087	177,838	618,164	7,782,125	201,328	10,066,014	2,082,561
Confectionery.....	122	437	2,973	757	5,440	1,100,799	2,711,897	10,775,911	248,146	18,028,428	7,904,371
Cooperage.....	42	39	459	712	293	120,404	583,298	2,263,097	13,995	3,425,680	1,148,597
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	142	1,063	4,486	1,262	10,272	2,638,011	6,097,090	27,304,005	296,102	42,494,583	14,893,876
Corriage and twine.....	5	35	675	700	2,816	77,016	611,691	2,383,916	80,402	4,165,771	1,701,453
Cutlery (not including silver and plated cutlery) and edge tools.....	18	138	1,026	95	2,009	339,787	1,032,875	586,442	80,085	3,135,024	2,460,397
Dairymen's supplies; creamery, cheese-factory, butter-factory equipment; and poultrymen's and apiarists' supplies.....	12	101	676	630	849	435,865	890,883	2,421,032	38,232	7,014,513	4,555,249
Dental goods and equipment.....	6	84	430	125	389	277,818	563,064	808,209	26,752	2,902,414	2,067,453
Doors, shutters, and window sash and frames, metal.....	8	241	1,003	10	3,753	633,458	1,614,020	3,158,501	73,540	8,879,156	5,647,101
Druggists' preparations.....	25	176	417	303	673	429,115	408,158	1,705,619	24,442	3,966,005	2,235,944
Dyeing and finishing textiles.....	12	88	686	3,012	2,454	352,949	764,051	2,399,906	142,145	4,583,685	2,201,634
Electrical machinery, apparatus, and supplies.....	211	6,956	36,267	7,069	78,454	16,826,022	46,170,298	102,544,516	2,793,839	264,350,741	159,021,386
Electroplating.....	46	99	676	20	3,163	299,946	1,058,544	289,192	92,744	2,292,584	1,910,643
Embroideries.....	7	6	55	.....	28	26,450	69,776	128,647	1,468	298,340	168,235
Emery wheels and other abrasive and polishing appliances.....	9	66	325	235	479	173,483	321,907	869,039	48,873	2,108,161	1,190,249
Engines, turbines, tractors, and water wheels.....	25	787	4,742	8,790	11,456	2,549,434	7,527,276	18,684,016	467,901	40,417,797	21,276,880
Engraving (other than steel, copperplate, or wood), chasing, etching, and disinking.....	7	6	20	1	23	12,911	36,737	22,318	1,227	135,535	111,960

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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	268	1,031	4,508	8,112	26,618	Dollars 2,823,610	Dollars 6,404,400	Dollars 14,860,811	Dollars 460,156	Dollars 30,183,955	Dollars 14,853,988
Plated ware.....	4	40	224	220	397	116,892	243,177	134,591	16,566	745,317	594,160
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	45	438	2,983	355	8,069	1,335,803	4,042,546	5,121,569	453,078	14,397,853	8,822,309
Pocketbooks, purses, and cardcases.....	7	45	314	—	65	169,071	203,274	586,086	5,524	1,503,842	912,232
Pottery, including porcelain ware.....	92	923	11,642	6,095	14,804	2,523,873	13,693,727	7,185,437	2,482,330	35,486,435	25,818,608
Poultry killing, dressing, and packing, wholesale.....	15	30	114	40	145	60,063	125,800	1,647,688	8,947	2,126,824	470,309
Printing and publishing, book and job.....	839	2,826	10,188	1,088	13,888	7,878,301	16,183,746	18,876,046	606,430	68,999,908	40,517,432
Printing and publishing, music.....	6	123	4	—	8	250,096	7,540	89,177	409	637,773	548,187
Printing and publishing, newspaper and periodical.....	552	8,226	11,059	4,382	23,044	16,815,685	19,400,115	32,066,105	800,787	132,386,949	99,511,057
Printing materials, not including type or ink.....	9	14	41	—	100	44,665	61,451	65,870	5,105	343,831	272,856
Pulp goods.....	5	14	86	—	260	56,438	99,901	306,017	11,971	555,007	237,019
Pumps (hand and power) and pumping equipment.....	36	1,023	3,841	1,143	6,824	2,219,909	5,229,284	9,688,516	346,406	25,661,623	15,666,702
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	6	69	237	120	637	255,712	291,474	1,042,313	14,916	2,248,082	1,100,853
Regalia, badges, and emblems.....	7	129	720	300	34	360,094	740,173	1,244,383	19,691	3,018,372	1,764,298
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	9	58	330	—	1,600	153,444	606,145	4,479,921	112,213	8,307,954	3,775,820
Rubber goods other than tires, inner tubes, and boots and shoes.....	81	671	6,707	9,817	41,232	2,529,125	8,047,174	14,918,895	1,298,477	33,911,784	17,094,412
Rubber tires and inner tubes.....	32	7,900	55,307	130,939	114,285	19,498,338	88,164,663	267,855,105	5,875,283	503,197,194	220,466,806
Saddlery and harness.....	12	21	96	170	157	30,033	110,577	304,492	7,138	591,241	270,611
Safes and vaults.....	11	418	1,829	2,095	5,009	1,078,079	2,753,907	3,870,198	140,333	12,018,295	8,007,764
Salt.....	5	81	523	7,195	40	273,640	743,063	1,150,903	419,811	3,968,163	2,397,440
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	33	112	439	75	2,088	382,220	724,984	6,464,646	74,667	8,736,536	2,197,223
Saws.....	7	49	145	8	626	113,841	223,950	100,009	23,373	555,407	371,526
Screw-machine products and wood screws.....	42	529	5,248	1,895	15,955	1,795,408	7,715,889	9,181,476	479,313	27,210,394	17,549,605
Ship and boat building, steel and wooden, including repair work.....	21	146	2,105	9,103	8,140	400,775	3,185,929	3,469,250	225,050	8,855,080	5,169,745
Shirts.....	23	200	1,881	417	617	306,832	1,569,619	3,447,335	32,405	7,162,756	3,083,016
Signs and advertising novelties.....	109	546	2,593	870	2,655	1,284,121	3,264,083	5,396,509	153,401	14,419,093	8,069,183
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	10	38	146	342	129,922	129,922	197,708	3,390,188	55,772	4,075,991	630,031
Snap.....	22	765	2,723	4,000	10,485	1,444,031	3,691,126	29,339,053	716,102	45,241,298	15,180,143
Sporting and athletic goods, not including firearms or ammunition.....	19	283	1,415	485	1,226	713,118	1,888,673	3,137,050	76,065	8,687,750	5,474,635
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	77	816	6,959	1,220	12,543	2,800,914	9,112,501	13,583,643	802,666	33,003,649	18,617,440
Stationery goods, not elsewhere classified.....	11	195	644	836	481,903	481,903	848,083	1,626,080	31,795	4,652,601	2,005,756
Statuary and art goods, factory product.....	4	18	120	47	47	69,179	172,268	68,870	5,267	73,030	308,803
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	11	75	462	95	4,540	177,509	789,389	2,085,328	124,644	4,008,161	1,708,180
Steam fittings and steam and hot-water heating apparatus.....	23	583	3,916	1,740	7,893	1,905,980	5,369,896	5,842,463	549,885	20,819,289	14,427,241
Steel barrels, kegs, and drums.....	13	112	1,044	900	3,539	536,699	1,509,020	6,014,807	100,247	11,012,254	3,997,200
Stereotyping and electrotyping, not done in printing establishments.....	31	165	819	240	3,174	541,572	1,593,274	905,387	110,232	4,612,769	3,597,150
Stoves and ranges (other than electric) and warm-air furnaces.....	84	1,231	9,776	5,180	14,595	3,330,476	13,994,069	19,037,704	916,079	52,031,706	32,077,833
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	105	2,498	7,464	3,272	33,977	7,381,642	12,440,145	31,766,613	667,562	74,245,979	41,811,804
Sugar, beet.....	5	41	311	6,768	926	96,923	399,188	2,166,217	100,907	3,366,051	1,068,927
Surgical and orthopedic appliances, including artificial limbs.....	25	106	422	18	117	241,185	311,042	672,116	7,221	2,481,279	1,801,942
Theatrical scenery and stage equipment.....	4	8	33	71	71	21,700	62,394	72,044	1,376	237,158	163,739
Tin cans and other tinware, not elsewhere classified.....	19	284	2,551	2,212	4,248	675,200	2,957,553	11,887,206	167,545	19,166,927	7,111,176
Tools, not including edge tools, machine tools, files, or saws.....	40	314	1,933	2,930	6,250	973,434	2,521,284	3,950,714	292,921	11,344,962	7,101,327
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	41	176	1,166	155	1,403	490,260	1,132,574	1,577,735	60,061	4,375,778	2,737,982
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	14	17	134	4	40	46,039	141,689	121,293	4,198	481,110	355,619
Trunks, suitcases, and bags.....	27	92	401	120	640	295,376	533,169	1,109,103	23,894	2,806,295	1,173,295
Umbrellas, parasols, and canes.....	4	27	143	26	26	90,645	139,209	519,153	898,087	315,004	—
Wall plaster, wall board, insulating board, and floor composition.....	9	67	553	2,135	1,448	171,196	613,417	1,620,413	127,231	3,919,646	2,172,002
Washing machines, wringers, driers, and ironing machines, for household use.....	10	126	1,188	225	7,545	414,562	1,509,539	4,435,024	65,824	8,552,936	4,052,088
Waste.....	8	29	144	260	693	98,638	120,582	974,455	27,023	1,588,169	586,686
Window and door screens and weather strip.....	16	69	325	1,154	220,795	220,795	472,097	711,686	23,638	2,076,104	1,340,870
Window shades and fixtures.....	33	39	231	352	82,302	82,302	253,536	874,220	12,003	1,455,465	599,233
Wire, drawn from purchased bars or rods.....	8	147	1,811	7,454	400,886	2,970,539	7,082,596	342,850	16,094,629	6,769,080	—
Wirework, not elsewhere classified.....	49	218	1,462	206	3,735	627,070	2,102,732	4,610,619	131,692	11,535,553	6,492,742
Wood preserving.....	12	70	630	1,475	1,039	237,065	863,461	9,698,185	82,817	11,950,094	2,169,092
Wood turned and shaped and other wooden goods, not elsewhere classified.....	48	172	1,206	3,239	2,993	413,631	1,347,643	2,090,775	64,179	5,062,121	2,937,167
Woolen goods.....	8	38	606	520	1,096	134,471	567,348	1,598,169	51,588	2,780,040	1,130,285
Other industries.....	235	6,161	41,191	101,422	98,688	16,143,199	60,338,151	163,921,954	6,850,150	393,015,064	222,233,954

¹ 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.

² 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.

³ Not including data for 16,918 employees of central administrative offices, with salaries aggregating \$43,350,281. See GENERAL EXPLANATIONS—Persons Engaged.
⁴ Includes item for the "Pulp (wood and other fiber)" industry. All data for that industry except those for power are included in the "Other industries" items in order to avoid disclosing the figures reported by an individual establishment.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
CLEVELAND INDUSTRIAL AREA											
[This area comprises Cuyahoga and Lorain Counties]											
All industries, total.....	2,912	28,070	176,840	490,743	498,484	\$22,084,226	\$276,101,077	\$708,633,968	\$61,570,967	\$1,505,400,392	\$735,276,457
Artificial and preserved flowers and plants.....	5	5	33	-----	4	20,284	27,680	87,913	210	281,082	192,950
Awnings, tents, sails, and canvas covers.....	10	88	178	-----	105	220,474	217,037	428,700	9,364	1,018,557	580,427
Baskets and rattan and willow ware, not including furniture.....	4	10	144	-----	208	29,000	170,481	85,142	2,871	366,207	278,194
Beverages.....	35	101	366	1,017	1,268	203,695	494,214	943,910	76,324	2,082,407	1,662,257
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	15	484	5,031	4,072	17,937	1,780,858	6,970,825	11,263,241	627,885	28,291,206	16,400,080
Bookbinding and blank-book making.....	20	66	493	-----	492	100,200	656,634	523,899	18,498	2,023,230	1,480,839
Boxes, cigar, wooden.....	3	-----	14	-----	22	-----	14,189	16,970	577	30,745	22,108
Boxes, paper, not elsewhere classified.....	15	90	935	1,150	1,327	306,410	1,055,309	3,200,375	68,784	5,836,278	2,567,119
Boxes, wooden, except cigar boxes.....	10	36	383	400	974	128,080	460,320	947,802	14,159	1,843,017	881,056
Bread and other bakery products.....	339	273	3,752	375	5,100	684,465	5,343,472	13,385,648	556,293	28,166,791	14,224,850
Brushes, other than rubber.....	8	115	368	210	1,712	384,133	459,150	720,920	14,590	2,030,801	1,295,291
Butter.....	7	36	79	-----	2,242	67,670	125,078	2,966,463	21,754	3,575,182	586,965
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	10	75	431	490	880	128,206	297,376	4,412,760	39,176	5,895,894	1,413,940
Car and general construction and repairs, steam-railroad repair shops.....	12	401	4,374	0,803	4,042	1,255,296	8,121,987	6,141,485	201,990	15,814,066	9,380,591
Chemicals, not elsewhere classified.....	13	142	902	2,390	4,009	478,485	1,601,220	7,153,698	465,650	11,486,126	3,860,788
Cigars and cigarettes.....	13	20	333	-----	33	57,105	-----	409,467	2,830	951,493	530,196
Clay products (other than pottery) and nonclay refractories.....	12	42	628	308	4,072	120,728	1,075,331	113,036	606,270	2,430,659	1,711,363
Cleaning and polishing preparations.....	26	72	93	-----	185	290,443	100,395	1,122,840	8,578	2,795,445	1,604,027
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....)	41	386	5,645	1,500	1,143	1,271,363	7,406,849	17,397,154	106,091	30,591,518	13,088,273
Clothing, women's, not elsewhere classified.....	92	552	3,759	-----	641	1,737,717	4,714,787	13,778,441	57,728	28,012,767	14,170,598
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	6	11	198	-----	40	26,328	154,568	444,733	3,197	806,552	358,622
Coffee and spice, roasting and grinding.....	11	56	160	-----	693	140,339	177,553	4,669,977	49,393	6,994,485	1,975,115
Coke, not including gas-house coke.....	4	142	1,013	11,022	-----	473,478	1,830,932	661,673	18,467,062	23,268,043	4,128,408
Compressed and liquefied gases.....	9	106	104	122	2,286	232,404	266,158	512,276	115,070	2,318,564	1,691,208
Concrete products.....	36	55	368	51	773	148,700	526,942	550,840	28,021	1,880,809	1,308,038
Confectionery.....	34	140	988	160	2,907	462,741	1,024,839	4,561,291	108,711	7,257,057	2,587,145
Copperage.....	6	14	223	205	73	75,160	2,250,080	1,130,204	5,133	1,053,132	427,795
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	40	140	690	12	1,040	410,090	1,137,590	1,987,355	33,787	4,599,868	2,578,726
Electrical machinery, apparatus, and supplies.....	81	2,188	11,158	1,402	22,418	5,033,291	14,850,237	38,309,359	1,035,057	80,026,126	49,076,310
Electroplating.....	23	67	309	20	1,548	180,293	608,584	150,490	41,465	1,153,356	961,401
Engraving (other than steel, copperplate, or wood), chasing, etching, and desinking.....	3	-----	3	1	5	-----	-----	5,930	200	24	36,100
Engraving, steel and copperplate, and plate printing.....	12	32	148	-----	159	95,323	204,220	234,034	5,052	748,297	509,211
Fancy and miscellaneous articles, not elsewhere classified.....	8	24	120	-----	35	67,489	105,290	139,591	3,206	577,534	434,677
Feeds, prepared, for animals and fowls.....	4	13	25	-----	695	29,198	30,982	490,172	5,008	622,595	127,415
Flavoring extracts and flavoring sirups.....	12	54	100	125	205	149,418	139,734	916,162	7,765	2,152,465	1,228,538
Flour and other grain-mill products.....	6	27	85	80	1,981	60,225	132,861	3,359,373	55,868	3,952,739	637,998
Food preparations, not elsewhere classified.....	8	7	40	-----	151	10,991	43,672	493,283	7,423	610,878	170,172
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	18	211	1,775	2,000	12,129	913,567	3,188,480	5,597,471	886,275	14,909,811	8,420,065
Foundry and machine-shop products, not elsewhere classified.....	220	3,123	19,441	3,312	72,200	0,896,867	32,368,617	42,290,210	2,967,856	118,404,221	73,140,155
Fur goods.....	25	37	138	-----	46	61,654	267,691	900,210	4,918	1,541,780	636,652
Furniture, including store and office fixtures.....	47	349	2,067	450	3,737	1,052,567	3,028,726	5,126,073	111,662	12,282,852	7,015,117
Gas and electric fixtures; lamps, lanterns, and reflectors.....	18	171	1,071	-----	3,167	458,526	1,314,257	2,549,870	64,580	6,547,243	3,932,784
Grease and tallow, not including lubricating greases.....	5	23	151	190	1,423	73,492	284,900	576,774	50,466	1,390,414	742,174
Hand stamps and stencils and brands.....	9	45	101	-----	151	91,185	147,365	147,129	6,005	584,229	401,095
Hardware not elsewhere classified.....	7	156	1,274	260	2,707	369,945	1,808,842	1,070,758	180,903	4,680,760	3,458,089
Hats and caps, except felt and straw, men's.....	12	26	95	-----	44	64,209	113,365	308,964	2,580	656,378	344,534
House-furnishing goods, not elsewhere classified.....	12	29	103	-----	190	74,769	116,023	295,692	4,720	723,692	426,280
Ice cream.....	19	80	234	-----	3,001	156,880	424,074	1,781,362	84,842	4,367,185	2,500,981
Ice, manufactured.....	17	67	202	2,505	10,262	290,127	382,512	63,072	325,091	3,489,496	3,100,493
Instruments, professional and scientific.....	4	27	105	-----	148	73,329	165,786	117,644	7,574	629,863	495,745
Iron and steel: Blast furnaces.....	5	199	1,761	414,524	54,440	587,526	3,343,519	25,841,815	12,750,761	53,468,164	15,075,588
Iron and steel: Steel works and rolling mills.....	21	1,228	10,191	-----	54,440	3,512,179	35,650,817	94,059,681	12,445,084	187,509,491	81,004,726
Iron and steel, processed.....	6	22	86	-----	707	89,962	148,558	56,573	80,272	582,587	445,742
Jewelry.....	13	18	70	-----	25	36,532	114,239	186,927	2,844	500,849	311,078
Knit goods.....	24	207	2,760	85	1,333	845,019	2,647,391	6,939,660	89,605	12,863,889	5,834,624
Lithographing.....	16	189	900	-----	1,368	573,958	1,752,588	1,335,915	32,984	5,719,637	4,350,738
Lubricating oils and greases, not made in petroleum refineries.....	18	108	121	31	639	352,743	193,183	2,344,723	30,541	4,349,015	1,973,751
Macaroni, spaghetti, vermicelli, and noodles.....	8	22	138	-----	426	69,583	123,808	611,510	16,963	628,506	454,033
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	56	410	2,531	452	10,216	1,160,120	4,452,801	2,973,382	264,706	15,012,847	11,774,759
Machine tools.....	19	580	3,696	615	9,763	1,554,054	6,634,323	6,555,129	232,180	23,204,289	16,416,980

See footnotes at end of this section, p. 408.

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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
CLEVELAND INDUSTRIAL AREA—Continued											
Marble, granite, slate, and other stone products.....	21	93	647	900	4,022	\$296,065	\$891,790	\$1,089,206	\$70,768	\$3,039,584	\$1,920,020
Mattresses and bed springs, not elsewhere classified.....	10	41	160		355	146,576	216,361	541,238	11,031	1,178,135	625,866
Meat packing, wholesale.....	25	582	1,880	3,145	3,642	1,397,018	2,556,317	42,196,788	260,606	49,345,714	6,888,320
Millinery.....	16	51	667		303	215,240	701,793	1,279,367	16,581	2,776,868	1,480,920
Models and patterns, not including paper patterns.....	42	59	396		690	188,571	817,488	321,500	19,065	1,762,976	1,422,411
Motion pictures, not including projection in theaters.....	4	35	12		7	101,700	22,768	35,339	1,070	172,397	150,988
Motor-vehicle bodies and motor-vehicle parts.....	40	1,232	12,672	1,440	47,637	3,408,829	22,566,931	70,085,298	971,275	125,197,505	54,140,932
Motor vehicles, not including motorcycles.....	9	1,402	6,180	442	19,623	3,643,792	10,167,395	59,459,601	582,820	103,649,164	43,606,653
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	3	15	127	118	384	64,093	165,117	459,763	22,148	929,767	459,856
Nonferrous-metal alloys and products, not including aluminum products.....	42	280	1,572	75	4,295	611,745	2,550,255	7,035,619	206,325	13,236,563	5,994,619
Paints and varnishes.....	47	914	1,721	700	9,230	2,968,514	2,428,335	17,674,833	285,422	36,520,273	18,560,018
Patent or proprietary medicines and compounds.....	30	163	151		601	515,838	189,663	1,800,046	17,140	4,743,907	3,425,821
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	4	13	97	28	711	38,680	163,662	744,892	31,513	1,235,740	459,335
Perfumes, cosmetics, and other toilet preparations.....	17	94	135		128	357,444	153,531	674,938	6,465	3,316,294	2,634,891
Photo-engraving, not done in printing establishments.....	13	100	314		268	397,575	754,216	194,571	20,287	1,930,980	1,716,122
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	42	155	669	605	5,370	478,594	1,147,645	3,006,011	78,959	5,371,992	2,287,022
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	23	204	1,400		3,593	702,460	1,852,397	2,137,321	165,901	6,446,704	4,143,482
Pottery, including porcelain ware.....	3	24	200	180	107	80,710	256,539	57,321	32,342	549,417	459,754
Printing and publishing, book and job.....	251	882	2,832	1	3,741	2,698,004	5,156,765	5,636,030	159,999	21,116,290	15,320,261
Printing and publishing, newspaper and periodical.....	92	2,244	2,421		5,484	5,954,534	4,759,997	7,102,169	172,441	35,359,388	28,084,778
Printing materials, not including type or ink.....	4	9	13		35	27,745	24,644	29,619	1,689	177,020	145,712
Pumps (hand and power) and pumping equipment.....	4	38	100		212	124,835	143,062	748,212	10,675	1,275,050	516,163
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	19	97	379	40	1,739	341,008	636,576	5,570,488	61,203	7,587,112	1,955,421
Screw-machine products and wood screws.....	24	467	4,674	1,000	13,964	1,532,817	6,970,969	8,193,536	408,529	24,115,499	15,513,434
Signs and advertising novelties.....	28	134	336		364	233,874	552,593	631,172	17,237	2,036,776	1,488,367
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	6	36	136		314	122,742	179,568	2,978,778	54,161	3,577,627	544,688
Sporting and athletic goods, not including firearms or ammunition.....	4	24	133	90	329	77,243	172,956	250,207	20,730	769,534	498,597
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	33	315	2,538	60	5,405	1,101,124	3,794,488	6,107,140	322,767	13,783,243	7,363,336
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	4	18	62	95	394	50,485	76,067	109,098	4,899	308,765	194,768
Steam fittings, and steam and hot-water heating apparatus.....	12	161	1,288	75	1,618	564,836	1,782,851	1,990,252	211,685	7,138,756	4,027,819
Steel barrels, kegs, and drums.....	7	54	496		1,369	286,114	723,507	3,510,235	37,293	5,434,041	1,880,513
Stereotyping and electrotyping, not done in printing establishments.....	9	42	146		611	172,117	308,558	100,008	21,855	872,670	750,807
Stoves and ranges (other than electric) and warm-air furnaces.....	22	351	3,182	680	4,380	1,133,130	4,464,872	8,417,861	271,095	20,617,854	11,928,898
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	32	575	2,413	220	9,599	2,097,814	4,449,408	8,727,273	216,556	19,643,222	10,699,393
Tin cans and other tinware, not elsewhere classified.....	3	65	556	300	1,325	98,905	654,482	2,130,454	25,115	3,653,010	1,407,441
Tools, not including edge tools, machine tools, files, or saws.....	9	97	536		2,055	302,455	767,278	1,171,744	109,315	3,516,120	2,235,061
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	8	24	139		70	46,979	133,937	210,829	4,792	592,592	376,971
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	10	14	121	4	32	41,512	130,879	81,677	3,610	411,842	326,555
Trunks, suitcases, and bags.....	10	19	67		35	67,973	81,648	249,337	1,501	415,651	164,823
Waste.....	3	12	51	50	48	38,911	46,790	308,905	6,505	529,511	214,101
Window and door screens and weather strip.....	6	9	21		45	24,988	36,798	84,621	769	187,954	102,564
Window shades and fixtures.....	15	12	40		50	24,501	59,885	131,992	2,224	289,197	157,071
Wirework, not elsewhere classified.....	20	151	1,079	4	2,682	465,294	1,624,095	2,882,195	100,209	7,692,889	4,710,485
Wood turned and shaped and other wooden goods, not elsewhere classified.....	6	9	47		293	25,525	74,121	58,685	4,020	236,245	173,540
Other industries.....	289	3,246	22,401	18,866	69,115	9,097,470	31,264,375	87,989,587	2,944,791	167,047,499	76,118,121

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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 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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
CINCINNATI INDUSTRIAL AREA											
[This area comprises Butler and Hamilton Counties, Ohio, and Campbell and Kenton Counties, Ky.]											
All industries, total.....	2,373	19,942	114,068	100,704	284,492	\$52,105,178	\$157,583,720	\$473,214,207	\$18,018,429	\$933,200,890	\$430,058,164
Awings, tents, sails, and canvas covers.....	10	21	98	---	36	52,958	115,522	191,225	3,208	492,513	207,990
Belting, leather.....	3	9	17	---	53	31,604	31,164	105,612	983	215,783	109,288
Beverages.....	27	104	287	485	903	286,253	367,137	969,187	48,395	2,610,220	1,698,038
Bookbinding and blank-book making.....	23	25	177	---	177	50,907	221,051	180,111	6,380	676,955	490,458
Boot and shoe findings, not made in boot and shoe factories.....	0	23	94	---	201	47,258	124,098	180,028	11,530	472,033	271,475
Boots and shoes, other than rubber.....	15	269	2,951	870	813	694,772	3,250,814	5,614,887	52,068	11,335,035	5,607,482
Boxes, cigar, wooden.....	4	2	66	---	80	(1)	48,112	61,630	2,221	142,580	78,729
Boxes, paper, not elsewhere classified.....	21	138	1,073	15	1,842	433,451	1,101,241	3,378,613	52,803	6,120,124	2,688,708
Boxes, wooden, except cigar boxes.....	14	47	365	1,200	1,030	174,726	306,088	843,077	20,615	1,965,272	1,091,580
Bread and other bakery products.....	272	273	2,782	275	4,059	648,089	3,811,777	10,582,888	386,378	22,181,136	11,211,876
Brooms.....	4	5	37	---	37	14,008	44,276	70,843	1,429	177,880	105,414
Brushes, other than rubber.....	0	9	32	---	03	16,921	34,374	91,359	2,385	237,886	144,142
Butter.....	14	90	231	137	800	212,855	265,313	7,535,269	37,090	9,605,293	2,032,937
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	10	75	390	150	412	188,381	310,179	2,016,091	22,014	2,923,400	885,295
Car and general construction and repairs, steam-railroad repair shops.....	22	363	4,615	1,996	5,559	963,162	7,730,607	3,204,910	318,706	12,226,885	8,702,769
Chemicals, not elsewhere classified.....	16	119	724	2,121	2,198	362,446	956,049	6,941,885	215,855	11,234,328	4,077,088
Cigars and cigarettes.....	27	44	548	---	46	155,951	455,895	605,606	5,602	1,780,260	1,160,142
Clay products (other than pottery) and nonclay refractories.....	12	98	480	645	881	131,001	519,152	199,141	139,007	1,230,259	802,111
Cleaning and polishing preparations.....	12	59	36	---	96	109,057	43,564	368,444	3,956	1,091,413	718,983
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	75	783	6,280	20	1,207	2,102,312	7,047,417	15,698,040	109,143	32,815,075	17,107,286
Clothing, women's, not elsewhere classified.....	19	103	728	---	140	188,075	652,049	1,893,317	12,055	3,825,473	1,019,501
Coffee and spice, roasting and grinding.....	14	64	349	405	910	175,202	395,642	6,220,808	36,181	8,598,820	2,333,937
Compressed and liquefied gases.....	5	37	41	125	802	80,251	101,894	75,207	51,302	571,273	444,704
Concrete products.....	37	38	168	92	725	87,305	238,817	313,694	15,374	989,431	655,393
Condensed and evaporated milk.....	3	1	9	225	37	(1)	15,491	245,544	12,034	422,048	104,470
Confectionery.....	33	52	938	215	1,159	312,491	884,295	3,245,247	65,707	6,423,306	3,112,562
Cooperage.....	3	10	83	150	180	24,864	100,703	220,730	4,418	440,547	215,999
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	41	286	1,051	335	2,482	818,950	1,532,206	8,026,574	85,182	12,781,513	4,000,757
Cutlery (not including silver and plated cutlery) and edge tools.....	3	4	12	15	29	7,200	22,535	6,591	1,873	52,153	43,080
Electrical machinery, apparatus, and supplies.....	39	893	5,554	1,939	10,167	1,913,164	5,497,466	12,647,468	249,411	20,890,884	10,993,987
Electroplating.....	9	18	130	---	531	45,354	196,119	51,585	19,773	452,899	381,511
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	4	6	17	---	18	12,911	30,807	22,118	1,293	99,435	76,114
Engraving, steel and copperplate, and plate printing.....	8	52	264	---	201	123,772	200,029	181,737	7,461	815,813	626,615
Feeds, prepared, for animals and fowls.....	7	72	172	40	3,127	206,428	257,549	5,320,503	48,389	6,324,917	950,020
Fertilizers.....	6	80	987	50	5,164	208,127	525,378	4,049,942	57,974	5,490,294	1,382,378
Flavoring extracts and flavoring sirups.....	18	43	134	341	246	179,140	202,619	2,207,637	41,294	4,112,471	1,865,540
Flour and other grain-mill products.....	8	11	36	320	740	21,064	48,583	936,385	18,499	1,191,940	237,056
Food preparations, not elsewhere classified.....	11	27	147	125	364	43,901	172,337	906,408	14,872	1,347,450	426,170
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	6	59	181	430	881	214,125	261,564	861,706	59,232	1,547,096	626,158
Foundry and machine-shop products, not elsewhere classified.....	163	1,492	7,592	3,969	23,562	4,298,067	11,728,883	14,765,025	876,701	46,040,012	30,762,256
Foundry supplies.....	4	26	60	500	439	32,681	76,724	382,358	13,516	640,268	244,395
Furniture, including store and office fixtures.....	47	411	2,201	3,185	4,059	943,779	2,946,433	3,702,796	148,326	9,206,794	5,355,672
Glass products (except mirrors) made from purchased glass.....	8	30	163	---	78	80,670	208,461	272,345	7,050	711,800	432,495
Grease and tallow, not including lubricating greases.....	5	15	193	455	208	38,933	220,237	230,934	51,493	625,348	342,921
Hand stamps and stencils and brands.....	0	13	29	---	54	20,607	49,411	44,655	1,702	191,593	145,236
Hardware not elsewhere classified.....	11	54	281	90	409	134,466	313,919	580,484	20,354	1,453,583	852,745
Hats and caps, except felt and straw, men's.....	13	40	199	---	32	78,983	188,364	585,929	3,340	1,178,573	589,304
House-furnishing goods, not elsewhere classified.....	12	51	257	375	432	124,808	245,709	1,211,450	14,333	3,077,655	761,872
Ice cream.....	29	52	230	1,687	1,243	159,890	315,113	1,783,883	95,608	2,950,020	2,446,350
Ice, manufactured.....	32	38	221	706	11,067	134,481	392,136	136,718	367,552	6,492,745	3,355,559
Ink, printing.....	9	206	370	1,480	948	510,050	605,393	2,931,116	116,070	39,506,683	14,915,258
Iron and steel: Steel works and rolling mills.....	4	507	5,881	99,080	39,130	1,138,553	9,597,498	21,461,028	3,220,397	1,841,111	1,248,434
Jewelry.....	22	103	281	---	152	212,328	446,248	685,048	7,029	1,456,192	524,221
Knit goods.....	4	23	291	520	13	77,505	267,634	951,590	10,372	1,456,192	257,041
Leather goods, not elsewhere classified.....	7	13	118	---	33	22,662	111,635	342,859	2,060	601,951	267,041
Lithographing.....	16	316	1,261	1,120	2,023	804,436	1,827,093	2,039,297	53,721	8,019,197	5,928,179
Macaroni, spaghetti, vermicelli, and noodles.....	3	5	30	35	77	5,726	20,458	106,675	6,256	197,939	85,005
Machine-tool accessories and small metal-work-ing tools, not elsewhere classified.....	11	42	163	---	343	133,871	248,031	199,900	11,357	950,844	748,537
Machine tools.....	32	1,220	6,081	3,800	19,168	3,521,360	10,168,889	9,887,844	456,106	34,684,190	24,340,240
Marble, granite, slate, and other stone products.....	21	51	204	550	928	182,823	376,089	528,436	25,217	2,316,045	1,762,992
Mattresses and bed springs, not elsewhere classified.....	12	75	333	1,650	287	248,444	341,975	1,126,186	11,320	1,844,750	707,253
Meat packing, wholesale.....	42	334	1,689	4,857	2,558	911,867	2,423,531	43,523,499	207,249	50,566,696	6,895,948
Mirrors, framed and unframed.....	7	16	95	---	181	54,745	125,140	225,038	9,012	524,839	200,439
Models and patterns, not including paper patterns.....	20	33	176	---	302	116,022	303,466	103,996	8,998	707,715	594,751
Motor-vehicle bodies and motor-vehicle parts.....	18	211	5,266	5,285	3,145	599,656	8,192,439	22,320,894	191,856	33,564,783	11,052,033

See footnotes at end of this section, p. 410.

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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Primo movers	Electric motors driven by purchased energy						
CINCINNATI INDUSTRIAL AREA—Continued											
Nonferrous-metal alloys and products, not including aluminum products.....	25	230	1,454	125	2,237	\$334,265	\$2,207,190	\$4,194,470	\$152,870	\$10,139,753	\$5,702,407
Paints and varnishes.....	25	251	631	1,243	3,600	771,017	618,578	7,703,898	120,188	13,199,931	5,375,845
Paper.....	16	453	4,665	40,047	33,109	1,875,250	7,130,066	22,010,874	2,059,408	40,132,124	16,061,842
Patent or proprietary medicines and compounds.....	27	154	212	-----	389	361,702	214,266	865,752	15,394	4,499,730	3,618,563
Perfumes, cosmetics, and other toilet preparations.....	12	80	321	25	348	318,128	357,879	1,462,063	15,819	3,969,889	2,491,107
Photo-engraving, not done in printing establishments.....	18	89	255	-----	171	320,087	599,124	134,518	11,076	1,325,883	1,170,080
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	46	321	1,265	3,770	3,528	888,238	1,784,403	4,461,065	98,272	6,386,349	4,827,012
Plated ware.....	4	40	224	220	307	116,892	248,177	134,591	16,566	745,317	504,160
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	7	41	255	325	728	103,731	318,735	396,731	32,476	1,052,883	623,670
Poultry killing, dressing, and packing, wholesale.....	7	9	36	-----	7	23,669	40,404	603,054	2,891	796,630	100,685
Printing and publishing, book and job.....	193	784	3,096	845	3,929	2,099,871	4,344,363	5,274,334	174,793	20,000,530	14,551,403
Printing and publishing, music.....	4	115	75	-----	90	255,201	98,040	132,807	2,312	783,204	648,175
Printing and publishing, newspaper and periodical.....	74	1,376	1,765	955	4,825	2,875,876	3,639,843	4,674,255	134,340	10,390,495	14,590,804
Pumps (hand and power) and pumping equipment.....	5	257	718	631	1,347	446,529	1,035,213	2,410,568	89,775	4,974,419	2,474,070
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	7	6	17	-----	97	15,852	24,946	202,061	6,377	343,274	74,830
Signs and advertising novelties.....	29	171	901	310	821	418,071	1,012,214	2,251,070	39,901	5,433,366	3,141,705
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	12	86	605	-----	1,165	242,702	871,073	1,059,407	52,910	3,087,365	1,975,042
Stationery goods, not elsewhere classified.....	3	22	155	-----	234	50,915	174,261	222,764	7,099	646,892	410,429
Stereotyping and electrotyping, not done in printing establishments.....	10	47	369	-----	1,489	150,648	727,242	431,702	55,977	2,044,266	1,556,407
Stoves and ranges (other than electric) and warm-air furnaces.....	12	450	1,885	350	3,780	1,049,662	2,843,063	3,195,078	202,780	10,491,525	7,003,061
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	22	195	600	310	1,002	511,841	821,218	1,486,109	45,000	3,744,305	2,213,106
Surgical and orthopedic appliances, including artificial limbs.....	10	63	240	22	51	158,831	176,496	250,393	3,001	1,061,521	807,527
Tin cans and other tinware, not elsewhere classified.....	10	152	1,313	1,585	1,122	431,153	1,501,954	7,272,590	79,133	11,013,483	3,661,754
Tools, not including edge tools, machine tools, files, or saws.....	5	23	69	390	67	100,050	87,847	92,841	6,900	409,569	309,828
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	3	1	19	-----	6	(1)	17,185	17,261	820	51,101	33,020
Trunks, suitcases, and bags.....	11	48	242	120	470	121,743	344,742	653,077	10,856	1,354,990	691,066
Window and door screens and weather strip.....	5	68	316	-----	781	175,755	375,969	533,946	17,600	1,669,744	1,118,138
Window shades and fixtures.....	8	12	157	-----	260	23,203	151,218	495,507	6,547	750,157	248,043
Wirework, not elsewhere classified.....	14	34	190	152	352	91,603	249,068	611,785	12,407	1,245,866	621,074
Wood turned and shaped and other wooden goods, not elsewhere classified.....	11	37	323	797	1,016	122,682	423,687	470,824	15,544	1,365,758	870,300
Other industries.....	269	4,432	26,250	23,887	57,770	11,417,033	33,790,614	168,204,795	4,345,873	300,591,295	128,040,627

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.¹ Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."² Includes item for "Iron and steel; Blast furnaces" industry. All data for that industry except those for power are included in the "Other industries" items to avoid disclosing the figures reported by an individual establishment.**YOUNGSTOWN INDUSTRIAL AREA**

[This area comprises Mahoning and Trumbull Counties, Ohio, and Lawrence and Mercer Counties, Pa.]

All industries, total.....	612	9,508	78,903	722,846	448,395	\$25,386,913	\$138,076,535	\$436,586,508	\$67,441,487	\$823,532,610	\$319,604,615
Beverages.....	22	14	65	1	194	37,685	100,198	222,020	11,937	590,736	365,770
Boxes, wooden, except cigar boxes.....	3	12	107	300	296	17,280	90,796	322,389	5,436	557,108	220,343
Bread and other bakery products.....	91	58	733	3	1,764	115,149	1,087,363	2,555,783	158,866	5,309,913	2,594,204
Butter.....	6	8	18	60	268	7,344	31,958	494,690	7,767	593,319	90,862
Car and general construction and repairs, steam-railroad repair shops.....	14	300	3,159	4,150	3,722	841,099	5,579,793	4,524,812	210,252	11,155,956	6,420,892
Cars, electric and steam railroad, not built in railroad repair shop.....	3	122	737	500	7,519	332,454	1,106,181	3,117,136	130,800	5,347,751	2,099,815
Clay products (other than pottery) and nonclay refractories.....	11	60	879	1,821	4,350	156,053	1,263,402	384,782	471,723	2,711,304	1,854,790
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	3	15	291	-----	68	58,169	211,574	490,571	5,746	842,695	340,378
Coke, not including gas-house coke.....	4	129	1,061	12,517	2,000	311,272	2,073,560	991,891	14,378,385	21,476,447	6,106,171
Concrete products.....	27	20	109	5	500	48,051	168,559	236,385	15,670	662,476	410,421
Condensed and evaporated milk.....	6	11	43	444	45	21,971	57,820	530,173	15,942	762,345	216,230
Cooperage.....	4	3	35	50	17	5,820	40,086	110,712	1,374	186,883	77,797

See footnotes at end of this section, p. 411.

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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
YOUNGSTOWN INDUSTRIAL AREA—Continued											
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	7	31	105	—	602	\$79,540	\$287,779	\$1,056,473	\$9,424	\$1,525,166	\$450,269
Electrical machinery, apparatus, and supplies	14	835	4,110	2,503	40,556	1,919,099	5,839,306	18,399,635	480,062	45,707,654	26,827,957
Flour and other grain-mill products	11	7	46	460	465	25,836	57,158	1,746,107	14,266	2,047,232	286,859
Foundry and machine-shop products, not elsewhere classified	50	977	5,697	4,515	39,256	2,825,040	9,420,405	26,245,378	1,065,553	50,467,821	23,146,890
Ice cream	20	35	115	215	1,535	90,912	204,722	1,130,908	59,639	2,171,044	972,397
Ice, manufactured	8	31	93	772	2,333	54,846	97,913	143,909	97,834	756,116	514,373
Iron and steel: Blast furnaces	13	279	3,287	664,791	263,557	765,259	6,262,227	56,705,353	26,211,766	99,009,041	10,091,822
Iron and steel: Steel works and rolling mills	35	3,087	41,628	—	—	8,760,690	79,477,600	263,577,119	20,935,596	440,821,373	156,308,668
Lumber and timber products, not elsewhere classified	26	8	210	1,976	—	13,970	193,596	141,861	8,020	603,024	454,043
Marble, granite, slate, and other stone products	3	2	5	—	129	(^c)	7,070	22,737	1,178	61,782	37,867
Models and patterns, not including paper patterns	7	4	36	—	86	11,410	72,232	33,868	2,737	175,600	138,995
Motor-vehicle bodies and motor-vehicle parts	7	40	185	—	1,509	118,266	267,625	544,149	33,403	1,196,011	618,369
Paints and varnishes	4	21	40	—	703	66,866	44,793	293,101	16,084	633,323	225,138
Paving materials: Asphalt, tar, crushed slag, and mixtures	12	10	248	—	1,906	36,177	372,940	825,755	71,543	2,420,040	1,522,748
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	15	43	130	125	1,309	132,997	230,397	364,449	20,353	\$11,170	426,377
Pottery, including porcelain ware	8	214	2,625	410	2,527	474,355	2,947,451	1,093,531	381,230	6,754,295	5,274,534
Printing and publishing, book and job	30	43	157	—	233	121,954	245,406	226,515	11,659	858,973	620,799
Printing and publishing, newspaper and periodical	22	403	400	7	936	905,102	882,676	800,853	40,827	4,402,395	3,500,710
Signs and advertising novelties	6	13	77	—	76	101,679	101,679	113,199	10,540	393,390	209,651
Tools, not including edge tools, machine tools, files, or saws	3	0	12	—	96	19,344	24,030	10,064	2,179	82,704	69,561
Other industries	117	2,649	12,310	27,221	63,688	6,988,620	19,223,293	49,114,295	2,554,606	112,593,048	60,024,747

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.^c Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."**AKRON INDUSTRIAL AREA**

(This area is coextensive with Summit County)

All industries, total	350	10,260	67,298	172,321	151,139	\$25,708,359	\$107,253,920	\$308,369,142	\$9,290,751	\$599,053,205	\$281,393,402
Beverages	9	26	85	370	338	85,037	122,284	263,728	17,829	781,706	500,149
Bread and other bakery products	54	56	707	74	1,320	123,425	1,002,797	2,688,866	103,818	5,474,264	2,681,670
Clay products (other than pottery) and nonclay refractories	9	36	797	1,875	1,914	103,713	902,565	86,645	681,071	2,205,344	1,587,623
Coffee and spice, roasting and grinding	6	7	14	6	89	21,247	15,577	319,704	2,563	519,522	197,255
Concrete products	9	7	35	—	135	14,888	56,711	65,048	3,037	195,100	127,015
Foundry and machine-shop products, not elsewhere classified	37	709	3,340	1,339	19,790	1,852,060	5,940,816	8,380,080	529,844	21,352,164	12,442,240
Furniture, including store and office fixtures	6	23	76	—	112	89,465	116,077	319,484	3,752	611,152	287,916
Ice cream	6	26	100	—	750	65,287	164,412	556,383	37,725	1,394,211	770,103
Ice, manufactured	4	16	46	800	1,963	49,330	86,963	16,384	90,230	679,303	473,283
Marble, granite, slate, and other stone products	3	—	10	—	105	—	15,400	10,660	—	47,000	27,350
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	12	87	300	755	1,042	186,298	430,983	1,284,399	22,064	2,345,644	1,039,181
Pottery, including porcelain ware	6	139	1,144	230	3,643	425,730	1,519,513	1,837,557	313,392	5,229,669	3,023,310
Printing and publishing, book and job	34	160	593	240	626	528,602	1,020,190	1,145,966	39,993	4,170,043	2,990,034
Rubber goods, other than tires, inner tubes, and boots and shoes	21	285	2,037	7,741	17,563	774,254	2,688,679	5,557,162	879,740	11,085,636	4,048,784
Rubber tires and inner tubes	14	7,151	51,135	125,224	86,725	17,490,149	82,113,808	246,514,818	5,027,343	469,149,212	214,607,056
Stoves and ranges (other than electric) and warm-air furnaces	3	34	274	—	708	111,941	380,151	200,452	23,378	1,182,746	808,016
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	4	32	173	225	238	161,744	312,735	699,273	19,541	1,777,166	818,352
Other industries	123	1,436	6,427	33,392	14,667	3,745,139	10,295,293	38,053,548	1,940,015	73,076,823	34,003,260

TOLEDO INDUSTRIAL AREA

(This area is coextensive with Lucas 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, "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	625	7,005	53,996	69,737	141,746	\$22,190,016	\$79,925,863	\$256,014,456	\$10,483,704	\$479,386,121	\$212,837,961
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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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

WHEELING INDUSTRIAL AREA

[This area comprises Belmont, Columbiana, and Jefferson Counties, Ohio, and Brooke, Hancock, and Ohio Counties, W. Va.]

All industries, total.....	537	4,480	45,906	265,965	180,636	\$11,500,284	\$70,728,962	\$158,883,221	\$20,483,268	\$319,433,328	\$140,060,839
Beverages.....	19	24	92	-----	355	41,564	118,373	273,950	23,761	651,136	353,425
Boxes, paper, not elsewhere classified.....	3	10	60	-----	148	19,464	65,307	333,440	4,481	553,218	215,207
Boxes, wooden, except cigar boxes.....	4	12	68	360	420	24,580	67,391	271,527	8,280	432,069	152,262
Bread and other bakery products.....	69	38	539	112	1,217	70,522	707,197	2,015,030	90,454	4,092,749	1,087,205
Butter.....	6	1	5	44	12	(¹)	7,500	134,423	1,777	170,471	34,271
Chemicals, not elsewhere classified.....	4	15	68	100	600	35,087	107,182	1,603,303	58,768	2,835,180	1,173,115
Clay products (other than pottery) and nonclay refractories.....	29	217	2,789	6,473	6,500	657,885	3,529,344	852,765	1,240,832	8,558,205	0,404,608
Concrete products.....	6	2	13	15	38	(¹)	16,507	24,225	623	58,246	33,308
Confectionery.....	4	3	34	10	50	6,560	25,136	90,543	2,174	104,254	71,537
Cooperage.....	11	8	49	-----	15	9,405	33,865	247,486	545	412,252	164,221
Flour and other grain-mill products.....	8	10	23	320	363	16,600	30,038	271,530	8,839	376,172	95,803
Foundry and machine-shop products, not elsewhere classified.....	32	246	1,451	1,425	6,690	647,825	2,192,214	2,093,672	179,385	8,008,280	4,835,223
Furniture, including store and office fixtures.....	8	29	259	65	363	88,833	318,811	724,205	10,176	1,430,809	606,428
Glass.....	7	31	1,193	1,444	871	221,450	1,476,320	478,973	326,254	3,290,806	2,400,069
Glass products (except mirrors) made from purchased glass.....	3	12	121	-----	25	27,396	123,289	232,410	5,805	554,169	205,054
Ice cream.....	18	44	113	290	1,235	85,846	172,411	576,075	44,066	1,237,372	616,331
Ice, manufactured.....	19	27	104	1,025	2,328	62,728	163,146	42,495	116,512	619,271	460,264
Iron and steel: Blast furnaces.....	6	93	758	235,151	112,055	240,482	1,375,959	15,871,050	4,935,950	24,383,635	3,570,035
Iron and steel: Steel works and rolling mills.....	18	1,314	18,032	-----	-----	3,480,152	33,679,240	73,676,806	6,335,058	140,357,807	60,345,943
Lumber and timber products, not elsewhere classified.....	7	4	44	270	155	5,500	46,160	35,550	2,950	135,675	97,175
Nonferrous-metal alloys and products, not including aluminum products.....	5	39	187	1,380	687	141,576	281,337	1,844,768	51,803	2,740,771	844,200
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	10	35	117	-----	1,018	72,050	144,190	253,800	12,975	562,376	296,035
Pottery, including porcelain ware.....	39	401	3,096	3,923	9,963	1,344,075	10,122,253	4,740,235	1,504,388	22,612,309	16,307,686
Printing and publishing, book and job.....	25	40	163	-----	277	85,089	231,811	200,040	0,769	814,084	603,085
Printing and publishing, newspaper and periodical.....	29	385	367	149	632	491,555	581,606	477,198	32,658	2,795,888	2,286,032
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	5	98	962	-----	3,318	175,754	1,197,171	3,231,680	82,813	6,114,529	2,800,036
Stoves and ranges (other than electric) and warm-air furnaces.....	5	37	302	100	475	86,123	418,787	647,250	22,713	1,527,809	857,846
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	95	257	-----	1,877	231,550	348,292	1,644,018	17,955	3,768,861	2,106,888
Tools, not including edge tools, machine tools, files, or saws.....	3	15	89	50	310	34,452	109,201	171,180	20,149	443,184	251,846
Other industries.....	131	1,145	9,545	13,259	23,549	3,188,175	12,988,906	44,876,419	5,271,395	79,731,155	29,583,371

¹ See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^a 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.

^b Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

DAYTON INDUSTRIAL AREA

[This area is coextensive with Montgomery County]

All industries, total.....	521	7,855	42,591	33,233	84,663	\$21,023,503	\$64,793,012	\$115,538,747	\$3,350,536	\$330,318,581	\$211,429,208
Awnings, tents, sails, and canvas covers.....	5	11	29	-----	10	25,383	28,895	57,591	1,075	177,098	118,432
Beverages.....	10	25	67	945	99	64,679	106,583	192,843	22,388	562,943	347,717
Boxes, paper, not elsewhere classified.....	5	36	249	-----	390	92,369	236,571	436,802	11,528	1,008,508	560,178
Boxes, wooden, except cigar boxes.....	6	21	308	235	466	49,103	339,550	1,067,692	6,969	1,816,498	741,837
Bread and other bakery products.....	41	134	926	5	1,359	316,629	1,351,143	3,278,778	123,685	7,965,722	4,568,259
Car and general construction and repairs, electric-railroad repair shops.....	5	11	100	-----	357	20,482	147,356	51,612	7,484	227,430	168,343
Car and general construction and repairs, steam-railroad repair shops.....	4	17	170	9	99	53,245	315,827	114,935	10,155	494,162	369,072
Cigars and cigarettes.....	7	28	1,085	-----	75	55,397	735,439	1,354,117	6,339	2,083,531	1,626,075
Coffee and spice, roasting and grinding.....	3	22	70	-----	438	79,611	81,491	2,167,419	10,683	2,735,838	557,396
Concrete products.....	3	7	17	30	277	9,708	23,431	21,380	3,151	70,883	46,352
Confectionery.....	10	20	101	-----	216	63,723	111,059	592,771	7,839	955,038	354,428
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	12	44	50	66	26,413	53,303	108,839	2,972	260,414	148,603
Electrical machinery, apparatus, and supplies.....	16	824	4,034	-----	9,155	1,997,669	5,470,836	8,874,471	203,420	21,481,095	12,493,204
Foundry and machine-shop products, not elsewhere classified.....	46	518	3,357	2,406	12,416	1,563,171	5,091,836	4,520,443	541,643	16,134,945	11,072,854
Furniture, including store and office fixtures.....	17	87	597	330	616	251,161	784,634	1,288,965	43,352	3,323,445	1,904,128
Ice cream.....	6	35	112	20	875	116,122	214,971	693,055	27,435	1,526,740	806,256
Ice, manufactured.....	5	16	39	855	907	43,651	66,494	4,990	51,323	300,405	244,002
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	29	129	1,048	-----	1,202	493,198	2,447,062	544,743	44,957	4,813,292	4,223,592

See footnotes at end of this section, p. 413.

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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^b	Value added by manufacture ^c
				Prime movers	Electric motors driven by purchased energy						
DAYTON INDUSTRIAL AREA—Continued											
Marble, granite, slate, and other stone products	4	7	38		482	\$13,798	\$50,891	\$102,922	\$6,040	\$288,372	\$179,410
Meat packing, wholesale	7	63	333	870	778	200,478	460,910	7,301,967	65,650	8,402,430	1,124,822
Models and patterns, not including paper patterns	11	8	151		213	15,042	267,478	94,817	8,009	523,997	421,171
Motor-vehicle bodies and motor-vehicle parts	7	519	3,122		7,351	1,068,405	4,763,619	7,782,976	219,806	20,638,540	12,635,008
Nonferrous-metal alloys and products, not including aluminum products	8	36	165		380	135,078	248,689	482,339	24,985	1,025,886	518,502
Paints and varnishes	8	286	288		1,464	790,259	562,178	2,702,319	42,078	5,286,552	2,542,155
Paper	5	95	803	8,308	1,523	331,649	909,611	3,348,626	188,419	5,903,621	2,306,570
Photo-engraving, not done in printing establishments	5	26	94		38	108,010	257,329	70,972	4,329	573,935	498,634
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	12	98	409	355	1,445	243,737	598,981	1,145,851	31,610	2,440,729	1,263,298
Printing and publishing, book and job	38	225	730		1,043	718,366	1,267,267	1,715,821	30,051	5,292,161	4,537,289
Printing and publishing, newspaper and periodical	19	421	1,557		2,681	865,509	2,214,495	5,460,107	65,321	19,506,162	13,980,724
Pumps (hand and power) and pumping equipment	8	196	541		1,001	491,169	835,670	1,831,851	51,204	4,914,762	3,031,617
Rubber goods other than tires, inner tubes, and boots and shoes	4	40	141		653	84,728	175,385	164,141	23,447	570,038	382,450
Screw-machine products and wood screws	7	21	130		627	71,045	247,081	253,905	20,004	853,043	579,014
Signs and advertising novelties	7	46	140		86	127,418	203,784	246,016	3,913	857,451	607,522
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	3	7	43		194	36,200	60,689	106,283	10,879	243,772	126,610
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	5	33	142	185	611	117,476	213,851	699,426	14,069	1,204,305	490,870
Toys (not including children's wheel goods or sleds), games, and playground equipment	13	71	408	20	592	239,082	426,018	623,313	18,325	1,766,809	1,125,231
Other industries ^d	128	3,704	20,895	18,610	34,308	10,042,780	33,430,070	56,033,659	1,380,859	182,091,895	124,671,447

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.^c The figures for this item include data for the "Refrigerators, mechanical" 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 an approximation of the data for an individual establishment.**BELMONT COUNTY**

All industries, total	113	515	5,209	13,048	8,926	\$1,110,196	\$6,881,014	\$22,550,475	\$1,136,377	\$36,059,570	\$12,372,727
Beverages	4	9	29		35	13,060	27,202	52,868	8,994	134,727	72,865
Bread and other bakery products	15	2	68		141	(9)	84,867	258,980	11,393	501,111	230,759
Foundry and machine-shop products, not elsewhere classified	5	45	221	460	1,171	103,751	244,033	524,002	27,135	1,140,090	588,653
Glass	3	38	605	1,064	206	110,968	727,405	170,052	140,343	1,555,255	1,285,860
Iron and steel: Steel works and rolling mills	3	107	1,089	70,270	71,542	274,213	2,065,167	7,503,429	304,823	12,343,867	4,535,615
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	5	23	75		584	51,990	82,048	148,219	6,472	313,444	158,753
Printing and publishing, book and job	6	7	32		90	15,014	49,932	10,297	1,410	122,761	111,045
Printing and publishing, newspaper and periodical	7	55	32		62	76,006	43,483	41,422	2,586	302,449	258,441
Other industries	66	229	2,453	2,254	5,089	464,294	2,625,677	13,831,297	633,242	10,045,275	5,180,736

^d Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."^e Includes items for "Iron and steel: Blast furnaces" industry. All data for that industry except those for power are included in the "Other industries" items to avoid disclosing the figures reported by an individual establishment.**BUTLER COUNTY**

All industries, total	167	1,995	19,593	98,668	74,716	\$5,034,657	\$29,187,880	\$68,164,879	\$5,654,836	\$145,718,315	\$71,893,600
Beverages	4	6	13		33	13,335	14,266	58,847	2,540	140,562	88,175
Bread and other bakery products	15	3	171	5	189	14,600	263,692	599,025	28,616	1,153,028	526,387
Concrete products	3	1	6	2	18	(9)	10,159	8,356	318	31,255	22,581
Foundry and machine-shop products, not elsewhere classified	24	213	1,471	925	7,724	685,076	2,235,717	2,422,314	222,145	7,754,758	5,110,299
Ice cream	11	13	49	187	241	45,181	66,887	435,544	15,071	780,161	328,046
Ice, manufactured	5	6	28	150	1,035	18,426	39,982	7,007	38,887	259,317	213,423
Paper	12	269	3,513	30,167	20,925	1,143,629	5,122,275	16,154,270	1,363,512	29,281,325	11,763,543
Printing and publishing, book and job	11	37	143		286	91,584	187,884	236,948	10,589	809,768	622,231
Tin cans and other tinware, not elsewhere classified	3	37	355	350	442	83,072	380,185	1,341,016	21,377	2,131,752	769,359
Other industries	79	1,405	13,844	66,882	43,813	3,534,694	20,861,960	46,901,552	3,951,281	103,306,489	52,453,656

^d 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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

CLARK 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.....	170	2,659	12,437	11,580	24,801	\$5,308,808	\$17,495,238	\$57,176,830	\$1,209,268	\$112,093,050	\$53,707,540
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COLUMBIANA COUNTY

All industries, total.....	161	1,024	8,760	23,077	25,509	\$2,048,028	\$12,391,361	\$15,179,334	\$2,480,144	\$40,798,990	\$23,130,518
Beverages.....	4	6	25	220	226	12,340	33,118	100,737	9,055	103,000	83,808
Bread and other bakery products.....	17	6	70	12	103	9,520	69,341	218,497	13,146	405,778	174,135
Clay products (other than pottery) and nonclay refractories.....	8	41	592	793	2,110	91,819	733,894	138,245	327,103	1,876,467	1,411,119
Cooperage.....	4	4	15	10	10	1,860	22,469	55,125	275	99,847	44,447
Flour and other grain-mill products.....	4	7	14	210	205	11,880	10,352	192,005	0,369	271,311	72,937
Foundry and machine-shop products, not elsewhere classified.....	20	105	957	965	4,072	457,705	1,533,320	2,062,249	121,806	5,000,645	3,500,500
Furniture, including store and office fixtures.....	8	20	259	65	363	88,833	318,811	724,205	10,170	1,430,809	696,428
Ice cream.....	4	14	25	50	340	27,530	39,920	120,776	17,058	250,310	118,476
Ice, manufactured.....	5	12	16	100	384	32,557	23,780	5,156	20,083	134,061	109,422
Lumber and timber products, not elsewhere classified.....	3	1	18	120	(*)	(*)	15,720	9,800	—	30,500	26,700
Pottery, including porcelain ware.....	27	235	3,745	2,520	6,010	731,400	4,330,050	2,138,261	787,750	10,462,865	7,536,854
Printing and publishing, book and job.....	8	21	52	91	91	36,233	62,131	73,837	3,922	305,610	227,851
Printing and publishing, newspaper and periodical.....	10	64	62	7	144	86,808	139,787	85,490	10,030	562,030	466,510
Other industries.....	39	419	2,880	18,235	11,851	1,059,453	5,050,159	9,254,951	1,153,371	19,072,568	8,664,241

* See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

^c Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

CUYAHOGA COUNTY

[The totals for all industries do not include data for a few establishments located outside the county (see footnotes 10 and 11), and therefore are slightly smaller than the sums of the items for the individual industries.]

All industries, total.....	2,781	23,243	161,256	315,108	467,700	\$77,134,540	\$251,942,813	\$341,158,728	\$45,762,214	\$1,359,322,540	\$672,401,607
Artificial and preserved flowers and plants.....	5	8	33	—	4	20,284	27,680	87,913	219	281,082	192,050
Awnings, tents, sails, and canvas covers.....	10	55	178	—	105	220,474	217,037	428,766	9,364	1,018,557	580,427
Baskets and rattan and willow ware, not including furniture.....	4	10	144	—	208	29,090	176,481	85,142	2,871	366,207	278,194
Beverages.....	30	91	347	1,017	1,226	183,117	469,679	890,709	73,264	2,551,547	1,587,574
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	15	484	5,031	4,972	17,937	1,780,858	6,970,825	11,263,241	627,885	28,291,206	16,400,080
Bookbinding and blank-book making.....	20	60	493	—	492	196,299	656,034	528,899	18,498	2,023,236	1,480,839
Boxes, cigar, wooden.....	3	—	14	—	22	—	14,169	16,970	—	39,745	22,198
Boxes, paper, not elsewhere classified.....	15	90	935	1,150	1,327	306,419	1,055,300	3,200,375	68,784	5,836,278	2,507,119
Boxes, wooden, except cigar boxes.....	10	36	383	400	974	128,080	466,326	947,802	14,159	1,845,017	881,056
Bread and other bakery products.....	322	262	3,602	375	4,847	654,885	5,123,198	12,892,376	631,580	27,066,922	13,042,966
Brushes, other than rubber.....	8	115	368	210	1,712	384,183	459,150	720,920	14,590	2,030,801	1,295,291
Butter.....	7	36	79	—	2,242	67,076	125,078	2,966,463	21,764	3,575,182	586,965
Cigars and cigarettes.....	13	20	333	—	33	57,105	245,647	409,467	2,830	951,493	539,196
Clay products (other than pottery) and nonclay refractories ¹⁰	12	42	628	308	4,672	120,728	1,075,331	113,036	606,270	2,430,050	1,711,353
Cleaning and polishing preparations.....	26	72	98	—	185	290,443	1,007,895	1,122,840	8,578	2,795,445	1,064,027
Clothing (except work clothing), men's youths', and boys', not elsewhere classified ¹⁰	41	386	5,645	1,500	1,143	1,271,863	7,406,840	17,397,154	106,091	30,591,518	13,088,273
Clothing, women's, not elsewhere classified ¹¹	92	552	3,759	—	641	1,737,717	4,714,787	13,778,441	57,728	28,012,707	14,176,598
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	6	11	198	—	40	26,328	154,568	444,733	3,197	806,562	358,622
Coffee and spice, roasting and grinding.....	11	56	160	—	693	140,839	177,553	4,669,977	49,393	6,694,485	1,975,115
Compressed and liquefied gases.....	9	108	104	122	2,286	232,404	266,158	512,276	115,070	2,318,554	1,691,208
Concrete products.....	29	50	349	48	672	130,828	501,515	513,267	25,087	1,785,229	1,246,875
Confectionery.....	34	140	988	160	2,997	462,741	1,024,839	4,561,201	108,711	7,257,067	2,587,144
Cooperage.....	6	14	223	205	73	75,160	259,086	1,180,204	5,133	1,563,132	427,705
Cooper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	40	140	690	12	1,646	410,060	1,137,590	1,087,355	33,787	4,599,868	2,578,726
Electrical machinery, apparatus, and supplies.....	81	2,188	11,158	1,402	22,418	5,033,291	14,850,237	35,309,359	1,036,057	89,020,726	49,076,310

See footnotes at end of this section, p. 416.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
CUYAHOGA COUNTY—Continued											
Electroplating.....	23	57	309	20	1,548	\$180,293	\$506,584	\$150,490	\$41,465	\$1,163,356	\$661,401
Engraving (other than steel, copperplate or wood), chasing, etching, and die-sinking.....	3	3	3	1	5	5,930	200	24	36,100	35,876	
Engraving, steel and copperplate, and plate printing.....	12	32	148	160	95,323	204,220	234,034	5,052	748,297	509,211	
Fancy and miscellaneous articles, not elsewhere classified.....	8	24	120	35	97,480	105,296	139,501	3,260	577,534	434,677	
Flavoring extracts and flavoring sirups.....	12	54	109	125	265	149,418	139,734	916,162	7,765	2,152,465	1,228,533
Food preparations, not elsewhere classified.....	8	7	40	151	10,901	43,572	433,283	7,423	610,878	170,172	
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	18	211	1,775	2,000	12,129	913,567	3,188,480	5,597,471	886,275	14,000,811	8,420,065
Foundry and machine-shop products, not elsewhere classified.....	207	2,828	17,806	2,632	65,476	9,014,309	29,517,196	35,645,958	2,031,492	105,234,453	60,957,003
Fur goods.....	25	37	138	40	40	61,654	257,691	900,210	4,918	1,541,780	936,652
Furniture, including store and office fixtures ¹⁰	47	340	2,067	450	3,737	1,052,567	3,028,726	5,126,073	111,662	12,252,852	7,015,117
Gas and electric fixtures; lamps, lanterns, and reflectors.....	18	171	1,071	3,157	458,520	1,314,257	2,549,870	64,589	0,547,243	3,932,784	
Grease and tallow, not including lubricating greases ¹⁰	5	23	151	100	1,423	73,492	264,900	576,774	50,400	1,369,414	742,174
Hand stamps and stencils and brands.....	9	45	101	151	151	91,185	147,365	147,129	6,005	564,229	401,095
Hardware not elsewhere classified.....	7	150	1,274	200	2,707	369,945	1,808,842	1,070,758	150,903	4,680,750	3,450,089
Hats and caps, except felt and straw, men's.....	12	26	95	44	64,209	113,365	308,964	2,680	656,378	344,834	
House-furnishing goods, not elsewhere classified.....	12	29	103	190	74,769	116,023	295,692	4,720	726,092	426,280	
Ice cream.....	16	77	220	2,011	152,193	413,659	1,748,045	82,168	4,299,319	2,444,106	
Instruments, professional and scientific.....	4	27	105	148	73,329	165,736	117,544	7,574	620,863	495,745	
Iron and steel, processed.....	6	22	86	707	89,062	148,558	56,573	80,272	582,587	445,742	
Jewelry.....	13	18	70	25	36,632	114,239	186,927	2,844	500,840	311,078	
Knit goods ¹¹	24	207	2,760	85	1,333	345,019	2,047,391	6,939,660	89,005	12,863,889	5,834,624
Lithography.....	15	180	900	1,368	573,958	1,752,588	1,335,915	32,984	32,984	4,350,738	
Lubricating oils and greases, not made in petroleum refineries.....	18	108	121	31	639	352,743	193,183	2,344,723	30,541	4,340,015	1,973,751
Macaroni, spaghetti, vermicelli, and noodles.....	8	22	138	426	69,583	123,808	511,610	16,963	982,506	454,033	
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	50	410	2,631	452	10,210	1,160,120	4,452,801	2,073,382	264,706	15,012,847	11,774,759
Machine tools.....	19	580	3,090	915	9,703	1,554,054	6,634,323	6,555,129	232,180	23,204,239	10,416,980
Mattresses and bed springs, not elsewhere classified.....	10	41	160	355	146,576	216,361	541,238	11,031	1,178,135	625,866	
Meat packing, wholesale.....	25	582	1,860	3,145	3,642	1,397,918	2,535,317	42,196,788	200,006	49,345,714	6,888,320
Millinery.....	16	51	667	303	303	701,793	1,279,367	16,581	2,776,808	1,480,920	
Models and patterns, not including paper patterns.....	42	59	390	600	188,571	817,488	321,500	19,066	1,762,976	1,422,411	
Motion pictures, not including projection in theaters.....	4	35	12	7	101,700	22,768	35,339	1,070	187,397	160,988	
Motor-vehicle bodies and motor-vehicle parts ¹⁰	40	1,232	12,672	1,446	47,537	3,408,829	22,566,931	70,085,298	971,275	126,197,505	54,140,932
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	3	15	127	118	354	64,063	165,117	456,703	22,148	929,767	450,856
Nonferrous-metal alloys and products, not including aluminum products.....	37	251	1,408	75	4,025	835,517	2,402,335	6,653,696	193,283	12,400,080	5,013,701
Paints and varnishes ¹⁰	47	914	1,721	700	9,230	2,908,514	2,428,395	17,674,833	285,422	36,520,273	18,560,018
Patent or proprietary medicines and compounds ¹⁰	30	153	151	601	515,838	189,663	1,300,946	17,140	4,743,907	3,425,821	
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	4	13	97	28	711	38,080	103,662	744,892	31,513	1,235,740	450,335
Perfumes, cosmetics, and other toilet preparations.....	17	94	135	123	357,444	153,531	674,638	6,465	3,316,294	2,634,891	
Photo-engraving, not done in printing establishments.....	13	100	314	268	397,675	754,216	194,571	20,287	1,930,980	1,710,122	
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	36	144	644	525	4,923	458,445	1,111,173	2,934,365	72,490	5,222,117	2,215,262
Plumbers' supplies, not including pipe or vitreous china sanitary ware.....	23	204	1,400	3,503	702,460	1,852,337	2,137,321	165,901	6,446,704	4,143,482	
Pottery, including porcelain ware.....	3	24	200	180	107	80,710	255,539	57,321	32,342	549,417	459,754
Printing and publishing, book and job.....	243	870	2,780	1	3,087	2,677,519	5,086,721	5,569,553	155,224	20,869,761	16,154,984
Printing and publishing, newspaper and periodical.....	83	1,903	2,061	4,728	5,275,004	4,633,080	6,117,407	150,407	29,977,040	23,709,136	
Printing materials, not including type or ink.....	4	9	13	36	27,745	24,644	29,619	1,689	177,020	145,712	
Pumps (hand and power) and pumping equipment.....	4	33	100	212	124,835	143,062	748,212	10,675	1,275,050	516,163	
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	10	97	379	40	1,739	341,008	636,576	5,570,488	61,203	7,587,112	1,955,421
Screw-machine products and wood screws.....	10	399	3,520	10,986	1,270,710	5,385,221	5,216,618	280,431	17,302,727	11,805,678	
Ship and boat building, steel and wooden, including repair work.....	4	48	492	2,909	3,526	103,628	760,900	506,727	41,420	1,813,112	1,264,965
Signs and advertising novelties ¹⁰	23	134	336	364	333,874	333,874	531,172	17,237	2,036,776	1,488,367	
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	6	36	130	314	122,742	179,568	2,978,778	54,101	3,577,627	544,688	
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering ¹⁰	33	315	2,538	60	5,406	1,101,124	3,794,488	6,107,140	322,767	13,783,243	7,353,336
Steam fittings, and steam and hot-water heating apparatus.....	12	101	1,288	75	1,618	504,830	1,782,851	1,990,252	211,685	7,138,750	4,927,819
Steel barrels, kegs, and drums.....	7	54	406	1,369	286,114	286,114	723,507	3,510,235	37,293	5,434,041	1,886,513

See footnotes at end of this section, p. 416.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
CUYAHOGA COUNTY—Continued											
Stereotyping and electrotyping, not done in printing establishments.....	9	42	140	-----	611	\$172, 117	\$308, 558	\$100, 008	\$21, 855	\$872, 070	\$750, 807
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	32	575	2, 413	220	9, 509	2, 007, 814	4, 449, 408	8, 727, 273	210, 550	10, 043, 222	10, 000, 308
Tin cans and other tinware, not elsewhere classified.....	3	65	556	300	1, 325	98, 905	654, 482	2, 130, 454	26, 115	3, 653, 010	1, 497, 441
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	10	14	121	4	32	41, 512	130, 879	81, 077	3, 010	411, 842	320, 555
Trunks, suitcases, and bags.....	10	19	67	-----	35	57, 973	81, 643	249, 337	1, 501	415, 061	104, 823
Waste.....	3	12	51	50	48	38, 911	46, 799	308, 905	6, 505	529, 511	214, 101
Window and door screens and weather strip.....	6	9	21	-----	45	24, 088	36, 798	84, 621	769	187, 054	102, 504
Window shades and fixtures.....	15	12	40	-----	50	24, 501	59, 885	131, 902	2, 224	289, 197	155, 071
Wirework, not elsewhere classified ¹⁰	20	151	1, 079	4	2, 682	465, 294	1, 624, 095	2, 882, 195	100, 200	7, 092, 880	4, 710, 485
Wood turned and shaped and other wooden goods, not elsewhere classified.....	6	9	47	-----	203	25, 625	74, 121	58, 685	4, 020	236, 245	173, 540
Other industries.....	415	6, 617	49, 817	286, 559	155, 844	18, 617, 962	81, 109, 745	245, 303, 318	33, 597, 290	487, 896, 512	208, 965, 904

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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 Cuyahoga County have been included with those for the county, as specified in footnotes 10 and 11 to avoid disclosing the data for the establishments in question.

¹⁰ Includes data for 1 establishment located outside Cuyahoga County.

¹¹ Includes data for 2 establishments located outside Cuyahoga County.

FRANKLIN COUNTY

All industries, total.....	631	5, 513	32, 349	25, 721	85, 297	\$15, 035, 317	\$15, 347, 321	\$124, 176, 353	\$4, 860, 061	\$250, 091, 029	\$121, 055, 215
Awnings, tents, sails, and canvas covers.....	4	13	20	-----	37	30, 517	41, 300	69, 312	1, 450	227, 320	156, 658
Beverages.....	9	21	99	505	145	93, 747	147, 696	330, 790	10, 167	820, 062	474, 005
Boots and shoes, other than rubber.....	7	226	2, 012	-----	1, 865	496, 897	3, 166, 946	7, 085, 533	60, 205	13, 007, 522	6, 455, 784
Boxes, paper, not elsewhere classified.....	5	25	253	50	290	66, 429	233, 244	863, 332	12, 441	1, 535, 111	669, 338
Boxes, wooden, except cigar boxes.....	3	1	9	-----	80	-----	12, 984	34, 205	596	68, 836	34, 035
Bread and other bakery products.....	69	112	1, 173	35	2, 335	261, 520	1, 604, 843	4, 660, 371	145, 300	9, 475, 935	4, 661, 264
Car and general construction and repairs, steam-railroad repair shops.....	7	472	4, 787	1, 715	9, 248	1, 216, 060	8, 436, 625	7, 561, 530	295, 523	17, 500, 744	9, 652, 691
Caskets, coffins, burial cases, and other morticians' goods.....	7	47	405	-----	1, 401	156, 375	567, 332	2, 125, 073	33, 745	4, 470, 361	2, 316, 943
Clay products (other than pottery) and nonclay refractories.....	5	16	195	383	1, 313	32, 587	269, 369	111, 370	154, 015	641, 234	376, 240
Coffee and spice, roasting and grinding.....	5	17	40	-----	230	36, 934	45, 748	1, 407, 269	8, 241	1, 728, 478	312, 968
Compressed and liquefied gases.....	4	44	42	-----	1, 170	90, 116	69, 867	167, 822	51, 416	639, 239	420, 001
Concrete products.....	15	17	70	4	333	25, 180	85, 996	198, 837	6, 148	490, 451	285, 466
Condensed and evaporated milk.....	3	3	21	40	526	7, 664	30, 073	400, 734	17, 783	595, 107	170, 590
Confectionery.....	12	28	172	150	215	61, 405	136, 152	468, 493	12, 316	857, 364	376, 555
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	7	41	206	-----	223	93, 853	278, 076	780, 358	12, 254	1, 461, 638	609, 026
Druggists' preparations.....	8	47	125	-----	223	103, 334	105, 906	344, 620	7, 022	931, 041	579, 393
Electroplating.....	3	3	19	-----	80	3, 980	27, 636	2, 400	3, 667	56, 354	49, 287
Fertilizers.....	5	55	232	-----	2, 843	203, 088	306, 314	2, 344, 815	38, 569	3, 891, 312	1, 507, 928
Flavoring extracts and flavoring sirups.....	4	6	18	-----	6	10, 197	18, 066	112, 844	1, 108	170, 414	56, 462
Foundry and machine-shop products.....	40	843	4, 475	2, 700	12, 755	2, 513, 806	6, 848, 659	9, 327, 355	627, 405	20, 370, 133	19, 415, 378
Furniture, including store and office fixtures.....	9	88	456	675	1, 022	294, 700	585, 586	1, 087, 836	34, 871	2, 678, 515	1, 556, 308
Glass products (except mirrors) made from purchased glass.....	8	17	107	-----	136	34, 188	139, 530	255, 030	6, 202	506, 525	244, 393
Hardware not elsewhere classified.....	3	7	16	-----	81	12, 517	26, 603	25, 746	1, 190	114, 327	87, 391
Ice cream.....	7	89	186	860	1, 676	166, 815	254, 918	949, 568	36, 771	2, 206, 584	1, 217, 245
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	4	12	123	-----	161	35, 855	215, 276	50, 815	6, 190	423, 338	366, 333
Marble, granite, slate, and other stone products.....	5	5	46	-----	312	18, 350	77, 182	82, 254	4, 435	234, 064	147, 375
Mattresses and bed springs, not elsewhere classified.....	5	12	64	-----	258	26, 556	81, 201	181, 344	4, 984	365, 745	170, 417
Meat packing, wholesale.....	10	164	828	1, 504	717	402, 225	1, 141, 819	22, 549, 869	100, 291	26, 362, 111	3, 402, 951
Models and patterns, not including paper patterns.....	5	8	38	-----	81	15, 672	87, 724	12, 255	961	115, 848	102, 632
Motor-vehicle bodies and motor-vehicle parts.....	8	99	697	-----	1, 355	267, 437	869, 703	1, 006, 865	47, 958	4, 627, 383	2, 572, 660
Nonferrous-metal alloys and products, not including aluminum products.....	4	10	53	-----	172	24, 859	87, 140	121, 198	5, 286	297, 290	170, 806
Paints and varnishes.....	6	32	96	-----	665	106, 493	167, 332	959, 165	11, 850	1, 744, 830	773, 816
Patent or proprietary medicines and compounds.....	9	16	58	-----	59	72, 798	44, 965	115, 600	2, 104	817, 975	700, 271
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	21	31	137	-----	2, 639	75, 297	212, 904	477, 090	30, 014	1, 002, 784	494, 780
Printing and publishing, book and job.....	56	170	674	-----	728	468, 792	1, 110, 020	989, 033	44, 734	3, 598, 469	2, 564, 702
Printing and publishing, newspaper and periodical.....	39	918	654	78	2, 464	1, 830, 508	1, 230, 178	1, 954, 904	65, 333	9, 014, 224	6, 963, 927
Signs and advertising novelties.....	6	9	29	-----	19	23, 545	48, 471	39, 640	1, 754	164, 013	122, 619
Stationery goods, not elsewhere classified.....	4	20	99	-----	146	72, 373	104, 816	267, 314	5, 169	562, 365	289, 882

See footnotes at end of this section, p. 417.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
FRANKLIN COUNTY—Continued											
Storetyping and electrotyping, not done in printing establishments	3	14	32	-----	203	\$49,872	\$50,407	\$92,304	\$3,468	\$202,642	\$130,810
Stoves and ranges (other than electric) and warm-air furnaces	12	88	514	-----	824	199,905	684,035	1,571,052	27,795	4,000,332	2,461,485
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	5	20	75	-----	15	144,201	118,480	241,164	6,824	524,451	270,463
Window shades and fixtures	0	4	13	-----	6	15,282	14,921	127,362	629	200,715	72,724
Other industries	174	1,637	12,071	16,857	34,824	5,167,286	15,531,313	51,441,247	2,886,377	101,813,543	47,485,919

^a See GENERAL EXPLANATIONS—Duplication of Cost of Materials and Value of Products.

^b 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.

^c Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

HAMILTON COUNTY

[The totals for all industries do not include data for a few establishments located outside the county (see footnotes 13 and 15), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total	2,018	16,751	85,421	74,247	188,517	\$43,496,699	\$115,280,029	\$380,130,328	\$8,715,815	\$720,019,086	\$340,172,943
Bags, paper, exclusive of those made in paper mills	8	73	381	300	607	235,230	880,842	1,968,430	31,315	3,343,722	1,348,068
Belting, leather	3	9	17	-----	53	31,604	31,164	105,512	983	109,288	-----
Beverages	20	91	246	485	841	250,963	319,998	851,950	43,797	2,283,392	1,387,645
Bookbinding and blank-book making ¹³	23	25	177	-----	177	50,907	221,051	180,111	6,386	879,955	490,458
Boot and shoe findings, not made in boot and shoe factories	6	23	94	-----	201	47,258	124,998	189,028	11,530	472,033	271,475
Boots and shoes, other than rubber	15	269	2,951	870	813	994,772	3,250,514	5,614,887	52,666	11,335,035	5,007,482
Boxes, cigar, wooden	4	2	66	-----	80	-----	48,112	61,630	2,221	142,580	78,720
Boxes, paper, not elsewhere classified	17	101	780	15	1,100	290,621	720,330	1,775,407	33,139	3,681,976	1,873,430
Boxes, wooden, except cigar boxes	14	47	366	1,200	1,030	174,726	390,688	843,077	20,615	1,955,272	1,001,580
Bread and other bakery products	221	280	2,431	270	3,557	619,313	3,284,481	9,446,426	339,744	19,990,178	10,204,008
Brushes, other than rubber ¹⁵	6	0	32	-----	63	10,921	34,374	91,359	2,385	237,886	144,142
Canning and preserving; Fruits and vegetables; pickles, jellies, preserves, and sauces	15	54	304	150	314	120,135	239,419	1,429,221	17,677	2,126,762	679,864
Car and general construction and repairs, steam-railroad repair shops	13	194	2,152	1,141	2,857	504,800	3,727,836	1,639,042	198,943	6,070,631	4,232,606
Chemicals, not elsewhere classified ¹³	16	110	724	2,121	2,103	362,446	956,049	6,941,335	215,855	11,234,323	4,077,088
Cigars and cigarettes ¹⁵	27	44	548	-----	48	155,951	456,895	605,596	5,802	1,780,260	1,169,142
Cleaning and polishing preparations ¹³	12	59	36	-----	95	109,057	43,564	368,444	3,986	1,091,413	718,988
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified)	70	773	6,142	20	1,250	2,087,456	7,840,258	15,508,673	105,400	32,527,528	16,915,396
Clothing, women's, not elsewhere classified	19	103	728	-----	140	183,075	652,640	1,893,317	12,656	3,825,473	1,919,501
Coffee and spice, roasting and grinding	14	64	349	405	910	175,202	395,042	6,220,398	36,181	8,598,326	2,333,337
Concrete products	24	28	113	60	443	66,863	162,781	200,436	4,664	639,340	428,891
Confectionery	30	148	923	215	1,141	307,755	870,143	3,216,454	65,282	6,357,465	3,076,739
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	35	205	911	355	1,870	647,028	1,285,841	4,595,274	65,800	8,180,029	3,827,895
Cutlery (not including silver and plated cutlery) and edge tools	3	4	12	15	29	7,200	22,535	6,591	1,873	52,153	43,689
Electrical machinery, apparatus, and supplies	35	814	5,220	1,939	9,819	1,767,183	5,119,094	11,612,280	237,289	26,804,930	14,548,361
Engraving (other than steel, copperplate, or wood), chasing, etching, and disinking	4	6	17	-----	18	12,911	30,807	22,118	1,203	90,435	76,114
Engraving, steel and copperplate, and plate printing	8	52	264	-----	201	123,772	290,029	181,737	7,461	815,813	626,615
Fertilizers	0	80	387	50	5,164	208,127	525,378	4,049,942	57,074	5,490,294	1,382,378
Flavoring extracts and flavoring sirups	18	43	134	341	246	179,149	202,619	2,207,637	41,294	4,112,471	1,893,540
Flour and other grain-mill products	4	4	16	190	200	4,800	24,274	441,197	8,571	539,850	90,082
Food preparations, not elsewhere classified	11	27	147	125	364	43,901	172,337	906,408	14,872	1,347,450	426,170
Forgings, iron and steel, not made in plants operated in connection with rolling mills	6	59	181	430	881	214,125	261,564	861,706	59,232	1,547,096	626,158
Foundry and machine-shop products, not elsewhere classified	132	1,240	5,931	2,764	15,522	3,466,831	9,161,000	12,037,588	629,516	37,702,022	25,034,098
Foundry supplies	4	26	80	500	439	82,681	76,724	382,358	13,515	640,263	244,395
Furniture, including store and office fixtures	44	387	2,177	3,035	3,844	886,724	2,812,360	3,459,187	130,943	8,672,950	5,076,820
Glass products (except mirrors) made from purchased glass	8	30	163	-----	78	89,670	203,461	272,345	7,050	711,890	432,495
Grease and tallow, not including lubricating greases	5	15	193	455	208	33,933	220,237	230,034	51,493	625,348	342,921
Hand stamps and stencils and brands	6	18	29	-----	54	26,667	49,411	44,655	1,702	191,593	145,236
Hardware not elsewhere classified	6	20	108	90	216	48,540	126,247	87,904	12,098	456,569	355,597
House-furnishing goods, not elsewhere classified ¹³	12	51	257	375	432	124,308	245,709	1,211,450	14,333	1,977,655	761,872
Ice cream	14	38	177	1,500	868	113,809	245,641	1,322,097	78,863	3,154,274	1,753,314
Ice, manufactured	22	23	142	408	8,061	88,675	268,206	118,707	265,900	2,163,010	1,778,403
Ink, printing	9	206	370	1,480	948	510,050	605,393	2,931,110	116,070	6,402,745	3,355,550
Jewelry ¹³	22	103	281	-----	152	212,328	446,248	585,048	7,629	1,841,111	1,248,434
Macaroni, spaghetti, vermicelli, and noodles	3	5	30	35	77	5,726	20,453	106,675	6,250	197,936	85,005
Machine tools	26	1,111	4,901	1,825	16,995	3,157,085	8,225,961	9,049,920	352,081	29,697,520	20,294,619

See footnotes at end of this section, p. 418.

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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Primemovers	Electric motors driven by purchased energy						
HAMILTON COUNTY—Continued											
Marble, granite, slate, and other stone products	16	40	177	515	829	\$171,823	\$328,260	\$492,228	\$20,508	\$2,185,657	\$1,672,921
Mattresses and bed springs, not elsewhere classified	12	75	333	1,050	287	248,444	341,075	1,126,186	11,320	1,844,759	707,253
Meat packing, wholesale	36	319	1,644	4,837	2,191	863,847	2,353,075	41,807,042	192,541	48,610,037	6,610,454
Models and patterns, not including paper patterns ¹³	20	33	176		302	116,022	303,466	103,996	8,968	707,715	594,751
Nonferrous-metal alloys and products, not including aluminum products	21	195	1,241	125	1,900	510,794	1,044,050	3,544,510	133,074	8,800,828	5,123,244
Paints and varnishes ¹⁴	25	251	631	1,243	3,609	771,017	613,578	7,703,898	120,168	13,199,931	6,375,845
Paper	4	184	1,152	10,780	12,174	720,021	2,007,518	5,856,604	695,890	10,850,769	4,298,299
Patent or proprietary medicines and compounds ¹⁴	27	154	212		389	361,702	214,296	865,752	15,394	4,419,739	3,618,593
Photo-engraving, not done in printing establishments	18	89	255		171	320,087	599,124	134,518	11,076	1,325,883	1,170,080
Planing-mill products (including general millwork), not made in planing mills connected with sawmills	32	265	1,083	3,450	2,383	751,680	1,483,026	3,947,024	76,037	8,261,754	4,238,693
Plated ware	4	40	224	220	397	116,892	248,177	134,591	16,560	745,317	594,100
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	7	41	255	325	728	103,731	313,735	396,731	32,476	1,052,883	623,076
Poultry killing, dressing, and packing, wholesale	7	9	36		7	23,660	49,404	603,054	2,891	706,830	190,685
Printing and publishing, book and job	175	735	2,877	845	3,520	1,982,385	4,001,998	4,890,142	159,684	18,753,440	13,793,614
Printing and publishing, newspaper and periodical	65	1,244	1,654	985	4,603	2,671,133	3,398,343	4,486,430	122,852	18,007,966	13,398,684
Pumps (hand and power) and pumping equipment	5	257	718	631	1,347	446,529	1,035,213	2,410,568	89,775	4,974,410	2,474,076
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments ¹²	7	6	17		97	15,852	24,046	262,061	6,377	343,274	74,836
Signs and advertising novelties	25	149	710	310	565	362,618	841,831	1,953,459	32,149	4,706,963	2,730,355
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering ¹³	12	80	605		1,165	242,702	871,073	1,059,407	52,916	3,087,365	1,975,042
Stereotyping and electrotyping, not done in printing establishments	10	47	369		1,489	150,648	727,242	431,792	55,977	2,044,266	1,956,497
Stoves and ranges (other than electric) and warm-air furnaces	8	300	989	350	1,598	694,535	1,510,456	1,872,962	69,071	5,557,387	3,015,324
Surgical and orthopedic appliances, including artificial limbs ¹⁴	10	63	240	22	51	158,831	176,496	250,393	3,601	1,001,521	807,527
Tin cans and other tinware, not elsewhere classified	7	115	958	1,235	680	348,081	1,121,769	5,931,680	57,756	8,881,731	2,892,396
Tools, not including edge tools, machine tools, files, or saws	5	23	69	890	67	100,050	87,847	92,841	6,900	409,569	309,828
Toys (not including children's wheel goods or sleds), games, and playground equipment	3	1	19		6	(14)	17,185	17,261	820	51,101	33,020
Trunks, suitcases, and bags	11	48	242	120	470	121,743	344,742	653,077	10,856	1,354,999	691,006
Window shades and fixtures	8	12	156		260	23,293	151,218	495,567	6,547	750,157	248,043
Other industries	434	4,013	26,804	22,591	62,687	12,556,631	35,023,329	173,250,811	3,305,742	295,430,337	118,873,784

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹² The items for each of the industries covered by this footnote include data for 1 establishment located outside the county, to avoid disclosing the figures reported by the establishments in question.

¹³ Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

¹⁴ The items for each of the industries covered by this footnote include data for 2 establishments located outside the county, to avoid disclosing the figures reported by the establishments in question.

JEFFERSON COUNTY

All industries, total	77	908	9,520	104,772	93,580	\$2,499,185	\$15,999,071	\$44,239,165	\$6,351,223	\$31,915,130	\$31,324,742
Beverages	6	1	13		28	(16)	21,781	54,129	2,460	132,292	75,697
Bread and other bakery products	14	6	103		190	9,520	126,085	397,976	15,130	775,580	362,474
Clay products (other than pottery) and nonclay refractories	14	106	1,147	3,695	2,366	300,775	1,603,342	378,401	467,846	3,314,074	2,468,327
Iron and steel: Steel works and rolling mills	5	575	6,545	1798,053	1786,373	1,551,827	11,532,049	31,862,021	2,470,354	56,094,944	21,762,509
Printing and publishing, book and job	5	3	42		39	9,330	53,755	54,101	2,753	208,267	151,413
Other industries	33	217	1,665	3,024	4,584	627,733	2,657,059	11,492,537	3,393,174	21,389,973	6,504,262

¹³ Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

¹⁴ Includes item for "Iron and steel: Blast furnaces" industry. All data for that industry except those for power are included in the "Other industries" items to avoid disclosing the figures reported by individual establishments.

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	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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

LORAIN 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.....	131	1,836	15,534	175,635	30,784	\$4,949,680	\$24,218,264	\$67,475,240	\$15,817,753	\$146,107,843	\$62,874,850
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LUCAS COUNTY (SEE TOLEDO INDUSTRIAL AREA)

MAHONING COUNTY

All industries, total.....	204	4,375	32,048	464,712	111,440	\$11,355,456	\$58,140,148	\$201,408,184	\$40,226,079	\$384,942,242	\$143,307,079
Beverages.....	6	6	24	1	104	26,913	41,952	91,147	6,004	298,818	199,605
Bread and other bakery products.....	33	29	484	-----	1,273	75,937	765,992	1,660,830	91,665	3,583,953	1,831,452
Car and general construction and repairs, steam-railroad repair shops.....	5	85	860	1,282	714	210,420	1,575,161	1,007,169	42,894	2,835,643	1,785,500
Concrete products.....	8	1	21	5	90	(18)	35,767	51,837	4,958	113,203	56,408
Cooperage ¹⁹	4	3	25	50	17	5,820	40,080	110,712	1,374	189,883	77,707
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	19	163	-----	398	52,898	244,127	751,904	0,353	1,088,321	330,064
Flour and other grain-mill products.....	3	1	6	125	67	(18)	5,649	42,602	1,746	58,727	14,319
Foundry and machine-shop products, not elsewhere classified.....	14	273	1,488	775	10,538	704,213	2,688,168	4,717,867	276,868	10,074,750	5,080,015
Iron and steel: Blast furnaces.....	6	162	1,946	444,945	66,037	441,184	3,877,741	36,050,168	16,034,098	63,007,537	16,923,271
Iron and steel: Steel works and rolling mills.....	11	1,344	17,102	-----	-----	3,750,665	32,935,400	125,704,704	9,814,055	201,101,348	65,622,529
Lumber and timber products, not elsewhere classified.....	8	-----	58	435	-----	-----	52,010	32,230	4,434	169,750	133,030
Models and patterns, not including paper patterns.....	4	3	22	-----	40	10,630	48,174	25,579	2,041	106,438	78,818
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	5	25	72	125	507	92,390	128,125	226,842	9,428	499,568	263,298
Printing and publishing, book and job.....	7	28	59	-----	96	94,771	107,570	104,898	5,180	407,019	297,841
Printing and publishing, newspaper and periodical.....	7	233	333	-----	508	503,310	505,304	514,564	10,700	2,809,467	2,275,203
Other industries ²⁰	79	2,163	9,285	10,969	31,039	5,386,296	15,037,013	30,255,015	13,906,181	98,508,019	54,437,723

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹⁸ Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

¹⁹ The items for the "Cooperage" industry include data for 1 establishment located outside the county to avoid disclosing the figures for the establishment in question. 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.

²⁰ See footnote 10.

MONTGOMERY COUNTY (SEE DAYTON INDUSTRIAL AREA)

SCIOTO 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.....	82	1,132	11,229	55,078	13,181	\$2,633,851	\$15,067,967	\$26,058,466	\$5,078,296	\$56,987,559	\$24,950,797
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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 ^a	Cost of fuel and purchased electric energy	Value of products ^b	Value added by manufacture ^c
				Prime movers	Electric motors driven by purchased energy						
STARK COUNTY											
All industries, total.....	338	4,632	32,202	85,822	105,293	\$12,720,898	\$64,734,837	\$113,867,325	\$15,470,203	\$271,845,402	\$142,507,874
Agricultural implements.....	4	30	119	-----	454	92,923	167,105	290,033	17,483	795,015	487,499
Beverages.....	8	14	33	-----	118	24,944	47,060	82,981	6,353	247,455	158,121
Bread and other bakery products.....	36	66	339	6	543	109,696	477,794	1,334,444	62,895	2,624,779	1,227,440
Clay products (other than pottery) and nonclay refractories.....	19	83	1,877	3,035	4,293	214,897	2,197,405	568,648	979,751	6,080,630	4,542,231
Clothing, women's, not elsewhere classified.....	4	21	178	48	37	38,444	123,425	408,638	3,605	725,449	313,206
Concrete products.....	3	-----	2	-----	15	-----	-----	6,000	558	29,717	23,159
Confectionery.....	5	5	17	-----	51	6,657	19,944	62,049	1,822	115,882	52,511
Cutlery (not including silver and plated cutlery) and edge tools.....	3	18	63	-----	182	31,088	63,144	33,263	6,115	234,602	195,224
Flour and other grain-mill products.....	9	34	47	655	577	67,785	67,252	1,117,683	20,089	1,465,942	328,170
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	6	140	1,405	4,135	8,613	483,925	2,228,629	3,695,971	504,083	9,325,046	5,124,992
Foundry and machine-shop products, not elsewhere classified.....	36	502	3,027	5,937	30,719	1,292,280	5,136,531	10,746,852	511,639	25,347,912	14,089,421
Ice cream.....	7	34	73	580	891	86,031	137,616	388,062	24,156	990,347	578,129
Ice, manufactured.....	5	13	66	410	1,167	24,093	103,639	178,238	54,329	633,616	401,040
Iron and steel: Steel works and rolling mills.....	7	920	13,661	202,805	2103,242	3,423,601	27,123,388	50,192,170	7,149,929	118,828,068	61,486,869
Lumber and timber products, not elsewhere classified.....	3	1	16	79	-----	(²)	12,416	11,000	-----	45,880	34,886
Meat packing, wholesale.....	4	53	234	-----	897	176,680	361,374	4,304,796	82,559	5,285,217	947,862
Models and patterns, not including paper patterns.....	3	2	14	-----	63	(²)	80,128	10,798	1,380	62,365	50,187
Nonferrous-metal alloys and products, not including aluminum products.....	3	15	52	-----	64	35,755	91,910	236,118	9,781	426,821	180,922
Patent or proprietary medicines and compounds.....	4	30	30	-----	32	136,170	60,904	561,572	3,544	1,084,527	519,411
Photo-engraving, not done in printing establishments.....	3	39	108	-----	105	97,159	297,643	67,654	6,533	667,728	593,541
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	10	29	64	115	1,035	73,639	97,850	240,252	13,117	559,418	306,040
Printing and publishing, book and job.....	19	44	155	-----	254	104,829	239,624	280,143	11,082	897,317	626,092
Printing and publishing, newspaper and periodical.....	7	269	275	-----	752	390,850	484,084	458,030	31,406	2,453,406	1,964,060
Rubber goods, other than tires, inner tubes, and boots and shoes.....	6	36	342	191	608	101,205	361,635	400,369	41,043	1,368,461	925,049
Signs and advertising novelties.....	7	39	193	-----	254	86,485	299,511	407,799	3,144	1,165,101	740,218
Stoves and ranges (other than electric) and warm-air furnaces.....	3	22	77	-----	283	58,098	113,875	127,231	6,772	402,736	208,733
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	8	115	689	532	3,239	325,988	1,088,864	3,094,015	61,168	5,709,262	2,554,070
Other industries.....	106	2,052	9,035	6,307	36,835	5,239,736	13,301,828	34,582,516	5,901,367	84,263,647	43,770,764

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.
^b 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.
^c Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."
^d Includes item for "Iron and steel: Blast furnaces" industry. All data for that industry except those for power are included in the "Other industries" items to avoid disclosing the figures reported by individual establishments.

SUMMIT COUNTY (SEE AKRON INDUSTRIAL AREA)

TRUMBULL COUNTY

All industries, total.....	153	1,916	21,234	61,296	174,960	\$5,856,810	\$38,310,435	\$115,188,745	\$11,584,511	\$212,192,435	\$85,419,179
Bread and other bakery products.....	13	7	41	-----	76	10,260	53,425	172,648	8,892	307,361	125,821
Concrete products.....	4	4	16	-----	126	10,625	26,237	38,262	2,771	93,639	52,606
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	8	12	32	-----	204	26,642	43,652	304,569	3,071	436,845	120,205
Foundry and machine-shop products, not elsewhere classified.....	19	433	2,697	1,145	21,670	1,377,629	4,265,767	11,920,238	508,421	24,815,205	12,336,546
Iron and steel: Steel works and rolling mills.....	13	625	12,574	23 55,612	23124,039	1,819,169	25,154,157	73,458,558	6,054,144	125,554,300	46,041,598
Lumber and timber products, not elsewhere classified.....	7	8	90	1,074	-----	13,970	85,236	60,925	2,436	266,494	203,133
Printing and publishing, book and job.....	10	6	38	-----	62	11,773	52,445	49,834	2,310	177,262	125,118
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	6	147	745	-----	3,702	461,654	1,143,013	3,394,261	78,254	7,145,221	3,672,706
Other industries.....	78	669	5,001	3,465	25,087	2,125,088	7,486,503	25,789,450	4,924,212	53,396,108	22,682,446

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

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 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

AKRON

[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, "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.....	270	8,875	59,983	147,642	112,805	\$22,642,049	\$96,622,893	\$284,500,854	\$9,780,305	\$544,044,236	\$253,303,077
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^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

CANTON

[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, "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.....	174	2,787	18,334	18,731	136,305	\$7,846,890	\$31,870,051	\$64,556,472	\$8,091,484	\$153,088,024	\$81,340,008
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CINCINNATI

[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.....	1,784	12,843	63,986	44,720	121,237	\$34,267,052	\$85,442,120	\$238,220,047	\$5,281,010	\$407,552,409	\$263,941,752
Belting, leather.....	3	9	17	---	53	31,004	31,104	105,512	983	215,783	109,288
Beverages ¹	20	91	246	485	841	250,963	319,998	851,990	43,707	2,283,892	1,387,645
Bookbinding and blank-book making ²	23	26	177	---	177	50,907	221,061	180,111	6,886	676,955	490,458
Boot and shoe findings, not made in boot and shoe factories.....	6	23	94	---	201	47,258	124,908	189,028	11,530	472,033	271,476
Boots and shoes, other than rubber.....	15	269	2,951	870	813	694,772	3,250,814	5,014,887	52,066	11,835,035	5,667,482
Boxes, paper, not elsewhere classified.....	14	80	662	15	928	241,350	608,593	1,290,252	27,887	2,742,900	1,446,201
Bread and other bakery products.....	191	239	2,332	270	3,510	595,115	3,146,472	9,061,729	329,760	19,264,484	9,875,995
Brushes, other than rubber ³	6	9	32	---	63	16,921	34,374	91,359	2,385	237,886	144,142
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces ¹	15	54	304	150	314	129,135	239,419	1,420,221	17,077	2,126,762	670,804
Chemicals, not elsewhere classified.....	4	28	59	---	626	69,608	92,824	608,030	38,819	1,530,777	795,028
Cigars and cigarettes ¹	27	44	548	---	46	185,951	455,895	605,506	5,002	1,780,250	1,169,142
Cleaning and polishing preparations ²	12	59	30	---	95	109,067	43,504	368,444	3,086	1,091,413	718,983
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....)	61	768	5,878	10	1,197	2,077,656	7,606,589	15,499,144	98,280	32,211,979	16,614,555
Clothing, women's, not elsewhere classified.....	19	103	728	---	140	188,075	652,049	1,893,317	12,055	3,825,473	1,919,501
Coffee and spice, roasting and grinding.....	14	64	349	405	910	175,202	395,642	6,220,308	36,181	8,598,826	2,333,337
Concrete products.....	12	16	59	4	263	46,915	100,068	107,068	5,307	392,419	279,084
Confectionery ¹	30	148	923	215	1,141	307,755	870,143	3,215,454	65,292	6,357,485	3,076,739
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	35	205	911	335	1,870	647,028	1,286,841	4,595,274	65,800	8,189,029	3,527,895
Cutlery (not including silver and plated cutlery) and edge tools.....	3	4	12	15	20	7,200	22,535	6,501	1,873	52,153	49,089
Engraving (other than steel, copperplate, or wood), chasing, etching, and disinking.....	4	6	17	---	18	12,911	30,807	22,118	1,203	99,435	70,114
Engraving, steel and copperplate, and plate printing.....	8	52	264	---	201	123,772	260,029	181,737	7,461	815,813	626,015
Flavoring extracts and flavoring sirups ²	18	43	134	341	240	179,149	202,619	2,207,637	41,294	4,112,471	1,803,540
Food preparations, not elsewhere classified ²	11	27	147	125	364	43,901	172,337	906,408	14,872	1,847,450	426,170
Foundry and machine-shop products, not elsewhere classified.....	117	1,019	4,784	2,459	11,119	2,839,863	7,391,410	9,368,176	373,338	29,894,327	20,162,813
Foundry supplies.....	4	26	60	500	439	82,681	76,724	882,365	13,515	640,268	244,395
Glass products (except mirrors) made from purchased glass.....	8	30	103	---	78	89,670	203,461	272,345	7,050	711,890	432,405
Hand stamps and stencil and brands.....	6	13	20	---	54	26,067	49,411	44,655	1,702	191,593	145,236
Hardware not elsewhere classified.....	6	20	108	90	216	45,540	124,247	87,904	12,068	456,697	356,697
House-furnishing goods, not elsewhere classified ³	12	51	257	875	422	124,808	245,709	1,211,450	14,333	1,977,055	761,872
Ice cream ¹	14	38	177	1,500	808	113,899	245,641	1,322,097	78,863	3,154,274	1,763,314
Ink, printing.....	9	206	370	1,480	948	519,959	446,248	608,393	2,981,116	6,402,745	3,555,559
Jewelry ²	22	103	281	---	162	212,328	5,726	29,458	7,029	1,841,111	1,248,434
Macaroni, spaghetti, vermicelli, and noodles.....	3	5	30	85	77	5,726	20,458	106,476	6,250	197,936	85,005
Marble, granite, slate, and other stone products ¹	16	40	177	615	829	171,823	328,260	402,228	20,508	2,185,657	1,672,621
Meat packing, wholesale.....	36	310	1,644	4,867	2,191	863,847	2,353,675	41,807,642	192,541	48,610,637	6,610,464
Models and patterns, not including paper patterns.....	17	28	151	---	212	110,044	269,092	97,052	7,589	615,894	511,053
Paints and varnishes.....	10	205	512	1,208	2,667	611,031	753,225	6,062,921	92,792	11,328,809	4,673,926
Photo-engraving, not done in printing establishments ²	18	89	255	---	171	320,087	599,124	134,518	11,676	1,325,883	1,179,089

See footnotes at end of this section, p. 422.

CENSUS OF MANUFACTURES: 1929

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
CINCINNATI—Continued											
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	18	146	687	2,476	1,204	\$500,158	\$886,590	\$3,029,835	\$45,526	\$5,763,872	\$2,688,511
Plated ware.....	4	40	224	220	397	116,892	248,177	134,561	16,568	745,317	594,160
Poultry killing, dressing, and packing, wholesale.....	7	9	36	-----	7	29,609	49,404	603,054	2,891	796,630	100,685
Printing and publishing, book and job.....	108	733	2,861	845	3,453	1,078,545	4,037,782	4,744,100	158,944	18,550,954	13,647,910
Printing and publishing, newspaper and periodical.....	57	1,218	1,609	985	4,400	2,017,742	3,323,416	4,433,780	118,019	17,737,174	13,185,375
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	7	6	17	-----	97	15,852	24,946	262,061	6,377	343,274	74,836
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	12	86	605	-----	1,165	242,702	871,073	1,059,407	52,916	3,087,365	1,975,042
Stereotyping and electrotyping, not done in printing establishments.....	10	47	369	-----	1,489	150,648	727,242	431,702	55,977	2,044,206	1,550,497
Stoves and ranges (other than electric) and warm-air furnaces.....	8	306	989	350	1,898	694,535	1,510,456	1,872,992	69,071	5,557,387	3,615,324
Surgical and orthopedic appliances, including artificial limbs.....	10	63	240	22	51	158,831	176,496	250,393	3,601	1,001,521	807,527
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	3	1	19	-----	6	(0)	17,155	17,261	820	51,101	33,020
Window shades and fixtures.....	8	12	156	-----	260	23,293	161,218	495,507	6,647	750,187	248,043
Other industries.....	641	5,653	30,648	23,574	73,171	15,490,000	39,846,562	100,652,624	3,024,309	223,203,360	119,526,427

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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 Cincinnati have been included with those for the city, as specified in footnotes 1, 2, and 3, to avoid disclosing, exactly or approximately, the data reported by individual establishments.

¹ Includes data for 2 establishments located outside Cincinnati.

² Includes data for 1 establishment located outside Cincinnati.

³ Includes data for 3 establishments located outside Cincinnati.

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

CLEVELAND

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 5, 6, and 7), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	2,573	23,934	146,881	297,911	428,464	\$71,339,338	\$220,159,652	\$584,462,169	\$43,464,712	\$1,245,433,855	\$617,506,974
Artificial and preserved flowers and plants.....	5	5	33	-----	4	20,284	27,680	87,913	219	281,082	192,050
Awnings, tents, sails, and canvas covers.....	10	85	178	-----	105	220,474	217,037	428,766	9,364	1,018,557	580,427
Beverages.....	30	91	347	1,017	1,226	183,117	469,679	890,709	73,204	2,551,547	1,587,574
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	15	484	5,031	4,972	17,937	1,780,858	6,970,825	11,263,241	627,885	28,291,206	16,400,080
Bookbinding and blank-book making.....	20	66	493	-----	492	196,299	656,634	523,899	18,498	2,023,236	1,480,839
Boxes, cigar, wooden.....	3	-----	14	-----	22	-----	14,169	16,970	577	30,745	22,198
Boxes, paper, not elsewhere classified.....	15	90	985	1,150	1,327	306,419	1,055,309	3,200,375	68,784	5,836,278	2,567,119
Boxes, wooden, except cigar boxes.....	10	36	383	400	974	128,080	406,326	947,802	14,159	1,843,017	881,056
Bread and other bakery products.....	279	259	3,464	375	4,699	641,885	4,907,538	12,342,188	507,067	26,000,762	13,211,517
Brushes, other than rubber.....	8	115	368	210	1,712	384,133	469,150	720,920	14,590	2,030,801	1,295,291
Butter.....	7	36	79	-----	2,242	87,676	125,078	2,966,463	21,754	3,575,182	588,965
Cigars and cigarettes.....	13	20	333	-----	38	57,105	245,647	409,407	2,830	951,493	539,196
Cleaning and polishing preparations.....	26	72	93	-----	185	290,443	100,395	1,122,840	8,573	2,796,445	1,664,027
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	41	389	5,645	1,500	1,143	1,271,363	7,406,849	17,397,154	106,091	30,591,518	13,088,273
Clothing, women's, not elsewhere classified.....	92	552	3,759	-----	641	1,737,717	4,714,787	13,778,441	57,728	28,012,767	14,176,598
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	6	11	198	-----	40	26,328	154,568	444,733	3,197	806,552	358,622
Coffee and spice, roasting and grinding.....	11	56	160	-----	693	140,839	177,563	4,669,977	49,393	6,694,485	1,975,115
Compressed and liquefied gases.....	9	106	164	122	2,286	232,404	266,158	512,276	116,070	2,318,554	1,691,208
Concrete products.....	20	22	106	26	360	45,439	151,663	250,646	13,874	647,973	383,453
Confectionery.....	31	138	977	160	2,990	460,299	1,017,529	4,544,044	108,666	7,221,956	2,569,246
Cooperage.....	6	14	223	295	73	75,160	259,086	1,130,204	5,133	1,563,132	427,795
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	40	140	690	12	1,646	410,090	1,137,590	1,987,355	33,787	4,599,868	2,578,726
Electrical machinery, apparatus, and supplies.....	69	1,398	6,454	1,402	17,773	3,871,932	9,317,423	24,832,448	820,608	60,346,165	34,693,109
Electroplating.....	23	57	309	20	1,548	186,298	506,584	150,490	41,465	1,153,366	961,401
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	3	-----	3	1	5	-----	5,930	200	24	36,100	35,876
Engraving, steel and copperplate, and plate printing.....	12	32	143	-----	159	95,323	204,220	234,034	5,052	748,297	509,211
Fancy and miscellaneous articles, not elsewhere classified.....	8	24	120	-----	35	67,489	105,290	139,591	3,266	577,534	434,677
Flavoring extracts and flavoring sirups.....	12	54	109	125	265	149,418	139,734	916,162	7,765	2,152,465	1,228,638
Food preparations, not elsewhere classified.....	8	7	40	-----	151	10,991	43,572	433,233	7,423	610,878	170,172
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	18	211	1,775	2,600	12,129	913,567	3,188,480	5,597,471	886,275	14,909,811	8,426,065

See footnotes at end of this section, p. 423.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
CLEVELAND—Continued											
Foundry and machine-shop products, not elsewhere classified	185	2,574	16,730	2,042	60,087	\$8,084,421	\$27,591,689	\$32,227,433	\$2,489,498	\$95,649,619	\$60,932,688
Furniture, including store and office fixtures	39	184	1,300	225	2,263	548,605	2,036,527	3,497,229	57,409	7,486,149	3,031,511
Gas and electric fixtures; lamps, lanterns, and reflectors	18	171	1,071	-----	3,157	458,526	1,314,267	2,549,870	64,589	6,547,243	3,032,784
Grease and tallow, not including lubricating greases ^c	5	23	151	100	1,423	73,492	264,900	576,774	50,406	1,369,414	742,174
Hand stamps and stencils and brands	9	45	101	-----	151	91,185	147,365	147,129	6,005	554,220	401,095
Hardware not elsewhere classified	7	156	1,274	260	2,707	369,945	1,808,842	1,070,758	150,903	4,680,760	3,459,089
Hats and caps, except felt and straw, men's	12	26	95	-----	44	64,209	113,365	308,964	2,580	656,378	344,834
Ice cream	13	77	215	-----	2,865	152,193	395,322	1,695,935	79,773	4,177,027	2,401,319
Instruments, professional and scientific	4	27	105	-----	148	73,329	165,736	117,544	7,574	620,863	495,745
Iron and steel, processed	6	22	86	-----	707	89,962	148,558	80,272	582,587	445,742	311,078
Jewelry	13	18	70	-----	25	36,632	114,339	180,927	2,844	500,849	311,078
Knit goods ^d	24	207	2,760	85	1,333	845,019	2,647,391	6,939,000	89,605	12,893,889	5,834,624
Lithographing	15	189	900	-----	1,368	573,958	1,752,588	1,335,915	32,984	5,719,637	4,350,738
Macaroni, spaghetti, vermicelli, and noodles	8	22	138	-----	426	69,583	-----	511,510	16,963	982,506	454,033
Machine-tool accessories and small metal-working tools, not elsewhere classified ^e	56	410	2,531	452	10,216	1,160,120	4,452,801	2,973,382	264,706	15,012,847	11,774,759
Machine tools ^f	19	580	3,066	615	9,763	1,554,054	6,634,323	6,555,129	232,150	23,204,289	16,416,980
Mattresses and bed springs, not elsewhere classified	10	41	160	-----	355	146,576	210,361	541,238	11,031	1,178,135	625,866
Meat packing, wholesale ^g	25	582	1,800	3,145	3,042	1,397,918	2,535,317	42,196,788	260,006	49,345,714	6,888,320
Millinery	16	51	607	-----	303	215,240	701,793	1,270,367	16,581	2,776,868	1,480,920
Models and patterns, not including paper patterns ^h	42	59	396	-----	690	188,571	817,488	321,500	19,065	1,762,976	1,422,411
Motion pictures, not including projection in theaters	4	35	12	-----	7	101,700	22,768	35,339	1,070	187,897	150,988
Motor-vehicle bodies and motor-vehicle parts ⁱ	40	1,232	12,572	1,440	47,537	3,408,829	22,560,931	70,085,298	971,275	125,197,505	54,140,932
Nonferrous metal alloys and products, not including aluminum products ^j	37	251	1,468	75	4,025	835,517	2,402,335	6,653,696	193,283	12,460,680	5,613,701
Paints and varnishes	43	895	1,702	700	9,109	2,922,461	2,395,635	17,534,370	282,093	36,187,709	18,371,246
Patent or proprietary medicines and compounds ^k	30	153	151	-----	601	515,838	180,663	1,300,946	17,140	4,743,907	3,425,821
Paving materials: Asphalt, tar, crushed slag, and mixtures	4	13	97	28	711	38,680	163,662	744,892	31,513	1,235,740	459,335
Perfumes, cosmetics, and other toilet preparations ^l	17	94	135	-----	128	357,444	153,531	674,938	6,465	3,310,204	2,634,891
Photo-engraving, not done in printing establishments	13	100	314	-----	268	397,575	754,210	194,571	20,287	1,930,980	1,716,122
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	23	204	1,400	-----	3,503	702,400	1,852,397	2,137,321	165,901	6,446,704	4,143,482
Printing and publishing, book and job	234	848	2,702	1	3,578	2,614,210	4,945,362	5,496,305	152,808	20,285,670	14,735,587
Printing and publishing, newspaper and periodical	76	1,934	2,041	-----	4,695	5,216,042	4,005,097	6,100,586	140,455	29,759,316	23,509,275
Printing materials, not including type or ink	4	9	13	-----	36	27,746	24,644	29,619	1,689	177,020	145,712
Pumps (hand and power) and pumping equipment	4	38	100	-----	212	124,835	143,062	748,212	10,675	1,275,050	516,163
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	19	97	379	40	1,739	341,008	636,576	5,570,488	61,203	7,587,112	1,955,421
Screw-machine products and wood screws ^m	19	399	3,520	-----	10,936	1,270,710	5,385,221	5,216,618	280,431	17,302,727	11,805,678
Ship and boat building, steel and wooden, including repair work	4	48	492	2,909	3,526	103,628	760,000	509,727	41,420	1,813,112	1,264,965
Steam fittings and steam and hot-water heating apparatus	12	161	1,288	75	1,618	564,836	1,782,861	1,999,252	211,685	7,138,756	4,927,819
Steel barrels, kegs, and drums	7	54	406	-----	1,369	286,114	723,507	3,510,235	37,293	5,434,041	1,886,513
Stereotyping and electrotyping, not done in printing establishments	9	42	146	-----	611	172,117	308,558	100,008	21,855	872,670	760,807
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills ⁿ	32	575	2,413	220	9,509	2,097,814	4,449,408	8,727,273	216,556	16,643,222	10,699,393
Tin cans and other tinware, not elsewhere classified	3	65	550	300	1,325	98,905	654,482	2,130,454	25,115	3,653,010	1,497,441
Trunks, suitcases, and bags	10	19	67	-----	35	57,973	81,048	249,337	1,501	415,661	164,823
Waste	3	12	51	50	48	35,911	46,709	308,905	6,505	529,511	214,101
Window and door screens and weather strip ^o	6	9	21	-----	45	24,988	30,798	84,621	7,699	187,954	102,564
Window shades and fixtures ^p	15	12	40	-----	50	24,501	59,885	131,902	2,224	289,197	155,071
Wirework, not elsewhere classified ^q	20	151	1,079	4	2,682	466,294	1,624,095	2,882,195	100,209	7,692,889	4,710,485
Wood turned and shaped and other wooden goods, not elsewhere classified	6	9	47	-----	293	25,625	74,121	58,665	4,020	236,245	173,540
Other industries	538	6,614	48,355	270,959	149,230	18,870,145	77,669,504	228,310,363	33,026,190	462,438,575	201,102,022

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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 Cleveland have been included with those for the city, as specified in footnotes 5, 6, and 7, to avoid disclosing, exactly or approximately, the data reported by individual establishments.

^c Includes data for 1 establishment located outside Cleveland.^d Includes data for 2 establishments located outside Cleveland.^e Includes data for 3 establishments located outside Cleveland.

CENSUS OF MANUFACTURES: 1929

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

COLUMBUS

[The totals for all industries do not include data for a few establishments located outside the city (see footnote 8), and therefore are slightly smaller than the sums of the items for the individual industries]

	504	4,744	26,565	16,547	62,605	\$12,549,802	\$86,940,530	\$107,057,284	\$3,388,304	\$212,255,749	\$101,810,071
All industries, total.....	504	4,744	26,565	16,547	62,605	\$12,549,802	\$86,940,530	\$107,057,284	\$3,388,304	\$212,255,749	\$101,810,071
Awnings, tents, sails, and canvas covers.....	4	13	29	—	37	30,517	41,300	69,312	1,450	227,320	150,558
Beverages.....	9	21	99	505	145	93,747	147,696	330,730	16,187	820,002	474,005
Boots and shoes, other than rubber.....	7	226	2,912	—	1,865	496,897	3,160,940	7,095,639	60,205	13,007,522	6,465,784
Bread and other bakery products ^c	69	112	1,173	35	2,335	261,626	1,604,843	4,669,371	145,300	9,475,935	4,661,264
Caskets, coffins, burial cases, and other morticians' goods.....	7	47	405	—	1,401	156,375	567,332	2,125,073	33,745	4,476,361	2,316,043
Coffee and spice, roasting and grinding.....	5	17	40	—	239	36,934	45,748	1,407,269	8,241	1,728,478	812,068
Compressed and liquefied gases.....	4	44	42	—	1,170	90,116	69,867	107,822	51,416	639,239	420,001
Concrete products.....	12	13	57	4	313	19,980	72,913	173,634	5,545	444,062	261,083
Confectionery ^c	12	28	172	150	215	61,405	130,152	498,493	12,316	857,364	376,555
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	7	41	206	—	223	93,853	278,076	780,358	12,254	1,461,638	669,026
Druggists' preparations.....	8	47	126	—	223	108,334	105,000	344,626	7,022	931,041	570,393
Electroplating.....	3	3	19	—	80	3,980	27,636	2,400	3,667	55,354	40,287
Flavoring extracts and flavoring sirups.....	4	6	18	—	6	10,197	18,966	112,844	1,108	170,414	56,462
Foundry and machine-shop products, not elsewhere classified.....	35	816	4,378	2,790	12,421	2,448,228	6,719,345	8,979,767	616,632	28,650,880	19,053,881
Furniture, including store and office fixtures.....	9	88	450	675	1,922	294,700	585,686	1,087,636	34,871	2,678,515	1,556,808
Hardware not elsewhere classified.....	3	7	16	—	81	12,517	26,608	25,740	1,100	114,327	87,391
Ice cream ^c	7	89	186	860	1,676	166,815	254,918	949,568	39,771	2,206,684	1,217,245
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	4	12	123	—	101	35,855	215,276	50,815	6,100	423,338	300,333
Mattresses and bed springs, not elsewhere classified.....	5	12	64	—	268	26,556	81,201	181,344	4,984	365,745	170,417
Models and patterns, not including paper patterns.....	5	8	38	—	81	15,072	57,724	12,255	661	116,848	102,632
Motor-vehicle bodies and motor-vehicle parts.....	8	99	697	—	1,356	237,437	869,703	1,006,805	47,068	4,627,383	2,572,560
Nonferrous-metal alloys and products, not including aluminum products.....	4	10	53	—	172	24,850	87,140	121,198	5,286	207,200	170,806
Paints and varnishes.....	6	32	96	—	605	106,493	107,332	950,165	11,850	1,744,830	778,815
Patent or proprietary medicines and compounds.....	9	16	58	—	59	72,798	44,965	115,000	2,104	817,975	700,271
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	17	23	116	—	2,200	53,787	180,869	378,516	26,087	813,747	409,144
Printing and publishing, book and job.....	56	170	674	—	728	468,792	1,110,020	989,033	44,734	3,698,469	2,564,702
Printing and publishing, newspaper and periodical.....	35	887	623	18	2,397	1,782,056	1,181,366	1,020,940	61,890	8,867,225	6,884,886
Signs and advertising novelties.....	6	9	29	—	19	23,545	48,471	39,640	1,754	164,013	122,619
Stationary goods, not elsewhere classified.....	4	26	99	—	145	72,373	104,816	267,314	6,160	562,365	289,882
Stereotyping and electrotyping, not done in printing establishments.....	3	14	32	—	203	49,872	50,467	62,964	3,468	202,642	136,810
Window shades and fixtures.....	6	4	13	—	6	15,282	14,921	127,302	620	200,715	72,724
Other industries.....	194	1,807	13,553	11,510	29,871	5,162,869	18,865,133	71,178,877	2,111,566	121,088,545	47,708,602

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.^c The figures for each of the following-named industries include data for 1 establishment located outside Columbus, to avoid disclosing the figures reported by an individual establishment: Bread and other bakery products; confectionery; ice cream.

DAYTON

[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, "Refrigerators, mechanical," without disclosing the data reported by an individual establishment; 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.....	477	7,070	40,842	26,176	81,022	\$20,465,120	\$62,532,045	\$108,663,824	\$3,104,905	\$317,773,160	\$206,014,431
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TOLEDO

[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.....	686	6,408	40,090	51,166	123,064	\$20,560,302	\$72,481,194	\$223,144,149	\$10,041,348	\$429,599,926	\$196,414,420
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YOUNGSTOWN

[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, "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.....	140	3,305	20,543	367,658	59,363	\$8,634,430	\$37,001,679	\$145,026,217	\$24,985,857	\$264,520,034	\$94,507,960
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OKLAHOMA

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers	Fuel and purchased energy		
1929.....	1,658	31,095	223,257	115,987	107,270	\$41,276,998	\$306,501,497	\$297,452,619	\$9,048,878	\$455,905,297	\$149,403,800
1927.....	1,373	27,932	185,480	115,253	70,227	35,785,266	269,418,221	256,479,662	12,938,559	371,718,409	102,300,188
1925.....	1,292	26,333	156,826	105,400	51,420	34,210,630	301,147,045	(⁵)	(⁵)	403,295,440	102,148,395
1923.....	1,242	25,480	152,956	103,374	49,582	33,068,705	230,262,537	(⁵)	(⁵)	315,208,308	84,945,721
1921.....	1,398	22,241	(⁶)	(⁶)	(⁶)	29,531,545	203,802,434	(⁵)	(⁵)	283,763,685	79,961,251
1910.....	2,445	20,503	139,550	104,115	35,435	35,025,942	312,605,829	301,539,816	11,066,013	401,362,869	88,757,040
1914.....	2,518	17,443	97,103	87,035	10,068	11,011,043	70,969,750	68,152,836	2,816,914	102,005,693	31,055,943
1909.....	2,310	13,143	71,072	65,791	5,281	7,240,177	34,152,894	32,848,137	1,304,757	53,682,405	19,529,511
1904.....	1,123	6,456	29,443	28,861	597	2,799,402	16,393,052	15,783,057	610,895	24,459,107	8,065,155
1899.....	495	2,381	11,507	11,507	-----	894,067	5,430,447	(⁶)	(⁶)	8,133,936	2,793,489
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	20.8	13.5	20.4	0.6	52.7	15.3	13.8	16.0	-30.1	22.6	46.0
1925-1927.....	7.1	6.1	18.3	9.3	36.6	4.6	-10.5	-----	-----	-7.8	0.1
1923-1925.....	3.2	3.3	2.5	2.0	3.7	3.5	30.8	-----	-----	27.9	20.3
1921-1923.....	-11.2	14.0	-----	-----	-----	12.0	13.0	-----	-----	11.1	6.2
1910-1921.....	-42.8	-24.6	-----	-----	-----	-15.7	-34.8	-----	-----	-29.3	-9.9
1910-1929.....	-32.2	7.4	60.0	11.4	202.7	17.8	-2.0	-1.4	-18.2	13.6	68.3
1900-1919.....	5.8	124.5	96.4	58.3	571.0	383.8	815.3	818.0	748.1	647.7	354.5
1899-1909.....	366.7	452.0	517.6	471.7	-----	709.8	528.9	-----	-----	560.0	622.4

¹ Not including salaried employees.

² 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.

³ 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.

⁴ Not reported separately.

⁵ Not called for on schedule.

⁶ 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) ¹	Horse- power ²	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of prod- ucts	Value added by manu- facture
						Total	Materials and con- tainers	Fuel and purchased energy		
The State.....	2,306,040	1,658	31,695	223,267	\$41,276,993	\$306,501,497	\$297,452,619	\$9,048,878	\$455,905,297	\$149,403,800
<i>Counties ³</i>										
A. Fair.....	14,756	12	191	428	122,592	141,449	139,795	1,654	337,728	190,279
Alfalfa.....	15,228	8	41	422	42,503	427,205	417,877	9,418	640,458	222,163
Atoka.....	14,533	7	35	245	39,035	26,688	22,720	2,968	109,450	83,702
Beckham.....	28,991	20	184	1,174	209,622	2,021,281	1,983,437	37,844	2,738,473	717,192
Bryan.....	32,277	15	91	1,067	83,576	942,112	912,845	29,267	1,304,320	362,208
Caddo.....	50,779	22	164	1,601	200,165	2,422,090	2,375,058	47,032	3,087,947	665,857
Canadian.....	28,115	19	517	4,307	686,720	6,137,280	6,038,165	104,125	8,043,763	1,906,483
Carter.....	41,419	37	450	2,543	617,661	4,720,103	4,614,908	105,195	6,783,744	2,063,041
Cherokee.....	17,470	9	22	372	21,022	81,121	75,494	5,627	150,034	68,913
Choctaw.....	24,142	17	127	1,027	96,325	1,026,207	1,010,200	15,007	1,390,429	365,222
Cleveland.....	24,048	14	79	722	106,232	241,743	225,234	16,509	548,945	307,202
Comanche.....	34,317	23	176	1,477	240,480	1,667,240	1,626,350	40,884	2,332,601	665,261
Cotton.....	15,442	6	15	223	17,466	176,612	167,085	9,527	221,730	40,118
Craig.....	18,052	6	34	263	27,734	147,818	142,587	5,231	249,895	102,077
Creek.....	64,115	43	001	0,287	1,256,568	14,552,238	14,199,954	352,284	18,932,705	4,380,467
Custer.....	27,517	15	128	1,099	108,365	1,929,586	1,896,394	33,192	2,383,188	453,002
Garfield.....	45,588	00	1,094	11,685	1,493,740	20,218,302	19,856,904	361,398	26,820,349	6,008,047
Garvin.....	31,401	15	94	1,325	104,083	816,408	791,031	24,477	1,156,740	340,832
Grady.....	47,638	24	417	2,399	502,053	3,021,881	2,963,008	68,873	4,410,074	1,389,093
Greer.....	20,282	11	76	801	87,378	567,787	492,091	15,696	751,410	243,023
Haskell.....	16,216	6	14	138	12,820	14,924	12,989	1,935	45,736	30,812
Hughes.....	30,334	15	65	681	72,148	272,558	256,833	15,725	561,903	289,345
Jackson.....	28,910	22	252	1,990	270,081	1,783,866	1,704,713	79,153	2,645,208	861,842
Jefferson.....	17,392	6	57	506	64,099	183,734	172,024	11,710	313,218	129,484
Kay.....	50,186	56	1,809	22,044	2,790,066	33,770,170	32,317,322	1,452,848	42,990,162	9,219,992
Kingfisher.....	15,960	10	71	1,121	78,334	1,573,102	1,547,896	25,206	1,937,828	364,726
Kiowa.....	29,630	25	167	2,189	144,094	2,250,832	2,219,753	31,079	2,823,228	572,390
Latimer.....	11,184	6	25	251	18,540	43,328	41,712	1,616	98,549	55,221
Le Flore.....	42,896	28	870	3,610	779,818	514,894	475,520	30,373	2,127,729	1,612,835
Lincoln.....	33,738	18	95	1,436	79,551	665,393	662,770	32,624	977,732	282,330
Logan.....	27,761	19	266	1,868	260,013	1,381,607	1,335,502	46,105	2,209,050	827,452
Love.....	9,639	3	14	280	12,285	14,733	8,237	6,496	45,372	30,639
McIntosh.....	24,924	6	21	475	22,095	309,816	299,396	10,420	377,036	67,220
Major.....	12,206	6	22	176	32,229	126,859	119,714	6,145	203,820	77,961
Marshall.....	11,026	4	14	87	12,770	12,341	8,196	4,145	52,674	40,333
Mayer.....	17,883	6	10	111	14,204	58,348	56,310	2,038	103,625	45,277
Murray.....	12,410	14	35	703	35,071	120,817	116,294	4,523	234,393	113,576
Muskogee.....	66,424	60	1,394	7,059	1,953,310	11,979,520	11,741,631	237,889	16,735,096	4,755,576
Noble.....	15,139	7	41	498	49,885	931,453	911,317	20,136	1,226,010	294,557
Nowata.....	13,611	7	30	202	44,070	47,977	42,038	5,939	143,303	95,326
Okfuskee.....	29,016	10	54	958	78,393	107,843	99,004	8,839	297,015	189,172
Oklahoma.....	221,738	261	6,552	25,698	8,809,483	69,399,609	68,472,804	926,805	107,036,889	37,637,280
Okmulgee.....	56,558	48	1,168	7,910	1,703,074	12,255,040	11,501,244	753,796	17,366,536	5,111,790
Ottawa.....	38,542	25	244	1,807	270,130	1,996,378	1,941,222	55,656	2,950,485	959,607
Payne.....	36,905	30	758	7,078	988,000	19,496,603	19,045,015	450,588	24,764,925	5,269,322
Pittsburg.....	50,778	37	519	1,913	608,273	3,404,829	3,338,832	155,997	4,853,920	1,359,997
Pontotoc.....	32,469	19	594	12,187	710,031	5,278,044	4,723,674	554,370	8,602,211	3,324,167
Pottawatomie.....	66,572	31	010	5,361	1,120,116	4,053,028	3,925,248	127,780	6,089,640	2,036,612
Pushmataha.....	14,744	14	579	1,412	408,337	198,370	194,921	3,458	957,823	759,444
Rogers.....	18,956	6	21	207	30,114	40,477	34,976	5,071	116,679	76,632
Seminole.....	79,621	24	169	848	285,452	473,530	404,749	68,781	1,224,638	751,108
Stephens.....	33,069	28	216	1,694	222,268	2,600,160	2,543,531	56,629	3,958,308	1,358,148
Texas.....	14,100	4	10	67	9,851	11,179	8,997	2,182	66,416	55,287
Tillman.....	24,390	16	117	1,152	150,711	1,775,441	1,747,633	27,808	2,513,017	738,170
Tulsa.....	187,574	220	6,137	43,200	9,137,383	51,432,559	50,025,858	1,406,701	86,655,480	35,222,921
Wagoner.....	22,428	10	69	828	51,574	381,290	344,930	36,360	497,044	115,804
Washington.....	27,777	26	959	11,125	1,405,038	4,093,169	3,422,040	671,123	7,051,443	3,558,274
Washita.....	20,435	7	28	170	38,827	81,544	75,288	6,256	176,119	94,575
Woods.....	17,005	15	95	1,343	109,376	1,039,788	1,011,160	28,628	1,009,137	569,349
Woodward.....	15,844	12	99	462	119,456	1,210,466	1,197,492	21,974	1,679,804	460,838
All other counties ⁴	294,040	105	2,145	12,940	2,236,572	9,766,558	9,406,675	359,883	18,569,348	8,802,790
<i>Cities having 10,000 inhabitants or more ⁵</i>										
Ardmore.....	15,741	27	220	1,465	253,394	771,607	739,931	31,676	1,593,111	821,504
Bartlesville.....	14,763	19	103	710	165,955	272,923	245,164	27,759	785,856	512,933
Chickasha.....	14,099	20	306	2,227	479,601	2,978,157	2,914,721	63,436	4,309,696	1,331,439
Enid.....	26,399	50	739	6,333	970,592	7,735,730	7,596,298	142,432	10,647,205	2,808,475
Muskogee.....	32,026	59	1,248	6,385	1,773,582	10,639,847	10,476,086	163,761	14,826,720	4,186,873
Oklahoma City.....	185,389	245	6,312	23,505	8,540,696	67,799,143	67,001,970	797,173	104,424,116	38,624,973
Okmulgee.....	17,097	27	410	2,853	541,732	4,135,169	3,977,533	160,636	6,577,198	1,539,029
Ponca City.....	16,136	18	123	1,407	172,664	807,877	767,972	39,905	1,363,727	555,850
Sapulpa.....	10,533	15	180	1,068	227,560	431,657	379,865	51,822	1,220,128	788,441
Seminole.....	11,459	13	100	539	174,010	305,519	246,456	60,063	773,495	466,976
Shawnee.....	23,283	25	873	4,937	1,074,531	3,795,451	3,679,531	115,920	5,708,744	1,913,293
Tulsa ⁷	141,268	177	3,087	17,413	4,891,334	9,544,558	9,032,210	512,348	26,820,277	17,275,719

¹ Not including salaried employees.

² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

³ 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.

⁴ For statistics by industries for this county, see Table 13.

⁵ Beaver, Blaine, Cimarron, Coal, Delaware, Dewey, Ellis, Grant, Harmon, Harper, Johnston, McClain, McCurtain, Osage, Pawnee, Roger Mills, and Sequoyah Counties. (See footnote 3.)

⁶ Not including Ada, Lawton, McAlester, and Wewoka, 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.

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 ¹	39,632	36,125	3,507	994	935	59	802	745	57	6,141	4,919	1,222	31,695	29,526	2,169
1919 ^{1, 4}	38,314	35,134	3,180	2,320	2,244	76	628	609	19	5,863	4,635	1,228	29,503	27,646	1,857
1914 ⁴	22,700	21,295	1,405	2,464	2,394	70	355	353	2	2,438	2,099	339	17,443	16,449	994
1909	18,084	17,071	963	2,698	2,628	70	284	278	6	1,909	1,700	209	13,143	12,465	678

¹ No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1910 and 1929.
² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 44; male, 43; female, 1. Other salaried officers and employees—total, 628; male, 457; female, 169. 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.
³ Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.
⁴ 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 ¹	31,695	30,100	29,886	30,199	30,379	30,794	31,984	32,467	33,560	33,854	33,547	31,538	32,043	88.3
1919 ¹	29,503	28,270	28,209	28,518	27,897	28,236	28,020	28,648	30,090	30,810	31,482	31,582	32,259	86.5
1914 ¹	17,443	17,305	17,176	17,164	17,493	17,807	17,334	17,232	16,802	17,398	18,088	17,911	17,446	93.4
1909 ¹	13,143	11,826	11,782	12,237	12,285	12,518	12,905	13,153	13,465	13,826	14,859	14,551	14,505	80.4

¹ 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	1,658	31,695	45 and over but under 48	13	266
			48	388	7,167
Not reported	222	650	Over 48 but under 54	101	2,296
Under 40	23	161	54	174	3,096
40	12	1,306	Over 54 but under 60	116	8,570
Over 40 but under 44	8	87	60 and over	471	6,854
44 and over but under 45	180	1,242			

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	1,658	2,445	2,310	31,695	29,503	13,143	51 to 100	56	40	20	3,916	3,108	1,326
							101 to 250	30	37	9	4,672	6,209	1,636
No wage earners	33	427	262	2,538	2,956	3,315	251 to 500	16	11	1	5,107	3,323	253
1 to 5	880	1,409	1,597	4,960	4,009	3,724	501 to 1,000	7	1	1	5,610	818	754
6 to 20	477	374	352	4,892	4,205	2,136	1,001 to 2,500	1	4			4,725	
21 to 50	158	186	68										

¹ Combined to avoid disclosing number of wage earners reported by an individual establishment.

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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,658	2,445	2,310	31,695	29,503	13,143	\$455,905,207	\$401,362,869	\$53,632,405	\$149,403,800	\$88,757,040	\$19,520,511
Less than \$5,000.....	(²)	710	1,182	(²)	397	1,668	(²)	1,846,360	2,675,597	(²)	1,151,348	1,702,560
\$5,000 to \$19,999.....	006	848	727	1,592	1,825	2,863	6,822,242	8,819,984	7,194,668	4,300,500	4,893,614	4,142,194
\$20,000 to \$99,999.....	650	541	295	4,955	4,217	3,908	29,013,222	24,158,638	18,057,308	17,395,903	11,360,589	5,877,865
\$20,000 to \$49,999.....	438	(³)	(³)	2,483	(³)	(³)	13,932,329	(³)	(³)	8,386,090	(³)	(³)
\$50,000 to \$99,999.....	217	(³)	(³)	2,472	(³)	(³)	15,080,893	(³)	(³)	9,009,903	(³)	(³)
\$100,000 to \$499,999.....	261	215	102	7,161	6,087	4,406	57,798,006	47,539,066	26,570,562	26,359,936	16,810,315	7,001,117
\$100,000 to \$249,999.....	178	(³)	(³)	3,658	(³)	(³)	27,988,502	(³)	(³)	14,132,300	(³)	(³)
\$250,000 to \$499,999.....	83	(³)	(³)	3,503	(³)	(³)	29,809,504	(³)	(³)	12,177,546	(³)	(³)
\$500,000 to \$999,999.....	60	59		3,812	3,904		42,528,026	40,000,378		14,136,195	10,068,092	
\$1,000,000 and over.....	81	72	4	14,175	13,073	298	319,743,801	278,908,413	4,884,270	87,121,206	43,573,082	715,776
\$1,000,000 to \$2,499,999.....	49	(³)	(³)	5,560	(³)	(³)	74,961,028	(³)	(³)	25,730,837	(³)	(³)
\$2,500,000 to \$4,999,999.....	10	(³)	(³)	3,156	(³)	(³)	67,661,017	(³)	(³)	17,739,045	(³)	(³)
\$5,000,000 and over.....	13	(³)	(³)	5,459	(³)	(³)	177,121,756	(³)	(³)	48,651,324	(³)	(³)

¹ 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.² No data.³ 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.....	1,658	2,445	31,695	29,503	\$455,905,207	\$401,362,869	\$149,403,800	\$88,757,040
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	794	708	27,360	25,267	423,126,059	367,461,271	135,403,289	75,046,785
Other forms of ownership or control (individual, partnership, etc.).....	864	1,737	4,335	4,236	29,779,238	33,901,598	13,935,511	13,110,265
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	333	(¹)	16,909	(¹)	300,556,163	(¹)	85,047,981	(¹)
Independent (single-unit).....	1,325	(¹)	14,786	(¹)	155,349,134	(¹)	63,765,819	(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 IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Prime movers								Electric motors driven by purchased energy				
		Total horsepower of prime movers	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.....	223,257	115,987	503	48,673	94	39,380	244	27,934	1	30	12,092	107,270	2,398	55,063
1927.....	185,480	115,253	412	48,951	70	40,045	261	20,237	1	366	8,366	70,227	2,576	54,791
1925.....	156,826	105,400	527	54,600	31	31,502	280	19,208	1	30	6,102	51,426	1,029	46,991
1919 ¹	139,650	104,115	1,041	72,728	39	6,984	744	24,133	22	275	3,976	35,435	981	19,170
1914 ¹	97,103	87,035	1,842	70,303	(²)	(²)	686	15,976	11	256	1,716	10,068	608	13,092
Counties in which aggregate horsepower exceeded 25,000: 1929														
Oklahoma.....	25,698	10,175	28	6,428	1	(²)	9	747			2,346	15,523	264	6,024
Tulsa.....	43,200	13,154	29	2,005	41	6,067	33	5,082			2,920	30,046	281	5,843

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 steam 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

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	228,257	115,987	107,270	55,053	Logan.....	1,868	1,290	578	183
Adair.....	428	325	103		Love.....	280		286	
Alfalfa.....	422	325	97		McIntosh.....	476	250	225	
Atoka.....	245	80	165		Major.....	176	150	26	
Beckham.....	1,174	735	439		Marshall.....	87		87	
Bryan.....	1,067	467	600		Mayes.....	111	7	104	
Caddo.....	1,601	1,229	372		Murray.....	703	162	541	
Canadian.....	4,307	2,865	1,042	715	Muskogee.....	7,059	2,425	4,034	18
Carter.....	2,543	855	1,088		Noble.....	498	400	98	(?)
Cherokee.....	372	140	232		Nowata.....	202	110	92	
Choctaw.....	1,027	200	737	62	Oklfuskee.....	958	25	933	
Cleveland.....	722	400	322	25	Oklahoma.....	25,698	10,175	15,523	6,024
Comanche.....	1,477	300	1,177		Okmulgee.....	7,910	2,453	5,457	1,685
Cotton.....	223	80	143		Ottawa.....	1,807	468	1,339	
Craig.....	263	24	239		Payne.....	7,078	1,832	5,246	90
Creek.....	6,287	3,843	2,444	1,180	Pittsburg.....	1,913	1,083	830	
Custer.....	1,099	498	601		Pontotoc.....	12,187	11,055	1,132	10,008
Garfield.....	11,685	6,222	5,463	3,322	Pottawatomie.....	5,361	1,950	3,411	
Garvin.....	1,325	710	615		Pushmataha.....	1,412	1,297	115	
Grady.....	2,399	1,865	534		Rogers.....	207	75	132	50
Greer.....	801	700	101		Seminole.....	848	290	558	
Haskell.....	138	80	58		Stephens.....	1,694	600	1,094	
Hughes.....	681	300	381		Texas.....	67		67	
Jackson.....	1,999	1,228	771		Tillman.....	1,152	760	392	
Jefferson.....	506	325	181		Tulsa.....	43,200	13,154	30,046	5,848
Kay.....	22,044	12,048	9,396	7,677	Wagoner.....	828	720	108	300
Kingfisher.....	1,121	280	841		Washington.....	11,125	10,578	549	7,003
klown.....	2,189	1,700	489	110	Washita.....	170	113	57	
Lattimer.....	251	163	88		Woods.....	1,343	1,030	293	300
Le Flore.....	3,610	3,308	242	2,775	Woodward.....	452	240	212	10
Lincoln.....	1,436	912	524	66	All other counties ²	12,940	10,790	2,150	7,593

¹ Horsepower of electric motors driven by energy generated in establishments reporting.

² Item for Noble County included with that for "All other counties" to avoid disclosing data for a single establishment.

³ Beaver, Blaine, Cimarron, Coal, Delaware, Dewey, Ellis, Grant, Harmon, Harper, Johnston, McClain, McCurtain, Osage, Pawnee, Roger Mills, and Sequoyah 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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 lbs.).....	167,783	\$624,572	312,844	321,717	528,490	431,629	307,995
Anthracite (tons, 2,240 lbs.).....	22,978	123,504	(³)	23,478	44,433	1,682	9,972
Bituminous (tons, 2,000 lbs.).....	142,048	401,068	(³)	298,222	478,734	429,745	296,826
Coke (tons, 2,000 lbs.).....	43,442	210,102	(⁴)	(⁴)	37,409	20,879	4,279
Fuel oils, including crude oils and gas oils (gallons) ⁵	189,079,605	3,480,296	(⁴)	(⁴)	132,852,384	9,432,150	6,030,672
Gasoline and kerosene (gallons) ⁶	167,363	22,641	(⁴)	(⁴)	382,536		
Gas, natural (M cu. ft.).....	43,954,745	5,398,411	(⁴)	(⁴)			
Gas, manufactured (M cu. ft.).....	3,015,218	767,675	(⁴)	(⁴)	40,523,914	24,078,701	9,586,461
Other fuels.....		96,528	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Electric energy purchased (kilowatt-hours).....	140,278,496	2,384,293	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Total cost of fuel and purchased energy.....		7,12,884,458	Cost \$12,938,559	Cost (\$)	Cost \$11,066,013	Cost \$2,816,914	Cost \$1,804,757

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

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

³ Not tabulated separately.

⁴ No data.

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

⁶ Data incomplete.

⁷ 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.

⁸ Not reported separately.

CENSUS OF MANUFACTURES: 1929

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

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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	1,658	36,943	31,095	115,987	107,270	\$16,326,552	\$41,276,993	\$297,452,619	\$9,048,878	\$455,905,297	\$149,403,800
Awnings, tents, sails, and canvas covers.....	12	27	68	-----	32	55,424	63,473	232,190	1,877	439,238	205,171
Beverages.....	92	90	372	-----	35	184,059	434,274	1,038,169	42,444	2,871,338	1,740,725
Bookbinding and blank-book making.....	5	3	20	-----	15	6,380	20,654	19,548	772	89,576	69,261
Boxes, wooden, except cigar boxes.....	3	3	17	-----	117	7,200	20,772	85,346	1,337	131,371	44,638
Bread and other bakery products.....	209	169	1,706	-----	170	345,142	2,090,017	5,908,702	248,972	13,222,050	6,974,416
Brooms.....	12	1	56	-----	8	-----	53,843	105,650	1,048	219,858	112,260
Butter.....	40	106	257	-----	172	162,145	286,389	9,892,594	93,123	11,483,012	1,523,195
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	16	35	184	-----	117	45,087	72,156	507,606	7,517	818,260	303,127
Car and general construction and repairs, electric-railroad repair shops.....	7	21	199	-----	583	47,616	269,273	205,929	5,398	531,880	320,553
Car and general construction and repairs, steam-railroad repair shops.....	23	173	2,233	-----	1,590	455,241	3,617,601	2,303,124	216,019	6,593,208	4,074,065
Cheese.....	4	-----	2	-----	15	-----	(*)	68,823	1,170	69,954	0,961
Clay products (other than pottery) and nonclay refractories.....	17	52	683	-----	1,545	107,618	573,272	56,879	367,372	1,893,509	1,469,258
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	4	20	176	-----	295	47,658	112,103	262,440	3,303	489,207	223,404
Coffee and spice, roasting and grinding.....	14	45	69	-----	462	133,377	75,710	2,363,128	13,792	3,179,368	802,448
Compressed and liquefied gases.....	9	62	40	-----	1,280	108,253	61,624	207,976	71,406	945,515	666,133
Concrete products.....	13	28	124	-----	79	284	139,683	190,231	0,134	542,791	346,370
Confectionery.....	17	23	124	-----	160	51,205	99,368	492,800	11,395	883,837	370,633
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	17	17	108	-----	250	34,413	165,841	290,907	5,660	686,748	390,181
Explosives.....	4	2	5	-----	72	(*)	11,450	58,599	576	288,914	227,739
Feeds, prepared, for animals and fowls.....	11	26	84	-----	1,136	51,158	95,523	1,758,930	26,579	2,138,709	353,200
Flour and other grain-mill products.....	71	321	740	-----	7,781	8,352	735,002	858,397	23,541,750	28,602,038	4,780,201
Food preparations, not elsewhere classified.....	4	1	10	-----	5	(*)	12,739	31,917	1,595	64,077	31,165
Foundry and machine-shop products, not elsewhere classified.....	94	398	1,973	-----	2,495	1,286,125	3,193,611	5,408,972	247,926	15,467,328	9,810,430
Furniture, including store and office fixtures.....	6	25	117	-----	106	62,437	165,706	364,700	2,042	633,294	265,952
Glass.....	10	90	943	-----	1,718	324,983	1,147,719	1,900,799	341,428	5,028,276	2,786,049
Hand stamps and stencils and brands.....	3	5	10	-----	2	9,420	10,690	22,510	555	61,360	38,285
Ice cream.....	52	98	288	-----	17	2,752	214,159	363,528	1,761,415	3,707,464	1,840,527
Ice, manufactured.....	137	263	950	-----	17,109	13,824	542,616	253,773	685,635	5,364,366	4,448,948
Lumber and timber products, not elsewhere classified.....	55	162	2,883	-----	10,815	383,263	2,303,429	1,225,419	4,988	5,961,066	4,730,669
Marble, granite, slate, and other stone products.....	16	34	173	-----	230	147,082	231,035	316,570	19,091	1,245,250	909,593
Mattresses and bed springs, not elsewhere classified.....	14	19	136	-----	404	50,014	176,655	668,499	10,484	1,007,221	428,238
Models and patterns, not including paper patterns.....	45	7	7	-----	37	-----	13,136	4,746	305	37,060	32,009
Oil, cake, and meal, cottonseed.....	3	201	853	-----	4,108	412,191	647,664	16,148,179	296,400	20,052,498	3,607,826
Peanuts, walnuts, and other nuts, processed or shelled.....	4	9	77	-----	440	34,189	40,459	634,778	7,065	814,833	172,990
Petroleum refining.....	48	1,174	5,164	-----	27,775	3,085,201	7,914,449	139,968,564	2,875,386	183,681,931	40,837,981
Photo-engraving, not done in printing establishments.....	5	18	36	-----	64	87,408	97,526	33,981	5,470	336,251	296,800
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	40	93	350	-----	450	244,253	514,815	1,217,071	25,622	2,497,760	1,255,067
Poultry killing, dressing, and packing, wholesale.....	13	35	282	-----	140	55,758	230,120	3,134,031	21,348	3,743,464	588,085
Printing and publishing, book and job.....	112	212	651	-----	1,002	543,882	617,069	1,119,627	48,696	3,890,456	2,731,333
Printing and publishing, newspaper and periodical.....	216	1,547	1,806	-----	14	3,203	3,008,566	3,075,681	3,349,421	163,062	12,472,643
Pumps (hand and power) and pumping equipment.....	4	18	62	-----	227	61,393	104,180	437,371	0,711	840,427	366,345
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5	-----	10	-----	86	-----	13,188	142,427	0,783	210,256	61,040
Shirts.....	4	10	43	-----	32	24,215	32,204	387,530	1,161	636,629	247,938
Signs and advertising novelties.....	13	27	68	-----	28	63,075	138,634	129,043	5,153	561,759	427,563
Smelting and refining, zinc.....	4	74	1,406	-----	3,036	142,811	1,917,587	8,857,376	1,184,719	12,732,286	2,690,102
Stoves and ranges (other than electric) and warm-air furnaces.....	7	15	53	-----	64	29,547	49,554	122,858	1,795	256,722	132,069
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	12	161	697	-----	1,663	402,546	906,465	3,502,497	41,701	5,729,185	2,184,987
Window and door screens and weather strip.....	6	23	68	-----	130	73,868	62,221	140,666	2,788	450,730	307,266
Wirework, not elsewhere classified.....	3	5	25	-----	17	3,480	30,250	44,291	489	94,070	49,230
Other industries.....	123	1,012	5,285	-----	27,475	2,350,616	6,628,931	56,556,314	1,536,397	88,694,747	30,601,636

¹ 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.

² 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.

³ Not including data for 870 employees of central administrative offices, with salaries aggregating \$2,022,550. See GENERAL EXPLANATIONS—Persons Engaged.

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

TABLE 13.—COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR OKLAHOMA COUNTY, AND GENERAL STATISTICS, BY INDUSTRIES, FOR TULSA COUNTY: 1929

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

OKLAHOMA 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.....	201	1,862	6,552	10,175	15,523	\$4,362,510	\$8,869,483	\$68,472,804	\$926,805	\$107,030,880	\$37,637,280
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TULSA COUNTY

[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 the industries shown separately.]

All industries, total.....	220	1,843	6,137	13,154	30,046	\$4,861,040	\$9,137,383	\$50,025,858	\$1,400,701	\$86,655,480	\$35,222,921
Awnings, tents, sails, and canvas covers.....	4	11	25	---	7	15,050	28,358	33,731	674	175,334	90,929
Beverages.....	7	14	43	---	99	24,871	54,538	123,532	3,848	326,425	194,045
Bread and other bakery products.....	15	32	226	---	605	70,652	331,300	723,498	37,477	1,676,351	915,376
Car and general construction and repairs, electric-railroad repair shops.....	3	6	52	---	126	9,109	68,905	34,186	1,407	113,607	78,014
Coffee and spice, roasting and grinding.....	4	10	17	---	82	30,008	23,438	406,915	3,171	533,308	123,222
Concrete products.....	3	3	10	---	61	4,910	10,537	17,212	563	50,767	32,692
Foundry and machine-shop products, not elsewhere classified.....	35	214	1,050	2,400	5,131	775,556	1,092,630	3,455,344	128,271	9,237,619	5,654,004
Ice, manufactured.....	8	17	132	1,422	2,197	77,041	190,670	31,085	113,844	908,924	763,995
Models and patterns, not including paper patterns.....	3	---	7	---	37	---	---	4,746	305	37,090	32,009
Petroleum refining.....	4	553	1,513	8,580	8,167	1,487,472	2,407,765	35,764,789	536,988	49,785,155	13,483,378
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	10	31	112	60	717	84,760	186,687	441,299	7,510	860,970	412,161
Printing and publishing, book and job.....	27	51	152	---	222	168,429	238,126	322,526	11,236	1,157,169	823,407
Printing and publishing, newspaper and periodical.....	8	475	373	---	557	926,601	714,716	1,010,135	26,793	4,509,478	3,532,550
Signs and advertising novelties.....	4	12	47	---	6	37,663	67,589	50,977	671	299,686	241,738
Other industries.....	85	414	2,378	742	12,032	1,130,888	3,100,026	7,544,883	533,643	16,023,627	8,845,101

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.—COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR OKLAHOMA CITY, AND GENERAL STATISTICS, BY INDUSTRIES, FOR TULSA: 1929

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 ^b
				Prime movers	Electric motors driven by purchased energy						
OKLAHOMA CITY											
[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.....	245	1,822	6,312	9,833	13,672	\$4,274,930	\$8,540,696	\$67,001,970	\$797,173	\$104,424,116	\$36,624,973
TULSA											
[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 the industries shown separately. The totals for all industries do not include data for a few establishments located outside the city (see footnotes 1 and 2), and therefore are slightly smaller than the sums of the items for the individual industries.]											
All industries, total.....	177	1,048	3,087	4,054	13,369	\$2,826,652	\$4,891,334	\$9,032,210	\$512,348	\$26,820,277	\$17,275,719
Awnings, tents, sails, and canvas covers.....	4	11	25	-----	7	15,050	28,358	89,731	674	175,334	90,929
Beverages.....	7	14	43	-----	99	24,871	64,538	128,532	3,848	320,425	104,045
Bread and other bakery products.....	15	32	226	-----	605	70,652	331,300	723,498	37,477	1,076,851	915,376
Concrete products.....	3	3	10	-----	61	4,910	10,537	17,212	563	50,787	32,992
Foundry and machine-shop products, not elsewhere classified.....	29	161	706	2,400	4,494	614,311	1,179,793	2,670,154	101,079	7,154,650	4,483,417
Ice, manufactured.....	4	14	117	1,142	1,875	72,747	175,565	27,436	102,818	823,284	603,030
Models and patterns, not including paper patterns.....	3	-----	7	-----	37	-----	13,186	4,746	305	37,060	32,009
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	10	31	112	60	717	84,790	186,697	441,299	7,510	860,970	412,161
Printing and publishing, book and job.....	27	51	152	-----	222	108,429	238,126	322,526	11,236	1,157,169	823,407
Printing and publishing, newspaper and periodical.....	8	475	373	-----	557	926,601	714,716	1,010,185	26,793	4,569,478	3,532,550
Signs and advertising novelties.....	4	12	47	-----	6	37,603	67,586	56,977	971	209,686	241,738
Other industries.....	67	247	1,277	462	4,699	808,794	1,902,785	3,603,586	220,492	9,744,950	5,855,872

* See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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 Tulsa have been included in those for the city, as specified in footnotes 1 and 2, to avoid disclosing data reported by individual establishments.

¹ Includes data for 1 establishment located outside Tulsa.

² Includes data for 2 establishments located outside Tulsa.

OREGON

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers	Fuel and purchased energy		
1929	2,463	65,505	418,324	207,509	210,725	\$86,828,908	\$205,227,100	\$108,542,375	\$6,084,815	\$411,708,975	\$200,541,785
1927	1,779	57,179	330,511	188,047	150,564	75,716,972	187,771,103	182,134,441	5,030,722	342,852,371	155,081,208
1925	1,908	59,579	387,749	250,208	137,541	78,208,774	193,609,081	(⁵)	(⁵)	352,948,841	159,330,760
1923	1,909	62,655	322,207	204,579	117,718	81,768,700	195,921,895	(⁵)	(⁵)	363,715,400	167,793,565
1921	1,730	40,167	(⁵)	(⁵)	(⁵)	40,305,194	123,669,020	(⁵)	(⁵)	223,663,602	99,093,032
1919	2,707	58,559	303,795	211,219	92,576	81,003,784	206,206,041	201,354,721	4,851,320	366,782,027	160,576,586
1914	2,320	28,829	214,165	175,155	39,010	20,931,677	63,257,821	61,199,376	2,058,445	109,761,951	46,504,130
1909	2,240	28,750	174,921	160,110	14,811	19,901,934	50,552,470	48,905,268	1,647,212	93,004,845	42,452,375
1904	1,002	18,523	81,270	76,543	4,727	11,443,512	30,596,763	29,880,585	716,178	55,525,123	24,028,860
1899	1,406	14,459	59,687	57,444	2,243	6,822,011	20,788,833	(⁵)	(⁵)	36,592,714	15,803,881
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	38.4	14.6	23.2	9.9	40.0	14.7	0.3	0.0	18.6	20.1	33.2
1925-1927	-6.8	-4.0	-12.4	-24.5	9.5	-3.2	-3.0	-	-	-2.9	-2.7
1923-1925	-0.1	-4.9	20.3	22.3	16.8	-4.4	-1.2	-	-	-3.0	-5.0
1921-1923	10.3	56.0	-	-	-	65.5	58.4	-	-	62.6	67.8
1919-1921	-36.1	-31.4	-	-	-	-30.1	-40.0	-	-	-39.0	-37.7
1919-1929	-9.0	11.9	37.7	-1.7	127.6	7.1	-0.5	-1.4	37.8	12.3	28.6
1909-1919	20.5	103.7	73.7	31.9	525.0	307.5	307.0	311.7	294.5	294.4	278.3
1899-1909	59.7	98.8	193.1	178.7	500.3	191.7	145.2	-	-	154.2	108.6

¹ Not including salaried employees.
² 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.
³ 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.
⁴ Not reported separately.
⁵ Not called for on schedule.
⁶ No comparable data.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY OR CITY	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (aver- age for the year) ¹	Horse- power ²	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manu- facture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	953, 786	2, 463	65, 505	418, 324	\$86, 828, 968	\$205, 227, 190	\$198, 542, 375	\$6, 684, 815	\$411, 708, 975	\$209, 541, 785
<i>Counties ³</i>										
Baker.....	16, 754	30	481	3, 922	596, 852	1, 478, 774	1, 312, 084	166, 690	2, 578, 783	1, 100, 009
Benton.....	14, 555	57	832	4, 887	908, 165	1, 105, 164	1, 072, 837	32, 327	2, 866, 209	1, 761, 045
Clackamas.....	46, 205	88	2, 183	80, 903	3, 035, 520	10, 182, 259	8, 789, 983	1, 392, 276	19, 686, 678	9, 504, 419
Clatsop.....	21, 124	78	2, 583	11, 257	4, 064, 694	9, 468, 328	9, 371, 308	97, 020	18, 109, 978	8, 641, 050
Columbia.....	20, 047	48	2, 892	14, 581	4, 147, 470	6, 831, 372	6, 081, 482	149, 890	16, 691, 447	9, 800, 076
Coos.....	28, 373	89	3, 470	28, 337	4, 651, 233	6, 559, 374	6, 367, 364	192, 010	15, 731, 081	9, 172, 007
Crook.....	3, 336	5	45	335	45, 907	84, 184	80, 626	3, 558	179, 551	95, 367
Curry.....	3, 257	10	27	168	38, 040	241, 424	235, 994	5, 430	385, 306	143, 832
Douglas.....	21, 965	51	990	7, 979	1, 178, 349	2, 070, 627	2, 036, 015	34, 612	4, 633, 171	2, 512, 544
Harney.....	5, 920	5	13	240	14, 944	9, 426	8, 033	793	41, 844	32, 418
Hood River.....	8, 938	14	333	1, 498	391, 622	474, 032	464, 280	9, 752	1, 366, 046	892, 014
Jackson.....	32, 918	60	1, 286	9, 370	1, 632, 347	2, 352, 457	2, 102, 435	250, 022	5, 857, 345	3, 504, 888
Josephine.....	11, 498	25	199	2, 029	242, 010	527, 929	515, 359	12, 570	1, 050, 424	522, 495
Klamath.....	32, 407	58	4, 850	23, 429	7, 127, 649	5, 863, 402	5, 607, 791	255, 611	18, 690, 276	12, 820, 874
Lake.....	4, 833	15	168	1, 266	221, 115	260, 092	257, 847	3, 345	829, 815	509, 123
Lane.....	54, 493	161	3, 839	26, 052	4, 578, 699	5, 591, 188	5, 379, 698	211, 690	15, 056, 136	9, 404, 948
Lincoln.....	9, 903	17	916	7, 343	1, 515, 746	998, 878	989, 300	9, 578	4, 632, 794	3, 033, 916
Linn.....	24, 700	75	940	6, 182	1, 013, 614	3, 170, 123	3, 062, 146	107, 977	5, 463, 192	2, 293, 069
Malheur.....	11, 269	11	21	116	23, 418	94, 306	91, 614	2, 782	177, 445	83, 049
Marion.....	60, 541	122	3, 829	24, 535	4, 176, 894	12, 140, 852	11, 648, 110	492, 742	23, 486, 645	11, 345, 793
Morrow.....	4, 941	6	18	372	21, 650	64, 646	62, 704	1, 942	120, 730	56, 084
Multnomah ⁴	338, 241	1, 087	24, 427	107, 935	32, 652, 810	100, 849, 523	107, 215, 044	2, 034, 470	106, 707, 713	86, 858, 190
Polk.....	16, 858	50	1, 559	7, 951	1, 960, 670	2, 236, 662	2, 199, 230	37, 432	6, 940, 217	4, 703, 555
Tillamook.....	11, 824	48	1, 339	6, 024	1, 800, 338	3, 583, 656	3, 521, 572	62, 084	6, 615, 733	3, 032, 097
Umatilla.....	24, 399	38	449	3, 065	526, 339	5, 715, 813	5, 623, 666	92, 147	7, 250, 263	1, 534, 450
Union.....	17, 492	33	1, 201	7, 492	1, 670, 635	1, 779, 840	1, 712, 503	67, 337	5, 099, 661	3, 319, 821
Wallowa.....	7, 814	11	235	1, 164	306, 132	127, 031	125, 174	1, 857	546, 565	419, 534
Wasco.....	12, 646	18	304	2, 140	393, 446	2, 197, 527	2, 143, 606	54, 021	3, 352, 432	1, 154, 005
Washington.....	30, 275	58	1, 511	6, 528	1, 912, 820	4, 224, 495	4, 169, 169	55, 326	8, 314, 868	4, 090, 373
Yamhill.....	22, 036	62	1, 462	6, 849	1, 668, 275	4, 247, 890	4, 089, 775	158, 115	8, 225, 275	3, 977, 385
All other counties ⁵	32, 224	33	2, 993	14, 425	4, 249, 204	1, 695, 226	1, 605, 728	89, 500	11, 129, 532	9, 434, 306
<i>Cities having 10,000 inhabitants or more</i>										
Astoria.....	10, 349	54	670	3, 974	884, 249	4, 453, 037	4, 376, 915	76, 122	6, 851, 870	2, 398, 833
Eugene.....	18, 901	45	891	5, 367	1, 007, 878	2, 942, 061	2, 816, 287	125, 774	5, 042, 582	2, 100, 521
Klamath Falls.....	16, 093	27	1, 294	9, 072	2, 011, 239	2, 099, 930	1, 990, 362	109, 568	5, 574, 251	3, 474, 321
Medford.....	11, 007	29	231	1, 229	284, 552	885, 760	848, 470	37, 290	1, 649, 214	763, 454
Portland ⁶	301, 815	1, 039	21, 380	93, 261	28, 472, 917	92, 417, 853	90, 034, 368	2, 383, 545	169, 821, 295	77, 403, 442
Salem.....	26, 266	62	2, 201	15, 240	2, 205, 880	8, 188, 704	7, 766, 766	421, 938	15, 347, 291	7, 158, 687

¹ Not including salaried employees.

² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

³ 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.

⁴ For statistics by industries for this county, see Table 13.

⁵ Deschutes, Gilliam, Grant, Sherman, and Wheeler Counties. (See footnote 3.) No manufacturing reported from Jefferson County.

⁶ 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 ¹	75, 567	65, 871	9, 696	1, 702	1, 612	90	² 1, 381	² 1, 287	² 94	² 6, 979	² 5, 232	² 1, 747	65, 505	³ 57, 740	³ 7, 765
1919 ^{1,4}	68, 005	61, 519	6, 486	2, 540	2, 463	77	917	878	39	5, 989	4, 432	1, 557	58, 559	53, 746	4, 813
1914 ⁴	35, 449	32, 025	2, 824	2, 189	2, 117	72	537	527	10	3, 894	3, 216	678	28, 829	26, 765	2, 064
1909.....	34, 722	31, 849	2, 873	2, 499	2, 453	46	344	340	4	3, 129	2, 576	553	28, 750	26, 480	2, 270

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

² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 88; male, 87; female, 1. Other salaried officers and employees—total, 465; male, 345; 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.

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

⁴ 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 ¹	65,505	<i>52,801</i>	54,245	60,345	63,085	65,502	71,020	72,380	72,011	75,057	72,854	66,378	60,382	70.3
1919	58,559	55,393	54,251	47,708	59,180	61,804	61,122	61,865	62,488	60,201	60,041	68,399	<i>49,499</i>	79.2
1914	28,829	26,154	26,715	25,527	30,806	31,666	31,540	31,096	30,505	29,243	28,421	26,581	<i>24,316</i>	73.5
1909	28,750	<i>23,354</i>	24,838	26,859	29,179	30,302	30,806	30,175	30,269	30,978	30,402	20,423	28,410	75.4

¹ 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.....	2,463	65,505	45 and over but under 48.....	43	487
Not reported.....	103	250	48.....	1,366	45,975
Under 40.....	32	91	Over 48 but under 54.....	50	1,083
40.....	61	2,729	54.....	121	3,728
Over 40 but under 44.....	11	45	Over 54 but under 60.....	84	1,465
44 and over but under 46.....	419	4,800	60 and over.....	173	4,846

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.....	2,463	2,707	2,240	65,505	58,559	28,750	51 to 100.....	100	84	59	7,206	6,090	4,225
No wage earners.....	104	388	232				101 to 250.....	74	81	39	11,798	12,023	5,944
1 to 5.....	1,300	1,421	1,310	3,244	3,136	2,938	251 to 500.....	44	26	13	15,461	8,609	4,335
6 to 20.....	609	526	449	6,571	6,854	4,757	501 to 1,000.....	14	12	3	9,841	8,194	1,822
21 to 50.....	214	165	141	6,843	5,476	4,729	1,001 to 2,500.....	4			4,451		
							2,501 and over.....		4			8,577	

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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	2,463	2,707	2,246	65,505	58,559	28,750	\$411,768,975	\$366,782,027	\$93,004,845	\$206,541,785	\$160,576,586	\$42,452,375
Less than \$5,000.....	(2)	664	789	(2)	373	957	(2)	1,691,344	1,926,913	(2)	1,179,409	1,343,938
\$5,000 to \$19,999.....	1,070	851	786	2,450	2,229	3,214	10,674,335	9,077,091	8,203,981	7,055,396	5,884,548	5,082,474
\$20,000 to \$99,999.....	824	712	482	7,389	6,130	7,104	39,342,801	31,975,448	21,453,056	21,912,910	16,214,557	11,026,549
\$100,000 to \$499,999.....	491	(3)	(3)	3,148	(3)	(3)	15,707,503	(3)	(3)	9,275,440	(3)	(3)
\$50,000 to \$99,999.....	333	(3)	(3)	4,191	(3)	(3)	23,035,298	(3)	(3)	12,637,470	(3)	(3)
\$100,000 to \$499,999.....	393	343	(3)	13,775	14,296	(3)	84,257,777	77,258,954	(3)	39,341,502	33,605,764	(3)
\$100,000 to \$249,999.....	280	(3)	(3)	7,313	(3)	(3)	44,633,964	(3)	(3)	21,740,141	(3)	(3)
\$250,000 to \$499,999.....	113	(3)	181	6,459	(3)	15,110	39,023,813	(3)	47,022,078	17,601,361	(3)	20,766,801
\$500,000 to \$999,999.....	89	68	(3)	10,693	8,030	(3)	62,931,642	46,693,045	(3)	32,654,212	21,081,227	(3)
\$1,000,000 and over.....	87	69	8	31,248	26,901	2,365	214,582,420	209,086,747	14,398,817	105,577,765	82,671,091	4,682,613
\$1,000,000 to \$2,499,999.....	62	(3)	(3)	17,838	(3)	(3)	100,080,456	(3)	(3)	48,896,038	(3)	(3)
\$2,500,000 to \$4,999,999.....	19	(3)	(3)	11,541	(3)	(3)	67,692,725	(3)	(3)	40,203,638	(3)	(3)
\$5,000,000 and over.....	6	(3)	(3)	1,871	(3)	(3)	46,183,239	(3)	(3)	16,478,089	(3)	(3)

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

² No data.

³ 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	1929	1929	1919
Total.....	2,463	2,707	65,505	58,559	\$411,768,975	\$366,782,627	\$206,541,785	\$160,576,586
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1,133	934	57,965	50,860	372,647,561	322,331,966	185,017,942	140,118,244
Other forms of ownership or control (individual, partnership, etc.).....	1,330	1,773	7,540	7,699	39,121,424	44,450,661	21,523,843	20,458,342
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	293	(1)	21,826	(1)	172,106,460	(1)	70,767,196	(1)
Independent (single-unit).....	2,200	(1)	43,679	(1)	239,602,515	(1)	135,774,589	(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 IMPORTANT COUNTIES, 1929

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Prime movers								Electric motors driven by purchased energy				
		Total horsepower of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horse-power
The State:			Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power
1929.....	418,324	207,509	72	83,738	79	75,039	83	2,238	103	46,584	18,681	210,725	4,738	91,011
1927.....	339,511	188,947	764	77,078	65	59,421	91	1,872	124	50,676	13,293	150,564	4,636	100,205
1925.....	387,749	250,208	1,057	135,933	46	57,406	148	6,782	129	50,087	11,351	137,541	3,861	91,799
1919 ¹	303,765	211,219	1,050	140,649	42	25,161	250	2,166	188	43,252	7,544	92,576	1,251	25,611
1914 ¹	214,165	175,155	1,308	116,561	(2)	(2)	133	1,289	278	57,275	3,469	39,010	468	9,729
Counties in which aggregate horsepower exceeded 25,000: 1929														
Clackamas.....	80,903	50,164	70	5,467	4	2,640	2	42	50	42,015	812	30,739	339	7,227
Coos.....	28,337	18,676	42	3,822	6	14,674	7	180			760	9,661	340	1,114
Lane.....	28,052	16,204	165	13,773	5	2,289	9	142	1	(1)	780	9,848	317	6,185
Multnomah.....	107,935	22,138	105	10,302	10	10,714	8	124	10	998	10,793	85,797	649	8,343

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 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

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	418,324	207,509	210,725	91,011	Lane.....	28,052	16,204	9,848	6,185
Baker.....	3,922	986	2,936	200	Lincoln.....	7,843	6,757	586	6,772
Benton.....	4,857	3,126	1,761		Linn.....	6,182	3,125	3,057	
Clackamas.....	80,903	50,164	30,739	7,227	Malheur.....	116	20	90	
Coos.....	11,257	7,922	3,835	4,923	Marion.....	24,535	8,999	15,536	3,585
Clatsop.....	14,531	11,538	2,943	9,922	Morrow.....	372	238	134	
Columbia.....					Multnomah.....	107,935	22,138	85,797	8,343
Coos.....	28,337	18,676	9,661	1,114	Polk.....	7,951	4,893	3,058	5,099
Crook.....	335	215	120		Tillamook.....	6,024	4,750	1,274	4,927
Curry.....	168	128	40		Umatilla.....	3,065	637	2,428	43
Douglas.....	7,979	4,646	3,333	1,303	Union.....	7,492	5,886	2,106	270
Harney.....	240	196	44		Wallowa.....	1,104	990	174	300
Hood River.....	1,498	1,200	208	1,230	Wasco.....	2,140	220	1,920	
Jackson.....	9,370	3,380	5,490	4,500	Washington.....	6,528	4,943	1,585	76
Josephine.....	2,029	1,440	589		Yamhill.....	6,849	4,073	2,776	568
Klamath.....	23,429	4,694	18,735	3,281	All other counties ²	14,425	14,060	366	21,078
Lake.....	1,266	1,215	51						

¹ Horsepower of electric motors driven by energy generated in establishments reporting.
² Deschutes, Gilliam, Grant, Sherman, and Wheeler Counties. No manufacturing reported from Jefferson 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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 pounds).....	60, 169	\$303, 005	59, 537	104, 501	74, 730	10, 477	18, 075
Anthracite (tons, 2,240 pounds).....	911	12, 010	(3)	1, 118	1, 825	1, 821	462
Bituminous (tons, 2,000 pounds).....	68, 140	351, 595	(3)	103, 249	72, 695	14, 437	18, 158
Coke (tons, 2,000 pounds).....	4, 804	63, 344	(3)	(3)	10, 970	0, 100	5, 808
Fuel oils, including crude oils and gas oils (gallons) ³	88, 418, 805	2, 740, 056	(3)	(3)	50, 719, 278		
Gasoline and kerosene (gallons) ³	324, 593	55, 775	(3)	(3)	834, 666	39, 495, 834	25, 103, 082
Gas, natural (M cubic feet).....			(3)	(3)			
Gas, manufactured (M cubic feet).....	133, 473	102, 935	(3)	(3)	402, 457	61, 988	25, 821
Other fuels.....		548, 435	(3)	(3)			
Electric energy purchased (kilowatt-hours).....	315, 759, 337	3, 418, 700	(3)	(3)	(3)	(3)	(3)
Total cost of fuel and purchased energy.....		7, 730, 916	Cost \$5, 636, 722	Cost (3)	Cost \$4, 851, 320	Cost \$2, 058, 445	Cost \$1, 647, 212

¹ No data on cost of fuel, by kinds, were collected for years prior to 1929.
² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.
³ Not tabulated separately.
⁴ No data.
⁵ For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.
⁶ Data incomplete.
⁷ 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.
⁸ 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	Num-ber of estab-lish-ments	Salaried officers and em-ployees	Wage earners (aver-age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and con-tainers for products ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manu-facture ¹
				Prime movers	Electric motors driven by pur-chased energy						
All industries, total.....	2, 463	8, 360	65, 505	207, 599	210, 725	\$19, 412, 571	\$80, 828, 908	\$198, 642, 376	\$0, 684, 815	\$411, 708, 975	\$200, 541, 785
Beverages.....	29	39	82	18	292	91, 132	120, 541	260, 908	10, 414	762, 907	479, 045
Bookbinding and blank-book making.....	6	12	37		47	30, 179	68, 071	10, 117	1, 032	148, 722	127, 073
Boxes, paper, not elsewhere classified.....	9	36	219	45	231	89, 927	221, 410	370, 917	7, 244	866, 513	470, 852
Boxes, wooden, except cigar boxes.....	20	31	270	525	1, 982	53, 807	320, 476	1, 020, 405	19, 712	1, 607, 923	467, 740
Bread and other bakery products.....	218	234	1, 047	112	2, 590	485, 013	2, 100, 436	5, 303, 252	277, 704	10, 888, 261	5, 307, 308
Brooms.....	5	7	45	62	45	19, 347	40, 867	105, 000	2, 266	205, 584	97, 818
Brushes, other than rubber.....	4	7	35		59	14, 837	32, 624	73, 818	1, 280	183, 074	107, 976
Butter.....	81	142	403	323	2, 078	268, 928	557, 542	9, 440, 077	149, 050	11, 773, 909	2, 178, 782
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	19	43	333	419	503	133, 070	434, 065	3, 513, 344	31, 487	5, 077, 353	1, 532, 522
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	77	276	4, 101	429	3, 785	540, 900	2, 582, 478	15, 934, 775	165, 405	24, 603, 741	8, 503, 561
Car and general construction and repairs, steam-railroad repair shops.....	16	100	2, 558	1, 102	5, 735	412, 258	3, 976, 178	3, 800, 058	188, 008	8, 404, 488	4, 409, 222
Cheese.....	38	26	110	48	357	51, 987	167, 164	2, 043, 529	34, 885	3, 492, 616	514, 202
Clay products (other than pottery) and nonclay refractories.....	18	28	203	435	1, 261	57, 099	224, 620	20, 775	98, 543	624, 705	490, 447
Cleaning and polishing preparations.....	3	1	2		5	(*)	2, 300	10, 250	70	22, 798	12, 478
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	11	53	488		171	71, 760	441, 458	1, 059, 652	10, 768	2, 101, 744	1, 031, 324
Clothing, women's, not elsewhere classified.....	20	53	505		74	110, 764	452, 804	1, 329, 448	9, 077	2, 434, 922	1, 099, 397
Coffee and spice, roasting and grinding.....	12	36	73		540	102, 964	90, 035	2, 697, 302	19, 224	3, 473, 270	786, 744
Compressed and liquefied gases.....	4	20	13		457	26, 256	21, 436	29, 320	16, 037	207, 362	102, 005
Concrete products.....	22	38	101	19	654	90, 936	133, 441	247, 412	0, 703	689, 420	382, 210
Condensed and evaporated milk.....	4	21	80	190	396	36, 674	91, 039	2, 204, 452	40, 706	2, 634, 680	380, 422
Confectionery.....	35	84	402	80	515	135, 080	360, 264	1, 036, 809	24, 418	2, 173, 233	1, 092, 066
Copperage.....	3	5	16		80	5, 172	20, 180	51, 861	1, 612	97, 492	44, 019
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	56	67	298		263	143, 749	404, 008	743, 234	10, 530	1, 586, 974	833, 210
Electrical machinery, apparatus, and supplies.....	7	15	61		44	38, 353	90, 735	143, 338	5, 877	313, 068	163, 853
Electroplating.....	4	4	8		64	3, 748	12, 848	5, 793	2, 488	41, 739	33, 458
Engraving, steel and copperplate, and plate printing.....	4	1	13		86	(*)	15, 374	20, 479	623	85, 963	64, 801
Feeds, prepared, for animals and fowls.....	24	140	262	224	3, 509	299, 053	328, 840	5, 505, 115	58, 552	7, 023, 856	1, 400, 189
Flavoring extracts and flavoring sirups.....	9	18	26	10	62	33, 000	37, 307	113, 985	1, 447	237, 417	121, 985
Flour and other grain-mill products.....	43	172	514	1, 892	7, 888	337, 123	724, 496	17, 680, 476	162, 273	21, 145, 298	3, 293, 540
Food preparations, not elsewhere classified.....	15	29	56		154	59, 816	57, 611	497, 433	15, 631	802, 115	379, 051
Foundry and machine-shop products, not else-where classified.....	120	507	1, 981	60	8, 848	1, 219, 473	3, 059, 257	4, 309, 742	215, 321	13, 277, 562	8, 752, 490
Fur goods.....	12	15	35		13	38, 393	48, 990	128, 271	2, 457	310, 720	179, 998
Furniture, including store and office fixtures.....	47	184	2, 095	1, 271	4, 681	507, 599	2, 639, 149	4, 113, 092	86, 460	8, 923, 022	4, 723, 470
Gas and electric fixtures; lamps, lanterns, and reflectors.....	4	15	19		20	24, 461	33, 122	76, 653	853	143, 422	65, 916
Gas, manufactured, illuminating and heating.....	10	433	410	1, 390	4, 475	784, 039	683, 001	1, 198, 666	620, 283	6, 055, 927	4, 236, 078
Glass products (except mirrors) made from pur-chased glass.....	4	3	12		7	4, 524	13, 309	15, 424	206	39, 857	24, 137

See footnotes at end of this 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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
Hand stamps and stencils and brands	4	3	12		11	\$7,200	\$11,010	\$17,417	\$625	\$64,648	\$46,606
Ice cream	19	36	145		1,298	57,565	219,187	797,400	40,527	1,771,874	924,017
Ice, manufactured	26	48	126	398	4,418	135,439	205,770	36,251	65,320	865,926	724,355
Iron and steel: Steel works and rolling mills	2	56	250		1,084	159,485	375,377	198,478	63,055	1,149,351	881,778
Jewelry	10	4	34		20	4,164	60,227	41,472	306	161,393	119,405
Knit goods	5	152	311		173	387,289	451,687	1,077,035	12,528	4,827,477	2,837,014
Leather goods, not elsewhere classified	4	3	14		27	6,880	15,900	38,674	609	72,408	35,125
Leather: Tanned, curried, and finished	5	6	35	16	260	5,600	40,327	110,554	4,471	228,860	107,835
Lumber and timber products, not elsewhere classified	608	1,744	34,832	142,242	63,416	5,120,580	48,310,158	40,017,480	963,381	136,589,812	95,608,951
Marble, granite, slate, and other stone products	11	23	87		944	93,678	158,278	170,169	10,533	614,271	433,569
Mattresses and bed springs, not elsewhere classified	8	27	113	6	523	70,016	134,024	372,488	6,833	723,937	344,666
Meat packing, wholesale	26	107	646	549	4,129	470,199	933,945	15,445,453	149,828	18,745,443	3,150,242
Millinery	6	28	130		14	75,318	122,795	136,919	2,068	429,787	290,770
Mirrors, framed and unframed	4	7	21		80	27,443	36,922	139,584	2,693	242,266	99,080
Models and patterns, not including paper patterns	7	3	39		123	7,924	64,860	15,830	1,695	122,855	105,330
Motor-vehicle bodies and motor-vehicle parts	9	25	97		151	59,118	101,965	261,421	5,970	521,353	253,902
Nonferrous-metal alloys and products, not including aluminum products	11	22	69	5	225	58,911	100,503	310,464	12,493	561,613	238,656
Paints and varnishes	12	23	128		442	40,082	163,326	935,588	7,784	1,450,738	607,306
Paper	5	144	1,115	50,322	40,084	374,236	1,728,423	7,324,066	1,176,487	16,229,279	7,725,732
Pulp (wood and other fiber)	8	71	734			154,486	1,127,369	3,047,216	594,855	6,775,490	2,633,359
Paper goods, not elsewhere classified	7	62	172		680	129,695	203,197	986,880	21,235	1,649,716	641,601
Patent or proprietary medicines and compounds	10	10	23	15	111	12,825	22,471	103,778	1,352	228,082	122,952
Photo-engraving, not done in printing establishments	10	35	60		95	105,880	113,584	42,874	4,605	391,631	344,152
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	64	183	1,455	925	11,417	485,542	1,859,330	4,616,326	100,978	8,500,049	3,723,345
Poultry killing, dressing, and packing, wholesale	11	23	78	10	98	42,931	78,164	1,406,980	4,601	1,697,894	280,307
Printing and publishing, book and job	136	263	665		1,248	617,306	1,060,303	1,209,113	42,727	4,240,339	2,997,499
Printing and publishing, newspaper and periodical	157	1,398	1,093	15	2,804	2,388,250	2,062,143	2,329,179	118,396	11,141,320	8,693,745
Saddlery and harness	10	21	116		262	57,828	171,526	308,269	4,986	741,917	338,062
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	6	5	19		104	8,990	34,535	248,776	5,087	347,405	93,542
Ship and boat building, steel and wooden, including repair work	13	20	293	500	1,750	70,014	467,337	373,515	12,455	797,758	411,788
Shirts	7	21	317	140	18	46,190	312,730	973,250	3,713	1,544,316	567,353
Signs and advertising novelties	8	55	133		48	130,641	206,700	204,300	4,487	821,426	612,639
Sporting and athletic goods, not including firearms or ammunition	5	3	32	1	10	4,354	24,837	21,299	406	75,937	54,232
Statuary and art goods, factory product	3	2	9		6	(*)	13,007	6,004	272	37,174	30,298
Stoves and ranges (other than electric) and warm-air furnaces	10	20	185		456	68,335	295,856	269,804	17,599	956,147	608,744
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	10	37	179		1,079	73,482	230,995	437,395	15,779	922,324	469,150
Surgical and orthopedic appliances, including artificial limbs	4	2	15		11	(*)	17,874	21,009	663	63,192	41,520
Trimnings (not made in textile mills) and stamped art goods for embroidering	4		25		21		22,121	8,900	1,306	58,931	48,725
Vinegar and cider	6	8	34		179	16,511	34,008	112,943	3,856	207,393	90,594
Window shades and fixtures	6	11	29		94	21,758	33,365	183,763	1,461	305,168	110,944
Wood preserving	5	22	147	2,180	702	64,515	212,944	1,828,656	43,598	2,607,866	735,612
Wood turned and shaped and other wooden goods, not elsewhere classified	10	16	80	100	531	25,375	86,849	209,926	8,607	441,834	223,301
Woolen goods	8	81	977	1,145	1,634	212,095	1,000,871	1,832,521	80,014	4,307,667	2,888,232
Other industries	143	467	2,618	286	16,795	1,195,980	3,246,352	22,641,594	646,150	35,149,762	11,862,018

¹ 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.

² 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.

³ Not including data for 559 employees of central administrative offices, with salaries aggregating \$1,329,120. See GENERAL EXPLANATIONS—Persons Engaged.

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

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TABLE 13.—GENERAL STATISTICS, BY INDUSTRIES, FOR MULTNOMAH COUNTY: 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
MULTNOMAH COUNTY											
All industries, total	1,087	5,034	24,427	22,138	86,797	\$11,227,056	\$32,652,810	\$107,216,044	\$2,034,470	\$190,707,713	\$86,868,190
Beverages	6	26	50	---	212	76,592	83,325	148,426	8,478	406,427	309,623
Bookbinding and blank-book making	6	12	37	---	47	30,170	58,071	19,117	1,032	148,722	127,073
Boxes, wooden, except cigar boxes	8	8	56	---	314	13,620	56,163	162,434	5,120	207,084	160,624
Bread and other bakery products	121	179	1,115	105	1,681	367,060	1,526,885	3,504,415	170,337	7,605,315	3,830,603
Brooms	5	7	45	62	45	19,347	40,867	100,000	2,260	205,684	97,318
Brushes, other than rubber	4	7	35	---	59	14,837	32,624	73,818	1,280	183,074	107,076
Butter	10	32	100	125	907	63,614	148,032	2,150,810	25,718	2,685,173	502,045
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	16	47	930	107	818	122,000	675,059	4,799,032	41,323	7,092,460	2,252,106
Clay products (other than pottery) and nonclay refractories	3	7	52	285	375	28,830	71,116	3,568	37,007	222,011	181,736
Cleaning and polishing preparations	3	1	2	---	5	(1)	2,300	10,250	70	22,798	12,478
Clothing, women's not elsewhere classified	20	53	505	---	74	110,764	452,804	1,326,443	9,077	2,434,022	1,090,397
Coffee and spice, roasting and grinding	12	36	73	---	540	102,904	90,035	2,067,302	19,224	3,473,270	780,744
Compressed and liquefied gases	4	20	13	---	457	26,256	21,436	20,320	16,037	207,302	102,005
Concrete products	10	19	51	3	311	60,918	71,114	160,738	4,444	382,443	211,201
Confectionery	31	84	387	80	610	135,080	353,080	1,069,445	24,413	2,132,495	1,038,032
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	52	67	283	---	260	143,740	390,527	725,588	10,471	1,541,570	805,511
Electrical machinery, apparatus, and supplies	7	15	61	---	44	38,303	90,783	143,338	5,877	313,068	163,853
Electroplating	4	4	8	---	64	3,743	12,848	5,793	2,488	41,730	33,458
Engraving, steel and copperplate, and plate printing	4	1	13	---	80	(1)	15,374	20,479	623	85,903	64,801
Feeds, prepared, for animals and fowls	9	118	214	---	2,693	261,588	263,066	4,682,610	45,011	5,825,187	1,197,660
Flavoring extracts and flavoring sirups	9	18	26	10	62	33,000	37,397	113,086	1,447	237,417	121,085
Flour and other grain-mill products	7	73	258	---	3,156	142,032	404,042	8,396,230	62,866	10,172,110	1,713,014
Food preparations, not elsewhere classified	15	29	56	---	154	69,816	57,011	497,433	15,931	892,115	780,051
Foundry and machine-shop products, not elsewhere classified	84	450	1,650	60	7,740	1,099,715	2,594,898	3,710,238	181,514	11,716,410	7,818,007
Fur goods	12	15	35	---	13	38,393	48,990	128,271	2,457	310,726	179,998
Furniture, including store and office fixtures	40	160	1,058	1,196	3,771	470,357	2,500,024	4,000,224	75,332	8,540,363	4,404,807
Gas and electric fixtures; lamps, lanterns, and reflectors	4	15	10	---	20	24,401	33,122	76,053	853	143,422	65,910
Glass products (except mirrors) made from purchased glass	4	3	12	---	7	4,524	13,309	15,424	206	39,857	24,137
Hand stamps and stencils and brands	4	3	12	---	11	7,200	11,010	17,417	625	64,648	40,600
Ice cream	8	18	116	---	992	34,048	173,215	616,804	35,473	1,203,704	642,427
Ice, manufactured	8	21	44	---	1,093	80,245	77,100	8,070	45,610	308,712	344,126
Iron and steel: Steel works and rolling mills	3	50	250	1,084	1,084	159,485	375,377	198,478	63,095	1,143,351	881,778
Knit goods	5	162	611	---	173	387,289	451,087	1,077,035	12,523	4,827,477	2,837,014
Leather goods, not elsewhere classified	4	3	14	---	27	6,080	15,000	38,674	609	72,408	33,125
Lumber and timber products, not elsewhere classified	23	202	4,981	16,524	17,125	749,111	7,043,614	10,999,968	286,723	24,773,844	13,487,153
Marble, granite, slate, and other stone products	7	18	74	---	659	83,881	136,232	154,768	7,334	545,433	383,031
Meat packing, wholesale	14	160	527	537	3,323	394,422	745,488	13,112,075	122,075	15,834,241	2,599,491
Millinery	6	28	130	---	14	75,318	136,919	122,795	2,098	420,787	299,770
Mirrors, framed and unframed	4	7	21	---	80	27,443	36,922	139,554	2,093	242,260	99,989
Models and patterns, not including paper patterns	7	3	39	---	123	7,924	15,830	64,860	1,695	122,855	105,330
Nonferrous-metal alloys and products, not including aluminum products	8	18	64	---	163	51,851	90,027	297,385	11,170	517,685	299,130
Paints and varnishes	12	23	128	---	442	40,082	163,326	935,538	7,784	1,460,738	507,366
Photo-engraving not done in printing establishments ¹	10	35	60	---	95	105,880	113,554	42,874	4,605	301,631	344,152
Planing-mill products (including general millwork) not made in planing mills connected with sawmills	26	120	1,009	305	7,701	325,064	1,277,068	3,280,502	118,373	5,982,657	2,583,782
Printing and publishing, book and job	100	225	591	---	1,050	545,707	955,206	1,007,701	35,741	3,091,943	2,583,501
Printing and publishing, newspaper and periodical	52	1,020	590	2	1,794	1,031,832	1,255,185	1,870,870	64,638	7,776,418	5,840,910
Saddlery and harness	6	6	49	---	138	17,666	71,195	191,134	2,789	322,081	128,798
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	6	5	10	---	104	8,990	34,535	248,776	5,087	347,405	93,542
Ship and boat building, steel and wooden, including repair work	5	21	229	325	982	54,356	367,048	283,542	7,889	508,258	270,827
Shirts	7	21	317	140	18	48,190	812,730	973,280	3,713	1,544,316	507,353
Signs and advertising novelties	8	55	133	---	48	130,841	206,780	204,300	4,487	821,426	612,639
Statuary and art goods, factory product	3	2	9	---	6	(1)	13,007	6,604	272	37,174	30,298
Stoves and ranges (other than electric) and warm-air furnaces	12	23	159	---	390	51,343	201,661	213,005	15,432	825,907	596,870
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	10	37	179	---	1,079	73,482	230,995	437,395	15,770	922,324	469,160
Surgical and orthopedic appliances, including artificial limbs	4	2	15	---	11	(1)	17,874	21,009	663	63,192	41,520
Trimnings (not made in textile mills) and stamped art goods for embroidering	4	---	25	---	21	---	---	8,900	1,306	58,981	48,725
Window shades and fixtures	6	11	20	---	94	21,758	33,365	135,793	1,461	305,168	119,944
Other industries ²	205	1,201	5,950	2,212	21,647	2,028,792	7,824,451	30,876,870	979,623	54,041,137	22,184,636

^a See GENERAL EXPLANATION—Duplication in Cost of Materials and Value of Products.

^b 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.

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

² The figures for the "Photo-engraving, not done in printing establishments" 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.

³ See footnote 2.

CENSUS OF MANUFACTURES: 1929

TABLE 14.—GENERAL STATISTICS FOR PORTLAND, 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PORTLAND											
[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.....	1,030	4,680	21,380	14,092	78,260	\$10,348,811	\$28,472,917	\$90,084,308	\$2,383,545	\$109,821,295	\$77,403,442
Beverages.....	6	25	50		212	76,562	83,325	148,426	8,478	466,427	300,523
Bookbinding and blank-book making.....	0	12	37		47	30,179	58,071	19,117	1,932	148,722	127,673
Bread and other bakery products ¹	121	179	1,115	105	1,681	367,060	1,526,885	3,504,415	170,337	7,505,315	3,830,563
Brooms.....	5	7	45	62	45	19,347	40,867	106,000	2,266	295,584	97,318
Brushes, other than rubber.....	4	7	36		50	14,837	32,624	73,818	1,280	189,074	107,976
Butter.....	10	32	100	125	907	63,614	148,032	2,156,810	25,718	2,685,173	602,645
Cleaning and polishing preparations.....	3	1	2		5			10,250	70	22,708	12,478
Clothing, women's, not elsewhere classified.....	20	53	605		74	110,704	452,804	1,326,448	9,077	2,434,922	1,099,307
Coffee and spices, roasting and grinding.....	12	36	73		540	102,064	90,035	2,667,302	19,224	3,473,270	786,744
Compressed and liquefied gases.....	4	20	13		457	26,256	21,436	29,320	16,037	207,362	162,006
Concrete products.....	10	10	51	3	311	60,918	71,114	166,738	4,444	382,443	211,261
Confectionery.....	31	84	387	80	510	135,080	363,080	1,069,445	24,418	2,132,405	1,038,632
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	52	67	283		260	143,749	300,527	728,588	10,471	1,541,570	805,511
Electrical machinery, apparatus, and supplies.....	7	15	61		44	38,303	90,783	143,338	5,877	313,068	163,853
Electroplating.....	4	4	8		64	3,748	12,848	8,793	2,488	41,739	33,458
Engraving, steel and copperplate, and plate printing.....	4	1	13		86	(?)	15,374	20,479	623	85,093	64,861
Feeds, prepared, for animals and fowls.....	0	118	214		2,693	261,588	263,606	4,582,616	45,011	5,825,187	1,197,560
Flavoring extracts and flavoring sirups.....	0	18	26	10	62	33,000	37,397	113,965	1,447	237,417	121,085
Flour and other grain-mill products ¹	7	73	258		3,156	142,032	404,042	8,309,230	62,806	10,172,110	1,713,014
Food preparations, not elsewhere classified.....	15	29	56		154	59,816	57,611	497,433	15,631	892,115	370,051
Foundry and machine-shop products, not elsewhere classified ¹	84	459	1,659	60	7,740	1,099,715	2,504,898	3,716,238	181,514	11,716,410	7,818,667
Fur goods.....	12	15	35		18	38,393	48,990	128,271	2,457	310,720	170,998
Furniture, including store and office fixtures ¹	40	169	1,958	1,199	3,771	470,357	2,500,924	4,000,224	75,332	8,540,363	4,464,807
Gas and electric fixtures; lamps, lanterns, and reflectors.....	4	15	19		20	24,461	33,122	76,653	853	143,422	65,916
Glass products (except mirrors) made from purchased glass.....	4	3	12		7	4,524	13,309	15,424	206	39,857	24,137
Hand stamps and stencils and brands.....	4	3	12		11	7,200	11,010	17,417	625	64,048	46,006
Ice cream ¹	8	18	116		962	34,048	173,215	616,804	35,473	1,293,704	642,427
Ice, manufactured.....	8	21	44		1,693	80,245	77,100	8,970	45,616	398,712	344,126
Iron and steel: Steel works and rolling mills.....	3	56	250		1,084	159,485	375,377	198,478	63,095	1,143,351	881,778
Knit goods.....	5	162	611		173	337,289	451,687	1,977,035	12,628	4,827,477	2,837,914
Leather goods, not elsewhere classified.....	4	3	14		27	6,680	15,900	35,674	609	72,408	33,125
Lumber and timber products, not elsewhere classified.....	14	136	3,324	10,094	15,992	528,157	4,580,069	8,936,746	269,469	17,923,913	8,717,698
Marble, granite, slate, and other stone products.....	7	18	74		659	83,881	136,232	154,768	7,634	545,433	353,031
Mirrors, framed and unframed.....	4	7	21		89	27,443	36,922	189,584	2,693	242,266	90,080
Models and patterns, not including paper patterns.....	7	3	39		123	7,924	64,860	15,830	1,695	122,855	105,330
Nonferrous-metal alloys and products, not including aluminum products.....	8	18	64		163	51,851	90,027	297,385	11,170	517,685	209,130
Paints and varnishes ¹	12	23	128		442	40,082	163,326	935,588	7,784	1,450,738	507,366
Photo-engraving, not done in printing establishments ¹	10	35	60		95	165,880	113,584	42,874	4,605	391,631	344,152
Planing-mill products (including general millwork), not made in planing mills connected with sawmills ¹	26	120	1,009	305	7,701	325,664	1,277,668	3,280,562	118,373	5,982,657	2,583,782
Printing and publishing, book and job ¹	100	225	591		1,056	545,707	955,206	1,067,701	35,741	3,691,943	2,588,501
Printing and publishing, newspaper and periodical ¹	52	1,029	590	2	1,794	1,631,832	1,255,185	1,870,870	64,638	7,776,418	5,840,910
Saddlery and harness.....	6	6	49		138	17,656	71,195	191,184	2,789	322,681	128,708
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	0	5	19		104	8,900	34,535	248,776	5,087	347,405	93,542
Ship and boat building, steel and wooden, including repair work.....	5	21	229	325	982	54,356	367,648	283,542	7,889	568,258	276,827
Shirts.....	7	21	317	140	18	46,190	312,730	973,250	3,713	1,544,316	567,353
Signs and advertising novelties.....	8	55	133		48	130,641	206,730	204,300	4,487	821,426	612,639
Statuary and art goods, factory product.....	3	2	9		6	(?)	13,007	6,604	272	37,174	30,298
Stoves and ranges (other than electric) and warm-air furnaces.....	12	23	159		390	51,343	261,661	213,605	15,432	825,907	596,870
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	10	37	179		1,079	73,482	230,995	437,395	15,779	922,324	460,150
Surgical and orthopedic appliances including artificial limbs.....	4	2	15		11	(?)	17,874	21,009	663	63,192	41,520
Trimnings (not made in textile mills) and stamped art goods for embroidering.....	4		25		21		22,121	8,900	1,306	58,931	48,725
Window shades and fixtures.....	0	11	29		94	21,758	33,365	183,763	1,461	305,168	110,044
Other industries.....	227	1,212	6,404	2,485	20,723	2,663,579	7,949,241	34,575,387	964,063	58,918,944	23,379,494

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹ 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: Bread and other bakery products, 2; flour and other grain-mill products, 1; foundry and machine-shop products, not elsewhere classified, 1; furniture, including store and office fixtures, 3; ice cream, 1; paints and varnishes, 1; photo-engraving, not done in printing establishments, 1; planing-mill, products (including general millwork), not made in planing mills connected with sawmills 2; printing and publishing, book and job, 1; printing and publishing, newspaper and periodical, 1.

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

PENNSYLVANIA

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers ⁴	Fuel and purchased energy		
1920	16,947	1,014,040	5,991,493	3,346,112	2,645,381	\$1,370,444,293	\$4,013,255,531	\$3,080,107,006	\$333,147,925	\$7,443,861,057	\$3,430,605,526
1927	17,314	957,414	5,800,634	3,337,491	2,463,143	1,315,903,319	3,728,061,770	3,403,021,280	325,040,487	6,715,593,455	2,987,601,070
1925	17,298	999,400	5,373,972	3,365,944	2,008,028	1,324,481,011	3,890,513,639	(5)	(5)	6,901,792,098	3,011,248,459
1923	19,054	1,095,057	5,107,593	3,529,260	1,578,333	1,434,962,001	4,320,510,031	(5)	(5)	7,381,687,533	3,061,177,502
1921	20,200	803,917	(6)	(6)	(6)	1,006,856,837	2,960,759,070	(6)	(6)	5,059,060,410	2,095,260,334
1919	27,973	1,135,837	4,445,095	3,466,474	978,621	1,406,060,138	4,210,408,628	3,868,317,807	342,090,821	7,315,792,867	3,105,294,239
1914	27,521	924,478	5,535,825	3,191,636	344,189	527,062,517	1,088,920,716	1,549,582,854	139,337,802	2,832,349,437	1,143,428,721
1900	27,503	877,543	2,905,413	2,757,792	145,621	455,020,790	1,582,569,938	1,445,227,795	137,332,192	2,625,742,934	1,044,182,046
1904	23,495	793,282	2,279,032	2,243,331	35,701	307,900,890	1,142,942,707	1,072,295,389	70,737,318	1,956,551,332	812,608,025
1899	23,402	663,900	1,700,847	1,678,485	22,362	299,875,548	958,301,272	(7)	(7)	1,649,882,380	691,581,108
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929	-2.1	2.7	3.3	0.3	7.4	4.8	7.0	8.1	2.5	10.8	14.8
1925-1927	.1	-1.2	7.9	-8	22.7	-0	-4.2			-2.7	-1.8
1923-1925	-0.2	-8.7	5.2	-4.6	27.2	-7.7	-10.0			-0.5	-1.0
1921-1923	-0.1	26.8				42.5	45.9			45.9	45.9
1919-1921	-27.5	-23.0				-28.4	-29.7			-30.8	-32.4
1919-1929	-39.4	-10.7	34.8	-3.5	170.3	-1.9	-4.7	-4.9	-2.6	1.8	10.5
1909-1919	1.5	20.4	53.1	25.7	572.0	208.6	166.1	167.7	140.1	178.5	197.4
1899-1900	17.5	32.2	70.7	64.3	551.2	53.5	65.1			59.2	51.0

¹ Not including salaried employees.
² 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.
³ 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.
⁴ 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.
⁵ Not reported separately.
⁶ Not called for on schedule.
⁷ 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) ¹	Horsepower ²	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	9,631,350	16,947	1,014,046	5,991,493	\$1,370,444,293	\$4,013,255,531	\$3,080,107,006	\$333,147,925	\$7,443,861,057	\$3,430,605,526
<i>Industrial Areas</i>										
Philadelphia Area, ³ total	3,137,040	7,184	376,000	1,368,306	510,540,001	1,549,559,096	1,488,231,423	61,327,673	2,981,045,061	1,431,486,565
Portion in Pennsylvania	2,720,385	6,669	350,382	1,200,214	453,171,719	1,300,908,492	1,307,720,880	53,187,612	2,608,020,024	1,247,120,532
Portion in New Jersey	416,655	615	45,627	168,092	57,368,882	188,650,604	180,510,543	8,140,061	373,016,037	184,366,033
Pittsburgh Area ⁴	2,023,269	2,587	227,221	2,082,327	357,076,488	1,158,738,306	1,017,071,314	140,767,052	2,015,399,934	856,660,668
Youngstown Area, ⁵ total	555,709	612	78,903	1,171,241	138,076,535	504,027,995	430,586,508	67,441,487	823,532,610	319,504,615
Portion in Pennsylvania	196,504	255	25,621	358,827	41,616,952	135,619,576	110,989,570	15,629,997	223,397,933	90,778,357
Portion in Ohio	359,205	357	53,282	812,414	96,459,583	368,408,419	319,596,929	51,811,490	597,134,677	228,726,268
Allentown—Bethlehem Area ⁶	342,197	705	58,483	568,583	70,490,266	205,166,008	175,627,865	29,538,143	306,185,282	191,019,274
Reading Area (coextensive with Berks County) ⁷	231,717	578	47,350	124,615	61,870,198	104,197,346	97,336,420	6,860,926	229,028,380	124,831,040
Seranton—Wilkes-Barre Area ⁸	755,506	769	42,208	95,981	41,515,994	93,192,669	89,400,000	3,783,669	185,951,706	92,759,007

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

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

Counties	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 ELECTRIC ENERGY			Value of products	Value added by manu- facture
						Total	Materials and containers	Fuel and purchased energy		
Adams.....	37,128	99	3,437	7,421	\$2,716,750	\$5,981,762	\$5,696,731	\$285,031	\$11,925,216	\$5,043,454
Allegheny ⁴	1,374,410	1,959	155,374	1,398,914	243,281,167	811,955,393	711,132,769	100,822,624	1,400,762,245	588,806,850
Armstrong.....	79,298	79	5,453	89,847	8,078,683	17,071,906	14,804,028	2,167,878	31,325,239	14,253,333
Beaver ⁴	149,082	208	28,438	349,055	47,765,802	169,700,644	149,204,819	20,495,825	294,772,430	128,071,786
Bedford.....	37,809	56	781	6,432	762,375	2,237,053	1,689,088	547,965	3,715,386	1,478,333
Berks (coextensive with Reading Area) ⁷	231,717	578	47,350	124,615	61,870,198	104,197,340	97,336,420	6,860,926	229,028,886	124,831,040
Blair.....	139,840	147	18,047	61,971	26,745,990	56,207,933	54,065,800	2,142,133	97,205,642	40,998,790
Bradford.....	49,089	66	3,855	13,969	4,840,116	10,329,707	9,980,000	337,707	19,803,774	9,477,067
Bucks ³	96,727	186	9,433	30,603	10,706,262	21,831,025	20,868,995	962,030	46,196,836	24,368,811
Butler.....	80,480	101	5,689	98,963	7,061,220	36,394,845	32,042,822	3,352,023	52,000,772	16,611,927
Cambria.....	203,146	158	13,665	220,285	22,807,293	84,377,239	67,596,783	16,780,456	130,428,843	46,051,604
Cameron.....	5,307	9	863	1,899	919,768	2,589,087	2,520,215	62,872	6,555,333	3,996,246
Carbon.....	63,380	84	6,437	44,085	8,783,564	17,062,249	14,114,179	2,888,070	80,308,962	22,306,703
Centre.....	46,294	58	2,034	8,707	2,130,605	4,185,331	3,547,859	637,472	9,251,650	5,096,319
Chester ³	126,629	194	10,555	110,374	15,284,521	48,058,647	42,000,588	6,058,059	79,688,594	31,629,837
Clarion.....	34,531	52	1,008	7,496	1,275,721	2,456,707	1,870,696	586,011	4,710,562	2,253,855
Clearfield.....	86,727	101	4,478	25,647	5,136,277	7,518,466	6,073,087	1,440,379	17,686,450	10,107,900
Clinton.....	32,319	66	4,367	33,861	5,873,833	18,974,169	17,823,716	1,150,453	30,812,921	11,838,752
Columbia.....	48,803	82	4,842	23,786	5,089,861	17,173,684	16,435,633	738,151	30,066,827	12,833,143
Crawford.....	62,980	121	4,187	17,616	5,875,471	15,538,041	14,806,826	732,215	27,462,947	11,614,300
Cumberland.....	68,236	131	6,465	18,616	7,470,756	17,873,415	17,136,683	736,732	32,253,118	14,379,703
Dauphin.....	165,231	286	19,622	114,784	25,325,687	80,590,684	77,593,609	9,026,475	149,983,513	63,393,432
Delaware ³	280,264	231	30,790	234,476	44,646,769	150,625,806	145,091,812	5,534,494	259,343,015	108,717,209
Elk.....	33,431	53	4,032	40,373	5,143,637	19,649,645	17,894,868	1,754,775	32,477,100	12,827,457
Erie.....	176,277	366	23,022	111,668	33,567,730	71,264,611	4,968,896	66,265,712	102,522,818	91,268,207
Fayette.....	198,542	151	5,633	30,262	6,023,518	17,633,292	7,289,043	10,244,249	31,231,419	13,698,127
Fulton.....	5,180	8	488	2,204	604,877	2,003,711	1,847,231	156,480	3,346,767	1,342,859
Franklin.....	65,010	118	5,540	19,188	5,090,813	12,716,931	12,134,277	582,654	28,838,409	10,121,478
Fulton.....	9,231	21	47	408	36,997	122,753	120,951	1,802	246,512	123,769
Greene.....	41,767	18	126	601	136,126	221,126	195,074	25,451	547,162	320,037
Huntingdon.....	39,021	68	2,763	10,465	2,888,803	3,702,888	3,007,719	695,169	10,787,527	7,054,639
Indiana.....	76,395	74	2,208	14,110	2,727,283	4,820,749	3,342,044	1,478,705	9,610,943	4,789,294
Jefferson.....	52,114	73	1,982	7,401	2,084,362	4,278,022	3,770,816	507,206	8,686,173	4,408,161
Juniata.....	14,825	20	433	1,061	403,330	881,946	200,716	120,630	992,428	611,082
Lackawanna ⁸	310,397	354	10,891	41,446	17,076,694	36,825,758	34,784,163	1,741,595	74,808,489	38,282,731
Lancaster ⁹	196,882	495	23,300	76,865	25,913,361	77,710,972	75,433,455	2,277,517	155,750,777	78,039,805
Lawrence ⁵	97,258	116	12,388	155,209	20,020,603	60,388,517	59,770,127	6,618,390	100,205,632	46,877,165
Lebanon ⁹	67,103	180	10,146	67,142	10,325,060	28,196,956	24,305,967	1,890,989	48,152,065	21,955,109
Lehigh ⁶	172,893	399	26,738	111,246	32,042,017	94,660,401	86,612,780	5,047,621	175,284,153	80,623,752
Luzerne ⁸	446,109	415	25,377	54,535	24,439,300	56,666,911	54,624,908	2,042,008	111,143,277	54,470,366
Lycoming ⁹	93,421	180	12,005	40,645	15,123,311	41,437,612	40,128,282	1,309,330	78,078,506	30,685,894
McKean.....	55,167	119	4,013	18,924	5,370,335	22,213,665	21,516,142	1,697,523	37,404,333	15,280,698
Mercer ³	99,246	139	13,233	203,618	21,587,349	75,231,059	66,219,452	9,011,607	120,132,251	44,961,192
Mifflin.....	40,335	49	7,532	43,661	10,150,817	11,769,685	10,048,834	1,720,851	36,590,143	24,820,488
Monroe.....	28,286	64	1,938	6,070	2,439,986	6,128,020	5,914,018	214,011	11,038,316	4,010,287
Montgomery ³	265,804	491	32,657	171,940	43,563,791	114,762,806	103,844,303	11,418,502	219,089,734	104,329,920
Montour.....	14,517	23	1,177	11,894	1,097,933	1,200,997	1,031,294	169,703	2,837,545	1,036,578
Northampton ⁹	169,304	306	31,747	457,337	44,448,249	110,505,607	86,015,105	24,490,502	220,001,120	110,395,622
Northumberland ⁹	128,504	159	10,358	33,493	13,269,498	30,062,835	28,580,401	1,422,434	61,200,325	31,257,490
Perry.....	21,744	37	539	1,870	421,336	873,372	831,507	41,865	1,896,164	1,022,732
Philadelphia (coextensive with Phila- delphia city) ³	1,960,901	5,567	248,908	652,321	338,910,496	1,025,630,209	990,415,682	20,214,527	2,003,710,905	978,080,096
Pike.....	7,483	10	124	466	120,692	389,459	383,631	5,828	650,079	290,620
Potter.....	17,489	32	937	6,858	1,049,983	4,658,730	4,417,182	241,548	6,066,755	2,308,025
Schuylkill ⁹	235,505	204	12,110	38,908	11,040,938	28,944,097	27,560,825	1,383,272	55,643,860	20,699,753
Snyder.....	18,836	42	881	2,661	747,098	1,840,944	1,725,640	115,304	3,713,311	1,872,397
Somerset.....	80,764	75	981	3,861	895,918	1,121,140	1,061,957	59,192	3,078,375	1,957,226
Sullivan.....	7,499	14	200	676	157,007	393,034	381,094	11,940	765,004	371,070
Susquehanna.....	33,806	41	784	3,749	1,024,238	1,307,561	1,239,914	67,647	2,864,449	1,566,888
Tioga.....	31,871	43	1,465	7,205	1,613,820	9,279,476	8,975,547	303,929	14,804,926	5,525,450
Union.....	17,468	33	788	2,809	723,774	3,029,793	2,900,621	69,172	4,565,379	1,535,586
Venango.....	63,226	82	5,677	31,908	9,013,555	43,887,010	42,107,913	1,779,097	61,916,938	18,028,928
Warren.....	41,463	98	3,861	24,188	5,123,828	24,755,273	23,545,649	1,209,624	38,121,134	13,365,861
Washington ⁴	204,802	150	14,599	130,987	21,952,101	72,089,666	64,578,276	7,511,390	119,089,666	47,000,000
Wayne.....	28,420	65	1,739	3,777	1,546,343	5,333,052	5,174,061	158,991	8,562,479	3,229,427
Westmoreland ⁴	294,995	270	23,810	203,371	44,076,418	104,992,658	93,055,453	11,937,205	200,774,690	96,782,032
Wyoming.....	15,517	27	311	2,395	361,425	2,961,136	2,898,730	62,406	3,609,284	648,148
York ⁹	167,135	586	30,331	98,876	29,933,656	71,803,918	68,632,671	3,171,247	160,795,240	88,991,322
Cities having 10,000 inhabitants or more ¹⁰										
Allentown ¹¹	92,593	254	17,503	42,294	20,096,175	69,523,036	68,073,493	1,449,543	122,264,393	52,741,357
Altoona.....	82,054	66	13,737	35,291	20,509,115	43,162,424	42,230,468	931,956	72,429,778	29,267,854
Ambridge.....	20,227	24	4,959	21,477	8,099,170	31,093,338	30,395,564	697,774	55,052,768	23,680,420
Beaver Falls.....	17,147	42	3,203	15,788	4,451,715	12,112,188	11,471,351	640,837	21,920,923	9,817,735
Bellevue.....	10,282	3	21	20	27,799	51,326	49,051	2,275	108,580	37,254
Bradock.....	19,329	26	989	5,616	1,637,226	4,749,590	4,507,392	242,198	8,630,890	3,881,309
Bradford.....	19,306	53	1,531	8,570	2,206,108	10,203,108	9,825,755	377,353	17,592,217	7,389,109
Bristol.....	11,799	27	1,955	6,615	2,357,277	6,961,404	6,709,648	251,756	12,011,068	6,050,284
Butler.....	23,508	46	3,822	83,001	5,309,487	22,831,786	20,436,136	2,395,650	33,557,587	10,726,801
Canaonsburg.....	12,558	13	3,543	16,695	5,482,338	13,800,753	13,121,721	679,032	21,675,585	7,874,832

See footnotes at end of table.

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

	Popula- tion, 1930	Number of estab- lish- ments	Wage earn- ers (aver- age for the year) ¹	Horse- power ²	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELEC- TRIC ENERGY			Value of products	Value added by manu- facture
						Total	Materials and containers	Fuel and purchased energy		
<i>Cities having 10,000 inhabitants or more¹⁰—Continued</i>										
Carbondale.....	20,061	21	892	1,587	\$1,204,375	\$1,281,095	\$1,200,789	\$80,906	\$3,340,813	\$2,067,618
Carlisle.....	12,598	32	2,740	8,859	2,532,361	7,180,334	6,935,505	244,829	13,070,998	6,490,064
Carnegie.....	12,497	28	2,017	41,723	3,098,881	9,553,500	8,031,748	653,752	16,043,970	6,458,476
Chambersburg.....	13,788	36	1,656	7,507	1,463,846	4,371,042	4,190,375	180,667	8,071,045	4,300,003
Charleroi.....	11,200	16	1,359	4,415	1,507,802	1,620,398	1,092,223	537,075	5,208,235	3,068,837
Choster.....	50,104	101	12,909	65,475	18,130,408	64,245,371	61,844,285	2,001,086	111,243,721	46,098,350
Columbia.....	11,349	32	2,206	5,029	2,505,877	5,846,709	5,009,916	236,853	12,503,005	6,057,436
Connellsville.....	13,200	31	817	2,354	822,573	1,147,101	1,070,450	76,705	2,838,831	1,691,670
Conshohocken.....	10,815	20	1,944	6,079	2,807,432	10,361,148	10,047,624	313,524	16,677,392	6,316,244
Coraopolis.....	10,724	14	1,003	7,018	2,920,537	13,503,039	12,901,615	601,424	20,473,585	6,970,546
Diakson City.....	12,395	11	336	630	241,503	742,130	706,299	36,831	1,175,887	433,757
Du Bois.....	11,595	28	1,189	4,211	1,294,243	1,617,469	1,494,273	123,196	3,738,862	2,121,303
Dunmore.....	22,627	11	897	1,343	872,867	580,636	536,284	44,852	1,868,208	1,287,662
Easton.....	34,468	75	3,797	10,377	5,298,790	11,794,702	11,307,428	487,274	23,371,697	11,870,905
Erie II.....	116,907	277	15,384	76,003	23,414,073	47,737,227	43,576,867	4,161,360	103,070,806	50,242,579
Farrall.....	14,350	22	5,619	122,412	6,563,327	40,043,464	35,270,854	4,769,610	66,985,594	16,042,130
Franklin.....	10,254	26	1,038	8,274	2,455,818	5,093,433	5,459,476	233,937	10,970,755	5,277,342
Greensburg.....	10,508	32	2,087	7,535	2,778,756	2,459,319	2,141,725	317,614	7,846,245	5,388,906
Hanover.....	11,805	76	3,612	7,578	3,382,400	6,070,923	6,424,010	255,907	18,443,032	8,703,109
Harrisburg.....	80,339	103	7,825	34,078	10,144,491	19,098,391	18,217,365	1,781,026	41,083,637	21,085,246
Hazleton.....	36,765	54	4,781	6,049	4,014,753	15,680,506	15,407,181	279,325	25,065,026	9,378,520
Homestead.....	20,141	22	341	1,794	527,993	1,096,741	1,616,730	81,011	3,136,223	1,439,482
Jennette.....	15,126	27	3,446	12,277	4,316,800	7,147,526	6,321,781	825,745	16,003,242	9,456,716
Johnstown.....	66,993	103	11,866	213,365	20,781,266	81,837,747	66,674,097	10,163,650	124,033,306	42,195,559
Kingston.....	21,600	21	2,636	5,519	2,173,256	2,005,542	1,828,964	176,578	5,858,145	3,262,608
Lancaster.....	59,949	184	12,096	46,528	14,814,570	47,140,491	46,896,314	1,244,177	64,042,841	47,802,350
Latrobe.....	10,644	20	1,282	13,955	2,136,644	4,442,812	4,003,016	439,796	10,993,217	6,550,405
Lebanon.....	26,591	82	6,953	46,558	7,396,792	18,007,175	17,536,700	1,131,475	34,577,598	15,910,423
McKees Rocks.....	18,116	34	4,693	20,223	6,911,402	11,610,219	10,796,102	815,117	24,742,447	13,132,228
Mahanoy City.....	14,784	16	693	659	377,733	1,031,708	1,031,102	29,750	2,844,052	1,284,184
Meadville.....	16,098	35	2,599	6,847	3,857,563	5,264,718	5,021,741	242,977	11,907,851	6,733,133
Monessen.....	20,208	18	6,285	89,060	10,726,085	37,025,117	32,802,214	4,222,903	59,550,869	22,525,752
Mount Carmel.....	17,967	14	796	675	545,793	1,547,199	1,526,119	21,080	2,694,294	1,147,095
Nanticoke.....	26,043	20	1,845	2,680	1,406,817	1,931,655	1,791,399	140,262	5,557,020	3,025,365
New Castle.....	48,074	55	7,105	97,786	10,017,188	41,463,225	36,897,593	4,565,656	64,040,625	22,587,300
New Kensington.....	16,762	24	5,170	19,075	7,976,685	21,408,704	20,725,324	683,380	35,062,880	13,654,176
Norristown.....	35,863	76	3,808	9,870	4,750,639	7,567,322	7,245,434	321,888	17,905,156	10,337,834
Oil City.....	22,075	29	2,063	13,883	4,576,655	6,207,396	5,708,074	498,722	13,803,601	7,156,265
Old Forge.....	12,061	6	263	375	177,392	80,994	61,401	19,593	484,060	403,066
Olyphant.....	10,743	7	354	658	247,803	120,737	82,505	38,232	494,790	374,053
Philadelphia (coextensive with Phila- delphia County).....	1,950,901	5,507	246,908	662,321	338,910,496	1,025,630,200	999,415,082	20,214,527	2,003,710,905	978,080,696
Phoenixville.....	12,029	28	2,533	24,417	3,476,360	8,932,371	8,047,445	884,926	15,517,905	6,856,534
Pittsburgh II.....	609,817	1,370	61,503	394,065	90,065,072	290,969,737	268,175,082	22,793,755	644,784,934	253,814,897
Pittston.....	18,246	18	350	1,140	404,405	1,031,178	956,264	74,914	1,913,864	882,686
Plymouth.....	16,543	14	458	604	312,450	487,774	455,187	32,587	1,148,352	660,578
Pottstown.....	19,430	64	5,320	25,471	6,535,500	17,140,284	16,872,974	476,310	31,581,201	14,431,917
Pottsville.....	24,300	41	2,949	21,285	3,178,376	8,248,613	7,534,192	714,421	15,830,447	7,381,834
Reading II.....	111,171	323	25,970	89,436	31,752,207	57,199,063	53,065,326	4,133,737	120,919,422	63,720,359
Scranton II.....	143,433	251	11,677	27,713	12,377,804	31,846,423	30,610,942	1,235,481	61,053,837	29,207,414
Shenandoah.....	21,782	24	554	1,944	471,906	1,513,900	1,409,836	44,064	2,688,372	1,174,472
Sunbury.....	15,020	20	2,185	4,361	2,980,795	6,821,448	6,547,644	273,804	13,520,218	6,098,770
Tamaqua.....	12,930	20	732	836	669,450	1,665,223	1,621,205	44,018	3,016,115	1,350,892
Turtle Creek.....	10,690	7	21	121	23,259	46,281	43,553	2,728	102,460	86,179
Uniontown.....	10,544	25	920	3,098	1,090,925	1,713,923	1,530,104	183,819	4,641,866	2,827,462
Warron.....	14,863	46	2,129	12,758	3,058,429	14,400,563	13,742,871	657,692	22,036,395	7,035,832
Washington.....	24,545	35	1,847	8,233	2,602,063	6,038,800	5,210,524	828,276	14,017,457	7,978,657
Waynesboro.....	10,167	34	3,207	9,247	3,032,494	6,547,353	6,196,292	351,061	10,625,360	10,077,997
West Chester.....	12,325	20	299	1,274	411,473	806,341	704,748	41,593	1,902,992	1,006,651
Wilkes-Barre.....	86,626	152	8,639	20,947	8,977,478	22,185,241	21,406,247	755,004	44,041,368	21,876,127
Wilkesburg.....	29,639	30	337	1,655	515,295	995,677	893,606	102,071	2,537,784	1,542,057
Williamsport.....	45,720	107	9,428	31,293	12,240,619	33,192,909	32,110,125	1,082,784	62,117,415	28,923,506
York.....	55,254	196	15,060	50,720	15,850,647	34,354,706	32,788,466	1,566,270	87,682,938	53,228,172

¹ Not including salaried employees.
² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.
³ The Philadelphia Industrial Area comprises Bucks, Chester, Delaware, Montgomery and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N. J. For statistics by industries for this area and for Bucks, Chester, Montgomery, and Philadelphia Counties, see Table 13.
⁴ The Pittsburgh Industrial Area comprises Allegheny, Beaver, Washington, and Westmoreland Counties. For statistics by industries for this area and for each county in the area, see Table 13.
⁵ The Youngstown Industrial Area comprises Lawrence and Mercer Counties, Pa., and Mahoning and Trumbull Counties, Ohio. For statistics by industries for this area, see report for Ohio.
⁶ The Allentown-Bethlehem Industrial Area comprises Lehigh and Northampton Counties. For statistics by industries for this area and for Lehigh County, see Table 13.
⁷ For statistics by industries for this area, see Table 13.
⁸ The Scranton-Wilkes-Barre Industrial Area comprises Lackawanna and Luzerne Counties. For statistics for this area and for each county in the area, see Table 13.
⁹ For statistics by industries for this county, see Table 13.
¹⁰ Not including Alliquippa, Arnold, Berwick, Bethlehem, Clairton, Coatesville, Donora, Dortmund, Duquesne, Ellwood City, Lewistown, McKeesport, Munhall, North Braddock, Shamokin, Sharon, Steelton, Swissvale, Taylor, and Vandergrift, 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.
¹¹ For statistics by industries for this city, see Table 14.

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 ¹	1,166,323	900,725	265,598	11,413	10,975	438	12,844	12,224	620	128,020	92,752	35,268	1,014,046	784,774	229,272
1919 ^{1,4}	1,323,662	1,000,105	263,497	27,433	26,360	1,083	13,841	13,402	439	146,551	106,254	40,297	1,135,837	914,159	221,678
1914 ⁴	1,060,562	844,300	216,262	28,034	26,916	1,118	8,588	8,372	216	99,462	81,432	18,030	924,478	727,580	196,898
1909 ⁴	1,002,171	802,548	199,623	29,743	28,560	1,193	8,410	8,286	124	86,475	71,818	14,657	877,543	693,804	183,649

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

² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 1,830; male, 1,793; female, 37. Other salaried officers and employees—total, 25,864; male, 18,355; female, 7,309. 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.

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

⁴ 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 month 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 16TH 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 ¹	1,014,046	<i>977,114</i>	991,782	1,004,756	1,011,803	1,021,162	1,024,287	1,029,405	1,034,356	1,033,300	1,037,357	1,013,713	989,517	94.2
1919 ¹	1,135,837	1,161,001	1,128,614	1,101,621	1,083,824	1,035,521	1,105,314	1,133,814	1,156,018	1,158,562	1,141,814	1,172,674	1,197,667	90.5
1914 ¹	924,478	945,481	949,918	932,114	955,614	942,197	936,124	920,404	914,502	917,927	902,731	873,133	873,536	90.8
1909 ¹	877,543	<i>879,987</i>	825,082	835,017	844,230	850,373	897,526	860,435	873,308	911,802	933,852	947,698	960,666	85.3

¹ 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.....	16,947	1,014,046	45 and over but under 48.....	994	44,695
Not reported.....	1,195	3,518	48.....	3,151	245,986
Under 40.....	271	6,717	Over 48 but under 54.....	3,097	284,119
40.....	450	10,257	54.....	1,525	97,926
Over 40 but under 44.....	199	8,065	Over 54 but under 60.....	1,653	132,242
44 and over but under 45.....	2,386	56,163	60 and over.....	1,486	99,368

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—Establishment 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.....	16,947	27,973	27,563	1,014,046	1,135,837	877,543	51 to 100.....	1,460	1,491	1,356	104,607	108,175	97,089
No wage earners.....	584	4,109	3,539				101 to 250.....	1,187	1,207	1,051	180,349	188,804	165,376
1 to 5.....	6,517	12,507	13,040	18,077	27,808	29,230	251 to 500.....	462	445	387	150,065	150,421	135,522
6 to 20.....	4,104	5,150	5,813	46,268	58,449	59,872	501 to 1,000.....	193	204	178	132,078	139,952	120,456
21 to 50.....	2,312	2,718	2,610	76,269	90,226	85,704	1,001 to 2,500.....	97	142	89	{ 142,175 149,168 }	368,002	183,204
							2,501 and over.....	31					

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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	16,947	27,973	27,563	1,014,046	1,135,837	877,543	\$7,443,861,057	\$7,315,702,867	\$2,620,742,034	\$3,430,605,526	\$3,105,294,239	\$1,044,182,046
Less than \$5,000.....	(²)	6,197	8,403	(²)	4,020	12,392	(²)	15,473,504	22,574,998	(²)	9,610,595	13,710,350
\$5,000 to \$10,999.....	5,069	8,257	8,764	14,179	24,280	46,720	57,234,107	89,388,454	90,897,605	34,396,876	48,462,428	48,251,171
\$20,000 to \$99,999.....	5,844	7,259	5,802	67,571	84,002	131,103	280,015,450	333,503,421	258,098,545	164,061,377	161,988,897	128,772,576
\$20,000 to \$49,999.....	3,524	(³)	(³)	28,300	(³)	(³)	114,101,828	(³)	(³)	67,546,660	(³)	(³)
\$50,000 to \$99,999.....	2,320	(³)	(³)	39,265	(³)	(³)	165,913,622	(³)	(³)	97,414,717	(³)	(³)
\$100,000 to \$499,999.....	3,775	4,113		177,120	199,349		866,647,957	932,550,077		470,935,711	437,015,079	
\$100,000 to \$249,999.....	2,406	(³)		83,052	(³)		383,053,896	(³)		214,917,880	(³)	
\$250,000 to \$499,999.....	1,369	(³)	3,104	94,068	(³)	370,082	482,694,061	(³)	923,159,484	250,017,822	(³)	412,461,625
\$500,000 to \$999,999.....	966	917		113,262	120,070		678,692,605	641,104,153		330,188,495	289,634,471	
\$1,000,000 and over.....	1,290	1,200	400	641,914	703,216	317,186	5,561,870,878	5,303,673,658	1,331,111,312	2,421,123,067	2,159,574,269	440,977,015
\$1,000,000 to \$2,499,999.....	767	(³)	(³)	173,032	(³)	(³)	1,191,212,211	(³)	(³)	565,320,298	(³)	(³)
\$2,500,000 to \$4,999,999.....	292	(³)	(³)	128,700	(³)	(³)	1,093,797,967	(³)	(³)	469,047,120	(³)	(³)
\$5,000,000 and over.....	231	(³)	(³)	340,182	(³)	(³)	3,366,860,700	(³)	(³)	1,386,740,640	(³)	(³)

¹ 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.

² No data.

³ 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.....	16,947	27,973	1,014,046	1,135,837	\$7,443,861,057	\$7,315,702,867	\$3,430,605,526	\$3,105,294,239
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	7,954	7,892	910,219	981,877	6,874,422,998	6,414,030,288	3,149,537,126	2,735,900,867
Other forms of ownership or control (individual, partnership, etc.).....	8,993	20,081	103,827	153,960	569,438,059	901,672,579	281,068,400	369,333,372
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	2,580	(¹)	548,008	(¹)	4,370,640,440	(¹)	1,808,263,501	(¹)
Independent (single-unit).....	14,367	(¹)	465,438	(¹)	3,073,214,608	(¹)	1,592,341,935	(¹)

¹ 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 AND 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	Number	Horse-power	Number	Horse-power	
The State:														
1929.....	5,991,493	3,346,112	7,373	1,893,635	1,388	1,183,448	1,355	241,121	528	22,913	310,097	2,645,381	138,437	2,350,077
1927.....	5,800,634	3,337,401	8,185	2,047,268	1,180	1,027,236	1,555	245,517	618	17,480	264,129	2,463,143	127,083	2,090,398
1925.....	5,373,972	3,305,044	9,641	2,220,975	1,014	872,400	1,783	240,168	688	23,401	200,330	2,008,028	122,001	1,900,530
1919 ¹	4,445,095	3,460,474	14,730	2,607,091	804	562,099	3,722	256,067	1,351	40,617	108,061	978,821	101,043	1,681,407
1914 ¹	3,535,825	3,191,630	18,577	2,922,616	(²)	(²)	4,628	223,695	1,585	45,325	39,528	344,189	60,336	1,184,962
Industrial Areas: 1929														
Philadelphia Area, total.....	1,368,306	592,516	2,103	317,849	479	238,206	386	30,712	96	5,749	111,733	775,700	38,776	411,374
Portion in Pennsylvania (Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties).....	1,200,214	488,177	1,833	285,974	382	108,713	345	27,961	88	5,520	103,602	712,037	31,589	330,870
Portion in New Jersey (Burlington, Camden, 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
Pittsburgh Area (Allegheny, Beaver, Washington, and Westmoreland Counties).....	2,082,327	1,373,433	2,103	750,380	488	552,503	231	69,842	6	708	54,048	708,894	42,138	980,206
Youngstown Area, total.....	1,171,241	722,846	799	420,432	217	251,620	73	46,087	32	4,707	18,233	448,395	14,083	411,099
Portion in Pennsylvania (Lawrence and Mercer Counties).....	368,827	196,838	329	133,634	77	58,497	40	4,381	12	320	6,069	161,989	5,069	110,327
Portion in Ohio (Mahoning and Trumbull Counties).....	812,414	526,008	470	286,798	140	193,123	33	41,706	20	4,381	12,164	286,406	9,014	300,772
Allentown-Bethlehem Area (Lehigh and Northampton Counties).....	568,583	416,137	438	243,213	68	98,394	46	72,575	38	1,955	24,413	152,446	11,467	281,209
Reading Area (coextensive with Berks County).....	124,615	49,095	203	40,788	16	6,668	28	833	20	806	14,713	75,520	2,891	23,181
Soranton-Wilkes-Barre Area (Lackawanna and Luzerne Counties).....	95,981	30,734	167	22,703	26	7,558	8	288	5	185	18,796	65,247	3,303	20,286
Counties in which aggregate horse-power exceeded 25,000: 1929														
Allegheny.....	1,398,914	947,853	1,087	522,055	360	301,909	183	63,889	1	(³)	38,160	451,061	29,105	666,713
Armstrong.....	89,847	12,196	30	6,429	6	2,136	60	3,631			2,406	77,651	79	552
Beaver.....	349,055	213,709	143	96,426	71	114,795	21	1,781	5	707	6,321	135,346	6,835	185,200
Berks.....	124,615	49,095	203	40,788	16	6,668	28	833	26	806	14,713	75,520	2,891	23,181
Blair.....	61,971	51,566	121	17,011	35	34,071	12	254	9	230	2,262	10,405	3,044	45,568
Bucks.....	30,603	15,868	64	7,524	8	7,069	10	500	11	775	2,907	14,735	706	7,786
Butler.....	98,963	6,864	30	5,319	1	(³)	37	1,545			2,337	92,089	481	6,283
Cambria.....	220,265	109,094	121	126,391	19	72,500	6	203			2,460	21,171	4,277	147,530
Carbon.....	44,095	37,321	37	8,310	35	28,183	9	566	6	292	1,052	6,774	1,010	16,961
Chester.....	110,874	53,102	249	35,257	34	8,612	53	8,804	17	429	3,041	57,772	2,285	64,401
Clearfield.....	25,547	13,076	95	11,645	6	1,051	10	380			1,168	12,471	203	3,006
Clinton.....	33,801	22,081	58	10,711	10	11,010	4	120	9	240	1,720	11,780	860	17,820
Dauphin.....	114,784	79,512	56	23,990	62	27,436	16	27,878	8	298	3,607	35,272	4,654	92,777
Delaware.....	234,476	73,580	143	22,683	34	47,913	31	2,629	10	355	12,570	160,896	3,890	39,950
Elk.....	40,373	23,505	55	10,200	6	12,270	9	1,035	1	(³)	1,253	16,868	796	15,706
Erie.....	111,698	46,358	132	23,008	13	22,528	9	707	4	115	8,579	65,310	9,611	76,018
Fayette.....	30,292	13,526	85	11,208	3	328	29	1,842	6	148	1,358	16,736	306	3,367
Lackawanna.....	41,446	10,560	41	8,401	12	4,159	1	(³)			6,788	30,886	1,754	8,650
Lancaster.....	76,865	10,016	77	7,439	12	499	28	552	59	1,529	11,249	66,949	1,156	1,659
Lawrence.....	155,200	100,698	170	68,072	36	31,411	8	409	8	196	2,156	54,521	2,893	66,230
Lebanon.....	97,142	39,023	31	5,019	8	33,650	6	194	3	160	3,031	28,119	1,112	26,771
Lehigh.....	111,246	40,919	177	30,522	21	8,053	15	1,330	18	1,005	13,954	70,327	1,706	14,983
Luzerne.....	54,535	20,174	126	16,352	14	3,396	7	238	5	185	12,008	34,361	1,649	11,636
Lycoming.....	40,645	17,503	93	16,208	5	760	4	134	16	414	4,957	23,139	1,621	8,319
Mercer.....	203,618	96,150	189	64,962	41	27,086	32	3,972	4	130	3,913	107,468	2,176	44,097
Mifflin.....	43,661	29,402	75	12,780	4	14,900	13	1,515	9	207	1,466	14,259	327	15,322
Montgomery.....	171,940	80,797	211	49,995	50	28,590	20	1,865	21	638	10,548	91,143	3,916	63,375
Northampton.....	457,337	375,218	261	212,601	47	90,341	31	71,236	20	950	10,459	82,119	9,701	266,316
Northumberland.....	33,493	11,352	71	8,506	13	2,123	10	688	2	35	5,274	22,141	2,845	37,653
Philadelphia.....	652,321	264,830	1,166	170,815	256	76,520	231	14,163	29	3,332	74,626	387,491	20,792	155,288
Schuylkill.....	38,908	22,542	93	21,683	7	318	8	466	3	75	2,707	16,366	836	13,149
Venango.....	31,908	16,370	91	5,800	9	6,607	46	4,463			1,707	15,038	964	10,400
Washington.....	130,987	91,145	62	46,911	19	41,145	16	3,093			2,746	39,841	2,286	67,219
Westmoreland.....	203,371	120,725	211	84,989	38	34,654	11	1,082			6,821	82,646	4,412	71,134
York.....	98,376	29,986	162	17,058	18	8,929	11	255	24	3,714	9,887	68,390	1,754	26,560

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

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

⁶ 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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	5,001,493	3,346,112	2,045,381	2,359,077	Juniata.....	1,061	757	304	.....
Adams.....	7,421	2,009	4,812	684	Lackawanna.....	41,446	10,500	30,886	8,650
Allegheny.....	1,308,914	947,853	451,061	606,713	Lancaster.....	76,865	10,016	66,849	1,659
Armstrong.....	89,847	12,196	77,651	562	Lawrence.....	155,209	100,688	54,521	66,230
Beaver.....	349,055	213,709	135,346	185,200	Lebanon.....	97,142	39,023	28,119	26,771
Bedford.....	6,432	5,130	1,302	1,145	Lehigh.....	111,246	40,919	70,327	14,983
Berks.....	124,615	49,095	75,520	23,181	Luzerne.....	54,535	20,174	34,361	11,636
Blair.....	61,971	51,566	10,405	45,568	Lycoming.....	40,645	17,506	23,139	8,319
Bradford.....	13,969	11,024	2,945	6,470	McKean.....	18,924	9,555	9,369	3,951
Bucks.....	30,603	15,868	14,735	7,786	Mercer.....	203,618	96,150	107,468	44,097
Butler.....	98,963	6,864	92,089	6,283	Mifflin.....	43,661	29,402	14,259	15,322
Cambria.....	220,265	199,094	21,171	147,530	Monroe.....	6,070	1,411	4,659	74
Cameron.....	1,399	1,064	335	482	Montgomery.....	171,940	80,797	91,143	63,375
Carbon.....	44,095	37,321	6,774	16,961	Montour.....	11,894	1,586	10,308	55
Centre.....	8,767	1,184	7,583	16,961	Northampton.....	457,337	375,218	82,119	266,316
Chester.....	110,874	53,102	57,772	64,461	Northumberland.....	33,493	11,352	22,141	37,653
Clarion.....	7,496	4,188	3,308	1,188	Perry.....	1,870	1,067	803	125
Clearfield.....	25,547	13,076	12,471	3,096	Philadelphia.....	652,321	264,830	387,491	155,298
Clinton.....	33,861	22,081	11,780	17,830	Pike.....	463	345	121	(²)
Columbia.....	23,785	9,186	14,599	5,743	Potter.....	6,858	6,439	410	1,386
Crawford.....	17,516	5,837	12,170	3,670	Schuylkill.....	88,908	22,542	16,366	13,149
Cumberland.....	18,516	4,486	14,036	2,607	Snyder.....	2,661	749	1,912	15
Dauphin.....	114,784	79,512	35,272	92,777	Somerset.....	3,861	2,402	1,459	1
Delaware.....	234,476	73,580	100,896	39,950	Sullivan.....	676	494	182	.....
Elk.....	40,373	23,505	16,868	15,708	Susquehanna.....	3,749	.....	2,840	5
Erie.....	111,668	40,358	65,310	70,018	Tioga.....	7,205	5,705	1,410	3,321
Fayette.....	30,262	13,526	16,736	3,367	Union.....	2,809	1,067	842	1,087
Forest.....	2,294	2,259	35	669	Venango.....	81,008	16,870	15,038	10,400
Franklin.....	10,188	7,744	11,444	8,214	Warren.....	24,188	7,789	16,399	2,673
Fulton.....	408	339	69	.....	Washington.....	130,987	91,146	39,841	57,219
Greene.....	601	374	227	.....	Wayne.....	3,777	1,925	1,852	1,000
Huntingdon.....	10,465	3,425	7,040	1,224	Westmoreland.....	203,371	120,725	82,646	71,134
Indiana.....	14,110	2,609	11,001	22	Wyoming.....	2,395	2,143	252	1,211
Jefferson.....	7,491	3,723	3,708	286	York.....	98,376	29,986	68,390	26,560

¹ Horsepower of electric motors driven by energy generated in establishments reporting.
² Item for Pike County combined with that for Wayne 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 I, Reports of the Census of Manufactures, 1929)

KIND	1929		1927 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 lbs.).....	54,804,767	\$150,685,305	51,675,026	70,696,159	63,834,005	58,515,887	61,558,023
Anthracite (tons, 2,240 lbs.).....	3,103,450	11,493,622	(³)	4,578,058	4,252,192	3,906,024	4,201,180
Bituminous (tons, 2,000 lbs.).....	51,261,690	139,201,683	(³)	65,567,723	58,571,552	54,141,142	56,852,704
Coke (tons, 2,000 lbs.).....	17,331,244	73,410,082	(⁴)	(⁴)	13,247,923	11,996,930	14,025,660
Fuel oils, including crude oils and gas oils (gallons) ⁵	613,125,603	23,230,680	(⁴)	(⁴)	387,025,632	85,117,326	85,584,870
Gasoline and kerosene (gallons) ⁶	3,818,350	512,712	(⁴)	(⁴)	14,159,544	.....	.....
Gas, natural (M cu. ft.).....	72,103,053	20,612,840	(⁴)	(⁴)	117,636,190	110,044,684	118,637,414
Gas, manufactured (M cu. ft.).....	300,115,734	26,875,006	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Other fuels.....	.....	2,116,345	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Electric energy purchased (kilowatt-hours).....	3,501,286,469	50,595,260	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Total cost of fuel and purchased energy.....		\$ 348,037,810	Cost (\$)	Cost (\$)	Cost \$342,090,821	Cost \$130,337,862	Cost \$137,332,192

¹ No data on cost of fuel, by kinds, were collected for years prior to 1929.
² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.
³ Not tabulated separately.
⁴ No data.
⁵ For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.
⁶ Data incomplete.
⁷ 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.
⁸ 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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ¹						
				Prime movers	Electric motors driven by purchased energy							Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries.....	10,947	140,864	1,014,046	3,346,112	2,645,381	\$ 369,843,068	1,379,444,293	3,080,107,606	333,147,925	7,443,891,057	3,430,605,526						
Agricultural implements.....	10	181	716	1,414	3,213	428,983	807,895	1,030,901	60,037	2,996,893	1,898,955						
Aircraft and parts.....	5	194	764	1,088	1,088	484,025	1,208,237	1,012,775	41,896	3,708,306	2,653,725						
Alcohol, ethyl, and distilled liquors.....	3	72	302	1,870	1,942	239,530	551,225	8,531,714	339,185	12,615,810	3,744,917						
Artificial and preserved flowers and plants.....	7	14	133	82	82	42,057	135,861	232,852	3,426	550,919	320,641						
Artists' materials.....	8	27	294	100	1,149	64,595	366,012	693,645	47,050	1,811,619	1,070,824						
Asbestos products, other than steam packing and pipe and boiler covering.....	9	164	1,136	1,010	6,129	395,543	1,550,866	2,707,134	148,541	7,096,123	4,240,453						
Awnings, tents, sails, and canvas covers.....	88	116	454	96	211	211,129	503,775	1,704,616	19,582	3,108,168	1,383,905						
Bags, other than paper, not made in textile mills.....	11	50	353	-----	192	151,652	298,632	3,581,027	0,922	4,704,980	1,114,031						
Bags, paper, exclusive of those made in paper mills.....	11	119	579	268	851	246,182	727,017	3,119,893	41,090	5,152,646	1,990,793						
Baskets and rattan and willow ware, not including furniture.....	13	46	316	40	85	118,973	299,735	655,795	10,583	1,358,797	602,419						
Belting other than leather and rubber, not made in textile mills.....	4	58	166	375	787	198,119	187,836	637,523	27,501	1,393,613	728,489						
Belting, leather.....	18	48	289	230	408	160,776	445,611	2,607,022	16,424	4,387,614	1,704,998						
Beverages.....	468	553	2,293	11,170	6,005	1,419,252	3,412,525	7,244,390	529,990	20,724,144	12,952,764						
Billiard and pool tables, bowling alleys, and accessories.....	3	5	13	-----	10	10,380	23,031	61,710	540	142,700	80,450						
Blacking, stains, and dressings.....	8	20	32	6	27	59,690	35,299	198,550	2,877	459,104	267,677						
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	16	490	3,433	4,743	9,650	1,818,272	4,510,838	10,631,368	553,868	25,345,592	14,160,366						
Bookbinding and blank-book making.....	87	197	1,530	300	1,073	571,828	1,662,133	1,336,676	49,213	5,015,189	3,629,300						
Boots and shoes, other than rubber.....	102	943	10,429	3,208	4,005	2,123,360	10,108,460	21,012,884	260,906	41,574,942	20,295,152						
Boxes, cigar, wooden.....	34	60	1,641	1,271	1,263	146,497	1,300,018	2,200,687	52,129	4,904,965	2,586,149						
Boxes, paper, not elsewhere classified.....	131	709	5,276	328	4,960	1,905,061	4,670,323	9,876,456	216,336	21,367,664	11,274,372						
Boxes, wooden, except cigar boxes.....	47	156	1,601	5,513	2,697	490,744	1,808,728	3,689,010	76,988	7,567,484	3,801,486						
Bread and other bakery products.....	1,029	2,554	23,960	6,721	35,091	6,136,260	31,180,587	77,743,716	3,510,554	170,608,502	89,354,232						
Brooms.....	24	39	296	170	321	87,690	317,532	711,657	15,471	1,507,662	768,534						
Brushes, other than rubber.....	35	57	300	-----	328	152,846	368,665	1,111,410	15,547	2,084,974	985,017						
Butter.....	71	101	221	967	1,426	118,115	300,904	4,616,300	68,554	5,940,096	1,255,233						
Buttons.....	8	39	461	352	377	95,010	468,745	684,909	30,038	1,748,465	1,033,698						
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	81	416	3,725	4,954	5,450	1,065,620	3,494,035	24,187,468	280,051	43,826,147	10,352,088						
Car and general construction and repairs, electric-railroad repair shops.....	47	174	2,173	-----	7,270	377,430	3,141,861	2,457,927	65,962	6,046,670	3,522,781						
Car and general construction and repairs, steam-railroad repair shops.....	194	4,625	53,391	04,081	51,747	12,095,763	38,837,983	99,532,594	3,487,350	205,369,042	102,343,098						
Carbon paper and inked ribbons.....	5	21	34	-----	100	61,995	37,604	210,444	4,222	416,143	200,277						
Cardboard, not made in paper mills.....	3	107	258	580	69	421,820	343,622	1,011,348	19,382	2,488,822	1,458,092						
Card cutting and designing.....	10	40	254	-----	377	148,276	283,160	340,651	6,669	1,065,935	715,315						
Carpets and rugs, rag.....	12	23	379	100	421	47,646	270,147	404,175	20,150	995,688	531,063						
Carpets and rugs, wool, other than rag.....	32	685	6,904	7,070	9,475	2,412,325	9,179,105	23,228,424	675,156	45,557,334	21,754,254						
Carriage, wagon, sleigh, and sled materials.....	7	14	85	60	708	26,707	88,305	138,708	11,692	2,297,927	147,527						
Carrriages and sleds, children's.....	10	95	527	275	422	211,282	609,622	957,122	20,790	2,054,885	1,067,964						
Carrriages, wagons, sleighs, and sleds.....	6	31	214	275	747	94,200	242,525	685,909	24,103	1,034,954	501,852						
Cars, electric and steam railroad, not built in railroad repair shops.....	15	1,200	7,634	22,935	16,405	2,456,805	12,114,190	60,920,829	1,028,619	74,304,217	22,414,769						
Caskets, coffins, burial cases, and other morticians' goods.....	30	238	1,883	2,723	3,248	704,146	2,266,064	5,050,217	99,657	12,655,700	7,505,820						
Cast-iron pipe.....	8	80	1,704	1,100	5,226	192,664	2,290,310	3,227,664	330,836	7,480,424	3,921,924						
Cement.....	30	1,364	7,470	129,892	134,681	3,608,802	11,077,846	9,660,858	11,459,709	59,420,641	38,290,474						
Cheese.....	18	11	48	111	48	17,337	59,063	701,938	12,977	883,060	169,045						
Chemicals, not elsewhere classified.....	52	1,008	3,280	12,681	21,054	2,478,564	4,792,635	24,410,119	1,900,380	48,111,312	21,791,813						
Chocolate and cocoa products, not including confectionery.....	12	294	2,787	19,720	6,610	966,271	3,364,099	38,379,500	605,450	53,330,360	19,345,104						
Cigars and cigarettes.....	330	1,101	25,221	1,488	5,547	2,824,105	18,728,740	47,045,212	362,078	108,061,016	60,663,726						
Clay products (other than pottery) and non-clay refractories.....	245	1,219	10,933	27,291	63,045	3,234,826	20,564,691	9,264,619	8,177,334	59,490,570	42,048,617						
Cleaning and polishing preparations.....	28	109	171	20	708	225,117	227,394	1,477,399	41,842	4,001,501	2,482,260						
Clocks, clock movements, time-recording devices, and time stamps.....	3	12	26	-----	25	17,885	33,233	24,332	2,100	117,619	91,187						
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified).....	384	1,357	18,473	331	3,688	3,303,296	20,817,217	40,298,699	412,603	98,346,790	48,635,488						
Clothing, men's, buttonholes.....	7	3	97	-----	15	3,640	98,406	16,955	1,285	165,854	147,014						
Clothing, women's, not elsewhere classified.....	380	1,098	14,688	194	3,041	2,508,639	13,257,944	38,966,806	255,876	74,240,029	35,017,847						
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	52	143	1,794	31	489	345,288	1,279,497	4,194,784	36,461	6,946,106	2,714,861						
Cloth sponging and refinishing.....	5	9	57	-----	111	21,188	36,464	2,146	2,932	215,528	210,448						
Coffee and spice, roasting and grinding.....	62	255	396	175	2,071	594,358	471,463	19,379,207	97,962	23,507,308	4,090,139						
Coke, not including gas-house coke.....	69	877	5,836	133,547	15,795	1,844,977	9,372,943	4,872,812	71,849,761	116,345,477	38,622,904						
Collapsible tubes.....	3	25	335	40	352	115,344	264,419	1,006,400	10,737	1,478,800	455,663						
Compressed and liquefied gases.....	41	321	430	644	11,835	582,311	724,402	979,998	630,662	6,735,840	5,225,180						
Concrete products.....	260	352	1,523	566	6,523	710,681	1,981,155	2,956,549	192,463	8,275,868	5,120,856						
Condensed and evaporated milk.....	45	89	375	3,882	2,023	153,552	501,784	6,587,894	148,583	8,430,873	1,703,396						
Confectionery.....	206	982	7,469	3,156	11,371	2,520,560	6,381,432	20,318,740	620,608	41,556,102	20,816,848						
Cooperage.....	43	53	510	960	468	154,210	675,228	3,400,201	30,822	5,063,285	1,626,252						
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	125	539	2,532	590	4,304	1,531,518	3,810,436	8,795,556	153,556	20,541,195	11,592,083						
Ordage and twine.....	9	93	1,435	2,425	2,651	384,438	1,321,981	5,427,696	107,330	6,094,207	2,558,681						
Cotton goods.....	94	656	7,773	9,644	11,499	2,466,620	10,613,922	22,765,465	665,947	46,064,587	22,633,135						
Cotton small wares.....	29	269	2,587	2,736	2,238	868,805	2,474,697	4,152,961	182,306	10,403,760	6,088,493						
Crunchees.....	4	42	118	325	476	167,984	160,851	302,918	36,330	1,132,862	793,614						

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 employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products 1	Cost of fuel and purchased electric energy	Value of products 1	Value added by manufacture 2
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Cutlery (not including silver and plated cutlery) and edge tools	19	82	657	715	1,502	206,445	785,440	500,070	80,631	2,102,005	1,551,004
Dairyman's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies	6	78	220	555	387	104,436	310,450	441,037	24,002	1,208,073	881,834
Dental goods and equipment	15	144	1,810	248	640	439,634	1,705,128	2,178,576	65,681	7,362,147	5,087,800
Druggists' preparations	40	432	1,780	1,200	2,150	1,309,073	1,838,235	4,028,188	113,690	4,473,519	0,431,734
Drug grinding	4	19	25	30	280	46,830	30,810	200,509	5,483	322,600	110,517
Dyeing and finishing textiles	133	1,218	8,858	20,672	11,050	3,752,505	11,504,737	42,604,728	2,023,225	73,958,407	20,340,510
Electrical machinery, apparatus, and supplies	137	11,165	47,373	57,907	101,427	24,000,421	87,735,688	145,008,139	45,750	347,140,742	107,784,408
Electroplating	37	55	274	150	1,301	154,729	415,638	227,020	45,750	1,255,088	982,309
Embroideries	26	32	422		130	73,100	384,917	100,019	13,123	973,307	700,055
Emery wheels and other abrasive and polishing appliances	0	185	005	1,408	1,016	440,266	808,830	900,010	110,071	3,924,137	2,804,557
Engines, turbines, tractors, and water wheels	20	1,003	0,031	30,602	22,252	4,430,617	10,783,640	12,775,707	775,483	32,255,959	18,704,079
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking	10	2	30		40	(4)	50,120	39,041	1,410	170,185	138,734
Engraving, steel and copperplate, and plate printing	33	316	1,195		882	800,538	1,617,077	1,004,282	39,029	5,008,837	4,054,326
Envelopes	10	174	787		676	501,830	734,121	1,000,550	29,006	4,003,537	2,307,562
Explosives	18	201	1,121	2,439	5,164	593,458	1,633,358	4,020,201	240,810	11,069,844	7,102,533
Fancy and miscellaneous articles, not elsewhere classified	55	186	1,483		507	513,400	1,315,188	2,004,730	32,336	5,883,072	3,240,000
Feed, prepared, for animals and fowls	68	110	407	1,430	5,115	210,040	638,720	16,060,600	100,713	10,200,120	2,487,801
Fertilizers	20	150	570	591	2,610	341,407	668,346	4,370,085	132,074	6,729,084	2,221,825
Files	5	06	900	1,025	1,904	217,180	1,119,622	404,170	127,408	2,980,433	2,448,855
Fireworks	7	15	54		29	31,785	47,603	115,563	1,878	247,619	132,178
Flags and banners	7	44	206		93	110,234	155,510	614,536	6,006	1,070,059	467,829
Flavoring extracts and flavoring sirups	33	155	273	1,217	686	445,462	337,459	1,632,834	59,703	5,102,000	3,400,469
Flour and other grain-mill products	410	107	801	18,149	10,457	413,472	1,011,647	17,206,430	278,703	21,593,798	4,048,500
Food preparations, not elsewhere classified	62	130	360	44	1,141	348,520	393,295	3,207,303	71,051	5,080,045	1,740,701
Forgings, iron and steel, not made in plants operated in connection with rolling mills	30	340	2,592	2,160	18,053	1,090,549	3,605,544	0,841,077	1,075,344	10,421,592	8,504,571
Foundry and machine-shop products, not elsewhere classified	870	12,311	55,304	48,523	242,493	34,424,444	83,759,897	142,969,956	7,899,900	374,041,290	223,201,368
Foundry supplies	12	41	110	585	850	111,055	176,409	622,899	25,780	1,282,755	634,070
Fur goods	128	142	440		220	341,000	220	3,194,566	34,244	5,479,598	2,250,828
Furnishing goods, men's, not elsewhere classified	51	170	3,230		672	317,068	2,016,239	5,838,933	52,580	10,830,193	4,944,074
Furniture, including store and office fixtures	265	1,554	12,159	15,138	21,940	4,218,390	15,022,033	23,938,100	808,256	55,511,020	30,705,610
Galvanizing and other coating, not done in plants operated in connection with rolling mills	8	42	277	50	552	173,790	361,347	808,425	58,722	1,607,504	830,417
Gas and electric fixtures; lamps, lanterns, and reflectors	41	227	1,157	375	818	617,729	1,456,305	2,167,369	70,195	5,575,938	3,332,872
Gas machines, gas meters, and water and other liquid meters	10	307	1,789	825	2,125	753,172	2,731,506	5,152,766	112,548	12,614,752	7,340,438
Gas, manufactured, illuminating and heating	64	1,471	3,290	25,416	8,615	2,070,079	4,648,394	5,610,381	6,946,585	38,241,814	25,084,848
Glass	70	1,574	18,521	17,097	97,067	4,037,100	24,110,190	20,742,147	0,400,908	81,050,092	50,007,037
Glass products (except mirrors) made from purchased glass	60	106	1,324	40	1,078	411,408	1,509,894	4,026,639	64,600	0,601,048	2,600,700
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics	6	18	180		142	27,133	114,827	367,541	4,421	631,204	259,302
Glue and gelatin	7	85	480	1,898	115	330,099	707,245	3,155,023	135,030	5,294,341	1,904,288
Gold, silver, and platinum, reducing and refining, not from the ore	3	18	9		42	40,334	18,164	600,468	3,780	750,318	182,068
Grease and tallow, not including lubricating greases	37	124	608	1,104	3,364	330,597	961,460	5,083,654	241,964	7,608,918	2,283,300
Hair work	6	3	20		3	2,832	30,072	11,888	915	7,303,690	90,887
Handkerchiefs	7	22	513		120	30,305	393,430	1,369,881	10,119	2,384,953	1,014,953
Hand stamps and stencils and brands	25	137	378		683	375,590	506,369	561,243	26,034	1,256,284	1,628,107
Hardware not elsewhere classified	42	609	4,470	1,490	6,184	1,489,273	5,309,389	5,241,480	301,824	16,024,470	11,081,172
Hats and caps, except felt and straw, men's	50	59	461		217	110,493	605,382	921,673	19,863	2,313,673	1,372,137
House-furnishing goods, not elsewhere classified	54	130	850	100	991	390,347	936,320	4,710,133	55,458	7,213,221	2,447,630
Ice cream	200	867	3,091	5,203	28,206	2,224,131	4,597,176	20,448,874	1,050,494	47,010,793	25,511,335
Ice, manufactured	207	556	1,094	23,622	61,398	1,474,402	3,113,619	617,228	2,131,710	15,777,987	13,029,049
Ink, printing	13	113	236	25	1,618	407,943	410,067	1,110,653	50,115	3,443,194	2,270,336
Instruments, professional and scientific	30	719	2,228	615	1,714	1,851,982	2,633,453	8,077,238	104,178	12,070,345	8,288,929
Iron and steel: Blast furnaces	30	720	8,180		2,082,707	13,918,094	108,547,851	60,495,274	280,711,528	45,668,403	
Iron and steel: Steel works and rolling mills	168	13,937	145,694	1,990,017	607,505	38,085,010	248,618,590	639,713,769	70,133,810	1,212,870,866	503,029,271
Jewelry	68	153	633	12	881	342,288	686,612	1,709,100	21,373	4,082,240	2,201,707
Jewelry and instrument cases	9	15	133	24	80	34,060	145,806	204,642	4,075	513,407	304,090
Jute goods	5	62	804	1,700	2,429	180,295	793,195	2,525,883	71,794	4,380,651	1,701,974
Knit goods	482	3,473	62,141	10,548	28,481	11,772,331	78,990,922	143,095,976	2,017,071	204,322,880	140,208,993
Labels and tags	15	175	723	30	612	387,493	606,226	1,501,894	28,457	3,751,725	2,221,674
Lace goods	12	470	3,634	4,735	830	1,931,317	3,723,273	4,985,030	165,934	15,840,820	10,084,165
Lasts and related products	4	11	56		208	37,311	79,210	41,805	10,997	103,444	163,442
Leather goods, not elsewhere classified	21	50	202	75	149	100,701	210,015	510,232	0,857	2,092,857	506,208
Leather: Tanned, curried, and finished	69	580	8,876	28,009	9,513	2,301,951	11,323,960	69,243,903	1,085,275	95,958,520	25,029,412
Lime	29	121	1,462	2,218	14,859	258,209	1,731,840	1,026,444	900,748	5,990,595	4,027,393
Lithography	27	275	1,368	610	1,230	958,181	2,160,340	2,459,495	70,310	7,835,987	5,800,170
Lubricating oils and greases, not made in petroleum refineries	32	408	421	2,634	1,148	1,092,611	591,443	6,202,258	92,181	12,030,241	5,735,852
Lumber and timber products, not elsewhere classified	324	188	3,417	10,100	1,015	303,726	3,352,140	2,712,149	86,005	10,874,012	8,075,258
Macaroni, spaghetti, vermicelli and noodles	21	70	710	70	2,235	102,756	585,680	3,091,221	104,213	5,145,646	1,950,212
Machine-tool accessories and small metal-working tools, not elsewhere classified	30	143	897	81	2,092	500,129	1,374,516	909,750	90,177	3,943,723	2,943,706
Machine tools	22	526	2,082	4,705	5,481	1,284,890	4,037,915	3,090,439	213,193	15,610,883	11,407,281
Marble, granite, slate, and other stone products	100	348	3,440	6,844	13,874	943,728	4,783,040	3,465,797	454,154	12,636,522	8,716,571

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 employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
Mattresses and bed springs, not elsewhere classified	60	192	1,004	9	2,545	Dollars 471,508	Dollars 1,229,333	Dollars 3,459,560	Dollars 75,271	Dollars 6,444,480	Dollars 2,900,650
Meat packing, wholesale	132	1,129	5,232	9,365	9,975	3,223,205	7,883,980	109,957,689	785,428	132,783,116	22,039,990
Millinery	33	126	1,071	259	343	328,432	1,121,818	2,211,560	42,491	4,896,024	2,642,583
Minerals and earths, ground or otherwise treated	9	43	462	505	17,251	104,021	644,658	2,070,585	495,703	4,180,981	1,614,638
Mirror and picture frames	9	18	141	-----	211	39,766	139,295	260,432	6,714	552,577	285,431
Mirrors, framed and unframed	27	68	484	55	910	217,024	645,694	1,486,610	40,785	3,098,493	1,560,089
Models and patterns, not including paper patterns	69	46	589	55	1,047	93,168	939,494	302,800	25,325	2,161,475	1,743,281
Motion pictures, not including projection in theaters	5	35	46	-----	61	99,203	55,400	213,575	4,713	442,890	224,602
Motor-vehicle bodies and motor-vehicle parts	82	1,279	11,678	2,358	49,684	3,511,331	17,836,074	26,697,552	920,840	60,827,860	33,209,471
Motor vehicles, not including motorcycles	14	1,057	7,731	2,052	10,047	2,410,840	11,738,024	59,775,586	330,662	100,488,760	40,376,512
Mucilage, paste, and other adhesives, except glue and rubber cement	7	10	25	28	45	49,399	29,571	178,372	3,391	346,277	164,514
Musical-instrument parts and materials: Piano and organ	6	19	73	-----	185	68,788	108,782	186,970	5,064	408,718	216,078
Musical instruments and parts and materials, not elsewhere classified	4	8	52	-----	109	24,850	79,133	32,933	4,963	170,336	132,440
Musical instruments: Organs	7	25	146	-----	288	64,824	234,352	240,903	7,126	642,502	394,473
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills	6	29	210	125	1,189	96,454	262,340	616,834	38,797	1,185,235	529,604
Needles, pins, hooks and eyes, and snap fasteners	4	157	1,168	277	726	471,379	1,233,301	1,040,938	41,150	3,859,504	2,771,506
Nonferrous-metal alloys and products, not including aluminum products	122	690	4,808	2,018	20,149	2,105,107	7,065,845	20,046,862	897,401	46,852,570	10,908,247
Oils, not elsewhere classified	8	72	66	210	211	278,936	101,750	1,522,962	22,884	2,319,714	773,808
Optical goods	8	94	398	-----	576	255,848	456,770	932,170	23,658	2,578,286	1,572,458
Paints and varnishes	106	1,230	2,835	9,103	10,008	3,358,478	4,262,373	29,636,567	644,670	48,905,801	18,684,555
Paper	56	1,016	7,026	110,424	32,229	2,972,930	9,966,431	37,587,739	4,051,246	72,837,456	31,198,471
Pulp (wood and other fiber)	9	126	1,290	-----	495,372	1,840,477	1,840,477	8,273,025	14,493,540	5,490,494	
Paper goods, not elsewhere classified	28	322	1,084	283	2,036	973,988	1,233,499	4,150,707	90,133	8,178,317	3,937,417
Patent or proprietary medicines and compounds	113	459	860	1,184	1,541	1,330,055	1,009,738	4,707,067	82,303	17,216,136	12,366,700
Paving materials: Asphalt, tar, crushed slag, and mixtures	27	106	500	3,848	5,038	327,670	832,171	1,730,961	213,121	4,751,843	2,708,706
Perfumes, cosmetics, and other toilet preparations	38	153	332	137	137	487,743	665,819	1,517,553	11,002	3,827,281	2,298,726
Petroleum refining	48	1,000	7,895	36,802	35,932	4,027,916	12,580,298	191,481,156	3,562,052	243,258,860	48,215,658
Photo-engraving, not done in printing establishments	44	330	959	-----	644	1,008,806	2,614,625	725,193	58,991	6,077,067	5,292,883
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	427	1,511	5,558	13,460	34,285	4,001,511	8,403,323	16,180,953	616,175	35,306,905	18,560,867
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	20	616	4,817	5,505	18,311	1,609,250	6,386,346	7,576,923	931,573	22,541,465	14,032,964
Pocketbooks, purses, and cardcases	17	119	1,040	160	123	302,087	957,711	2,340,421	11,245	4,306,827	1,955,161
Pottery, including porcelain ware	21	285	3,019	995	4,803	723,310	3,636,807	1,268,051	627,184	8,144,027	6,258,792
Printing and publishing, book and job	1,038	2,732	11,245	1,037	14,584	7,596,055	17,260,426	19,350,582	662,362	65,360,857	45,847,913
Printing and publishing, music	5	25	13	-----	33	52,112	16,721	15,438	1,921	293,990	270,631
Printing and publishing, newspaper and periodical	659	12,282	13,284	4,984	30,150	25,888,870	24,609,480	40,163,090	1,183,668	200,500,834	150,154,076
Printing materials, not including type or ink	4	20	68	10	89	90,436	104,591	176,040	6,984	830,256	647,230
Pumps (hand and power) and pumping equipment	24	508	1,841	2,340	4,373	1,383,277	3,055,712	6,293,800	213,469	13,220,864	6,722,585
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	12	66	448	235	1,403	171,695	695,330	842,548	32,627	2,156,491	1,281,310
Regalia, badges, and emblems	6	14	54	-----	30	27,232	62,694	97,481	2,460	224,471	124,539
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint	8	188	503	270	3,224	479,276	854,501	5,110,830	223,753	9,404,349	4,060,760
Rubber goods other than tires, inner tubes, and boots and shoes	22	362	2,117	1,740	17,110	833,580	2,504,735	4,889,791	633,935	12,046,828	6,523,102
Rubber tires and inner tubes	6	225	1,637	250	11,474	599,334	1,926,509	7,103,215	272,355	13,491,443	6,115,873
Saddlery and harness	13	11	79	74	35	24,971	88,308	242,752	3,261	480,079	240,066
Sandpaper, emery paper, and other abrasive paper and cloth	3	122	301	1,275	2,170	278,640	578,954	2,452,217	104,465	3,909,486	1,352,804
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	28	64	359	285	1,124	107,924	567,621	6,195,828	63,910	7,878,302	1,618,594
Scales and balances	6	83	186	26	578	177,181	263,803	230,795	11,466	784,350	636,080
Screw-machine products and wood screws	24	131	916	630	2,691	542,497	1,177,563	1,278,064	116,090	4,449,640	3,055,492
Ship and boat building, steel and wooden, including repair work	17	414	3,856	2,875	25,050	899,606	5,287,492	5,058,135	351,040	13,487,898	8,078,723
Shirts	211	767	16,478	30	3,669	1,864,214	10,672,293	23,308,993	267,885	47,593,671	24,016,883
Signs and advertising novelties	72	207	1,100	20	1,069	566,323	1,631,096	2,077,762	141,734	6,469,246	4,249,750
Silk and rayon manufactures	497	3,191	61,544	30,249	72,136	8,456,116	59,013,179	169,372,690	4,228,487	320,935,551	147,834,474
Smelting and refining, metals other than gold, silver, or platinum, not from the ore	14	141	783	120	1,844	522,091	803,349	15,920,340	405,349	19,204,805	2,879,116
Smelting and refining, zinc	3	262	3,583	39,123	8,315	856,171	5,658,550	14,022,841	2,376,087	34,843,205	17,846,327
Soap	30	237	673	3,924	674	688,416	832,506	8,413,225	121,944	14,571,265	6,036,096
Springs, steel, except wire, not made in plants operated in connection with rolling mills	14	236	1,871	2,101	6,498	751,554	3,079,253	7,756,776	556,125	15,187,227	6,874,326
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	38	300	2,154	30	4,635	824,038	2,660,849	4,083,125	280,226	9,996,451	5,633,100
Stationery goods, not elsewhere classified	12	132	478	430	242	329,614	489,860	1,419,533	20,617	2,873,024	1,432,874
Statuary and art goods, factory product	15	35	223	36	106	96,828	361,423	207,562	10,003	901,384	683,819

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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ¹
				Prime movers	Electric motors driven by purchased energy						
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	26	301	1,624	10,384	2,861	Dollars 848,800	Dollars 2,247,042	Dollars 3,966,005	Dollars 581,684	Dollars 8,616,823	Dollars 4,060,134
Steam fittings and steam and hot-water heating apparatus	39	961	6,070	4,332	14,049	2,373,906	8,577,681	9,353,992	774,907	32,379,203	22,250,214
Steel barrels, kegs, and drums	6	26	286	-----	725	135,641	422,267	1,931,112	39,049	2,959,080	988,269
Stereotyping and electrotyping, not done in printing establishments	15	84	411	-----	909	281,967	881,967	231,383	52,170	2,245,096	1,961,543
Stoves and ranges (other than electric) and warm-air furnaces	61	688	3,907	875	10,154	1,705,884	5,723,045	9,090,596	432,600	25,574,948	15,445,602
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	146	2,508	11,421	18,009	44,541	6,845,282	17,509,778	58,462,943	1,090,703	102,230,002	42,670,856
Sugar refining, cane	3	271	1,715	17,208	-----	769,029	2,720,953	64,737,839	1,085,329	73,989,294	8,166,070
Surgical and orthopedic appliances, including artificial limbs	35	149	673	83	193	423,302	728,803	709,760	17,440	2,728,779	1,911,579
Tanning materials, natural dyestuffs, mordants and assistants, and sizes	15	94	236	1,190	241	374,940	806,704	2,600,367	40,322	4,544,638	1,807,949
Textile machinery and parts	61	1,075	6,088	2,187	7,653	3,412,462	9,873,647	9,624,607	330,520	31,066,975	21,105,842
Tin cans and other tinware, not elsewhere classified	24	244	1,793	753	2,127	578,082	1,930,405	10,090,113	117,511	14,284,121	4,070,497
Tobacco: Chewing and smoking, and snuff	27	37	264	242	472	179,648	257,849	2,088,656	25,841	4,408,939	2,264,433
Tools, not including edge tools, machine tools, files, or saws	49	410	2,173	1,864	6,269	1,144,686	2,563,388	3,985,316	331,294	10,595,719	6,279,109
Toys (not including children's wheel goods or sleds), games, and playground equipment	33	201	1,823	374	2,144	531,167	1,695,695	2,622,250	83,496	6,521,709	3,815,963
Trimmings (not made in textile mills) and stamped art goods for embroidering	32	26	242	-----	170	41,955	244,807	407,974	14,093	1,027,236	605,160
Trunks, suitcases, and bags	43	115	1,252	130	341	351,635	1,470,944	4,334,068	32,407	7,680,271	3,322,736
Umbrellas, parasols, and canes	15	188	815	1,095	486	349,242	711,657	2,085,107	45,753	3,899,862	1,769,002
Upholstering materials, not elsewhere classified	5	38	255	590	159	141,574	255,711	1,378,377	83,901	2,168,570	691,232
Vinegar and cider	6	11	88	225	171	19,759	49,400	195,253	9,150	420,914	216,566
Wall paper	13	107	1,151	1,630	503	645,634	1,395,333	3,088,035	103,321	6,793,653	3,602,297
Wall plaster, wall board, insulating board, and floor composition	14	73	128	-----	4,757	170,310	181,376	450,030	56,054	1,154,926	630,842
Waste	26	164	441	400	1,567	338,208	430,562	4,279,158	51,822	6,072,851	1,741,871
Window and door screens and weather strip	10	36	213	360	359	148,344	293,931	544,799	14,516	1,273,660	714,345
Window shades and fixtures	19	55	274	-----	139	183,218	308,765	1,352,414	16,231	2,192,792	824,147
Wire, drawn from purchased bars or rods	11	398	2,384	3,305	14,490	1,437,397	3,409,236	11,352,659	495,336	20,330,687	8,491,652
Wirework, not elsewhere classified	55	418	2,959	994	8,591	1,138,297	3,478,705	11,956,070	410,982	26,784,078	14,417,026
Wood distillation and charcoal manufacture	22	73	648	1,092	141	146,899	710,269	1,565,850	566,840	3,654,306	1,491,610
Wood preserving	6	8	110	998	58	20,328	150,661	2,891,598	18,136	3,493,128	583,424
Wood turned and shaped and other wooden goods, not elsewhere classified	58	120	1,231	2,786	2,594	271,080	1,233,381	1,530,188	74,741	4,064,224	2,450,205
Woolen goods	69	463	6,231	8,921	10,717	1,730,058	7,940,030	28,178,484	600,246	44,328,145	15,540,415
Wool pulling	4	19	239	125	310	112,840	399,314	5,153,855	36,161	6,517,100	1,327,084
Worsted goods	61	752	10,692	19,226	10,724	2,528,284	12,458,290	51,134,172	846,348	81,204,842	29,224,322
Wrought pipe, welded and heavy riveted—not made in plants operated in connection with rolling mills	9	455	5,346	11,820	11,845	1,496,012	8,000,269	28,525,238	1,280,837	49,154,190	19,339,115
Other industries	237	6,798	45,599	50,399	141,006	16,806,929	60,471,422	142,323,345	4,840,545	298,852,480	146,688,590

¹ 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.

² 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.

³ Not including data for 27,494 employees of central administrative offices, with salaries aggregating \$30,485,081. See GENERAL EXPLANATIONS—Persons Engaged.

⁴ 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 employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

PHILADELPHIA INDUSTRIAL AREA

[This area comprises Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania, and Burlington, Camden, and Gloucester Counties, New Jersey. 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]

						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	7,184	62,880	376,009	502,516	775,790	109,510,736	510,540,801	1,488,231,423	61,327,073	2,981,045,601	1,431,480,665
Artificial and preserved flowers and plants.....	7	14	183	-----	32	42,057	135,861	232,352	3,426	556,019	320,641
Awnings, tents, sails, and canvas covers.....	41	59	267	-----	127	131,760	339,438	1,169,457	10,374	2,070,990	800,268
Bags, other than paper, not made in textile mills.....	9	41	339	-----	208	131,442	206,487	3,035,041	17,414	4,248,229	1,195,774
Baskets and rattan and willow ware, not including furniture.....	10	36	301	165	161	104,006	298,796	620,988	10,230	1,360,020	718,768
Belting, leather.....	16	38	274	230	304	119,221	415,966	2,559,624	13,604	4,160,465	1,587,177
Beverages.....	122	189	771	2,545	1,862	526,456	1,262,412	2,593,972	177,012	7,826,426	5,055,442
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	5	37	240	310	913	166,632	320,681	518,978	25,573	1,533,408	988,857
Bookbinding and blank-book making.....	67	160	1,245	-----	929	440,825	1,425,881	843,968	86,040	3,739,387	2,858,779
Boots and shoes, other than rubber.....	47	873	3,260	1,310	1,314	814,550	3,983,349	5,537,980	86,980	12,080,613	7,056,044
Boxes, cigar, wooden.....	7	17	355	424	188	31,935	822,525	551,841	11,825	1,131,402	607,730
Boxes, paper, not elsewhere classified.....	73	475	3,818	228	6,216	1,289,690	3,772,001	11,408,950	279,075	20,128,009	8,439,984
Boxes, wooden, except cigar boxes.....	29	102	831	4,010	824	381,245	1,077,239	2,309,612	45,095	4,800,591	2,445,854
Bread and other bakery products.....	671	1,177	8,737	2,880	13,218	2,853,459	12,001,588	32,414,328	1,395,885	71,800,118	37,989,905
Brooms.....	12	6	128	90	147	15,117	132,753	305,714	4,637	620,097	309,741
Brushes, other than rubber.....	18	45	219	-----	151	116,410	249,142	706,153	10,209	1,488,496	772,074
Butter.....	28	33	48	310	201	23,509	57,427	934,666	22,270	1,140,677	183,735
Car and general construction and repairs, electric-railroad repair shops.....	12	93	994	-----	3,790	220,921	1,530,292	1,020,879	24,201	3,403,120	1,757,980
Car and general construction and repairs, steam-railroad repair shops.....	20	470	4,734	3,405	6,311	1,101,783	8,014,035	3,734,547	265,017	13,205,382	9,205,818
Cardboard, not made in paper mills.....	3	107	258	580	69	421,820	343,622	1,011,348	19,332	2,488,822	1,458,092
Card cutting and designing.....	10	40	254	-----	377	148,276	283,160	346,651	6,009	1,088,635	715,315
Carpets and rugs, rag.....	5	8	82	-----	275	22,452	70,724	95,836	7,359	228,485	127,591
Carpets and rugs, wool, other than rag.....	30	570	5,275	4,520	6,431	2,006,180	7,351,126	18,678,851	498,715	86,140,021	17,005,755
Carrriages and sleds, children's.....	4	35	184	100	166	93,919	228,842	495,770	15,598	900,770	380,402
Caskets, coffins, burial cases, and other morticians' goods.....	11	60	208	220	554	253,248	371,835	532,058	14,901	1,797,492	1,250,533
Cast-iron pipe.....	7	117	2,470	575	7,073	259,177	3,310,527	4,224,335	630,452	9,487,862	4,632,575
Cheese.....	3	7	20	10	10	-----	8,202	28,413	1,073	46,808	17,322
Chemicals, not elsewhere classified.....	23	701	1,940	10,454	8,022	1,640,688	2,981,843	13,800,324	962,771	25,600,788	10,888,093
Chocolate and cocoa products, not including confectionery.....	4	159	507	3,065	2,832	533,915	675,643	1,275,345	5,253,048	8,840,379	3,450,301
Cigars and cigarettes.....	73	564	10,766	1,293	3,143	1,906,331	8,891,656	27,339,472	218,116	65,302,491	37,830,003
Clay products (other than pottery) and nonclay refractories.....	40	234	2,604	3,752	5,701	727,130	3,177,451	3,356,739	1,112,600	12,404,849	8,025,501
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	334	1,049	14,098	115	2,830	2,687,866	17,656,132	43,645,541	307,118	86,236,177	42,383,518
Clothing, men's, buttonholes.....	7	3	97	-----	15	3,640	98,406	16,955	1,285	165,854	147,614
Clothing, women's, not elsewhere classified.....	313	819	0,476	-----	1,039	1,834,184	10,037,723	31,624,750	176,651	58,704,675	26,903,274
Clothing work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	25	43	655	-----	120	80,122	537,266	1,597,621	16,779	2,774,611	1,160,211
Coffee and spice, roasting and grinding.....	25	149	238	250	1,041	327,851	254,633	10,268,304	63,871	13,120,317	2,788,142
Coke, not including gas-house coke.....	3	278	501	5,125	9,615	444,020	1,148,686	256,438	6,505,828	10,991,005	4,228,730
Compressed and liquefied gases.....	11	94	118	197	3,138	164,669	203,956	379,594	118,873	2,199,970	1,701,593
Concrete products.....	60	117	533	355	1,868	225,935	702,125	830,057	70,324	2,571,870	1,662,489
Confectionery.....	107	442	3,522	1,361	4,515	1,330,754	3,216,237	9,376,594	275,432	19,862,164	10,200,138
Coverage.....	18	27	207	785	182	60,216	411,049	2,092,608	20,870	3,094,611	981,103
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	65	371	1,243	320	1,503	941,475	1,897,054	3,443,864	70,635	8,283,731	4,769,242
Cordage and twine.....	7	101	1,165	2,295	3,814	401,153	1,194,968	3,697,417	98,857	6,684,030	2,887,756
Cotton goods.....	97	631	7,251	7,259	9,481	2,376,013	10,206,252	21,701,976	591,080	47,702,286	21,427,230
Cotton small wares.....	24	160	2,059	2,736	1,091	600,407	2,001,222	3,165,396	122,604	8,148,653	4,860,653
Cutlery (not including silver and plated cutlery) and edge tools.....	7	24	213	393	94	53,959	230,366	120,628	22,763	554,755	411,374
Dental goods and equipment.....	11	112	1,133	8	430	336,605	1,100,740	1,312,998	65,606	3,611,938	2,233,333
Druggists' preparations.....	23	393	1,463	1,200	1,672	1,132,512	1,543,310	4,245,890	87,917	12,369,224	8,035,408
Dyeing and finishing textiles.....	117	975	6,560	16,470	10,722	3,259,839	8,718,698	41,199,690	1,467,474	66,799,386	24,162,222
Electrical machinery, apparatus, and supplies.....	68	3,898	17,237	8,247	19,912	9,489,575	23,602,647	63,746,988	1,116,762	146,716,367	81,852,607
Electroplating.....	19	32	126	150	247	75,839	196,609	60,425	16,883	501,107	423,799
Embroideries.....	21	25	265	-----	81	59,886	272,809	124,132	8,395	748,136	615,609
Emery wheels and other abrasive and polishing appliances.....	6	105	537	1,200	831	399,880	753,333	923,006	107,537	3,687,515	2,650,972
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking ¹	10	2	39	-----	46	(*)	59,126	39,041	1,410	179,185	138,734
Fancy and miscellaneous articles, not elsewhere classified.....	48	155	1,300	-----	345	433,723	1,170,087	2,272,939	25,816	5,132,640	2,833,885
Feeds, prepared, for animals and fowls.....	13	31	65	258	945	50,704	86,639	2,001,840	20,463	2,433,952	411,640
Fertilizers.....	8	115	493	1,155	1,417	288,198	600,361	3,568,884	117,902	5,269,172	1,582,386
Files.....	5	66	900	1,025	1,994	217,186	1,119,622	404,170	127,622	2,980,433	2,448,855
Fireworks.....	4	4	20	-----	16	12,065	13,108	57,950	1,283	112,848	53,615
Flavoring extracts and flavoring sirups.....	25	133	236	537	405	381,690	274,637	1,404,749	40,346	4,556,787	3,110,692

See footnotes at end of this section, p. 454.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PHILADELPHIA INDUSTRIAL AREA—Continued											
Flour and other grain-mill products	33	35	103	2,355	221	Dollars 66,304	Dollars 135,235	Dollars 1,940,327	Dollars 28,051	Dollars 2,381,806	Dollars 413,488
Food preparations, not elsewhere classified	30	86	186	25	590	213,659	217,331	1,739,048	34,402	2,795,283	1,020,843
Forgings, iron and steel, not made in plants operated in connection with rolling mills	13	154	681	1,044	4,043	537,895	1,093,480	2,320,687	846,808	5,060,493	2,392,698
Foundry and machine-shop products, not elsewhere classified	303	3,712	14,256	9,287	40,787	10,317,608	23,045,038	29,910,611	1,603,905	93,407,755	61,893,239
Foundry supplies	5	17	59	20	318	34,416	83,597	149,524	12,231	373,215	216,460
Fur goods	113	102	337	-----	191	236,386	661,719	2,022,283	20,469	4,788,383	1,830,631
Furnishing goods, men's, not elsewhere classified	24	93	664	-----	114	201,394	626,355	2,690,928	12,538	4,495,102	1,701,636
Furniture, including store and office fixtures	127	600	4,256	2,828	6,639	1,946,304	6,684,903	9,297,722	248,762	22,313,239	12,760,755
Gas and electric fixtures; lamps, lanterns, and reflectors	36	250	1,280	1,075	904	658,628	1,616,362	2,300,341	89,691	6,170,149	3,780,117
Gas machines, gas meters, and water and other liquid meters	4	73	330	185	125	210,271	491,004	678,996	21,725	2,242,316	1,241,696
Gas, manufactured, illuminating and heating	12	1,164	2,406	21,770	7,350	2,443,894	3,480,285	4,795,747	5,639,000	34,272,154	28,837,811
Glass	6	110	865	2,340	1,171	351,201	1,006,522	991,893	309,001	3,059,732	2,355,838
Glass products (except mirrors) made from purchased glass	24	50	389	-----	196	120,890	520,679	600,870	20,858	1,667,593	1,036,893
Glue and gelatin	5	71	240	1,005	175	312,838	364,502	1,804,742	110,393	3,406,724	1,482,561
Grease and tallow, not including lubricating greases	11	64	341	510	1,542	179,228	497,701	3,392,330	84,323	4,893,933	1,207,240
Hair work	6	3	23	-----	3	2,832	30,672	11,888	115	78,690	39,887
Hand stamps and stencils and brands	15	21	200	-----	231	74,470	266,687	208,506	13,932	809,022	67,684
Hardware not elsewhere classified	14	125	702	593	483	255,335	1,007,782	2,150,529	57,817	4,837,413	2,629,067
Hats and caps, except felt and straw, men's	49	42	324	-----	167	84,233	457,081	671,950	16,032	1,742,082	1,054,071
House-furnishing goods, not elsewhere classified	41	113	755	100	313	310,321	324,233	3,722,081	47,846	5,832,476	2,082,549
Ice cream	53	380	1,146	1,276	9,170	935,065	1,785,999	3,846,717	267,790	21,277,118	12,168,000
Ice, manufactured	18	210	876	8,382	33,224	762,594	1,426,213	243,845	1,133,065	8,153,447	6,776,437
Ink, printing	13	113	238	25	1,618	407,943	410,667	1,110,553	56,115	3,443,104	2,276,336
Instruments, professional and scientific	30	505	1,573	615	1,373	1,295,364	2,024,734	2,206,627	84,802	8,041,640	5,750,820
Iron and steel: Blast furnaces	3	36	351	-----	155	155,049	679,730	6,095,572	3,475,189	11,874,032	2,303,271
Iron and steel: Steel works and rolling mills	24	1,754	13,057	100,846	75,365	4,409,484	21,513,730	41,202,737	7,550,844	89,486,605	40,724,084
Jewelry	52	118	440	-----	255	232,346	713,780	1,481,211	14,050	3,261,098	1,765,828
Knit goods	204	2,079	32,803	6,058	13,938	7,006,003	40,484,182	77,680,375	1,139,592	104,821,444	80,101,477
Labels and tags	11	130	647	36	523	329,330	628,070	1,324,704	24,025	3,311,340	1,992,618
Lace goods	6	203	1,563	1,425	626	920,890	1,405,475	1,450,303	106,068	6,671,308	5,114,307
Laths and related products	4	11	50	-----	208	37,311	79,210	41,805	10,997	6,215,944	103,442
Leather and related products	17	86	171	15	59	83,972	100,035	276,635	6,499	853,476	470,342
Leather: Tanned, curried, and finished	38	478	6,672	14,271	5,407	2,057,629	3,747,793	40,362,369	614,640	58,995,278	17,028,269
Lithographing	21	195	998	910	680	681,135	1,684,552	1,922,466	52,988	5,886,354	3,010,900
Lubricating oils and greases, not made in petroleum refineries	13	331	173	525	855	893,341	260,675	1,676,240	35,271	5,562,731	3,852,211
Lumber and timber products, not elsewhere classified	5	9	41	210	14	18,380	58,167	65,980	3,110	183,842	114,743
Machine-tool accessories and small metal-working tools, not elsewhere classified	14	23	256	40	299	80,182	403,677	89,520	17,384	873,718	706,805
Machine tools	8	113	600	1,366	750	362,417	950,704	540,412	53,794	2,326,020	1,726,744
Marble, granite, slate, and other stone products	60	100	711	644	3,099	235,552	1,194,593	1,540,328	79,038	3,848,381	2,230,015
Mattresses and bed springs, not elsewhere classified	29	79	409	9	786	182,155	486,306	1,638,036	30,520	2,822,795	1,253,330
Meat packing, wholesale	52	349	1,063	2,250	3,239	998,777	3,040,575	47,705,718	312,630	56,865,686	8,847,938
Mirror and picture frames	6	3	21	-----	19	5,737	28,418	79,811	1,149	167,472	77,012
Mirrors, framed and unframed	14	22	154	30	334	59,912	255,076	710,432	23,584	1,391,268	657,252
Models and patterns, not including paper patterns	33	13	286	55	400	24,718	405,164	160,488	9,439	959,910	784,042
Motor-vehicle bodies and motor-vehicle parts	88	929	8,602	555	39,523	2,006,702	13,620,608	20,594,544	561,421	45,473,050	24,407,085
Mucilage, paste, and other adhesives, except glue and rubber cement	7	19	25	28	45	46,399	29,571	178,372	3,391	346,277	164,514
Musical instruments: Organs	3	10	44	-----	62	19,980	63,714	82,998	2,923	169,940	114,014
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills	3	18	120	125	50	49,492	104,990	107,063	5,444	390,657	283,250
Nonferrous-metal alloys and products, not including aluminum products	61	388	2,123	2,033	9,868	1,223,403	3,267,653	13,077,153	475,585	21,823,771	8,271,033
Oils, not elsewhere classified	8	72	66	219	211	278,936	101,750	1,522,062	22,884	2,810,714	773,868
Paints and varnishes	75	788	1,690	7,079	2,602	2,078,024	2,432,859	19,931,847	336,209	31,989,600	11,722,050
Paper	31	692	4,092	48,687	17,771	2,044,120	5,675,519	19,124,922	2,576,010	40,933,885	19,232,747
Paper goods, not elsewhere classified	23	100	398	408	741	319,075	417,011	1,889,931	34,864	3,287,539	1,363,044
Patent or proprietary medicines and compounds	65	309	640	793	1,068	1,006,881	822,212	3,938,179	64,005	14,000,941	10,598,757
Paving materials: Asphalt, tar, crushed slag, and mixtures	8	53	263	1,510	1,568	200,881	396,891	1,223,045	114,420	2,582,480	1,245,015
Perfumes, cosmetics, and other toilet preparations	22	117	162	-----	96	404,167	154,576	1,234,846	7,253	3,264,188	2,022,089
Petroleum refining	8	1,131	6,401	41,203	20,706	2,705,284	9,951,475	130,885,529	975,762	182,065,647	60,204,356
Photo-engraving, not done in printing establishments	20	251	713	-----	430	785,296	2,034,212	569,774	41,999	4,671,947	4,060,174
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	102	549	1,871	4,614	6,441	1,563,642	3,093,731	4,573,543	168,800	11,583,065	6,840,713
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	14	187	1,009	270	3,874	498,449	1,412,872	2,890,127	116,869	6,286,831	3,279,835
Pocketbooks, purses, and cardcases	14	143	964	160	65	346,008	999,066	2,292,211	13,481	5,018,906	2,713,214
Pottery, including porcelain ware	7	25	230	325	334	73,474	311,856	181,455	63,069	608,548	658,124
Printing and publishing, book and job	546	1,075	6,336	759	7,454	4,625,772	10,243,436	12,039,941	387,946	40,490,416	28,092,529

See footnotes at end of this section, p. 454.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PHILADELPHIA INDUSTRIAL AREA—Continued											
Printing and publishing, music.....	5	25	13	-----	33	Dollars 52, 112	Dollars 16, 721	Dollars 15, 438	Dollars 1, 921	Dollars 293, 900	Dollars 270, 631
Printing and publishing, newspaper and periodical.....	225	7, 579	7, 584	4, 060	25, 312	15, 885, 011	14, 038, 496	36, 838, 844	635, 510	142, 510, 490	105, 030, 186
Printing materials, not including type or ink.....	4	21	76	10	270	99, 879	118, 022	214, 501	9, 600	935, 352	711, 245
Pumps (hand and power) and pumping equipment.....	5	55	98	-----	225	123, 094	177, 353	442, 377	18, 565	1, 047, 976	587, 034
Rubber goods other than tires, inner tubes, and boots and shoes.....	11	217	1, 140	1, 741	12, 092	502, 138	1, 429, 860	2, 971, 074	471, 108	7, 125, 419	3, 083, 237
Saddlery and harness.....	5	3	30	-----	4	5, 619	31, 719	50, 817	270	123, 085	74, 048
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	11	42	236	230	558	113, 938	405, 222	3, 978, 226	39, 430	5, 033, 509	1, 015, 943
Scales and balances.....	3	8	89	26	45	20, 473	135, 939	95, 843	8, 076	318, 067	219, 148
Screw-machine products and wood screws.....	11	57	304	300	637	110, 756	420, 127	473, 632	37, 034	1, 505, 700	995, 043
Ship and boat building, steel and wooden, including repair work.....	15	704	5, 733	16, 027	19, 743	1, 650, 283	8, 510, 074	6, 218, 418	522, 079	20, 251, 949	13, 510, 552
Shirts.....	63	325	4, 278	30	954	941, 438	3, 764, 226	8, 999, 321	30, 700	17, 516, 117	8, 427, 000
Signs and advertising novelties.....	41	74	276	-----	91	207, 549	430, 060	800, 455	9, 105	2, 152, 053	1, 343, 093
Silk and rayon manufactures.....	67	395	5, 526	3, 135	5, 053	1, 418, 015	5, 604, 792	18, 064, 485	207, 303	32, 473, 479	13, 511, 091
Soap.....	21	260	756	4, 607	410	786, 764	929, 482	9, 925, 797	137, 808	10, 356, 724	6, 293, 119
Stamped ware, enameled ware, and metal stamping, enameling, tanning, and lacquering.....	15	77	501	-----	941	210, 567	655, 032	954, 659	35, 467	2, 132, 045	1, 141, 019
Stationary goods, not elsewhere classified.....	6	6	246	60	88	113, 391	248, 733	494, 765	11, 025	1, 115, 740	600, 956
Statuary and art goods, factory product.....	12	33	211	36	105	91, 828	344, 371	201, 308	9, 794	858, 048	646, 046
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	22	288	1, 498	10, 361	1, 794	805, 141	2, 092, 974	3, 426, 145	553, 900	7, 020, 341	3, 640, 236
Steam fittings and steam and hot-water heating apparatus.....	15	432	1, 033	700	3, 432	1, 122, 221	1, 617, 895	4, 539, 354	120, 333	11, 435, 351	6, 766, 064
Stereotyping and electrotyping, not done in printing establishments.....	10	69	407	-----	837	229, 022	878, 551	220, 839	49, 274	2, 134, 715	1, 858, 602
Stoves and ranges (other than electric) and warm-air furnaces.....	22	230	1, 429	325	2, 919	497, 014	2, 035, 532	3, 572, 994	103, 828	8, 500, 534	4, 730, 712
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	46	492	3, 356	4, 770	14, 433	1, 361, 109	4, 943, 800	19, 088, 699	258, 931	31, 247, 530	11, 890, 900
Sugar refining, cane.....	3	271	1, 715	17, 208	-----	769, 029	2, 726, 953	64, 737, 389	1, 085, 320	73, 939, 294	8, 166, 076
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	13	87	219	850	1, 283	349, 342	304, 395	1, 961, 084	62, 997	3, 736, 897	1, 712, 816
Textile machinery and parts.....	44	633	2, 920	2, 207	4, 631	2, 235, 690	4, 630, 230	5, 433, 310	195, 375	16, 891, 000	11, 232, 405
Tin cans and other tinware, not elsewhere classified.....	14	157	825	416	700	326, 736	941, 511	2, 340, 943	55, 226	4, 504, 444	2, 103, 275
Tools, not including edge tools, machine tools, files, or saws.....	17	98	738	1, 052	1, 930	220, 094	767, 709	1, 342, 055	89, 381	2, 024, 042	1, 492, 600
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	16	51	423	324	330	147, 625	373, 471	583, 400	19, 512	1, 432, 516	829, 604
Trunks, suitcases, and bags.....	39	98	1, 380	255	443	303, 516	1, 576, 815	4, 511, 526	34, 018	8, 000, 719	3, 545, 175
Umbrellas, parasols, and canes.....	7	51	353	1, 020	68	121, 968	317, 219	635, 574	27, 555	1, 531, 518	368, 389
Upholstering materials, not elsewhere classified.....	5	38	265	590	159	141, 574	255, 711	1, 378, 377	33, 961	2, 103, 570	691, 232
Wall paper.....	7	85	527	815	229	304, 790	600, 827	1, 514, 062	43, 073	3, 472, 603	1, 915, 553
Wall plaster, wall board, insulating board, and floor composition.....	9	57	98	-----	4, 519	132, 395	141, 400	306, 513	52, 211	909, 641	490, 917
Window and door screens and weather strip.....	5	13	82	360	60	61, 619	112, 301	262, 471	3, 337	507, 934	302, 076
Wirework, not elsewhere classified.....	29	81	655	38	1, 066	180, 340	772, 794	1, 514, 953	63, 437	3, 505, 093	1, 927, 218
Wood turned and shaped and other wooden goods, not elsewhere classified.....	16	22	135	382	208	41, 137	194, 190	179, 629	18, 007	576, 486	383, 350
Woolen goods.....	52	368	5, 175	7, 640	9, 292	1, 562, 336	6, 950, 662	25, 632, 989	522, 603	39, 940, 881	13, 794, 289
Worsted goods.....	63	770	16, 966	21, 376	10, 253	2, 561, 002	12, 548, 035	50, 812, 956	861, 602	81, 031, 998	29, 357, 350
Other industries.....	550	10, 473	61, 656	106, 550	167, 543	27, 673, 450	82, 805, 041	255, 361, 634	7, 190, 343	496, 114, 699	233, 062, 722

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹ The figures for each of the 3 industries covered by this footnote include data for 1 establishment located outside the Philadelphia Industrial Area, to avoid disclosing the figures reported by the establishments in question.

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

PITTSBURGH INDUSTRIAL AREA

[This area comprises Allegheny, Beaver, Washington, and Westmoreland Counties]

All industries, total.....	2, 587	33, 050	227, 221	1, 373, 433	708, 894	Dollars 87, 726, 512	Dollars 357, 075, 488	Dollars 1, 017, 371, 314	Dollars 140, 767, 052	Dollars 2, 015, 399, 034	Dollars 856, 600, 668
Awnings, tents, sails, and canvas covers.....	23	51	122	96	55	73, 049	108, 282	399, 860	5, 633	735, 242	329, 749
Beverages.....	66	108	478	4, 203	1, 093	284, 860	739, 883	1, 399, 245	124, 700	3, 815, 997	2, 292, 052
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	11	453	3, 193	4, 433	9, 346	1, 651, 640	4, 194, 157	10, 112, 300	528, 295	23, 812, 184	13, 171, 469
Bookbinding and blank-book making.....	12	19	112	-----	89	85, 054	134, 076	49, 616	2, 936	350, 361	293, 259
Boxes, paper, not elsewhere classified.....	10	109	526	100	698	307, 818	516, 935	1, 807, 104	30, 323	3, 383, 855	1, 436, 393
Boxes, wooden, except cigar boxes.....	8	26	245	400	1, 159	53, 037	206, 163	763, 227	17, 294	1, 978, 228	597, 707

See footnotes at end of this section, p. 456.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PITTSBURGH INDUSTRIAL AREA—Continued											
Bread and other bakery products.....	450	538	6,539	3,499	7,503	Dollars 1,244,168	Dollars 8,536,179	Dollars 20,000,278	Dollars 776,486	Dollars 46,213,340	Dollars 24,830,570
Brooms.....	7	5	29		47	10,860	31,918	70,504	2,033	145,766	67,220
Brushes, other than rubber.....	4	16	70		172	39,898	102,417	334,331	8,900	536,922	198,601
Car and general construction and repairs, steam-railroad repair shops.....	34	891	10,344	23,161	11,788	2,339,662	18,415,978	23,343,032	592,347	44,700,483	20,704,204
Chemicals, not elsewhere classified.....	16	262	958	1,093	8,921	700,892	1,383,856	8,860,535	674,658	17,626,090	8,081,897
Cigars and cigarettes.....	22	34	618		81	84,183	394,461	557,425	8,904	1,327,812	701,483
Clay products (other than pottery) and nonclay refractories.....	58	294	3,200	2,140	10,901	765,783	4,079,758	1,472,825	1,470,535	11,080,625	8,137,295
Cleaning and polishing preparations.....	8	20	24		39	37,946	30,625	338,015	2,000	544,066	203,901
Clothing (except work clothing), men's, youths' and boys', not elsewhere classified.....	13	48	533	65	153	147,960	479,077	1,252,800	12,912	2,458,085	1,193,183
Coffee and spice, roasting and grinding.....	20	117	142		690	305,597	185,339	9,052,723	31,008	11,187,421	1,203,090
Coke, not including gas-house coke.....	23	478	3,125	95,975	4,550	1,118,298	5,484,950	2,012,749	38,855,071	71,714,533	20,946,713
Compressed and liquefied gases.....	14	171	218	122	5,738	311,170	372,379	518,007	225,902	3,013,862	2,273,063
Concrete products.....	68	101	477	155	1,798	193,672	649,947	1,154,505	72,013	2,800,417	1,663,899
Confectionery.....	23	233	1,777	1,476	2,052	630,396	1,607,252	0,315,009	93,088	11,804,850	5,480,063
Cooperage.....	15	17	135		195	73,799	165,633	801,300	8,456	1,178,720	308,973
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	33	128	848	270	1,515	384,021	1,333,471	4,318,558	54,888	9,724,725	5,351,279
Druggists' preparations.....	8	50	116		440	155,291	64,535	387,307	10,357	971,112	567,388
Electrical machinery, apparatus, and supplies.....	34	4,905	20,027	30,010	26,710	10,154,338	20,847,039	51,010,920	1,000,570	110,480,100	60,277,607
Electroplating.....	8	16	91		808	60,066	142,809	00,132	17,690	449,191	365,390
Flavoring extracts and flavoring sirups.....	17	10	29	555	180	31,050	46,320	148,093	13,722	336,016	175,131
Flour and other grain-mill products.....	13	8	25	425	705	13,488	27,310	327,941	10,142	427,405	89,322
Food preparations, not elsewhere classified.....	8	31	70	7	307	92,939	82,672	832,009	11,227	1,277,622	433,426
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	11	107	639	335	4,031	317,012	1,183,312	2,031,591	369,547	6,184,483	3,183,345
Foundry and machine-shop products, not elsewhere classified.....	175	3,451	15,061	8,777	91,148	10,071,280	24,219,173	52,107,412	2,474,927	120,117,987	65,445,648
Foundry supplies.....	4	20	51	355	497	64,884	81,845	421,081	12,792	790,933	350,460
Fur goods.....	10	38	88		25	102,924	153,913	251,357	4,476	634,561	378,728
Furniture, including store and office fixtures.....	17	72	511		982	191,274	739,121	1,257,307	26,373	2,768,404	1,484,724
Glass.....	40	972	11,734	10,013	41,094	2,444,383	15,059,305	12,003,007	5,524,780	52,220,330	34,032,453
Grease, and tallow, not including lubricating greases.....	0	29	208	110	1,034	97,712	309,166	1,387,060	110,093	2,108,182	701,020
Hand stamps and stencils and brands.....	6	116	173		445	301,090	244,480	288,243	12,712	1,012,520	1,012,520
Hats and caps, except felt and straw, men's.....	4	6	40		14	6,100	68,377	135,810	1,427	254,974	117,728
House-furnishing goods, not elsewhere classified.....	9	20	99		127	71,563	100,500	805,174	6,137	1,188,374	317,063
Ice cream.....	37	106	451	1,600	4,761	254,652	696,675	3,700,736	196,172	7,775,683	3,807,775
Ice, manufactured.....	40	151	549	4,688	15,518	393,845	875,757	143,400	434,773	4,263,170	3,084,991
Iron and steel: Steel works and rolling mills.....	71	7,157	30,392	1,095,901	253,737	20,965,487	140,135,982	405,039,855	36,010,298	730,110,187	287,860,064
Jewelry.....	10	30	132	12	98	86,143	208,049	224,095	5,134	627,650	307,421
Lubricating oils and greases, not made in petroleum refineries.....	10	34	147	1,508	77	123,121	186,844	1,383,180	12,361	2,179,180	783,639
Lumber and timber products, not elsewhere classified.....	10	1	30	250		(9)	32,207	31,305	100	110,251	87,696
Macaroni, spaghetti, vermicelli, and noodles.....	4	16	159		775	33,601	120,798	622,104	17,925	977,494	337,375
Machine tools.....	4	55	87		232	101,316	127,164	206,023	6,831	720,721	447,807
Marble, granite, slate, and other stone products.....	29	63	202	100	1,330	187,871	533,813	621,540	32,619	1,888,005	1,233,837
Mattresses and bed springs, not elsewhere classified.....	7	53	313		956	156,500	386,070	903,918	10,112	1,755,739	832,709
Meat packing, wholesale.....	20	401	1,705	3,307	2,180	1,073,780	2,620,412	29,451,290	217,772	36,206,979	6,537,317
Mirrors, framed and unframed.....	4	27	216		410	107,434	200,261	400,018	10,140	999,286	589,128
Models and patterns, not including paper patterns.....	16	14	148		312	34,286	201,558	142,492	7,868	653,885	503,535
Motor-vehicle bodies and motor-vehicle parts.....	16	66	600	33	2,925	184,961	807,425	1,167,784	109,686	3,004,807	1,729,397
Nonferrous-metal alloys and products, not including aluminum products.....	23	115	782	800	3,422	368,045	1,153,602	5,954,120	140,911	9,446,382	3,851,345
Paints and varnishes.....	21	294	623	815	3,594	960,221	946,565	0,930,358	142,588	12,309,206	5,296,850
Patent or proprietary medicines and compounds.....	20	64	137	610	306	165,771	181,944	530,171	21,928	1,502,100	1,010,001
Perfumes, cosmetics, and other toilet preparations.....	12	25	28		12	61,685	23,399	97,360	800	285,464	187,304
Petroleum refining.....	9	155	753	1,501	3,994	410,423	1,382,491	17,490,975	400,488	22,104,811	4,207,348
Photo-engraving, not done in printing establishments.....	9	53	153		84	165,793	391,299	93,082	8,969	878,809	776,158
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	93	292	740	995	8,614	808,161	1,382,138	3,468,293	91,004	6,879,593	3,320,326
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	7	248	2,280	4,535	9,980	628,609	3,269,038	3,079,618	497,662	11,230,537	7,653,257
Pottery, including porcelain ware.....	10	125	1,208	585	2,593	317,607	1,498,028	425,481	286,134	3,433,942	2,722,327
Printing and publishing, book and job.....	197	496	1,842	222	2,433	1,343,300	2,859,787	3,032,185	108,067	10,507,017	7,860,705
Printing and publishing, newspaper and periodical.....	125	1,869	2,014	5	5,488	4,433,107	4,067,934	6,607,444	150,880	27,602,973	20,844,649
Pumps (hand and power) and pumping equipment.....	7	130	516	1,415	594	408,232	884,779	8,111,094	39,270	5,541,701	2,391,337
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	4	5	22		119	12,224	25,413	136,011	1,575	216,399	78,813
Screw-machine products and wood screws.....	5	16	105	90	410	34,861	115,349	190,250	18,118	533,332	374,954
Shirts.....	7	9	113		138	18,536	87,515	100,922	2,565	305,343	201,556
Signs and advertising novelties.....	10	90	603		796	253,987	918,654	985,058	111,076	3,378,652	2,281,618
Soap.....	6	13	64	18	241	25,818	80,080	306,534	13,919	613,280	292,827
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	9	183	1,661	2,100	6,085	617,238	2,829,164	7,321,078	511,711	14,087,689	6,254,900

See footnotes at end of this section, p. 456.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PITTSBURGH INDUSTRIAL AREA—Continued											
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	9	67	771		940	Dollars 171,819	Dollars 874,706	Dollars 1,302,999	Dollars 103,151	Dollars 3,453,089	Dollars 2,047,889
Steam fittings and steam and hot-water heating apparatus	11	412	2,954	2,817	6,684	944,577	4,249,098	3,337,584	407,252	12,556,419	8,811,583
Stereotyping and electrotyping, not done in printing establishments	4	16	35		155	81,460	74,392	23,986	5,931	265,708	235,791
Stoves and ranges (other than electric) and warm-air furnaces	15	211	623	50	1,388	459,728	973,700	2,735,944	50,121	6,964,819	4,178,754
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	53	1,029	6,415	13,157	23,515	4,296,413	10,156,398	30,546,098	680,913	55,881,721	24,654,710
Surgical and orthopedic appliances, including artificial limbs	6	11	42		41	21,145	67,814	32,749	1,675	174,106	130,682
Tin cans and other tinware, not elsewhere classified	4	21	492		806	98,409	400,935	3,819,325	10,048	4,731,249	892,876
Tools, not including edge tools, machine tools, files, or saws	12	151	654	67	2,500	510,383	816,855	1,598,974	138,592	4,272,228	2,534,662
Toys (not including children's wheel goods or sleds), games and playground equipment	5	59	303		524	194,373	305,207	598,041	17,956	1,658,146	1,042,149
Wire, drawn from purchased bars or rods	5	113	870	2,070	6,216	444,377	1,267,564	4,730,363	149,910	7,587,097	2,706,824
Wirework, not elsewhere classified	11	45	295		1,001	443,456	481,036	2,444,204	39,055	4,618,134	2,134,815
Wood turned and shaped and other wooden goods, not elsewhere classified	3	2	10		68	(^c)	12,084	76,246	1,893	107,446	20,307
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills	4	253	2,694	7,490	7,790	898,809	4,435,376	18,107,515	681,486	30,771,292	11,982,291
Other industries ^d	242	3,734	29,469	38,837	79,943	9,438,892	41,886,455	221,167,322	44,429,060	379,714,285	114,117,903

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.^c The figures for this industry include data for 3 establishments located outside the area 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 area are not affected by these counterbalancing adjustments.^d 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.^e Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."^f See footnote 3.**YOUNGSTOWN INDUSTRIAL AREA**

[This area comprises Lawrence and Mercer Counties, Pennsylvania, and Mahoning and Trumbull Counties, Ohio. For statistics by industries for the area as a whole, see report for Ohio]

All industries, total	612	9,608	78,903	722,840	448,395	Dollars 25,336,913	Dollars 138,076,535	Dollars 436,586,508	Dollars 67,441,487	Dollars 823,532,610	Dollars 319,504,615
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ALLENTOWN-BETHLEHEM INDUSTRIAL AREA

[This area comprises Lehigh and Northampton Counties]

All industries, total	705	6,789	58,483	410,137	152,440	Dollars 18,216,006	Dollars 76,490,266	Dollars 175,627,865	Dollars 29,538,143	Dollars 396,185,282	Dollars 101,019,274
Beverages	22	43	128	1,630	437	87,663	200,793	396,292	43,926	1,270,760	830,542
Boots and shoes, other than rubber	6	15	158	90	264	34,418	132,427	252,462	7,691	520,915	260,862
Boxes, paper, not elsewhere classified	6	5	163		96	21,708	107,007	188,458	7,211	445,242	249,673
Bread and other bakery products	83	69	904	16	1,088	210,106	1,819,721	2,792,399	149,910	5,865,843	2,926,634
Butter	6	4	5	60	53	2,725	8,066	127,329	3,033	162,642	32,280
Caskets, coffins, burial cases, and other morticians' goods	3	12	42	50	40	24,015	47,473	93,608	3,072	204,624	107,944
Cement	18	1,089	5,634	108,897	69,871	2,629,959	8,809,184	7,126,061	8,553,612	44,266,683	28,687,010
Cigars and cigarettes	10	33	1,950	188	366	204,561	1,452,723	4,148,179	30,332	8,797,852	4,619,341
Clay products (other than pottery) and nonclay refractories	4	10	186		1,501	25,989	189,787	6,623	92,637	636,807	437,547
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	10	23	738		87	59,402	518,871	429,036	31,517	1,863,299	902,746
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	3	3	16		8	5,422	9,207	28,789	338	55,975	26,848
Concrete products	16	34	140		515	100,626	167,214	143,702	12,939	530,333	373,692
Confectionery	4	5	110		633	31,630	46,968	72,421	11,341	183,583	99,821
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	6	13	116		62	44,009	158,076	316,508	4,840	713,265	392,217
Electrical machinery, apparatus, and supplies	5	112	1,069		780	232,735	1,071,001	1,780,066	33,652	3,913,308	2,089,590
Flour and other grain-mill products	19	32	94	1,355	324	80,435	123,210	2,345,867	14,377	2,862,415	502,171
Foundry and machine-shop products, not elsewhere classified	34	917	2,330	1,630	12,778	2,350,029	3,243,170	5,911,923	363,645	16,062,923	9,787,355
Furniture, including store and office fixtures	11	80	716		320	266,414	820,249	1,036,859	46,143	2,026,565	1,542,566
Ice cream	10	40	128		40	809	99,819	180,843	691,939	43,878	849,498
Ice, manufactured	11	24	73	2,100	554	62,852	131,944	36,840	73,426	661,785	451,620

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

ALLENTOWN-BETHLEHEM INDUSTRIAL AREA—Continued

Knit goods.....	10	194	4,801	200	3,075	Dollars 749,505	Dollars 5,313,681	Dollars 13,480,484	Dollars 199,069	Dollars 27,905,078	Dollars 9,220,125
Marble, granite, slate, and other stone products.....	45	149	2,212	5,770	7,937	413,418	2,057,260	705,007	310,481	5,302,415	4,316,327
Nonferrous-metal alloys and products, not including aluminum products.....	4	9	34	-----	78	16,523	45,143	63,850	7,059	174,155	68,236
Paints and varnishes.....	4	54	493	585	1,425	144,001	851,992	2,734,418	143,132	5,108,972	2,280,422
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	5	8	44	375	1,050	17,627	74,936	209,807	23,073	381,570	148,636
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	15	67	234	835	1,779	185,367	451,017	795,643	37,237	1,700,098	873,218
Printing and publishing, book and job.....	30	92	390	-----	453	236,115	561,415	570,079	29,281	1,997,030	1,301,070
Printing and publishing, newspaper and periodical.....	15	301	290	-----	714	587,118	593,035	645,556	48,014	3,330,087	2,643,417
Shirts.....	12	23	830	-----	103	63,027	572,924	11,255	11,255	1,320,091	1,014,120
Silk and rayon manufactures.....	105	751	13,412	3,033	14,450	2,278,032	15,210,373	34,014,416	856,841	60,910,138	32,043,871
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	10	150	710	-----	3,110	472,800	1,076,553	6,059,344	83,972	9,576,840	3,433,524
Textile machinery and parts.....	7	25	153	-----	129	67,234	144,240	232,708	7,309	544,109	304,004
Other industries.....	141	2,445	20,111	239,553	25,852	6,422,034	30,228,252	82,848,158	18,253,231	179,250,970	78,155,537

READING INDUSTRIAL AREA

[This area is coextensive with Berks County]

All industries, total.....	578	4,272	47,350	49,095	75,520	Dollars 12,061,862	Dollars 61,870,198	Dollars 97,330,420	Dollars 6,800,926	Dollars 220,028,386	Dollars 124,831,040
Beverages.....	11	13	38	-----	104	22,509	59,297	124,472	5,420	323,577	193,085
Boots and shoes, other than rubber.....	4	79	730	95	324	172,914	731,191	1,580,614	20,542	3,130,351	1,529,195
Boxes, paper, not elsewhere classified.....	12	20	272	-----	177	57,750	244,096	293,956	10,097	820,070	516,023
Bread and other bakery products.....	64	76	768	1,000	103,047	103,047	967,713	1,720,750	142,463	4,119,751	2,256,538
Brooms.....	5	16	118	85	65	41,922	122,312	278,577	6,078	905,022	320,367
Butter.....	8	1	5	115	20	(?)	5,494	212,181	4,242	274,974	58,551
Cigars and cigarettes.....	15	37	943	-----	254	86,435	722,078	1,531,618	15,810	3,445,072	1,898,044
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	5	74	800	18	150	142,802	646,235	431,422	14,918	1,424,933	973,593
Concrete products.....	7	7	51	-----	160	20,324	75,008	90,440	6,475	328,981	223,057
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	1	14	-----	32	(?)	10,199	17,947	1,682	48,163	23,534
Dyeing and finishing textiles.....	9	57	319	000	848	184,205	394,374	295,705	104,182	1,409,105	1,009,158
Flour and other grain-mill products.....	24	4	33	900	455	4,402	38,240	496,019	15,773	631,867	120,175
Foundry and machine-shop products, not elsewhere classified.....	38	243	1,551	1,555	5,593	638,206	2,141,586	2,141,412	245,622	6,004,372	4,217,338
Furniture, including store and office fixtures.....	7	31	122	-----	630	76,201	153,090	318,070	16,164	628,787	263,944
Gas and electric fixtures; lamps, lanterns, and reflectors.....	3	10	33	-----	40	19,733	41,546	21,864	1,708	74,106	50,534
Hardware not elsewhere classified.....	7	203	1,491	530	2,274	502,779	1,926,632	1,272,900	110,121	4,395,818	3,012,098
Ice cream.....	6	1	35	02	210	(?)	40,084	109,287	15,561	245,135	120,287
Ice, manufactured.....	6	11	77	687	3,225	29,873	125,367	21,022	62,343	505,482	392,117
Iron and steel: Steel works and rolling mills.....	12	438	3,499	21,700	15,392	1,170,181	5,418,304	5,772,793	1,534,000	18,150,610	10,843,804
Jewelry.....	3	5	20	-----	13	9,298	20,760	22,000	908	73,573	50,575
Knit goods.....	84	704	17,302	2,992	7,344	2,871,904	22,467,814	33,382,521	460,620	75,140,993	41,290,952
Marble, granite, slate, and other stone products.....	6	13	58	60	157	40,464	98,046	80,678	5,222	331,158	245,858
Meat packing, wholesale.....	4	50	186	185	690	150,402	263,884	4,001,414	24,875	5,752,508	826,219
Models and patterns, not including paper patterns.....	5	5	45	-----	59	10,517	83,522	23,865	2,291	176,578	150,422
Nonferrous-metal alloys and products, not including aluminum products.....	8	30	197	-----	278	121,785	271,864	920,227	30,972	1,595,807	554,008
Photo-engraving, not done in printing establishments.....	3	7	24	-----	59	15,140	63,490	14,134	3,035	125,533	108,364
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	9	31	124	80	1,272	81,750	208,758	360,593	18,315	900,712	521,799
Printing and publishing, book and job.....	10	38	110	-----	238	75,037	203,271	199,404	10,525	663,070	473,031
Printing and publishing, newspaper and periodical.....	13	195	235	-----	519	380,518	580,555	444,969	26,504	2,348,511	1,877,038
Signs and advertising novelties.....	6	16	63	-----	87	28,119	85,630	97,076	6,593	279,422	175,148
Silk and rayon manufactures.....	10	63	1,008	-----	970	148,159	1,237,643	5,071,253	87,478	10,084,654	4,955,023
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	4	16	90	-----	327	47,873	121,840	158,124	27,559	421,563	235,880
Stoves and ranges (other than electric) and warm-air furnaces.....	4	40	309	-----	323	145,209	416,051	320,091	28,777	1,192,090	843,828
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	5	31	154	82	253	72,760	274,627	583,444	7,974	952,573	361,155
Other industries.....	152	1,601	16,365	10,220	31,683	4,487,145	21,620,594	34,045,936	3,785,403	81,022,847	44,091,448

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

^c Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other Industries."

^d 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.

CENSUS OF MANUFACTURES: 1929

TABLE 18.—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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

SCRANTON—WILKES-BARRE INDUSTRIAL AREA

[This area comprises Lackawanna and Luzerne Counties]

All industries, total.....	769	4,548	42,268	30,734	65,247	Dollars 11,169,820	Dollars 41,615,994	Dollars 39,409,066	Dollars 3,783,603	Dollars 185,961,766	Dollars 92,759,097
Awnings, tents, sails, and canvas covers.....	7	3	23	.....	9	3,600	23,110	53,757	1,648	113,117	57,712
Beverages.....	60	50	257	1,070	622	142,010	407,475	582,181	52,053	1,819,925	1,185,601
Boxes, paper, not elsewhere classified.....	4	7	112	.....	112	14,338	75,073	107,631	4,572	288,352	176,149
Bread and other bakery products.....	120	230	1,677	218	2,372	546,107	1,998,069	5,406,537	242,903	11,612,587	5,903,147
Car and general construction and repairs, steam-railroad repair shops.....	18	301	3,372	5,053	1,562	778,690	5,354,830	5,727,165	201,986	12,057,671	6,128,520
Caskets, coffins, burial cases, and other morticians' goods.....	3	21	174	.....	374	68,186	105,120	660,226	8,641	1,219,092	550,825
Clay products (other than pottery) and non-clay refractories.....	6	14	107	186	1,239	33,626	117,908	13,884	52,873	251,790	185,033
Clothing, women's, not elsewhere classified.....	13	56	1,053	.....	293	137,994	773,870	1,854,744	13,707	4,343,654	2,475,143
Clothing, work (including sheep-lined work coats but not including shirts), men's.....	7	22	489	.....	109	55,822	329,774	902,158	8,786	1,555,212	644,268
Coffee and spice, roasting and grinding.....	3	4	9	.....	23	3,236	8,853	104,778	2,126	210,693	43,789
Concrete products.....	13	15	30	50	403	22,902	35,624	118,890	8,020	207,479	140,593
Confectionery.....	7	10	74	.....	83	21,192	46,248	121,114	7,706	299,432	170,612
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	15	77	.....	58	37,586	111,755	182,353	4,110	419,351	232,882
Explosives.....	5	31	239	487	1,139	120,116	404,280	1,209,378	60,268	2,478,553	1,208,917
Feeds, prepared, for animals and fowls.....	5	9	21	45	247	11,740	26,905	254,245	3,276	478,338	51,817
Foundry and machine-shop products, not elsewhere classified.....	38	583	1,800	2,736	5,171	1,561,579	2,480,665	4,405,751	200,037	11,631,206	7,025,418
Furniture, including store and office fixtures.....	8	36	238	426	426	74,174	293,303	455,404	10,295	1,214,435	748,646
Gas, manufactured, illuminating and heating.....	6	73	280	1,483	221	142,288	398,801	819,161	497,677	2,415,495	1,598,657
Grease and tallow, not including lubricating greases.....	6	7	39	199	61	13,710	61,822	77,787	9,094	187,583	100,792
Hats and caps, except felt and straw, men's.....	3	10	56	.....	25	24,617	44,401	105,747	1,782	259,213	151,684
Ice cream.....	29	74	327	300	2,540	236,822	470,792	1,426,030	95,922	3,220,362	1,698,404
Iron and steel: Steel works and rolling mills.....	3	70	672	950	1,855	140,013	610,103	1,322,523	105,695	2,567,355	1,079,137
Knit goods.....	11	77	940	.....	1,096	182,090	589,805	1,008,404	48,878	2,088,447	1,041,165
Lumber and timber products, not elsewhere classified.....	11	2	53	90	.....	(^c)	52,133	70,798	1,920	255,352	182,630
Marble, granite, slate, and other stone products.....	7	10	51	.....	692	30,179	91,272	72,152	10,661	272,613	189,800
Mattresses and bed springs, not elsewhere classified.....	6	6	55	.....	148	12,435	72,143	164,211	6,398	350,815	180,236
Patent or proprietary medicines and compounds.....	6	27	46	.....	17	70,480	46,854	114,805	2,841	360,634	242,938
Photo-engraving, not done in printing establishments.....	3	7	15	.....	22	15,426	28,559	6,726	1,537	93,469	85,206
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	20	59	208	390	1,742	181,003	298,790	399,782	29,813	1,039,066	610,371
Printing and publishing, book and job.....	54	116	798	.....	1,450	288,786	1,152,112	1,318,738	50,337	3,532,138	2,163,068
Printing and publishing, newspaper and periodical.....	41	611	528	6	1,496	1,248,300	1,160,504	979,407	83,790	5,719,430	4,656,233
Shirts.....	8	95	2,265	.....	317	248,173	1,295,194	3,455,996	27,344	6,062,637	2,579,297
Signs and advertising novelties.....	7	3	32	.....	5	4,500	43,275	32,954	918	102,457	68,585
Silk and rayon manufactures.....	113	725	17,622	10,674	25,829	1,595,280	13,414,248	35,205,950	1,317,546	63,017,438	26,493,942
Stoves and ranges (other than electric) and warm-air furnaces.....	4	36	271	225	462	104,536	375,963	209,237	28,884	852,866	614,745
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	10	39	195	.....	512	94,841	309,008	424,798	11,655	942,251	505,798
Other industries.....	110	1,089	8,157	6,572	12,455	2,945,603	8,307,187	20,478,597	572,068	42,578,758	21,527,193

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

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

ALLEGHENY COUNTY

[The totals for all industries do not include data for a few establishments located outside the county (see footnote 10), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	1,959	25,010	155,374	947,853	451,061	Dollars 69,122,611	Dollars 248,281,167	Dollars 711,132,766	Dollars 100,822,632	Dollars 1,400,762,248	Dollars 588,806,850
Awnings, tents, sails, and canvas covers.....	19	50	109	98	48	71,515	98,705	374,190	5,481	681,971	302,300
Beverages.....	58	91	354	3,855	469	247,031	560,915	984,596	74,765	2,801,309	1,741,948
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills ¹⁰	11	458	3,193	4,433	9,346	1,051,044	4,184,167	10,112,390	528,295	23,812,184	13,171,499
Bookbinding and blank-book making.....	12	19	112	.....	39	53,054	134,076	49,616	2,986	350,861	298,260
Boxes, paper, not elsewhere classified.....	10	109	526	100	696	307,812	516,935	1,867,164	30,323	3,383,855	1,486,368
Boxes, wooden, except cigar boxes.....	4	15	147	.....	956	33,074	104,238	410,860	15,180	769,123	343,093
Bread and other bakery products.....	358	506	6,025	3,499	4,469	1,157,602	7,869,933	18,744,784	687,241	42,430,548	22,998,523
Brooms ¹⁰	7	5	29	.....	47	10,867	31,918	76,504	2,033	146,766	67,229
Brushes, other than rubber.....	4	16	70	.....	172	39,892	102,417	334,331	3,990	586,922	198,601

See footnotes at end of this section, p. 459.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
ALLEGHENY COUNTY—Continued											
Car and general construction and repairs, steam-railroad repair shops.....	21	704	8,354	18,001	10,131	Dollars 1,975,724	Dollars 15,737,615	Dollars 21,039,668	Dollars 492,780	Dollars 30,254,321	Dollars 17,721,908
Chemicals, not elsewhere classified.....	8	226	805	723	8,524	610,232	1,139,743	6,323,661	539,876	12,614,018	5,751,081
Cigars and cigarettes.....	22	34	618		81	84,183	394,461	557,425	8,904	1,327,812	761,483
Clay products (other than pottery) and non-clay refractories.....	26	83	1,212	830	5,786	109,722	1,417,514	600,641	489,950	3,762,467	2,671,800
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	13	48	533	65	153	147,969	479,077	1,252,890	12,912	2,458,985	1,193,183
Coffee and spice, roasting and grinding ¹⁰	20	117	142		600	305,597	185,339	9,952,723	31,008	11,187,421	1,203,690
Concrete products.....	43	96	425	155	1,486	135,072	589,418	1,034,768	66,739	2,601,846	1,500,280
Confectionery ¹⁰	23	233	1,777	1,476	2,052	630,396	1,607,252	6,315,699	93,038	11,804,850	5,486,063
Cooperage.....	6	16	76		138	65,015	103,816	523,114	5,737	761,625	232,774
Druggists' preparations.....	8	50	116		440	155,291	94,535	387,367	16,357	971,112	567,388
Electrical machinery, apparatus, and supplies.....	30	4,492	18,384	27,850	23,931	9,150,541	27,576,330	40,205,905	1,339,832	97,243,430	65,637,693
Electroplating ¹⁰	8	16	91		808	60,666	142,800	66,132	17,669	440,191	365,300
Food preparations, not elsewhere classified ¹⁰	8	31	76	7	307	92,939	82,672	832,969	11,227	1,277,622	438,426
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	11	107	639	335	4,931	317,012	1,183,312	2,631,591	369,547	6,184,483	3,183,345
Foundry and machine-shop products, not elsewhere classified.....	128	2,654	11,019	3,367	70,408	7,805,835	18,072,191	31,051,181	1,780,890	70,400,027	46,567,950
Fur goods.....	10	38	88		25	102,924	153,913	251,357	4,470	634,561	378,728
Furniture, including store and office fixtures ¹⁰	17	72	511		982	101,274	739,121	1,257,367	26,373	2,708,464	1,484,724
Glass.....	18	272	4,284	3,493	28,367	760,251	6,179,732	4,387,940	2,605,116	21,774,992	14,781,937
Hand stamps and stencils and brands.....	6	116	173		445	301,090	244,480	283,243	12,712	1,308,475	1,012,520
Hats and caps, except felt and straw, men's.....	4	6	40		14	6,100	68,377	135,819	1,427	1,188,374	117,728
House-furnishing goods, not elsewhere classified.....	9	20	99		127	71,593	100,500	805,174	6,137	1,188,374	317,063
Ice cream.....	20	84	375	1,030	3,817	221,467	221,467	570,093	152,793	6,875,758	3,397,284
Ice, manufactured.....	29	121	403	4,120	12,712	330,193	659,754	106,719	325,270	3,570,543	3,150,554
Iron and steel: Steel works and rolling mills.....	42	4,708	49,701	173,211	113,021	13,720,146	84,873,693	255,718,428	24,621,053	444,003,402	163,663,891
Jewelry.....	10	30	132	12	98	80,143	208,049	224,995	5,134	627,550	397,421
Lubricating oils and greases, not made in petroleum refineries.....	10	34	147	1,598	77	123,121	180,844	1,383,180	12,361	2,179,180	733,639
Macaroni, spaghetti, vermicelli, and noodles.....	4	16	159		775	33,601	120,708	622,164	17,625	977,464	337,378
Marble, granite, slate, and other stone products.....	25	52	237		1,174	159,520	493,276	553,125	29,188	1,052,870	1,065,566
Mattresses and springs, not elsewhere classified.....	7	53	313		955	150,500	339,070	903,618	19,112	1,755,739	832,709
Meat packing, wholesale ¹⁰	26	401	1,708	3,307	2,180	1,073,780	2,020,412	20,451,290	217,772	36,206,379	6,537,317
Models and patterns, not including paper patterns.....	16	14	148		312	34,286	291,553	142,492	7,858	633,885	503,535
Motor-vehicle bodies and motor-vehicle parts.....	16	66	600	33	2,925	184,961	807,425	1,167,784	100,686	3,000,807	1,729,397
Nonferrous-metal alloys and products, not including aluminum products.....	20	111	763	800	3,365	362,995	1,130,741	5,878,800	137,437	9,318,334	3,302,037
Patent or proprietary medicines and compounds ¹⁰	20	64	137	610	306	165,771	131,944	530,171	21,928	1,562,100	1,010,001
Perfumes, cosmetics, and other toilet preparations.....	12	25	28		12	61,685	23,399	97,300	800	285,464	187,304
Photo-engraving, not done in printing establishments.....	9	53	153		84	165,793	391,296	93,622	8,969	878,800	776,158
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	66	242	590	555	6,506	704,864	1,115,355	3,017,517	72,287	5,845,694	2,755,890
Printing and publishing, book and job.....	170	474	1,713	222	2,249	1,276,292	2,689,033	2,834,983	99,931	9,903,325	6,968,411
Printing and publishing, newspaper and periodical.....	92	1,662	1,682	5	4,766	3,989,582	3,475,583	6,238,325	115,916	25,341,210	18,986,469
Screw-machine products and wood screws.....	5	16	105	90	410	34,861	115,349	190,260	18,118	583,332	374,954
Soap.....	6	13	64	18	241	25,818	80,080	306,534	13,919	613,280	292,827
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	9	67	771		940	171,819	874,708	1,302,999	103,151	3,453,989	2,047,839
Steam fittings and steam and hot-water heating apparatus.....	7	181	894	975	1,306	477,141	1,561,345	1,589,361	145,642	5,036,095	3,371,092
Stereotyping and electrotyping, not done in printing establishments.....	4	16	35		155	81,460	74,392	23,936	5,931	265,708	235,791
Stoves and ranges (other than electric) and warm-air furnaces ¹⁰	15	211	623	50	1,388	459,728	978,700	2,735,944	50,121	6,984,810	4,178,754
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	43	1,077	3,308	6,264	17,705	2,973,097	5,161,877	16,189,484	375,780	31,650,707	15,085,503
Surgical and orthopedic appliances, including artificial limbs.....	6	11	42		41	21,145	87,814	32,749	1,675	174,106	130,682
Tools, not including edge tools, machine tools, files, or saws.....	12	151	654	67	2,500	610,383	816,855	1,598,974	138,592	4,272,223	2,534,662
Other industries.....	345	4,358	29,588	125,113	73,657	11,836,983	43,680,848	212,528,815	64,735,041	419,078,638	142,714,774

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹⁰ 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 the establishments in question: Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills, 3; brooms, 1; coffee and spice, roasting and grinding, 1; confectionery, 2; electroplating, 1; food preparations, not elsewhere classified, 1; furniture, including store and office fixtures, 1; meat packing, wholesale, 1; patent or proprietary medicines and compounds, 1; stoves and ranges (other than electric) and warm-air furnaces, 3.

¹¹ 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.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
BEAVER COUNTY											
All industries, total.....	208	3,582	28,438	213,709	185,346	Dollars 9,838,713	Dollars 47,765,802	Dollars 149,204,819	Dollars 20,495,825	Dollars 204,772,430	Dollars 125,071,786
Beverages.....	9	3	21	-----	76	2,861	35,509	94,602	4,451	249,447	150,304
Bread and other bakery products.....	25	8	161	-----	280	21,921	245,639	619,708	30,727	1,374,045	723,610
Clay products (other than pottery) and nonclay refractories.....	19	128	1,467	280	7,471	328,814	1,940,082	475,969	745,276	5,104,317	3,883,072
Concrete products.....	12	2	23	-----	99	(12)	24,980	63,013	2,190	115,935	90,732
Foundry and machine-shop products, not elsewhere classified.....	16	394	2,204	2,950	13,301	1,036,384	3,260,925	14,512,476	349,947	24,085,839	9,223,416
Ice cream.....	4	-----	7	-----	87	-----	-----	55,104	5,128	109,575	49,343
Ice, manufactured.....	5	4	48	150	607	11,836	107,697	76,662	16,513	20,958	167,479
Iron and steel: Steel works and rolling mills.....	10	1,204	12,381	181,825	76,952	3,651,359	23,499,980	69,500,718	4,629,673	133,926,344	59,795,953
Planing-mill products (including general mill-work) not made in planing mills connected with sawmills.....	9	25	94	440	490	58,048	153,174	207,744	7,520	546,263	330,999
Pottery, including porcelain ware.....	5	39	411	287	412	107,697	423,822	77,910	62,956	921,169	780,303
Printing and publishing, book and job.....	5	1	14	-----	24	(12)	19,760	21,204	1,600	69,078	46,214
Printing and publishing, newspaper and periodical.....	8	60	72	-----	177	135,222	149,098	85,356	7,740	580,478	487,382
Other industries.....	81	1,714	11,635	27,777	35,364	4,483,971	17,909,534	63,484,412	14,627,699	127,494,990	49,382,979

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.¹² Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."¹³ 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.**BERKS COUNTY (SEE READING INDUSTRIAL AREA)****BLAIR 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, "Car and general construction and repairs, steam-railroad shops"—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.....	147	1,751	18,047	51,666	10,405	Dollars 4,455,252	Dollars 26,745,990	Dollars 54,065,800	Dollars 2,142,073	Dollars 97,206,642	Dollars 40,998,709
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BUCKS COUNTY

All industries, total.....	186	1,070	9,453	15,868	14,735	Dollars 2,763,871	Dollars 10,700,202	Dollars 20,868,995	Dollars 962,030	Dollars 40,196,836	Dollars 24,365,811
Bread and other bakery products.....	14	3	74	-----	116	4,075	85,763	191,334	11,608	399,375	196,433
Butter.....	13	20	23	150	67	6,437	26,175	436,711	8,638	524,256	78,887
Cigars and cigarettes.....	7	19	422	-----	11	54,170	285,609	595,092	2,508	1,168,838	571,328
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	16	35	1,480	5	309	84,444	1,167,907	743,015	29,844	2,893,767	1,620,098
Concrete products.....	5	2	19	5	74	(14)	30,502	34,245	2,017	107,340	71,078
Flour and other grain-mill products.....	8	6	20	415	62	8,292	22,656	243,083	6,511	319,572	66,993
Ice, manufactured.....	4	9	8	120	316	14,240	13,647	3,700	15,261	111,350	92,329
Knit goods.....	12	61	1,314	-----	860	261,215	1,839,024	3,405,681	58,651	7,042,365	3,578,053
Meat packing, wholesale.....	5	-----	12	15	64	-----	16,479	160,475	3,378	188,902	34,540
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	3	0	24	125	47	11,227	36,696	63,598	2,426	133,126	67,102
Printing and publishing, book and job.....	5	-----	11	-----	23	-----	16,046	14,011	664	48,022	33,847
Printing and publishing, newspaper and periodical.....	10	45	74	-----	175	77,073	88,074	57,462	7,268	392,164	327,434
Silk and rayon manufactures.....	8	16	268	705	263	50,594	256,068	212,037	32,700	655,297	440,470
Other industries.....	70	848	5,704	14,322	12,358	2,192,104	6,881,526	14,708,621	779,066	32,675,482	17,186,896

¹⁴ 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 ^a	Cost of fuel and purchased electric energy	Value of products ^b	Value added by manufacture ^c
				Prime movers	Electric motors driven by purchased energy						

CAMBRIA 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 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.....	158	1,633	13,605	100,004	21,171	Dollars 4,045,946	Dollars 22,807,293	Dollars 67,590,783	Dollars 10,780,460	Dollars 130,428,843	Dollars 40,051,004
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CHESTER COUNTY

All industries, total.....	194	1,437	10,565	53,102	57,772	Dollars 3,714,324	Dollars 15,284,521	Dollars 42,000,538	Dollars 6,058,050	Dollars 79,688,534	Dollars 31,629,887
Beverages.....	6	3	14	-----	40	5,870	18,725	40,548	1,345	114,409	72,510
Bread and other bakery products.....	18	3	70	-----	134	6,770	90,107	201,895	17,555	412,536	103,080
Clothing, women's, not elsewhere classified.....	3	7	142	-----	34	13,916	75,554	205,522	3,549	502,305	203,234
Concrete products.....	6	5	17	-----	68	6,144	19,044	36,705	4,032	104,508	63,771
Dyeing and finishing textiles.....	4	45	132	1,062	1	100,195	133,854	125,362	18,878	420,240	270,000
Flour and other grain-mill products.....	9	1	17	-----	457	(16)	17,902	274,754	2,084	344,853	68,015
Foundry and other machine-shop products, not elsewhere classified.....	15	259	1,014	840	7,742	677,707	1,540,341	3,275,251	131,000	6,987,331	3,581,014
Ice cream.....	5	5	16	-----	95	-----	6,497	33,182	3,307	71,101	34,612
Ice, manufactured.....	11	8	22	-----	197	1,318	10,830	43,580	3,985	52,091	106,807
Iron and steel: Steel works and rolling mills.....	3	505	4,520	30,325	30,939	1,344,760	7,468,003	20,015,022	3,457,771	34,809,252	11,426,459
Knit goods.....	8	93	1,313	425	656	354,773	1,527,222	3,321,074	45,825	6,540,164	3,172,365
Paints and varnishes.....	3	9	-----	-----	35	16,248	0,342	83,288	1,043	132,162	47,831
Paper.....	9	48	571	5,883	1,052	169,914	810,598	2,368,491	307,069	4,835,173	2,100,019
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	4	21	68	-----	313	44,808	94,630	134,893	7,475	333,144	100,770
Printing and publishing, book and job.....	7	4	42	-----	55	11,392	62,180	56,505	2,462	175,660	110,753
Printing and publishing, newspaper and periodical.....	11	59	82	-----	211	97,943	118,334	68,730	0,400	500,798	422,002
Other industries.....	72	367	2,509	4,897	0,079	843,964	3,242,539	11,674,481	1,033,117	23,062,025	9,454,427

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

^c Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

^d 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.

DAUPHIN 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.....	288	2,340	19,622	79,512	35,272	Dollars 5,447,171	Dollars 25,323,687	Dollars 77,503,009	Dollars 9,026,475	Dollars 149,983,516	Dollars 63,393,432
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DELAWARE 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—"Locomotives, not made in railroad repair shops," 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.....	231	4,384	30,799	73,580	100,896	Dollars 12,347,458	Dollars 44,646,709	Dollars 145,091,312	Dollars 5,534,494	Dollars 250,343,015	Dollars 108,717,209
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ERIE 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.....	366	4,330	23,022	46,358	65,310	Dollars 11,514,221	Dollars 33,567,730	Dollars 66,265,712	Dollars 4,998,899	Dollars 162,522,818	Dollars 91,258,297
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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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

LACKAWANNA COUNTY

All industries, total.....	354	1,948	16,891	10,560	30,886	Dollars 4,910,020	Dollars 17,076,694	Dollars 34,784,163	Dollars 1,741,595	Dollars 74,808,489	Dollars 38,282,731
Beverages.....	22	23	80	150	398	49,633	117,195	254,771	27,849	681,201	398,671
Bread and other bakery products.....	58	67	640	5	1,039	137,667	692,127	2,040,234	98,528	4,304,652	2,155,890
Car and general construction and repairs, steam-railroad repair shops.....	7	169	1,771	1,205	452	426,658	2,806,452	3,813,486	107,584	7,154,180	3,233,110
Caskets, coffins, burial cases, and other morticians' goods.....	3	21	174	-----	374	68,186	195,129	660,226	8,641	1,219,692	550,825
Clothing, work (including sheep-lined and blanket-lined work coats, but not including shirts), men's.....	3	8	240	-----	56	25,923	160,561	513,113	4,013	844,241	327,115
Concrete products.....	6	7	13	50	86	7,913	13,800	30,734	2,975	89,405	35,696
Foundry and machine-shop products, not elsewhere classified.....	16	298	902	1,070	3,419	843,595	1,251,383	2,256,029	123,050	5,942,720	3,563,041
Ice cream.....	10	42	150	100	1,185	141,237	226,560	719,176	43,216	1,647,566	885,174
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	9	25	86	80	979	68,530	135,174	109,848	14,501	519,165	304,816
Printing and publishing, book and job.....	29	76	599	-----	1,046	179,233	823,520	973,542	34,584	2,450,550	1,442,424
Printing and publishing, newspaper and periodical.....	19	363	256	-----	819	677,670	569,001	507,048	39,021	3,031,873	2,485,804
Silk and rayon manufactures.....	59	234	7,063	5,156	12,166	582,655	4,923,336	13,281,143	593,670	23,356,668	9,481,855
Other industries.....	113	610	4,903	2,744	8,867	1,696,020	5,162,447	9,534,213	643,963	23,586,486	13,408,310

LANCASTER COUNTY

All industries, total.....	495	3,387	23,300	10,016	66,840	Dollars 7,265,270	Dollars 25,913,361	Dollars 75,433,455	Dollars 2,277,517	Dollars 155,750,777	Dollars 78,030,805
Beverages.....	9	10	22	-----	68	12,897	28,471	57,049	3,386	147,342	86,907
Boots and shoes, other than rubber.....	9	126	1,237	125	544	297,850	1,040,330	2,633,580	35,682	4,893,977	2,224,709
Boxes, cigar, wooden.....	4	3	65	-----	48	5,330	33,110	63,636	1,564	100,861	45,661
Boxes, paper, not elsewhere classified.....	4	10	120	-----	139	24,310	116,496	150,519	3,244	875,404	221,641
Bread and other bakery products.....	50	46	525	97	821	122,251	626,762	1,203,724	77,964	3,753,604	1,501,916
Chocolate and cocoa products, not including confectionery.....	4	40	347	380	2,987	120,142	303,738	3,632,444	84,736	4,068,771	1,251,591
Cigar and cigarettes.....	24	54	1,444	-----	331	112,753	970,479	2,272,892	11,228	4,758,642	2,474,522
Clay products (other than pottery) and nonclay refractories.....	4	12	96	140	711	23,323	109,927	9,745	59,989	321,208	251,474
Clothing, women's, not elsewhere classified.....	6	28	565	-----	123	76,367	318,989	305,029	10,043	938,364	503,202
Coffee and spice, roasting and grinding.....	4	15	25	-----	92	42,887	30,558	634,988	3,885	941,580	302,707
Concrete products.....	7	11	53	-----	213	20,956	55,850	84,725	5,239	267,459	177,495
Confectionery.....	20	72	712	1	1,262	163,841	530,865	1,388,438	43,270	2,092,857	1,261,140
Fertilizers.....	4	13	26	40	300	17,670	31,757	407,325	4,725	582,193	170,143
Flour and other grain-mill products.....	40	6	76	1,752	912	13,009	78,744	1,419,325	17,935	1,701,190	263,930
Food preparations, not elsewhere classified.....	4	11	23	-----	38	17,002	31,002	216,520	4,112	345,857	125,225
Foundry and machine-shop products, not elsewhere classified.....	34	346	2,209	195	8,500	965,547	2,759,516	3,568,904	233,374	11,291,229	7,488,051
Furniture, including store and office fixtures.....	5	7	66	-----	177	12,259	73,711	161,683	4,366	364,615	198,566
Hardware not elsewhere classified.....	9	151	902	-----	1,491	343,081	939,593	852,092	40,532	3,461,896	2,563,272
Ice, manufactured.....	15	15	54	620	2,577	32,360	87,316	18,495	84,467	424,017	321,055
Knit goods.....	14	50	778	245	323	102,531	592,524	1,628,905	23,733	2,673,754	1,021,116
Marble, granite, slate, and other stone products.....	3	-----	16	-----	82	-----	28,389	90,901	2,005	181,336	88,430
Meat packing, wholesale.....	10	11	71	145	480	42,681	102,736	1,148,302	10,342	1,434,132	269,488
Patent or proprietary medicines and compounds.....	3	9	5	-----	285	12,304	5,582	18,676	1,550	60,873	40,647
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	16	56	251	190	2,369	140,341	348,360	769,825	23,626	1,495,949	702,498
Printing and publishing, book and job.....	19	50	268	-----	362	100,365	382,227	217,949	14,474	1,002,540	770,123
Printing and publishing, newspaper and periodical.....	15	119	168	-----	352	202,939	247,512	247,237	14,554	1,656,558	1,394,767
Shirts.....	18	18	767	-----	125	24,305	423,102	69,695	12,822	692,519	610,002
Silk and rayon manufactures.....	18	218	4,016	1,630	3,307	669,448	5,020,444	19,870,008	200,421	39,542,078	19,465,649
Tobacco: Chewing and smoking, and snuff.....	4	-----	16	2	76	-----	13,811	132,462	4,469	199,101	62,170
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	4	44	526	-----	979	77,104	547,329	583,951	31,631	1,568,868	953,281
Wood turned and shaped and other wooden goods, not elsewhere classified.....	3	5	28	-----	420	9,240	31,088	76,238	4,575	150,698	69,885
Other industries.....	112	1,831	7,823	4,404	36,396	3,470,099	9,862,425	31,448,187	1,185,565	63,731,304	31,097,552

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

LAWRENCE 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.....	110	1,423	12,358	100,088	54,521	Dollars 3,850,577	Dollars 20,029,603	Dollars 53,770,127	Dollars 6,618,390	Dollars 106,265,682	Dollars 45,877,165
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LEBANON COUNTY

All industries, total.....	180	774	10,146	39,023	28,119	Dollars 1,760,826	Dollars 10,325,060	Dollars 24,305,967	Dollars 1,890,980	Dollars 48,152,065	Dollars 21,955,109
Beverages.....	3	5	9	---	20	10,042	8,973	28,934	1,215	87,074	56,926
Boots and shoes, other than rubber.....	6	45	954	554	127	118,705	807,033	2,208,781	25,390	4,024,813	1,790,642
Bread and other bakery products.....	27	14	297	20	384	20,548	311,255	644,547	44,190	1,392,359	703,622
Cigars and cigarettes.....	12	20	334	---	15	21,089	220,276	285,006	2,429	757,029	459,594
Flour and other grain-mill products.....	10	8	35	400	384	10,126	42,834	657,588	13,987	807,643	136,068
Foundry and machine-shop products, not elsewhere classified.....	13	43	206	12	1,048	98,115	334,893	349,338	44,523	1,033,184	639,323
Handkerchiefs.....	7	22	513	---	129	30,305	393,430	1,359,881	10,119	2,384,953	1,014,953
Ice, manufactured.....	4	2	10	335	159	(7)	24,045	4,474	19,405	94,649	70,710
Iron and steel: Steel works and rolling mills.....	3	314	2,905	37,570	4,280	755,584	3,920,774	5,370,877	900,211	18,680,240	7,397,188
Knit goods.....	7	21	703	---	370	45,940	635,094	3,411,303	25,189	4,628,112	1,191,620
Printing and publishing, book and job.....	6	11	74	---	160	35,396	83,206	117,892	4,478	330,006	207,726
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5	8	46	---	152	21,740	48,492	1,406,000	4,754	1,670,245	259,491
Shirts.....	9	33	1,061	---	140	61,675	645,203	1,289,625	21,142	2,220,084	909,417
Silk and rayon manufactures.....	7	32	535	---	785	61,477	575,571	2,234,174	32,928	4,251,573	1,984,471
Other industries.....	61	196	2,315	132	19,957	466,184	2,214,001	4,021,647	734,969	10,790,005	5,133,389

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

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

LEHIGH COUNTY

All industries, total.....	399	3,483	26,736	40,919	70,327	Dollars 9,082,080	Dollars 32,042,017	Dollars 89,612,760	Dollars 5,047,641	Dollars 175,284,153	Dollars 80,023,752
Beverages.....	13	37	90	1,590	223	62,963	159,082	313,015	33,984	1,017,259	670,260
Boots and shoes, other than rubber.....	6	15	158	90	264	34,413	132,427	252,462	7,591	520,915	260,862
Bread and other bakery products.....	51	51	610	16	729	149,440	854,727	1,904,534	100,524	4,020,643	2,015,585
Cement.....	6	203	1,437	19,945	24,130	610,974	2,240,394	1,242,301	2,665,132	12,111,326	8,293,893
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	3	3	10	---	8	5,422	9,207	28,789	338	55,975	26,848
Concrete products.....	7	25	100	4	289	88,356	126,140	87,743	8,470	358,171	261,958
Flour and other grain-mill products.....	10	17	49	755	66	40,430	60,104	1,220,405	6,961	1,502,823	269,457
Foundry and machine-shop products, not elsewhere classified.....	21	613	1,307	105	9,695	1,599,840	1,893,918	3,236,399	229,681	8,604,125	5,138,045
Ice cream.....	3	11	58	---	184	35,776	70,725	283,170	19,659	693,807	390,978
Ice, manufactured.....	7	12	41	1,200	138	26,697	73,820	23,495	40,415	289,096	225,186
Marble, granite, slate, and other stone products.....	15	42	433	990	1,708	94,617	430,813	312,150	55,099	1,174,806	807,367
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	8	28	132	650	537	63,926	218,164	227,544	15,615	674,633	431,474
Printing and publishing, book and job.....	19	24	185	---	140	58,655	244,693	262,290	9,416	790,052	518,346
Silk and rayon manufactures.....	73	505	8,961	1,733	8,171	1,385,299	10,139,980	22,721,174	510,345	45,030,613	21,799,094
Textile machinery and parts ¹⁸	7	25	158	---	129	67,234	144,240	232,766	7,369	644,199	304,064
Other industries ¹⁹	150	1,872	12,929	13,781	23,907	4,738,015	15,232,177	57,258,523	1,337,042	97,895,910	39,300,345

¹⁸ The figures for this industry include data for 1 establishment located outside the county, to avoid disclosing the figures 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.

¹⁹ See footnote 13.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
LUZERNE COUNTY											
All industries, total.....	415	2,600	25,377	20,174	34,361	Dollars 6,269,860	Dollars 24,439,800	Dollars 54,624,903	Dollars 2,042,008	Dollars 111,143,277	Dollars 54,476,366
Beverages.....	28	27	168	920	224	92,377	290,281	327,410	24,204	1,138,634	787,020
Bread and other bakery products.....	62	163	1,037	213	1,333	408,440	1,305,942	3,366,303	144,375	7,307,935	3,797,267
Car and general construction and repairs, steam-railroad repair shops.....	11	132	1,601	3,848	1,110	347,032	2,548,378	1,913,670	94,402	4,903,491	2,895,410
Clay products (other than pottery) and non-clay refractories ²⁰	0	14	107	186	1,230	33,626	117,908	13,884	52,873	251,790	185,033
Clothing, work (including sheep-lined work coats but not including shirts), men's.....	4	14	249	-----	53	20,899	169,213	380,045	4,773	710,971	317,163
Concrete products.....	7	8	17	-----	377	14,989	21,816	88,132	5,045	198,074	104,897
Feeds, prepared, for animals and fowls.....	5	9	21	45	247	11,740	20,905	254,245	3,270	309,338	61,817
Foundry and machine-shop products, not elsewhere classified.....	22	290	904	1,666	1,752	712,984	1,230,282	2,149,122	76,987	5,088,486	3,462,377
Ice cream.....	19	32	177	200	1,355	95,685	244,232	706,860	52,700	1,572,796	813,230
Lumber and timber products, not elsewhere classified.....	11	2	53	90	-----	(²¹)	52,133	70,793	1,920	255,352	182,639
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	11	34	122	310	763	62,423	163,616	199,934	15,312	520,801	305,555
Printing and publishing, book and job.....	25	40	199	-----	404	109,593	328,592	345,196	15,753	1,081,588	720,639
Printing and publishing, newspaper and periodical.....	22	243	272	6	677	570,630	591,593	472,359	44,709	2,037,557	2,170,429
Shirts.....	8	95	2,265	-----	317	248,173	1,295,194	3,455,996	27,344	6,062,637	2,570,297
Silk and rayon manufactures.....	54	491	10,559	5,518	13,663	1,012,625	8,490,912	21,924,807	723,876	39,060,770	17,012,087
Other industries ²²	120	1,006	7,626	7,172	10,847	2,509,834	7,553,304	18,947,138	754,393	38,793,057	19,091,526

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.²⁰ The figures for this industry include data for 1 establishment located outside the county, to avoid disclosing the figures 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.²¹ Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."²² See footnote 20.**LYCOMING COUNTY**

All industries, total.....	180	1,735	12,005	17,506	23,139	Dollars 4,111,020	Dollars 15,123,311	Dollars 40,128,282	Dollars 1,309,330	Dollars 78,073,506	Dollars 30,635,894
Beverages.....	4	11	32	400	266	24,708	37,924	59,929	11,133	180,463	109,401
Bread and other bakery products.....	15	31	272	-----	487	77,738	315,002	804,478	44,071	1,083,242	834,693
Car and general construction and repairs, steam-railroad repair shops.....	7	35	383	35	299	88,826	648,880	542,910	30,061	1,310,683	737,706
Concrete products.....	4	8	18	-----	103	14,473	23,143	31,214	2,714	89,003	55,075
Foundry and machine-shop products, not elsewhere classified.....	10	181	933	994	1,392	426,352	1,295,924	1,327,743	111,111	4,603,816	3,164,062
Furniture, including store and office fixtures.....	17	156	1,272	3,325	741	363,962	1,380,562	2,048,268	84,050	4,739,032	2,006,128
Ice cream.....	6	10	39	103	309	15,546	40,376	100,241	11,431	343,126	141,454
Lime.....	3	4	29	-----	325	7,461	25,918	16,023	12,999	72,289	43,297
Paints and varnishes.....	3	6	13	250	80	16,992	21,486	78,358	2,599	158,559	77,032
Planing-mills products (including general mill-work), not made in planing mills connected with sawmills.....	11	73	378	1,200	1,099	198,076	492,309	858,627	36,764	2,098,224	1,202,833
Printing and publishing, book and job.....	14	32	101	-----	134	97,987	163,093	197,802	8,747	566,148	359,599
Printing and publishing, newspaper and periodical.....	13	118	1,659	900	1,316	200,559	1,831,776	7,980,172	97,425	12,917,102	4,839,505
Wood turned and shaped and other wooden goods, not elsewhere classified.....	3	9	33	275	21	16,200	27,694	30,487	1,882	99,595	67,226
Other industries ²²	70	1,061	6,843	10,024	16,562	2,562,000	8,820,224	25,961,994	853,767	49,212,174	22,306,413

²² The figures for this item include data for the "Engines, turbines, tractors, and water wheels" 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 approximations of the data for individual establishments. The "Silk and rayon manufactures" industry outranks all others in respect of value of products.**MERCER COUNTY**

[Because of the amount of manufacturing industry in this county, it had 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.....	139	1,794	13,233	96,150	107,468	Dollars 4,324,070	Dollars 21,587,349	Dollars 66,210,452	Dollars 9,011,607	Dollars 120,132,251	Dollars 44,901,192
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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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
MONTGOMERY COUNTY											
All industries, total.....	491	3,955	32,657	80,797	91,143	Dollars 11,317,934	Dollars 43,563,791	Dollars 103,344,303	Dollars 11,413,502	Dollars 219,039,734	Dollars 104,323,929
Beverages.....	7	28	103	675	60	81,005	177,298	285,884	21,075	982,765	675,800
Bread and other bakery products.....	44	108	504	810	810	258,752	947,520	1,584,082	80,208	3,553,210	1,882,920
Butter.....	10	9	18	51	98	4,688	19,734	320,748	7,293	400,304	60,263
Car and general construction and repairs, electric-railroad repair shops.....	3	1	38	28	(²⁴)	35,775		22,145	273	60,233	37,815
Clay products (other than pottery) and nonclay refractories.....	10	65	592	295	2,113	170,180	781,059	1,410,203	250,119	2,055,453	1,289,131
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified).....	10	73	1,736	110	349	251,762	1,300,085	1,672,638	42,614	3,859,544	2,244,292
Concrete products.....	12	42	109	120	334	84,616	100,722	202,075	20,994	688,748	404,779
Cotton goods.....	6	19	302	352	73,869	321,991	795,403	19,352	1,480,644	671,889	
Electrical machinery, apparatus, and supplies.....	7	73	311	312	270,300	443,416	1,595,193	50,130	3,336,679	1,391,253	
Flour and other grain-mill products.....	6	7	15	615	49	9,354	15,458	172,480	2,028	235,001	61,393
Foundry and machine-shop products, not elsewhere classified.....	33	283	2,032	605	7,234	857,149	2,850,405	2,395,498	276,064	8,082,355	6,300,953
Glass.....	3	30	282	110	284	91,300	301,027	317,010	104,987	644,331	522,384
Ice cream.....	5	9	25	272	25,816	86,718	111,513	13,045	265,126	170,568	
Ice, manufactured.....	10	15	50	1,020	1,879	49,061	92,032	24,856	87,008	484,049	372,455
Knit goods.....	33	217	3,014	465	1,866	668,707	4,345,060	3,144,046	143,808	17,867,036	9,573,582
Marble, granite, slate, and other stone products.....	7	5	31	103	231	11,040	61,875	54,792	4,812	194,601	134,907
Meat packing, wholesale.....	6	12	131	25	610	33,450	213,122	2,541,210	20,440	2,805,566	325,919
Paper.....	6	61	535	5,700	2,297	228,034	847,954	2,300,135	372,464	6,200,920	2,019,321
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	3	13	36	695	720	39,020	68,317	25,130	10,558	227,734	183,046
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	19	69	292	610	1,664	183,470	498,476	549,287	33,526	1,500,581	917,768
Printing and publishing, book and job.....	15	8	61	120	120	16,664	80,398	78,086	6,306	281,013	190,621
Printing and publishing, newspaper and periodical.....	23	163	178	8	400	296,677	282,198	190,353	26,332	1,263,979	1,041,294
Shirts.....	9	47	858	174	577	120,676	600,580	532,612	14,828	1,581,160	1,033,720
Silk and rayon manufactures.....	14	60	890	400	577	142,576	831,524	2,993,100	49,824	4,733,238	1,690,308
Wirework, not elsewhere classified.....	3	14	118	65	120	37,114	147,973	136,677	4,154	421,751	280,920
Other industries.....	178	2,524	19,490	69,125	67,464	7,323,731	28,317,169	74,100,698	9,730,760	154,055,960	70,824,532

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

²⁴ Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

NORTHAMPTON 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.....	306	3,306	31,747	375,218	82,119	Dollars 9,153,926	Dollars 44,448,249	Dollars 86,015,105	Dollars 24,490,502	Dollars 220,901,126	Dollars 110,395,522
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NORTHUMBERLAND COUNTY

All industries, total.....	159	1,003	10,353	11,352	22,141	Dollars 2,180,233	Dollars 11,269,498	Dollars 28,580,401	Dollars 1,422,434	Dollars 61,260,325	Dollars 31,257,490
Beverages.....	5	2	11	36	36	(²⁵)	14,020	29,093	1,475	74,706	44,138
Bread and other bakery products.....	18	26	239	8	498	62,042	293,372	720,591	41,683	1,571,987	809,713
Clay products (other than pottery) and nonclay refractories.....	4	18	223	1,460	56,919	282,710	10,654	193,923	668,909	464,332	
Flour and other grain-mill products.....	9	9	35	175	653	16,689	45,525	1,175,110	19,140	1,358,121	163,862
Gas, manufactured, illuminating and heating.....	4	35	78	273	76	43,835	99,695	105,764	43,698	438,811	289,449
Ice cream.....	8	15	57	12	636	23,704	83,177	249,531	34,606	664,204	380,067
Ice, manufactured.....	5	5	9	260	273	6,395	18,256	2,093	10,057	62,688	49,638
Knit goods.....	6	22	229	104	43,433	117,033	150,900	6,573	355,310	197,837	
Lumber and timber products, not elsewhere classified.....	4	7	60	33	7,434	43,630	35,422		108,820	73,398	
Printing and publishing, book and job.....	5	6	19	60	8,340	44,497	20,782	1,647	99,480	77,151	
Printing and publishing, newspaper and periodical.....	9	70	98	314	181,359	151,931	104,190	14,324	620,403	501,889	
Shirts.....	7	19	791	329	34,870	558,752	1,560,516	10,180	3,114,742	1,544,040	
Silk and rayon manufactures.....	20	235	3,831	2,010	4,318	600,728	3,984,628	14,682,319	267,177	29,106,345	14,266,849
Other industries.....	55	534	4,078	8,581	13,384	1,150,400	5,532,373	9,832,527	788,146	23,015,799	12,395,127

²⁵ 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—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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^a
				Prime movers	Electric motors driven by purchased energy						

PHILADELPHIA COUNTY (COEXTENSIVE WITH PHILADELPHIA CITY)

[The totals for all industries do not include data for establishments located outside the county (see footnote 26), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	5,567	45,708	246,908	204,830	387,401	Dollars 123,703,577	Dollars 338,010,496	Dollars 996,415,082	Dollars 20,214,527	Dollars 2,003,710,905	Dollars 978,080,696
Artificial and preserved flowers and plants.....	7	14	183	-----	32	42,057	135,861	232,852	8,426	550,919	320,641
Awnings, tents, sails, and canvas covers ²⁶	37	59	255	-----	120	131,760	321,060	1,142,264	9,982	2,005,566	853,320
Bags, paper, exclusive of those made in paper mills.....	8	96	371	-----	721	180,340	506,166	1,569,871	27,873	2,822,002	1,224,258
Baskets and rattan and willow ware, not including furniture.....	6	29	222	-----	75	80,566	220,298	477,075	8,907	1,028,835	542,853
Beverages.....	84	153	601	1,825	1,031	436,745	1,008,660	2,103,000	142,937	6,298,404	4,052,407
Boxes, paper, not elsewhere classified.....	64	404	2,823	228	2,080	1,138,010	2,590,059	5,373,550	103,690	11,825,031	6,841,701
Boxes, wooden, except cigar boxes.....	23	90	860	4,010	550	360,813	1,016,177	1,794,282	40,263	4,031,515	2,196,970
Bread and other bakery products.....	509	1,012	7,401	2,740	11,433	2,492,169	10,136,522	28,563,815	1,163,919	63,232,128	33,594,894
Buttons.....	8	39	461	352	377	95,016	408,745	684,909	30,038	1,748,645	1,033,608
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	21	98	648	336	1,140	284,390	590,679	6,486,900	79,143	9,041,507	2,475,464
Cardboard, not made in paper mills.....	3	107	258	580	69	421,820	343,622	1,011,348	19,382	2,488,822	1,468,002
Card cutting and designing.....	10	40	254	-----	377	148,276	283,190	346,651	6,069	1,068,635	715,315
Carriages and sleds, children's.....	4	35	184	100	156	93,919	228,842	495,770	15,598	909,770	380,402
Chemicals, not elsewhere classified.....	15	367	1,494	10,028	5,746	888,664	2,243,150	11,040,810	698,588	17,755,998	6,010,504
Chocolate and cocoa products, not including confectionery ²⁶	4	150	507	3,055	2,832	533,915	675,661	5,253,043	127,345	8,840,370	3,450,301
Cigars and cigarettes.....	53	422	8,142	1,293	2,624	1,421,018	6,920,612	20,510,065	180,209	51,308,418	30,618,144
Clay products (other than pottery) and nonclay refractories.....	13	72	608	1,240	858	288,913	878,237	198,292	288,151	2,221,665	1,735,222
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	295	937	10,743	-----	2,143	2,345,765	15,015,258	41,226,878	232,490	79,815,500	38,356,222
Clothing, men's, buttonholes.....	7	3	97	-----	15	3,640	98,406	10,955	1,285	165,854	147,614
Clothing, women's, not elsewhere classified.....	207	778	8,526	-----	1,495	1,787,249	9,436,020	29,019,162	187,238	55,536,468	25,400,078
Concrete products.....	3	24	87	75	670	62,877	126,431	158,311	14,774	487,702	314,117
Confectionery.....	99	437	3,447	1,301	4,384	1,321,714	3,149,849	9,260,121	268,744	10,611,302	10,082,437
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	59	322	971	320	1,178	818,280	1,464,287	2,818,507	52,595	6,821,932	3,050,830
Cotton goods.....	72	474	5,218	4,978	5,511	1,822,446	7,730,226	16,720,887	408,781	34,578,053	17,448,885
Cotton small wares ²⁶	24	160	2,059	2,736	1,091	660,467	2,001,222	3,165,396	122,604	8,148,653	4,860,653
Dental goods and equipment.....	11	112	1,133	8	436	350,685	1,106,740	1,312,990	65,006	3,011,938	2,233,333
Druggets' preparations ²⁶	20	381	1,448	1,200	1,640	1,110,385	1,530,668	4,195,783	89,816	12,242,193	7,950,594
Dyeing and finishing textiles.....	98	500	3,490	10,403	7,064	2,014,462	4,723,698	7,712,565	974,225	20,317,665	11,630,876
Electrical machinery, apparatus, and supplies.....	54	3,788	16,492	8,247	18,391	9,052,340	22,775,036	60,891,058	1,042,558	141,009,409	79,075,790
Electroplating ²⁶	19	32	126	150	247	75,839	196,609	60,425	16,833	501,107	423,769
Emery wheels and other abrasive and polishing appliances.....	6	165	557	1,200	831	390,889	753,333	923,006	107,537	3,687,515	2,050,972
Engraving (other than steel, copperplate, or wood), chasing, etching, and diecasting ²⁶	10	2	39	-----	48	(?)	59,126	39,041	1,410	179,185	138,734
Envelopes.....	12	163	710	-----	579	430,639	643,846	1,478,657	25,482	3,473,252	1,069,113
Fancy and miscellaneous articles, not elsewhere classified ²⁶	48	165	1,309	-----	345	438,723	1,170,087	2,272,939	25,816	5,132,640	2,833,885
Feeds, prepared, for animals and fowls.....	5	15	21	70	185	30,267	32,562	752,839	8,842	902,320	140,630
Files.....	5	66	900	1,025	1,994	217,186	1,119,622	404,170	127,408	2,980,433	2,448,565
Flavoring extracts and flavoring sirups.....	22	127	222	483	362	360,678	257,044	1,356,312	38,195	4,445,201	3,050,694
Food preparations, not elsewhere classified.....	27	84	165	25	565	210,722	189,450	1,688,770	33,477	2,406,260	784,013
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	6	66	296	260	2,826	199,743	508,558	780,856	150,908	1,902,154	970,390
Foundry and machine-shop products, not elsewhere classified.....	221	2,982	10,101	6,272	23,921	8,165,999	16,943,698	22,110,705	1,058,238	71,048,427	47,879,484
Fur goods.....	113	102	337	-----	191	235,386	651,719	2,923,283	29,409	4,788,383	1,830,031
Furniture, including store and office fixtures.....	114	631	4,045	2,781	6,162	1,888,404	6,408,976	8,830,826	240,175	21,385,065	12,814,064
Gas machines, gas meters, and water and other liquid meters.....	4	73	330	185	125	210,271	491,004	978,996	21,725	2,242,316	1,241,695
Grease and tallow, not including lubricating greases.....	7	63	327	405	1,427	178,084	478,924	3,317,619	30,052	4,546,931	1,149,260
Hair work.....	6	3	26	-----	3	2,832	30,672	11,888	915	73,690	60,887
Hand stamps and stencils and brands.....	15	21	200	-----	231	74,476	256,657	208,306	13,932	809,922	587,684
House-furnishing goods, not elsewhere classified ²⁶	41	113	735	100	813	310,321	824,263	3,722,081	47,846	5,832,476	2,062,549
Ice cream.....	39	321	1,111	1,260	8,784	909,247	1,735,984	8,676,470	250,100	20,851,045	11,924,385
Ice, manufactured.....	39	114	404	3,600	22,701	448,073	826,839	662,777	5,342,896	4,537,630	4,537,630
Ink, printing ²⁶	13	113	236	25	1,618	407,943	410,667	1,110,653	56,115	3,443,104	2,276,330
Iron and steel: Steel works and rolling mills.....	7	390	2,713	16,172	29,110	1,095,874	4,379,044	2,818,767	1,283,517	12,308,018	8,705,734
Jewelry.....	52	18	449	-----	255	232,346	713,780	1,481,211	14,059	3,261,098	1,765,828
Jewelry and instrument cases.....	9	15	134	24	80	34,960	145,806	204,642	4,675	513,407	304,090
Knit goods.....	199	1,640	25,044	5,158	10,003	5,609,089	37,352,017	60,000,087	846,528	128,428,408	67,651,795
Lasts and related products.....	4	11	56	-----	208	37,311	79,210	1,411,805	10,697	215,944	163,442
Leather goods, not elsewhere classified ²⁶	17	36	171	15	59	83,972	190,035	376,635	6,499	853,476	470,242
Leather: Tanned, curried, and finished.....	25	302	4,803	9,653	3,457	1,482,092	6,463,531	30,396,693	399,630	44,045,458	13,249,335
Lubricating oils and greases, not made in petroleum refineries.....	13	331	173	525	855	863,341	266,675	1,675,249	35,271	5,562,731	3,852,211
Marble, granite, slate, and other stone products.....	32	86	611	504	2,301	200,610	1,010,932	1,408,166	64,488	3,335,110	1,862,402
Mattresses and bed springs, not elsewhere classified ²⁶	29	70	409	9	786	132,155	486,806	1,538,980	30,520	2,822,795	1,253,339
Meat packing, wholesale.....	31	298	1,542	1,945	1,679	869,180	2,347,018	40,046,264	240,663	47,860,101	7,573,184
Mirror and picture frames.....	6	3	21	-----	18	5,737	28,418	78,311	1,149	157,472	77,012
Mirrors, framed and unframed.....	14	22	154	30	334	69,912	255,076	710,432	23,584	1,391,268	657,252

See footnotes at end of this section, p. 467.

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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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PHILADELPHIA COUNTY—Continued											
Models and patterns, not including paper patterns.....	28	13	260	55	283	Dollars 24, 718	Dollars 351, 832	Dollars 147, 400	Dollars 7, 667	Dollars 852, 114	Dollars 697, 047
Mucilage, paste, and other adhesives, except glue and rubber cement ²⁶	7	19	25	28	45	46, 309	29, 571	178, 372	3, 391	346, 277	164, 514
Nonferrous-metal alloys and products, not including aluminum products.....	54	257	1, 256	1, 533	4, 167	852, 744	1, 940, 082	9, 220, 915	262, 246	14, 469, 878	4, 086, 517
Paints and varnishes.....	55	715	1, 355	6, 694	2, 208	1, 889, 507	2, 024, 891	17, 177, 787	238, 577	26, 395, 880	8, 970, 566
Paper.....	5	200	1, 335	12, 045	3, 058	307, 375	1, 796, 369	5, 053, 599	654, 385	9, 732, 191	4, 024, 297
Paper goods, not elsewhere classified.....	18	71	232	283	532	212, 124	274, 842	1, 145, 375	21, 633	2, 031, 256	864, 248
Patent or proprietary medicines and compounds. Perfumes, cosmetics, and other toilet preparations.....	57	254	506	524	451	802, 260	652, 802	3, 096, 301	41, 413	11, 763, 532	8, 625, 818
Photo-engraving, not done in printing establishments.....	22	117	162	-----	96	404, 107	154, 576	1, 234, 846	7, 258	3, 264, 188	2, 022, 080
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	20	251	713	-----	430	785, 296	2, 034, 212	569, 774	41, 099	4, 671, 047	4, 060, 174
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	51	372	1, 091	2, 844	2, 697	1, 099, 785	1, 866, 089	2, 804, 600	90, 323	7, 350, 463	4, 455, 540
Printing and publishing, book and job.....	10	59	280	170	714	132, 147	367, 030	515, 716	36, 542	1, 275, 053	722, 795
Printing and publishing, music.....	480	1, 567	5, 752	759	6, 099	4, 443, 666	9, 293, 070	11, 490, 311	317, 978	38, 118, 432	26, 310, 143
Printing and publishing, newspaper and periodical.....	5	25	13	-----	33	52, 112	10, 721	15, 438	1, 921	293, 900	276, 631
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	139	6, 893	9, 913	4, 922	23, 654	14, 073, 586	12, 026, 757	35, 878, 774	548, 040	130, 885, 798	100, 458, 384
Saddlery and harness.....	6	28	68	35	219	69, 695	120, 158	188, 075	5, 982	540, 905	346, 848
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5	3	30	-----	4	5, 619	31, 710	50, 817	270	126, 035	74, 948
Scales and balances.....	7	39	225	230	470	110, 184	394, 539	3, 378, 103	37, 245	4, 889, 006	974, 258
Shirts.....	3	8	89	26	45	26, 473	135, 030	95, 843	3, 076	318, 067	219, 148
Signs and advertising novelties.....	46	262	3, 065	30	680	708, 038	2, 628, 771	8, 185, 344	69, 700	15, 330, 487	7, 075, 443
Silk and rayon manufactures.....	41	74	276	-----	91	207, 549	430, 969	800, 455	9, 105	2, 152, 653	1, 343, 093
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	37	267	3, 222	860	3, 188	978, 003	3, 410, 087	11, 350, 262	141, 950	19, 689, 963	8, 197, 751
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	6	74	501	20	898	288, 216	434, 202	7, 087, 877	231, 210	9, 188, 042	1, 868, 055
Stationery goods, not elsewhere classified ²⁶	10	63	456	-----	830	184, 727	578, 513	869, 404	29, 086	1, 873, 384	973, 034
Statuary and art goods, factory product.....	0	6	246	60	88	113, 394	248, 733	494, 765	11, 025	1, 115, 746	609, 956
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	12	33	211	36	105	91, 828	344, 371	201, 308	9, 794	858, 048	646, 946
Steam fittings and steam and hot-water heating apparatus.....	14	83	325	197	770	276, 817	432, 201	985, 048	36, 297	2, 259, 060	1, 237, 124
Stoves and ranges (other than electric) and warm-air furnaces.....	6	171	367	700	34	433, 046	514, 062	1, 223, 998	25, 886	2, 722, 333	1, 472, 449
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	13	67	338	-----	236	154, 079	595, 963	1, 091, 616	14, 911	2, 428, 291	1, 321, 704
Sugar refining, cane.....	31	177	937	80	2, 150	457, 393	1, 453, 393	3, 390, 816	69, 941	6, 551, 726	3, 100, 969
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	3	271	1, 715	17, 208	-----	769, 020	2, 726, 953	64, 737, 889	1, 085, 329	73, 989, 294	8, 166, 076
Upholstering materials, not elsewhere classified.....	13	51	403	324	306	147, 625	354, 041	520, 325	18, 429	1, 304, 754	756, 500
Waste.....	5	38	255	590	159	141, 574	255, 711	1, 378, 377	33, 961	2, 103, 570	691, 232
Window and door screens and weather strip.....	23	92	376	345	1, 310	298, 694	417, 282	3, 796, 985	42, 952	5, 316, 643	1, 476, 706
Wirework, not elsewhere classified.....	5	13	82	360	60	61, 610	112, 301	262, 471	3, 387	507, 934	302, 076
Woolen goods.....	20	24	150	-----	123	40, 099	202, 444	283, 156	8, 423	725, 562	433, 983
Worsted goods.....	41	237	2, 765	5, 675	4, 148	983, 081	3, 843, 073	13, 827, 929	284, 146	22, 302, 297	8, 190, 222
Other industries.....	46	587	7, 734	13, 855	7, 681	1, 872, 194	9, 403, 572	38, 319, 054	599, 376	62, 057, 193	23, 138, 763
	1, 111	12, 364	65, 821	87, 724	120, 523	33, 283, 789	90, 619, 762	273, 393, 230	11, 864, 724	522, 504, 774	232, 240, 829

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

²⁶ 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 the establishments in question: Awnings, tents, sails, and canvas covers, 2; chocolate and cocoa products, not including confectionery, 1; cotton small wares, 2; druggists' preparations, 1; electroplating, 1; engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking, 1; fancy and miscellaneous articles, not elsewhere classified, 2; house-furnishing goods, not elsewhere classified, 2; ink, printing, 1; leather goods, not elsewhere classified, 1; mattresses and bed springs, not elsewhere classified, 1; mucilage, paste, and other adhesives, except glue and rubber cement, 1; stationery goods, not elsewhere classified, 1.

²⁷ 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—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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
SCHUYLKILL COUNTY											
All industries, total.....	264	926	12,110	22,542	10,366	Dollars 1,991,072	Dollars 11,040,938	Dollars 27,500,825	Dollars 1,383,272	Dollars 55,043,850	Dollars 20,699,793
Beverages.....	21	29	140	933	228	94,177	193,881	317,143	43,191	1,123,106	762,772
Boots and shoes, other than rubber.....	12	49	717	85	352	30,201	554,258	1,165,526	18,396	2,296,037	1,112,115
Boxes, paper, not elsewhere classified.....	4	10	80	-----	44	24,060	61,865	83,635	3,087	245,730	159,008
Bread and other bakery products.....	41	32	310	6	797	71,387	403,659	890,488	50,287	1,873,722	932,947
Flour and other grain-mill products.....	4	2	2	130	45	(²⁸)	(²⁸)	38,322	1,596	48,755	8,337
Foundry and machine-shop products, not elsewhere classified.....	5	76	335	575	2,574	188,895	409,050	919,099	54,508	1,780,763	807,156
Gas, manufactured, illuminating and heating.....	7	19	63	486	67	32,607	59,710	64,485	83,950	368,836	220,401
Ice cream.....	9	18	76	-----	377	30,220	85,114	456,210	19,308	1,117,219	641,701
Ice, manufactured.....	11	22	42	825	841	38,700	57,222	15,636	58,319	271,588	197,633
Knit goods.....	31	86	1,271	155	721	146,540	840,649	2,536,945	38,655	4,756,340	2,180,740
Meat packing, wholesale.....	6	51	187	971	201	112,982	261,638	2,488,530	25,394	3,026,087	611,723
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	8	10	37	220	197	16,919	48,956	59,299	3,995	162,521	99,227
Printing and publishing, book and job.....	5	4	13	-----	30	4,863	20,910	28,059	1,151	96,175	65,965
Printing and publishing, newspaper and periodical.....	15	91	139	-----	385	165,213	228,097	132,610	18,711	956,609	805,282
Shirts.....	23	50	2,093	-----	640	150,227	1,602,122	4,653,302	37,830	9,721,688	6,026,656
Silk and rayon manufactures.....	4	20	573	-----	1,121	65,208	456,971	1,383,411	64,944	2,251,620	803,265
Other industries.....	58	351	5,426	18,156	7,740	768,864	5,856,936	12,323,110	859,510	25,548,054	12,365,425

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.²⁸ Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

WASHINGTON COUNTY

All industries, total.....	150	1,225	14,590	91,146	30,841	Dollars 3,113,125	Dollars 21,952,101	Dollars 64,678,276	Dollars 7,611,390	Dollars 119,089,966	Dollars 47,000,000
Beverages.....	13	5	37	50	101	9,320	49,324	145,788	5,605	329,275	177,382
Bread and other bakery products.....	32	10	132	-----	275	27,577	162,110	412,111	21,261	821,809	388,437
Clay products (other than pottery) and non-clay refractories.....	4	21	171	480	1,601	56,972	217,700	76,433	71,024	468,410	320,959
Concrete products.....	7	3	12	-----	102	3,700	14,373	28,154	1,721	73,156	43,281
Flour and other grain-mill products.....	6	5	12	235	417	10,468	13,610	133,576	5,156	182,767	44,035
Foundry and machine-shop products, not elsewhere classified.....	0	45	230	60	1,970	150,740	343,116	635,748	47,347	1,630,738	947,643
Glass.....	8	370	3,315	3,120	9,086	849,226	4,177,742	5,857,022	1,051,317	18,169,221	10,660,306
Ice cream.....	4	12	38	-----	435	22,735	67,668	174,302	25,311	437,455	237,842
Ice, manufactured.....	0	12	32	288	628	18,410	46,827	4,004	20,028	196,487	106,415
Iron and steel: Steel works and rolling mills.....	7	367	6,365	²⁹ 78,780	²⁹ 10,592	949,648	10,772,555	36,325,465	2,748,669	60,030,860	20,962,732
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	0	7	13	-----	235	7,956	24,450	27,536	2,427	70,613	40,650
Printing and publishing, book and job.....	4	2	18	-----	29	(³⁰)	30,852	20,755	1,457	94,262	72,050
Printing and publishing, newspaper and periodical.....	11	63	96	-----	157	125,777	173,316	96,790	9,867	670,885	564,228
Other industries.....	33	303	4,128	8,163	14,313	871,596	5,858,449	20,039,972	2,894,204	35,907,716	12,373,540

²⁹ 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.³⁰ Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

WESTMORELAND COUNTY

All industries, total.....	270	3,233	28,810	120,725	82,646	Dollars 8,652,003	Dollars 44,076,418	Dollars 93,055,453	Dollars 11,937,205	Dollars 200,774,600	Dollars 95,782,032
Beverages.....	16	9	66	298	452	25,648	88,135	174,169	39,879	435,966	221,018
Bread and other bakery products.....	44	14	221	-----	483	37,062	318,597	829,675	37,257	1,686,938	720,006
Clay products (other than pottery) and non-clay refractories.....	9	62	419	550	2,203	180,275	495,462	319,782	164,285	1,745,435	1,261,368
Coke, not including gas-house coke.....	16	57	483	1,184	1,123	93,377	570,860	123,353	2,425,913	3,555,826	1,006,560
Concrete products.....	6	1	17	-----	111	(³¹)	21,167	38,570	1,313	99,480	59,597
Foundry and machine-shop products, not elsewhere classified.....	22	358	1,608	2,400	5,469	1,069,321	2,542,941	5,998,007	296,737	15,001,383	8,706,639
Ice cream.....	9	10	31	-----	412	10,450	40,170	154,649	12,940	350,895	183,306
Ice, manufactured.....	9	14	61	154	1,571	27,406	95,514	17,130	62,517	301,190	221,543
Iron and steel: Steel works and rolling mills.....	12	881	11,945	³² 101,085	³² 33,172	2,644,334	20,980,854	44,095,244	4,610,843	92,143,575	48,437,488
Lumber and timber products, not elsewhere classified.....	6	-----	12	147	-----	-----	11,073	10,108	160	52,974	36,706
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	12	18	52	-----	1,383	36,693	84,150	215,466	8,770	417,023	192,737
Printing and publishing, book and job.....	12	19	97	-----	131	61,960	120,152	155,243	5,019	440,352	280,090
Printing and publishing, newspaper and periodical.....	14	84	164	-----	388	182,586	269,937	186,473	17,367	1,010,400	806,570
Steam fittings and steam and hot-water heating apparatus.....	4	231	2,060	1,842	5,378	467,436	2,687,728	1,768,223	261,610	7,470,324	5,440,491
Other industries.....	79	1,475	11,574	13,035	30,370	3,815,509	15,734,683	38,963,361	3,992,605	76,162,929	33,206,963

³¹ See footnote 30, above.³² See footnote 29, above.

PENNSYLVANIA

BUREAU OF STATISTICS
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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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
YORK COUNTY											
All industries, total.....	586	3,149	30,331	29,986	68,300	Dollars 7,957,047	Dollars 20,933,056	Dollars 68,632,671	Dollars 3,171,247	Dollars 100,705,240	Dollars 88,901,322
Awings, tents, sails, and canvas covers.....	3		11		3		8,020	20,591		46,443	24,703
Beverages.....	8	12	31		79	35,386	38,847	104,518	2,463	273,150	100,109
Boxes, cigar, wooden.....	12	26	745	577	650	64,760	562,271	1,130,548	21,284	2,478,567	1,320,725
Boxes, paper, not elsewhere classified.....	4	9	45		67	13,162	23,400	43,329	2,064	110,459	65,000
Bread and other bakery products.....	31	63	837	93	1,402	157,202	867,058	1,490,731	91,693	3,982,974	2,301,250
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	22	34	247	851	318	56,647	158,014	796,473	14,308	1,311,558	500,777
Cigars and cigarettes.....	141	177	6,854	6	608	318,277	4,838,500	8,006,551	50,713	18,980,622	10,332,358
Clothing, women's, not elsewhere classified.....	18	29	908		218	35,180	493,734	574,733	18,522	1,400,245	605,940
Concrete products.....	14	19	66	6	220	40,736	75,505	98,110	3,531	319,405	217,758
Confectionery.....	9	7	157		162	31,307	50,638	210,911	8,205	420,017	209,901
Feeds, prepared, for animals and fowls.....	4	16	125	20	1,182	35,010	159,914	5,114,773	28,361	5,776,311	638,177
Flour and other grain-mill products.....	17	10	42	309	628	25,150	54,500	1,081,813	10,080	1,417,214	315,715
Food preparations, not elsewhere classified.....	5	7	43		68	20,214	20,475	162,107	13,463	281,598	105,938
Foundry and machine-shop products, not elsewhere classified.....	26	656	3,702	1,045	18,278	1,478,617	4,404,840	5,411,420	318,044	24,688,502	18,958,138
Furniture, including store and office fixtures.....	24	165	1,660	2,683	4,340	401,899	1,820,193	3,448,709	137,018	7,555,293	3,988,666
Ice cream.....	14	42	120	105	682	103,688	161,030	544,021	33,712	1,376,069	708,336
Ice, manufactured.....	8	17	51	225	1,334	44,093	73,712	6,520	50,630	319,700	282,559
Knit goods.....	7	53	916	465	500	122,558	1,023,206	2,278,765	20,057	4,985,806	2,677,084
Motor-vehicle bodies and motor-vehicle parts.....	8	120	993	975	2,388	230,640	1,236,170	1,781,333	104,082	4,326,211	2,439,806
Paper.....	8	72	700	11,172	8,845	251,664	845,032	4,230,466	560,708	6,957,517	2,151,263
Photo-engraving, not done in printing establishments.....	3	4	22		13	4,400	32,130	10,806	1,413	84,335	66,116
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	15	60	220	455	1,321	148,556	291,164	632,908	20,720	1,251,757	580,129
Printing and publishing, book and job.....	10	55	361		426	203,055	445,105	234,126	14,854	1,231,246	982,266
Printing and publishing, newspaper and periodical.....	8	114	205		373	220,607	226,912	255,798	17,201	1,230,807	906,748
Shirts.....	15	48	753		172	67,436	370,551	641,391	5,752	1,388,008	738,465
Silk and rayon manufactures.....	15	44	1,265	75	1,550	125,293	1,420,056	3,088,172	69,250	6,869,341	3,117,910
Wall paper.....	5	75	530	835	212	331,555	745,894	1,422,658	53,892	3,180,427	1,659,877
Wirework, not elsewhere classified.....	10	277	2,032	645	6,742	540,424	2,278,077	8,125,369	326,673	19,087,905	10,635,803
Other industries.....	116	943	6,498	9,485	15,189	2,758,055	7,132,768	16,454,065	1,143,700	39,382,244	21,783,679

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

^c Includes item for "Pulp" industry. All figures for that industry except those for power are included in the "Other Industries" item to avoid disclosing the data reported by 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, 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
ALLENTOWN											
All industries, total.....	264	2,087	17,508	15,214	27,080	\$5,394,575	\$20,996,175	\$68,073,493	\$1,449,543	\$122,264,393	\$52,741,357
Beverages.....	9	25	75	1,470	144	39,174	126,050	228,174	81,070	766,374	507,124
Bread and other bakery products.....	35	38	473	10	548	90,832	636,950	1,361,200	76,065	3,014,226	1,570,361
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	3	3	16	-----	8	5,422	9,207	28,789	338	55,975	26,848
Concrete products.....	4	23	93	-----	217	81,956	112,574	72,220	6,448	312,555	233,017
Ice cream.....	3	11	58	-----	184	95,778	70,725	283,170	19,659	693,807	390,978
Ice, manufactured.....	3	7	18	760	63	18,889	36,378	10,429	29,405	189,047	140,213
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	5	19	71	250	537	46,717	118,011	78,896	11,028	346,211	256,287
Printing and publishing, book and job.....	19	24	135	-----	149	53,655	244,593	262,290	9,416	790,052	518,346
Silk and rayon manufactures.....	42	317	5,443	793	4,624	924,491	6,622,083	13,540,340	305,172	28,194,733	14,343,221
Other industries.....	131	1,620	11,076	11,931	20,016	4,092,693	13,019,604	52,192,985	960,336	87,901,383	34,748,062

ERIE

All industries, total.....	277	2,800	15,384	28,799	47,804	\$7,752,236	\$23,414,973	\$43,575,887	\$4,161,360	\$103,979,806	\$56,242,579
Awnings, tents, sails, and canvas covers.....	3	-----	10	-----	5	-----	6,312	16,525	148	29,500	12,827
Bread and other bakery products.....	39	29	363	-----	624	71,481	507,347	1,061,028	55,484	2,220,802	1,104,290
Compressed and liquefied gases.....	3	8	12	-----	733	13,953	13,670	5,427	21,937	126,279	98,915
Concrete products.....	6	13	36	-----	179	27,047	48,985	103,524	3,444	228,545	121,677
Foundry and machine-shop products, not elsewhere classified ¹	37	666	3,868	4,132	15,035	2,261,363	6,314,974	8,770,914	583,525	23,747,207	14,392,668
Ice cream.....	7	14	68	820	260	58,054	76,088	336,657	23,676	800,132	499,709
Ice, manufactured ¹	4	11	26	208	1,684	31,900	45,597	16,943	29,787	190,809	144,099
Marble, granite, slate, and other stone products.....	4	1	10	-----	68	(?)	21,394	46,992	1,389	109,377	58,355
Models and patterns, not including paper patterns.....	6	3	35	-----	122	5,551	68,521	27,320	1,670	152,027	123,137
Printing and publishing, book and job ¹	20	44	175	40	241	106,015	216,302	185,807	10,235	716,380	520,347
Printing and publishing, newspaper and periodical.....	5	210	105	-----	366	345,793	291,283	397,700	9,961	1,540,274	1,162,618
Stoves and ranges (other than electric) and warm-air furnaces.....	5	103	713	225	2,554	351,453	1,051,707	1,151,478	86,889	3,157,247	1,010,180
Other industries ²	138	1,689	9,963	23,374	25,924	4,515,769	14,747,733	31,485,552	3,333,535	70,903,868	36,034,771

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹ The figures for the "Foundry and machine-shop products, not elsewhere classified" industry include data for 1 establishment located outside the city, those for the "Ice, manufactured" industry include data for 1 establishment located outside the city, and those for the "Printing and publishing, book and job" industry include data for 2 establishments located outside the city, 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 city are not affected by these counterbalancing adjustments.

² Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

³ See footnote 1.

PHILADELPHIA (SEE PHILADELPHIA COUNTY)

PITTSBURGH

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

All industries, total.....	1,370	11,553	61,503	233,326	160,739	\$31,042,580	\$90,955,072	\$298,175,982	\$22,793,755	\$644,784,634	\$253,814,897
Awnings, tents, sails, and canvas covers.....	16	50	97	96	43	71,515	89,659	358,147	5,318	642,377	278,912
Beverages.....	33	00	249	3,695	295	156,955	408,235	663,167	55,094	1,844,973	1,126,712
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	5	329	2,380	4,233	3,062	1,185,680	3,057,732	6,218,454	333,361	16,306,021	9,754,206
Bookbinding and blank-book making.....	12	19	112	-----	89	58,054	134,076	49,616	2,685	350,801	208,259
Boxes, paper, not elsewhere classified.....	10	109	525	100	696	307,818	516,935	1,867,164	30,323	3,333,855	1,486,368
Bread and other bakery products.....	224	414	5,135	3,474	4,450	964,146	6,607,525	15,642,951	544,604	36,278,153	20,190,698
Brooms.....	3	2	17	-----	14	(?)	16,332	40,562	906	71,824	30,356
Brushes, other than rubber.....	4	16	70	-----	172	39,898	102,417	334,331	3,990	536,922	198,001
Chemicals, not elsewhere classified.....	4	124	261	373	1,248	335,024	318,199	422,073	53,207	1,683,604	1,208,414
Clay products (other than pottery) and nonclay refractories.....	14	37	367	150	2,838	99,243	424,722	98,862	153,343	885,376	633,171
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified ⁵	13	48	533	65	153	147,969	479,077	1,252,890	12,912	2,458,985	1,193,183
Concrete products.....	14	25	111	20	497	44,874	164,108	312,204	25,881	704,592	420,507
Confectionery.....	19	226	1,650	1,476	1,830	604,717	1,480,338	5,865,851	82,388	11,115,599	5,107,360
Druggists' preparations ⁶	8	50	116	-----	440	165,291	94,535	387,367	16,357	971,112	507,888
Food preparations, not elsewhere classified ⁵	8	31	76	7	307	92,939	82,672	832,969	11,227	1,277,622	433,426
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	3	11	29	-----	176	32,762	48,927	75,612	10,189	211,521	125,720
Foundry and machine-shop products, not elsewhere classified.....	98	1,252	4,089	2,217	27,051	4,005,517	8,246,230	13,464,597	742,151	34,941,603	20,734,855
Fur goods.....	10	38	88	-----	25	102,924	153,913	251,357	4,476	634,561	378,728

See footnotes at end of this section, p. 471.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PITTSBURGH—Continued											
Hats and caps, except felt and straw, men's	4	0	40	14	14	\$0, 100	\$08, 377	\$135, 810	\$1, 427	\$254, 074	\$117, 728
Ice cream	12	75	312	1, 425	3, 174	198, 847	480, 001	2, 600, 304	116, 891	5, 485, 226	2, 077, 041
Ice, manufactured	11	84	298	1, 830	0, 885	226, 005	479, 642	60, 151	208, 063	2, 677, 222	2, 400, 008
Iron and steel: Steel works and rolling mills	13	1, 133	10, 044	180, 040	35, 635	3, 186, 306	18, 040, 052	53, 375, 003	5, 362, 515	95, 608, 772	36, 081, 194
Jewelry	10	30	132	12	08	80, 143	208, 049	224, 005	5, 134	627, 550	307, 421
Lubricating oils and greases, not made in petroleum refineries	7	29	137	1, 608	77	102, 121	175, 237	1, 312, 074	11, 791	2, 032, 307	707, 632
Marble, granite, slate, and other stone products	17	45	186	977	077	128, 000	373, 053	420, 034	25, 448	1, 322, 005	875, 023
Mattresses and bed springs, not elsewhere classified	7	53	313	950	050	156, 500	380, 070	003, 018	10, 112	1, 755, 730	832, 700
Meat packing, wholesale	21	317	1, 307	2, 754	1, 215	779, 828	2, 130, 627	23, 008, 010	176, 252	28, 558, 703	5, 283, 535
Models and patterns, not including paper patterns	10	14	145	312	012	34, 286	291, 553	142, 492	7, 858	653, 885	503, 535
Motor-vehicle bodies and motor-vehicle parts	11	40	140	25	081	126, 026	247, 587	555, 322	13, 704	1, 140, 477	560, 051
Patent or proprietary medicines and compounds	13	40	33	80	080	68, 052	30, 510	182, 082	3, 280	471, 114	305, 143
Perfumes, cosmetics, and other toilet preparations	12	25	28	12	012	61, 685	23, 300	97, 360	800	285, 464	187, 304
Photo-engraving, not done in printing establishments	9	53	153	84	084	165, 793	301, 206	93, 682	8, 060	878, 800	776, 158
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills	31	143	325	340	3, 010	435, 373	614, 765	1, 544, 510	42, 000	3, 110, 733	1, 533, 133
Printing and publishing, book and job	156	495	1, 054	222	2, 146	1, 247, 241	2, 000, 370	2, 746, 020	94, 004	9, 592, 724	0, 722, 000
Printing and publishing, newspaper and periodical	69	1, 530	1, 459	4, 137	00	3, 715, 205	3, 055, 548	5, 031, 200	01, 808	23, 746, 437	17, 723, 330
Screw-machine products and wood screws	5	16	105	00	410	34, 801	115, 340	190, 200	18, 118	583, 332	374, 054
Soap	6	13	04	18	241	25, 818	80, 080	300, 534	13, 010	613, 280	292, 827
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	5	24	05	276	076	72, 770	108, 150	360, 851	12, 331	748, 730	375, 548
Stereotyping and electrotyping, not done in printing establishments	4	10	35	155	055	81, 400	74, 392	23, 986	5, 031	285, 708	235, 701
Stoves and ranges (other than electric) and warm-air furnaces	20	252	830	1, 304	2, 265	753, 822	1, 300, 792	4, 006, 755	80, 143	7, 702, 312	3, 606, 414
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	20	252	830	1, 304	2, 265	753, 822	1, 300, 792	4, 006, 755	80, 143	7, 702, 312	3, 606, 414
Surgical and orthopedic appliances, including artificial limbs	6	11	42	41	41	21, 145	57, 814	32, 740	1, 675	174, 106	130, 082
Other industries	403	4, 295	20, 435	29, 798	50, 000	11, 541, 803	36, 199, 455	121, 045, 171	14, 377, 023	242, 108, 883	100, 085, 780

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.
^b 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.
^c Withheld to avoid disclosing composition of individual officers or employees; included in item for "Other industries."
^d The figures for each of the industries covered by this footnote include data for 1 establishment located outside Pittsburgh, to avoid disclosing the figures reported by the establishments in question.
^e 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.

READING

[The totals for all industries do not include data for a few establishments located outside the city (see footnotes 8 and 9) and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total	323	2, 570	25, 970	35, 915	53, 521	\$6, 748, 047	\$31, 752, 207	\$63, 065, 320	\$4, 133, 737	\$120, 910, 422	\$63, 720, 360
Beverages	6	4	24	48	48	7, 036	34, 243	65, 711	2, 442	109, 177	101, 024
Boxes, paper, not elsewhere classified	8	18	217	153	153	55, 626	198, 188	244, 322	8, 256	675, 990	423, 412
Bread and other bakery products	47	70	675	761	761	193, 047	833, 701	1, 470, 710	123, 731	3, 608, 772	2, 014, 322
Cigars and cigarettes	9	22	707	230	230	62, 407	634, 762	1, 403, 031	14, 381	3, 006, 909	1, 040, 587
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	3	1	14	32	32	(?)	10, 199	17, 047	1, 682	48, 163	28, 534
Dyeing and finishing textiles	4	27	120	000	330	103, 827	167, 197	123, 890	42, 093	718, 401	551, 629
Foundry and machine-shop products, not elsewhere classified	22	125	678	000	3, 605	312, 891	650, 300	1, 306, 902	121, 001	3, 474, 484	1, 980, 401
Gas and electric fixtures; lamps, lanterns, and reflectors	3	10	33	40	40	10, 733	41, 546	21, 894	1, 708	74, 100	50, 534
Ice, manufactured	6	11	77	087	3, 225	29, 873	125, 307	21, 022	92, 343	505, 482	392, 117
Jewelry	3	5	20	13	13	9, 298	20, 760	22, 090	908	73, 573	50, 575
Knit goods	30	395	7, 098	2, 232	2, 367	1, 245, 822	8, 140, 723	11, 415, 047	223, 055	27, 095, 110	15, 427, 014
Meat packing, wholesale	4	50	180	185	509	156, 402	263, 884	4, 001, 414	24, 875	5, 762, 508	826, 210
Nonferrous-metal alloys and products, not including aluminum products	8	30	107	278	278	121, 785	271, 804	920, 227	80, 972	1, 505, 807	554, 008
Photo-engraving, not done in printing establishments	3	7	24	50	50	15, 146	63, 400	14, 134	3, 035	125, 533	108, 304
Printing and publishing, book and job	10	38	110	238	238	75, 087	203, 271	169, 464	10, 525	653, 070	473, 081
Printing and publishing, newspaper and periodical	7	181	189	453	453	349, 071	513, 773	396, 853	22, 255	2, 137, 895	1, 718, 787
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	4	16	00	327	327	47, 873	121, 840	158, 124	27, 569	421, 563	235, 880
Other industries	137	1, 555	14, 818	31, 728	40, 706	3, 044, 123	10, 143, 880	30, 353, 149	3, 386, 220	70, 888, 680	37, 149, 311

^f Withheld to avoid disclosing composition of an individual officer or employee; included in item for "Other industries."
 The figures for a few establishments located outside Reading have been included with those for the city, as specified in footnotes 8 and 9, to avoid disclosing the data reported by the establishments in question.
^g Includes data for 2 establishments located outside Reading.
^h Includes data for 1 establishment located outside Reading.

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
SCRANTON											
All industries, total.....	251	1,494	11,677	6,090	21,023	\$3,746,974	\$12,877,804	\$30,610,942	\$1,235,481	\$61,053,837	\$29,207,414
Beverages.....	12	23	71	150	307	40,633	96,880	200,501	24,509	550,488	334,478
Bread and other bakery products.....	38	64	559	-----	960	134,651	591,769	1,780,451	30,965	3,812,702	1,951,286
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	3	8	240	-----	50	25,923	160,661	513,113	4,013	844,241	327,115
Concrete products.....	0	7	13	-----	50	7,913	13,800	30,734	2,975	69,405	35,698
Foundry and machine-shop products, not elsewhere classified.....	11	114	401	225	2,245	366,485	569,425	1,038,075	32,133	2,270,814	1,206,606
Ice cream.....	7	31	126	100	956	106,857	139,456	620,889	37,804	1,388,705	729,922
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	5	23	70	80	823	65,480	123,460	181,395	13,158	476,738	282,185
Printing and publishing, book and job.....	26	75	593	-----	1,030	178,503	816,667	965,502	33,783	2,425,471	1,420,126
Printing and publishing, newspaper and periodical.....	13	349	220	-----	737	642,286	527,126	487,010	33,015	2,859,934	2,330,909
Silk and rayon manufactures.....	30	123	3,864	3,109	5,009	278,929	2,924,725	12,298,176	323,918	13,763,301	6,141,207
Other industries.....	100	677	5,502	2,976	8,205	1,890,314	6,363,926	12,495,936	646,118	27,577,038	14,432,884

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.^b 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.

RHODE ISLAND

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 \$600 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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers	Fuel and purchased energy		
1929	1,701	126,068	463,822	200,731	203,091	\$144,100,934	\$342,200,071	\$328,300,079	\$13,800,002	\$666,368,210	\$324,078,139
1927	1,497	120,000	410,181	210,943	190,238	138,805,884	313,107,075	297,336,023	15,770,452	592,232,647	270,125,572
1925	1,595	120,340	395,754	205,120	187,028	138,125,781	345,221,110	(9)	(9)	621,010,037	270,608,527
1923	1,991	134,007	391,928	227,040	104,888	152,400,850	358,580,772	(9)	(9)	675,425,020	316,844,248
1921	1,759	112,745	(9)	(9)	(9)	119,414,005	277,692,752	(9)	(9)	517,118,172	239,425,420
1919	2,466	139,665	319,888	221,731	97,957	137,405,377	415,980,203	492,205,492	13,783,311	747,322,858	331,333,655
1914	2,190	113,425	266,884	235,312	31,572	50,300,202	162,425,219	156,543,080	5,882,139	270,545,873	117,120,654
1909	1,951	113,538	223,746	210,040	13,697	55,231,098	158,191,574	153,082,708	5,108,776	280,343,707	122,152,223
1904	1,017	97,318	177,875	171,560	5,815	43,112,037	112,872,261	109,131,800	3,737,365	202,100,583	80,237,322
1899	1,678	88,197	149,897	146,928	2,969	35,095,101	87,951,780	(9)	(9)	165,550,382	77,508,002
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929	13.6	5.0	13.1	-4.8	32.0	3.8	0.3	10.4	-11.0	12.5	10.1
1925-1927	-0.1	-0.3	3.6	1.4	0.2	0.0	-9.3			-4.8	0.0
1923-1925	-5.7	-10.6	1.0	-8.3	13.8	-9.4	-3.7			-7.9	-1.7
1921-1923	-3.9	18.4				27.7	20.1			30.6	32.3
1910-1921	-28.7	-19.3				-13.2	-33.2			-30.8	-27.7
1910-1929	-31.0	-0.7	45.1	-9.5	108.6	4.9	-17.7	-18.4	0.8	-10.8	-2.2
1900-1910	26.4	23.0	42.9	5.6	615.2	148.9	163.0	162.7	109.8	100.0	171.2
1890-1900	16.3	28.7	49.3	43.0	361.3	53.4	79.9			69.3	67.4

¹ Not including salaried employees.
² 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.
³ 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.
⁴ Not reported separately.
⁵ Not called for on schedule.
⁶ No comparable data.

TABLE 2.—SUMMARY FOR THE PROVIDENCE-FALL RIVER-NEW BEDFORD INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929

	Population, 1930	Number of establishments	Wage earners (average for the year) ¹	Horsepower ²	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture ³
						Total	Materials and containers	Fuel and purchased energy		
The State	687,407	1,701	126,068	403,822	\$144,100,934	\$342,200,071	\$328,300,079	\$13,800,002	\$666,368,210	\$324,078,139
Providence-Fall River-New Bedford Industrial Area, ⁴ total	904,606	2,289	184,895	738,058	203,018,032	461,574,885	441,018,808	20,550,077	808,400,500	436,834,624
Portion in Rhode Island	540,016	1,495	108,275	379,257	125,040,022	293,594,348	281,708,025	11,886,323	578,723,045	285,129,297
Portion in Massachusetts	364,590	794	76,620	359,701	77,369,310	167,980,537	159,310,783	8,669,754	310,685,804	151,705,327
<i>Counties in Rhode Island</i>										
Bristol	25,089	38	5,741	20,190	5,701,249	14,795,155	14,221,954	573,201	28,466,788	13,011,633
Kent	51,390	76	7,305	45,008	7,310,840	22,344,157	21,511,338	832,819	37,709,160	15,425,003
Newport	41,668	38	1,208	5,093	1,279,220	3,503,559	3,344,341	159,218	5,925,418	2,421,860
Providence ⁵	540,016	1,495	108,275	379,257	125,040,022	293,594,348	281,708,025	11,886,323	578,723,045	285,129,297
Washington	29,334	54	3,539	13,674	4,186,997	8,652,852	7,613,421	439,431	15,543,199	7,400,347
<i>Cities in Rhode Island having 10,000 inhabitants or more⁶</i>										
Bristol	11,953	18	3,274	9,937	3,545,420	9,176,272	8,901,100	275,082	18,768,015	9,591,743
Central Falls	25,898	61	4,623	7,913	5,689,290	12,156,296	11,742,763	413,533	25,056,520	12,900,224
Cranston	42,011	38	3,341	12,307	4,997,431	9,691,928	8,564,407	527,521	20,006,396	11,907,463
East Providence	29,995	14	1,290	5,840	1,731,208	7,735,504	7,502,192	233,312	13,288,213	5,552,709
Newport	27,612	33	754	1,620	950,310	2,761,980	2,644,434	117,546	4,026,447	1,894,407
Pawtucket	77,140	219	20,715	104,803	23,174,516	58,438,284	56,173,468	2,264,816	110,205,560	51,857,285
Providence ⁵	252,981	935	45,322	115,650	59,851,903	109,716,140	105,042,333	4,673,807	241,793,973	132,077,833
Westerly	10,997	22	1,461	6,375	1,892,599	3,337,437	3,087,650	249,787	5,667,335	3,330,398
West Warwick	17,690	21	3,482	27,972	3,139,044	10,689,785	10,376,530	311,255	15,869,131	5,179,399
Woonsocket	49,376	124	13,366	52,340	15,255,720	47,560,580	46,100,209	1,460,371	81,078,667	33,513,087

¹ Not including salaried employees.
² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.
³ The Providence-Fall River-New Bedford industrial area comprises Providence County, R. I., and Bristol County, Mass. For statistics by industries for the area and for Providence County, see Table 13.
⁴ Not including Cumberland, Lincoln, North Providence, and Warwick, 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.
⁵ For statistics by industries for this city, see Table 14.

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 ¹	141,074	91,032	50,042	958	906	52	1,031	1,545	86	12,417	8,232	4,185	126,068	80,349	45,719
1919 ^{1,2}	156,012	101,289	54,723	2,124	2,028	96	1,386	1,333	53	12,837	8,194	4,643	139,665	89,734	49,931
1914 ¹	124,109	83,539	40,570	1,883	1,780	103	947	925	22	7,854	6,705	2,149	113,425	75,129	38,296
1909 ¹	122,641	81,843	40,798	1,721	1,606	115	907	885	22	6,475	4,803	1,672	113,538	74,549	38,980

¹ No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.
² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 90; male, 89; female, 1. Other salaried officers and employees—total, 723; male, 347; female, 376. 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.
³ Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.
⁴ 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 ¹	126,068	125,404	127,450	128,230	128,659	127,218	125,246	123,917	125,168	126,197	129,362	125,831	<i>120,134</i>	92.9
1919 ¹	139,665	131,724	126,902	123,044	133,559	130,650	138,544	142,223	143,452	145,556	147,108	150,175	152,036	83.5
1914 ¹	113,425	116,501	116,597	116,665	116,349	115,961	114,119	111,000	110,936	112,035	112,300	110,056	<i>108,267</i>	92.8
1909 ¹	113,538	108,773	109,615	111,924	111,320	111,952	112,055	111,571	112,835	116,116	118,007	119,104	119,191	91.3

¹ 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.....	1,701	126,068	45 and over but under 48.....	100	6,543
Not reported.....	66	221	48.....	446	42,287
Under 40.....	28	313	Over 48 but under 54.....	466	36,824
40.....	30	794	54.....	192	26,014
Over 40 but under 44.....	23	642	Over 54 but under 60.....	105	7,510
44 and over but under 45.....	203	3,702	60 and over.....	42	1,218

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.....	1,701	2,466	1,951	126,068	139,665	113,538	51 to 100.....	152	155	143	10,804	11,144	10,141
No wage earners.....	30	280	158				101 to 250.....	138	150	121	22,050	24,184	19,638
1 to 5.....	563	1,027	744	1,720	2,296	1,922	251 to 500.....	77	74	74	26,717	25,814	26,828
6 to 20.....	437	407	452	4,815	5,581	5,124	1,001 to 1,000.....	31	32	28	20,049	22,524	18,853
21 to 50.....	253	230	216	8,108	7,561	7,211	2,501 and over.....	2	21	15	31,825	41,061	24,891

¹ Combined to avoid disclosing the numbers of wage earners reported by 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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,701	2,400	1,951	126,068	130,665	113,538	\$666,368,210	\$747,322,858	\$280,343,797	\$324,078,139	\$331,333,055	\$122,152,223
Less than \$5,000.....	(2)	511	477	(2)	350	707	(2)	1,403,077	1,165,084	(2)	915,188	705,432
\$5,000 to \$10,000.....	416	680	579	1,230	2,001	3,244	4,700,842	7,412,005	5,891,800	2,970,876	4,192,031	3,510,241
\$20,000 to \$99,999.....	583	616	459	6,170	7,102	10,742	27,334,818	28,541,424	21,304,255	16,019,984	15,019,602	11,231,441
\$20,000 to \$49,999.....	374	(3)	(3)	2,811	(3)	(3)	12,450,035	(3)	(3)	7,514,232	(3)	(3)
\$50,000 to \$99,999.....	209	(3)	(3)	3,359	(3)	(3)	14,884,283	(3)	(3)	9,105,752	(3)	(3)
\$100,000 to \$499,999.....	432	371	(3)	20,905	19,728	(3)	100,125,884	86,575,480	(3)	53,952,105	42,425,486	(3)
\$100,000 to \$249,999.....	268	(3)	(3)	9,490	(3)	49,719	42,330,118	(3)	(3)	23,797,401	(3)	(3)
\$250,000 to \$499,999.....	164	(3)	367	11,415	(3)	(3)	57,795,766	(3)	116,696,453	30,164,044	(3)	52,043,520
\$500,000 to \$999,999.....	107	105	(3)	15,355	14,487	(3)	77,324,012	74,244,070	(3)	35,904,455	32,514,954	(3)
\$1,000,000 and over.....	163	183	69	32,408	95,951	49,126	456,882,654	549,146,798	135,285,205	214,021,719	236,266,304	54,571,530
\$1,000,000 to \$2,499,999.....	101	(3)	(3)	(3)	(3)	(3)	156,511,903	(3)	(3)	74,444,843	(3)	(3)
\$2,500,000 to \$4,999,999.....	41	(3)	(3)	23,140	(3)	(3)	137,371,563	(3)	(3)	60,237,947	(3)	(3)
\$5,000,000 and over.....	21	(3)	(3)	28,739	(3)	(3)	162,499,088	(3)	(3)	79,936,920	(3)	(3)

¹ 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.
² No data.
³ 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.....	1,701	2,400	126,068	130,665	\$666,368,210	\$747,322,858	\$324,078,139	\$331,333,055
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	943	853	116,190	125,659	619,894,241	681,410,232	300,437,666	300,062,760
Other forms of ownership or control (individual, partnership, etc.).....	758	1,613	9,878	14,006	46,473,969	65,900,626	23,640,474	31,270,905
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	200	(1)	52,088	(1)	286,476,646	(1)	131,396,240	(1)
Independent (single-unit).....	1,501	(1)	73,980	(1)	379,891,564	(1)	192,681,899	(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 PROVIDENCE-FALL RIVER-NEW BEDFORD INDUSTRIAL AREA AND IMPORTANT COUNTIES, 1929

	Aggregate horsepower	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY										ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
		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
1929.....	463,822	200,731	309	85,278	98	83,144	21	6,913	157	25,396	37,313	263,091	15,782	87,133
1927.....	410,181	210,943	401	94,925	111	91,260	33	3,200	158	21,558	27,649	199,238	15,300	104,866
1925.....	395,764	208,126	422	97,688	118	86,880	22	2,195	162	21,393	25,169	187,628	12,602	101,550
1919.....	319,688	221,731	810	147,358	74	41,922	108	3,188	266	29,293	12,281	97,957	7,953	65,956
1914.....	266,884	235,312	1,099	199,170	(3)	(3)	114	2,493	268	33,649	4,829	31,572	5,422	59,652
Providence-Fall River-New Bedford Industrial Area, total.....	738,958	329,959	425	176,728	242	129,060	25	6,963	105	17,208	50,483	408,999	17,168	128,409
Portion in Rhode Island (Providence County).....	370,257	148,004	211	56,020	79	69,609	12	6,508	81	15,267	32,450	231,253	10,353	66,510
Portion in Massachusetts (Bristol County).....	369,701	181,955	214	120,108	163	59,451	13	455	24	1,941	18,033	177,746	6,815	61,899
Counties in Rhode Island in which aggregate horsepower exceeded 25,000: 1929														
Kent.....	45,008	36,038	52	19,302	10	7,016	2	150	54	8,670	1,960	8,970	4,730	12,820
Providence.....	370,257	148,004	211	56,020	79	69,609	12	6,508	81	15,267	32,450	231,253	10,353	66,510

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.

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 ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	453,822	200,731	263,091	87,133	Newport.....	5,693	3,078	2,615	.....
Bristol.....	20,190	3,535	16,655	.....	Providence.....	379,257	148,004	231,253	66,519
Kent.....	45,008	38,038	8,970	12,820	Washington.....	13,674	10,076	3,508	7,794

¹ 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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 pounds).....	891,844	\$4,740,217	887,972	850,193	1,091,114	1,212,471	1,136,018
Anthracite (tons, 2,240 pounds).....	36,628	263,464	(³)	28,384	96,628	139,066	180,164
Bituminous (tons, 2,000 pounds).....	850,821	4,476,753	(³)	827,403	982,891	1,056,045	927,514
Coke (tons, 2,000 pounds).....	31,756	321,013	(⁴)	(⁴)	51,853	17,634	31,320
Fuel oils, including crude oils and gas oils (gallons) ⁵	115,315,020	3,779,428	(⁴)	(⁴)	53,568,496	6,850,080	7,185,864
Gasoline and kerosene (gallons) ⁶	367,899	43,811	(⁴)	(⁴)	799,134	(⁴)	(⁴)
Gas, natural (M cubic feet).....	.....	.....	(⁴)	(⁴)	.....	.....	.....
Gas, manufactured (M cubic feet).....	413,735	330,823	(⁴)	(⁴)	616,995	113,335	115,679
Other fuels.....	.....	76,128	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Electric energy purchased (kilowatt-hours).....	305,310,550	5,372,848	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Total cost of fuel and purchased energy.....	.....	\$14,604,208	Cost \$15,770,452	Cost (\$)	Cost \$13,783,311	Cost \$5,882,139	Cost \$5,108,770

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

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

³ Not tabulated separately.

⁴ No data.

⁵ For years prior to 1920, reported in barrels; converted on basis of 42 gallons per barrel.

⁶ Data incomplete.

⁷ 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.

⁸ 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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	1,701	14,048	126,068	200,731	263,091	\$88,701,802	\$144,106,934	\$328,399,070	\$13,890,992	\$600,368,210	\$324,078,139
Beverages.....	38	55	154	100	469	133,027	189,105	436,518	24,430	1,102,797	641,849
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	5	96	818	.....	2,527	241,737	981,310	1,137,536	97,926	3,521,107	2,285,046
Boot and shoe findings, not made in boot and shoe factories.....	8	22	92	.....	61	55,728	81,346	377,052	2,781	800,269	420,436
Boxes, paper, not elsewhere classified.....	12	81	563	155	284	221,619	486,337	577,212	15,889	1,700,505	1,107,404
Boxes, wooden, except cigar boxes.....	7	20	141	280	660	69,323	105,896	553,502	12,994	953,952	367,196
Bread and other bakery products.....	155	250	1,740	.....	2,476	456,312	2,268,416	5,726,902	306,054	12,111,570	6,078,614
Brooms.....	3	1	8	.....	9	(³)	6,140	13,180	198	22,600	6,222
Brushes, other than rubber.....	6	11	56	5	42	34,958	49,801	57,638	1,046	209,413	140,529
Chemicals, not elsewhere classified.....	7	57	319	378	2,507	181,997	411,314	1,080,150	115,457	2,506,125	1,329,518
Cigars and cigarettes.....	7	12	107	.....	23	20,148	55,551	120,712	2,264	283,982	171,008
Concrete products.....	13	18	68	10	207	33,541	77,194	62,614	2,488	232,051	166,949
Confectionery.....	9	20	155	.....	90	22,730	118,399	237,893	8,993	497,807	250,921
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	18	44	218	.....	237	126,569	345,284	444,564	10,630	1,106,178	650,975
Cordage and twine.....	5	15	123	280	241	39,428	124,744	277,676	10,240	562,168	274,252
Cotton goods.....	55	997	21,833	66,904	67,290	3,275,890	21,778,173	41,692,204	2,413,859	86,203,795	41,797,732
Cotton small wares.....	49	316	4,781	5,015	4,060	1,026,693	4,841,003	9,693,570	307,917	19,332,244	9,330,757
Druggists' preparations.....	3	6	13	.....	13	14,995	17,594	35,566	1,020	94,467	59,881
Dyeing and finishing textiles.....	62	1,591	9,242	26,478	14,614	5,032,865	11,306,280	20,666,326	2,150,066	51,894,741	28,677,849
Electrical machinery, apparatus, and supplies.....	12	374	2,118	7,170	10,511	854,448	2,282,727	9,815,409	211,269	18,208,435	8,181,757
Electroplating.....	18	31	139	.....	306	83,840	145,021	91,697	10,567	486,039	388,775
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	8	4	37	.....	13	6,490	63,032	9,938	289	115,480	105,253
Engraving, steel and copperplate, and plate printing.....	7	13	152	.....	72	49,423	229,564	17,004	3,043	375,106	355,069
Fancy and miscellaneous articles, not elsewhere classified.....	31	135	1,366	.....	380	362,025	1,078,902	1,211,217	28,034	3,611,136	2,371,935

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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
Flavoring extracts and flavoring sirups.....	6	5	8	-----	30	\$5,820	\$8,202	\$96,438	\$1,570	\$213,077	\$115,063
Flour and other grain-mill products.....	8	15	30	-----	119	15,708	24,271	593,432	5,046	639,282	70,204
Foundry and machine-shop products, not elsewhere classified.....	45	444	2,330	-----	160	1,046,320	3,371,278	5,478,872	817,364	13,453,257	7,657,021
Furniture, including store and office fixtures.....	13	37	175	-----	30	95,535	223,072	584,688	7,309	1,052,755	460,768
Gas, manufactured, illuminating and heating.....	4	406	769	-----	4,371	2,153	1,223,132	1,380,258	1,599,021	8,127,072	5,147,793
Glass products (except mirrors) made from purchased glass.....	4	3	18	-----	-----	10,818	24,572	21,511	1,785	72,598	40,302
Gold, silver, and platinum, reducing and refining, not from the ore.....	12	31	44	-----	170	90,117	85,352	2,156,019	13,895	2,761,414	581,500
Hand stamps and stencils and brands.....	3	9	20	-----	14	32,287	22,057	13,103	832	107,350	93,415
Hardware not elsewhere classified.....	7	23	75	-----	06	67,147	70,512	182,346	5,090	429,838	242,432
Hats and caps, except felt and straw, men's.....	3	3	14	-----	4	5,780	10,140	34,984	584	70,436	34,868
House-furnishing goods, not elsewhere classified.....	6	16	63	-----	31	31,040	45,140	170,084	1,760	276,885	105,035
Ice cream.....	32	43	154	-----	1,600	102,558	210,903	1,113,002	54,600	2,430,281	1,321,070
Ice, manufactured.....	7	11	63	-----	180	19,586	94,754	10,081	70,585	552,321	402,655
Instruments, professional and scientific.....	4	37	157	-----	169	100,720	216,904	113,743	7,892	604,500	482,865
Ivory, shell, and bone work, not including buttons, combs, or hairpins.....	3	2	21	-----	15	(4)	22,263	30,809	776	78,445	40,860
Jewelry.....	238	1,420	10,273	-----	240	14,862	3,915,733	17,860,751	302,073	41,692,203	23,529,379
Jewelry and instrument cases.....	6	16	99	-----	60	48,982	76,559	101,636	2,753	306,353	201,064
Knit goods.....	19	97	1,351	-----	225	357,071	1,228,848	4,537,548	63,734	7,039,021	2,432,744
Labels and tags.....	4	44	177	-----	390	185,786	158,302	287,080	7,096	902,907	608,131
Lace goods.....	11	86	1,005	-----	355	1,101	279,078	1,489,074	65,447	4,261,995	2,707,474
Lumber and timber products, not elsewhere classified.....	9	-----	00	-----	590	-----	-----	60,101	68,007	161,374	102,697
Macaroni, spaghetti, vermicelli, and noodles.....	12	10	43	-----	215	19,413	45,390	262,806	14,005	413,127	140,316
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	10	95	508	-----	-----	2,089	221,731	957,305	305,215	2,307,025	1,020,955
Marble, granite, slate, and other stone products.....	12	42	268	-----	200	1,809	125,777	501,609	373,070	41,479	1,275,910
Mattresses and bed springs, not elsewhere classified.....	6	15	72	-----	290	41,302	33,719	286,440	7,521	498,139	204,178
Meat packing, wholesale.....	7	33	102	-----	411	85,575	203,521	3,430,100	23,560	4,192,326	738,666
Models and patterns, not including paper patterns.....	7	8	48	-----	63	18,641	69,536	17,097	2,886	150,894	130,911
Motor-vehicle bodies and motor-vehicle parts.....	4	15	71	-----	45	215	26,510	95,278	4,986	245,807	145,570
Optical goods.....	6	41	437	-----	212	132,712	407,225	594,980	5,941	1,584,034	980,963
Paper goods, not elsewhere classified.....	11	61	306	-----	75	1,064	260,539	425,084	1,003,200	2,495,639	1,432,094
Patent or proprietary medicines and compounds.....	6	17	24	-----	20	25,578	19,692	85,323	569	272,512	166,620
Pencils, lead (including mechanical).....	8	51	510	-----	135	123,180	307,736	338,953	8,186	906,053	648,914
Perfumes, cosmetics, and other toilet preparations.....	4	10	9	-----	1	23,223	6,920	32,126	477	89,815	57,213
Photo-engraving, not done in printing establishments.....	4	11	61	-----	77	25,511	116,927	20,868	4,155	258,592	227,569
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	19	88	308	-----	870	1,865	253,814	439,865	890,544	1,961,078	1,041,018
Printing and publishing, book and job.....	78	228	772	-----	936	590,502	1,105,242	1,287,092	35,931	4,110,125	2,703,102
Printing and publishing, newspaper and periodical.....	31	599	734	-----	600	1,021	1,337,061	1,478,081	1,531,746	7,465,921	5,872,050
Rubber goods other than tires, inner tubes, and boots and shoes.....	7	400	1,822	-----	100	10,593	803,528	2,044,604	3,543,304	292,799	10,759,530
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	12	20	57	-----	20	253	42,656	79,504	1,159,761	11,778	1,510,093
Ship and boat building, steel and wooden, including repair work.....	9	97	577	-----	577	693	180,471	881,618	2,510,061	29,774	3,780,976
Signs and advertising novelties.....	7	6	38	-----	14	8,722	61,000	67,830	422	171,596	113,344
Silk and rayon manufactures.....	43	376	7,589	-----	6,400	8,139	1,261,408	8,555,192	20,389,894	372,344	14,876,183
Soap.....	7	22	37	-----	100	145	91,223	55,980	12,954	1,033,839	324,640
Sporting and athletic goods, not including firearms or ammunition.....	4	62	344	-----	486	196,205	415,798	561,333	27,649	1,470,960	890,978
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	20	36	270	-----	40	459	145,180	278,958	243,410	12,895	881,033
Steam fittings and steam and hot-water heating apparatus.....	4	37	163	-----	296	118,811	201,851	625,101	12,271	1,475,082	837,710
Stoves and ranges (other than electric) and warm-air furnaces.....	4	21	102	-----	248	72,691	140,678	457,968	4,957	1,070,101	607,176
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	12	41	84	-----	207	169,828	104,345	790,138	12,999	1,350,081	556,844
Textile machinery and parts.....	43	651	3,711	-----	1,447	6,153	1,012,237	4,785,953	239,023	18,009,713	13,370,356
Tools, not including edged tools, machine tools, files, or saws.....	16	11	108	-----	130	26,960	141,942	60,829	5,080	355,865	289,956
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	7	6	53	-----	34	11,540	46,766	65,682	1,013	181,531	114,830
Wirework, not elsewhere classified.....	5	12	49	-----	42	18,970	49,386	82,930	4,710	207,709	120,069
Wood turned and shaped and other wooden goods, not elsewhere classified.....	8	40	310	-----	350	74,543	330,114	303,490	16,512	837,351	517,369
Woolen goods.....	21	192	2,919	-----	5,331	2,253	628,776	3,459,854	10,021,834	16,780,514	6,487,102
Wool shoddy.....	5	11	26	-----	222	29,922	42,033	181,028	13,973	270,437	74,830
Worsted goods.....	72	1,016	21,216	-----	43,479	26,577	3,509,141	22,949,332	89,539,055	2,082,061	46,677,061
Other industries.....	189	2,747	20,920	-----	27,475	52,654	6,938,984	27,370,532	51,151,096	113,271,128	60,282,611

¹ 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.

² 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.

³ Not including data for 813 employees of central administrative offices, with salaries aggregating \$2,314,918. See GENERAL EXPLANATIONS—Persons Engaged.

⁴ 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 PROVIDENCE-FALL RIVER-NEW BEDFORD INDUSTRIAL AREA AND FOR PROVIDENCE COUNTY, BY INDUSTRIES: 1929

[This table presents, for the Providence-Fall River-New Bedford Industrial Area (see GENERAL EXPLANATIONS—Industrial Area) and for Providence 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 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PROVIDENCE-FALL RIVER-NEW BEDFORD INDUSTRIAL AREA											
[This area comprises Providence County, Rhode Island, and Bristol County, Massachusetts]											
All industries, total.....	2,239	18,183	184,895	329,959	408,999	\$40,587,454	\$203,018,932	\$441,018,808	\$20,556,077	\$898,409,509	\$436,834,024
Belting, leather.....	8	24	111	132	46	34,751	120,391	344,320	4,984	620,194	270,881
Beverages.....	50	70	225	175	628	214,690	278,107	798,593	30,922	1,941,279	1,141,764
Bookbinding and blank-book making.....	5	10	23	15	16	28,336	20,773	692	64,739	43,274	43,274
Books and shoes, other than rubber.....	254	273	2,256	150	48	19,908	94,567	206,052	3,568	442,037	232,417
Bread and other bakery products.....	7	57	319	15	3,081	493,422	2,898,277	7,520,322	387,550	15,519,738	7,611,866
Chemicals, not elsewhere classified.....	4	19	147	378	2,507	161,997	411,314	1,060,150	116,467	2,505,125	1,329,518
Clay products (other than pottery) and non-clay refractories.....	4	10	7	130	291	54,427	176,967	49,788	50,140	473,884	374,000
Cleaning and polishing preparations.....	4	2	47	1	1	7,884	20,282	320	320	46,907	26,305
Clothing, women's, not elsewhere classified.....	12	52	503	130	130	182,673	408,426	1,274,592	9,880	2,287,029	1,002,557
Confectionery.....	9	20	155	90	90	118,399	237,893	237,893	8,993	407,807	260,921
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	23	49	240	200	200	128,769	369,730	453,552	11,132	1,141,159	670,475
Cotton goods.....	112	2,236	63,701	169,523	175,440	7,124,120	60,430,712	107,417,436	6,516,858	217,715,771	103,781,477
Cotton small wares.....	51	269	3,779	4,290	4,779	884,402	3,023,872	7,187,702	276,923	14,751,092	7,280,407
Druggists' preparations.....	3	6	18	13	13	14,995	17,594	33,506	1,020	94,467	59,881
Dyeing and finishing textiles.....	57	1,782	11,489	42,159	14,907	5,202,821	13,674,301	33,536,704	2,650,981	69,491,304	33,297,419
Electrical machinery, apparatus, and supplies.....	17	307	2,111	6,570	8,659	812,727	2,134,827	7,106,782	174,967	14,859,789	7,578,050
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	20	15	215	119	25,713	350,685	50,797	7,090	676,605	612,718	612,718
Fancy and miscellaneous articles, not elsewhere classified.....	40	210	1,608	100	645	555,451	1,383,075	1,383,043	39,756	4,620,801	3,190,002
Flavoring extracts and flavoring syrups.....	5	5	8	39	39	5,820	8,262	96,438	1,676	213,077	115,063
Flour and other grain-mill products.....	6	15	34	65	465	13,757	19,591	473,000	4,480	540,826	62,446
Foundry and machine-shop products, not elsewhere classified.....	66	459	2,477	156	9,400	1,037,384	3,632,674	5,849,962	320,126	13,935,361	7,795,273
Furniture, including store and office fixtures.....	14	37	176	30	200	95,535	225,762	580,688	7,609	1,000,755	406,458
Glass products (except mirrors) made from purchased glass.....	4	3	18	13	13	10,818	24,572	21,511	1,785	72,598	49,902
Hand stamps and stencils and brands.....	3	9	20	14	14	32,287	22,057	13,103	632	107,350	93,415
House-furnishing goods, not elsewhere classified.....	14	81	415	195	195	183,816	268,157	2,845,647	9,761	3,840,203	984,705
Ice cream.....	37	57	200	2,099	2,099	122,095	288,152	1,375,184	67,806	3,058,079	1,616,989
Ice, manufactured.....	10	13	85	480	3,324	22,282	141,795	21,903	114,292	772,007	636,812
Ivory, shell, and bone work, not including buttons, combs, or hairpins.....	3	2	21	15	15	(1)	22,263	30,809	776	78,445	46,860
Jewelry.....	332	2,060	14,882	745	18,479	5,091,778	16,359,076	29,135,769	472,262	66,095,394	36,487,363
Labels and tags.....	4	44	177	390	168	185,786	158,362	287,680	7,096	902,907	608,131
Lace goods.....	5	53	683	745	745	195,792	674,576	840,523	34,695	2,636,921	1,755,703
Lumber and timber products, not elsewhere classified.....	11	12	126	741	824	28,119	127,297	186,778	10,318	465,451	268,355
Macaroni, spaghetti, vermicelli, and noodles.....	9	8	37	147	147	14,913	38,790	107,528	10,447	325,551	117,576
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	17	319	1,798	950	5,984	643,229	2,390,435	1,137,922	102,905	6,806,571	5,565,744
Marble, granite, slate, and other stone products.....	11	30	127	70	803	88,847	214,621	254,500	17,064	742,994	470,830
Models and patterns, not including paper patterns.....	7	8	48	63	63	18,041	60,536	17,097	2,886	150,894	130,911
Paints and varnishes.....	11	111	176	1,012	1,012	330,570	249,680	2,083,160	35,964	3,813,774	1,694,641
Pencils, lead (including mechanical).....	8	51	510	135	135	123,180	307,736	338,933	8,186	996,053	648,914
Photo engraving, not done in printing establishments.....	4	11	61	77	77	25,511	116,927	26,868	4,155	258,592	227,569
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	30	119	605	1,765	2,477	320,534	715,072	1,369,112	44,305	3,009,480	1,590,063
Plated ware.....	14	103	1,047	850	722	335,596	1,167,460	641,050	65,937	3,355,698	2,048,711
Printing and publishing, book and job.....	100	256	918	1,170	1,170	643,351	1,292,467	1,444,871	44,267	4,740,736	3,260,608
Printing and publishing, newspaper and periodical.....	33	804	925	600	1,072	1,835,894	1,773,079	1,922,985	85,442	9,480,760	7,472,323
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	23	27	121	20	496	74,098	162,355	1,700,996	21,716	2,340,563	557,851
Screw-machine products and wood screws.....	9	170	1,042	1,930	2,314	468,776	1,305,944	1,581,174	110,800	4,796,302	3,104,323
Ship and boat building, steel and wooden, including repair work.....	7	16	143	107	629	30,286	201,745	172,368	4,202	497,475	320,905
Signs and advertising novelties.....	7	6	35	14	14	8,722	51,000	57,830	422	171,590	113,244
Silk and rayon manufactures.....	55	476	9,328	6,775	14,405	1,501,686	10,316,305	27,609,457	608,765	48,689,504	20,571,282
Silversmithing and silverware.....	14	554	2,612	1,776	1,622	1,201,970	3,660,830	4,352,287	123,850	14,559,758	10,083,615
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	24	51	388	10	836	174,532	436,360	339,202	38,783	1,315,045	937,660
Stoves and ranges (other than electric) and warm-air furnaces.....	10	149	1,207	75	2,761	453,740	1,706,591	1,750,718	128,942	5,651,485	3,762,825
Surgical and orthopedic appliances, including artificial limbs.....	5	20	164	755	100	35,383	115,171	505,501	8,780	884,201	369,860
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	12	35	108	182	266	111,455	168,274	1,627,396	28,445	2,079,994	424,153
Textile machinery and parts.....	79	808	4,821	1,542	10,260	2,132,884	6,136,398	5,523,489	388,061	21,929,032	16,067,482
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	10	16	127	84	84	33,994	102,395	110,952	2,990	321,802	207,860

See footnotes at end of this section, p. 479.

TABLE 13.—GENERAL STATISTICS FOR THE PROVIDENCE-FALL RIVER-NEW BEDFORD INDUSTRIAL AREA AND FOR PROVIDENCE COUNTY, 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
Waste.....	7	33	247	370	842	\$124,100	\$214,799	\$2,350,097	\$35,552	\$2,883,730	\$498,081
Wirework, not elsewhere classified.....	5	12	48	42	42	18,070	40,386	82,030	4,710	207,709	120,099
Woolen goods.....	14	150	2,237	4,001	1,632	525,803	2,730,406	8,772,838	207,364	14,366,119	5,405,917
Wool shoddy.....	5	11	26	22	22	29,022	42,083	181,028	13,973	270,437	74,830
Worsted goods.....	65	903	19,244	40,200	22,716	3,148,237	20,825,801	81,219,597	1,877,567	124,419,174	41,322,023
Other industries ¹	498	4,664	30,574	41,562	37,705	11,574,761	37,983,135	83,124,972	5,268,374	177,725,050	89,331,740

PROVIDENCE-FALL RIVER-NEW BEDFORD INDUSTRIAL AREA—Continued

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.
^b 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.

¹ Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."
² The figures for each of the two industries covered by this footnote include data for 1 establishment located outside the Providence-Fall River-New Bedford Industrial Area, to avoid disclosing the figures reported by an individual establishment. 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.

PROVIDENCE COUNTY

All industries, total.....	1,495	12,550	108,275	148,004	231,253	\$34,518,291	\$125,640,622	\$281,708,025	\$11,830,323	\$578,723,645	\$285,120,207
Beverages.....	30	42	126	50	390	99,754	161,228	340,764	18,426	895,530	527,349
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	5	96	818	2,527	61	241,737	981,319	1,137,535	97,920	3,521,107	2,285,046
Boot and shoe findings, not made in boot and shoe factories.....	8	22	92	156	284	55,728	81,346	377,052	2,781	800,260	420,436
Boxes, paper, not elsewhere classified.....	12	81	563	280	696	221,619	455,337	577,212	15,830	1,700,505	1,107,404
Boxes, wooden, except cigar boxes.....	7	20	141	280	696	69,323	165,896	553,802	12,994	933,092	367,196
Bread and other bakery products.....	131	245	1,657	2,402	445,355	(4)	2,152,672	5,441,400	282,752	11,553,474	5,829,253
Brooms.....	3	1	8	6	42	5,140	13,180	108	1,040	22,000	9,222
Brushes, other than rubber.....	6	11	66	378	2,507	34,058	49,801	67,638	2,500,413	149,820	1,329,520
Chemicals, not elsewhere classified.....	7	57	319	378	101,097	101,097	411,314	1,060,150	115,457	2,005,125	1,329,520
Confectionery.....	9	20	155	2,507	22,730	22,730	118,399	237,893	8,093	497,807	250,021
Cotton goods.....	40	811	15,953	35,481	54,034	2,727,799	16,708,046	31,295,797	1,703,615	67,421,727	34,452,315
Cotton small wares.....	42	249	3,406	4,115	4,170	807,175	3,382,646	6,248,502	247,824	13,241,736	6,745,810
Druggists' preparations.....	3	6	18	4	14	14,005	17,594	33,566	1,020	94,467	50,581
Dyeing and finishing textiles.....	45	1,246	6,803	17,168	13,576	3,710,121	8,627,650	12,238,328	1,716,621	35,022,253	21,067,304
Electroplating.....	18	31	139	306	306	83,840	145,021	91,697	10,567	486,039	383,775
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking.....	8	4	37	13	13	6,490	63,032	0,938	280	115,480	105,253
Engraving, steel and copperplate, and plate printing.....	7	13	152	72	40,428	229,594	17,004	3,043	3,043	375,106	355,059
Fancy and miscellaneous articles, not elsewhere classified.....	31	135	1,356	380	362,025	1,070,902	1,211,217	28,034	3,611,186	2,371,935	1,107,404
Flavoring extracts and flavoring sirups.....	5	5	8	39	39	5,820	8,202	96,438	1,570	213,077	115,063
Foundry and machine-shop products, not elsewhere classified.....	37	375	1,941	150	7,763	815,662	2,842,889	4,833,651	267,707	11,180,388	6,088,940
Furniture, including store and office fixtures ^a	13	37	175	30	150	95,535	223,072	584,688	7,300	1,052,755	490,758
Glass products (except mirrors) made from purchased glass.....	4	3	18	13	13	10,818	24,572	21,511	1,785	72,598	49,302
Gold, silver, and platinum, reducing and refining, not from the ore.....	12	31	44	176	176	90,117	85,352	2,156,010	13,895	2,751,414	581,500
Hand stamps and stencils and brands.....	3	9	20	14	14	32,227	22,057	13,103	832	107,350	93,415
Hardware not elsewhere classified.....	7	28	75	66	66	67,147	70,512	182,346	5,000	429,838	242,432
Hats and caps, except felt and straw, men's.....	3	3	14	4	4	5,780	10,140	34,984	584	70,436	34,868
Ice cream.....	26	42	128	1,553	1,553	100,478	181,988	970,106	46,592	2,181,566	1,164,808
Ivory, shell, and bone work, not including buttons, combs, or hairpins.....	3	2	21	15	15	(4)	22,263	30,809	770	78,445	46,860
Jewelry ^a	238	1,420	10,273	240	14,830	3,915,733	10,482,300	17,860,751	302,073	41,692,203	23,529,379
Jewelry and instrument cases.....	6	16	99	80	80	48,982	76,569	101,636	2,753	306,353	201,964
Knit goods.....	19	97	1,351	225	944	357,071	1,228,848	4,537,543	68,734	7,039,021	2,432,744
Labels and tags.....	4	44	177	300	168	185,786	153,362	287,680	7,096	902,907	608,131
Lace goods.....	5	53	583	745	745	195,702	674,576	846,523	34,695	2,636,921	1,755,703
Macaroni, spaghetti, vermicelli, and noodles.....	9	8	37	147	147	14,913	38,790	197,528	10,447	325,551	117,676
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	10	95	508	50	2,989	221,731	957,305	395,215	44,855	2,367,025	1,020,955
Marble, granite, slate, and other stone products.....	6	23	105	50	542	68,310	179,301	230,662	11,563	627,376	376,651
Mattresses and bed springs, not elsewhere classified.....	6	15	72	296	296	41,362	86,719	286,440	7,521	498,130	204,178
Meat packing, wholesale.....	7	33	162	411	411	85,675	203,521	3,430,100	23,500	4,192,326	738,666
Models and patterns, not including paper patterns.....	7	8	48	63	63	18,641	69,536	17,067	2,886	150,894	130,911
Motor-vehicle bodies and motor-vehicle parts.....	4	15	71	45	215	26,510	95,278	94,986	5,341	245,897	145,570
Optical goods.....	6	41	437	75	92	132,712	407,226	594,080	8,091	1,584,034	980,963
Paper goods, not elsewhere classified.....	11	61	396	1,664	1,664	260,639	425,084	1,003,200	60,345	2,495,639	1,432,094
Pencils, lead (including mechanical).....	8	51	510	135	135	123,180	307,736	338,653	8,186	996,053	648,914
Photo-engraving, not done in printing establishments.....	4	11	61	77	77	25,511	116,927	26,868	4,155	258,592	227,569
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	15	83	292	840	1,001	247,354	411,744	703,844	25,554	1,719,472	900,074
Printing and publishing, book and job.....	68	2	743	894	894	582,182	1,069,088	1,252,211	33,875	4,093,666	2,717,580
Printing and publishing, newspaper and periodical.....	19	637	619	600	815	1,234,167	1,300,143	1,457,853	50,334	6,912,248	5,404,061

See footnotes at end of this section, p. 480.

CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS FOR THE PROVIDENCE-FALL RIVER-NEW BEDFORD INDUSTRIAL AREA AND FOR PROVIDENCE COUNTY, BY INDUSTRIES: 1929—Continued

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
PROVIDENCE COUNTY—Continued											
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	9	17	51	20	231	\$39,875	\$71,623	\$1,091,819	\$11,168	\$1,410,284	\$310,297
Signs and advertising novelties	7	6	38		14	8,722	51,000	57,830	422	171,596	113,844
Silk and rayon manufactures	37	346	7,094	5,500	7,753	1,183,679	8,150,760	10,473,692	353,798	33,810,880	13,683,390
Soap	7	22	37	100	145	91,228	58,980	690,245	12,954	1,033,839	324,040
Sporting and athletic goods, not including firearms or ammunition	4	62	344		486	196,205	415,798	561,333	27,649	1,479,900	890,978
Steam fittings and steam and hot-water heating apparatus	4	37	163		296	118,811	201,851	625,101	12,271	1,475,082	837,710
Stoves and ranges (other than electric) and warm-air furnaces	4	21	102		248	72,691	140,678	457,968	4,957	1,070,101	607,176
Tools, not including edge tools, machine tools, files, or saws	16	11	103		130	20,060	141,042	60,820	5,080	355,865	280,056
Toys (not including children's wheel goods or sleds), games, and playground equipment	7	6	53		34	11,540	46,766	65,682	1,013	181,531	114,836
Wirework, not elsewhere classified	5	12	49		42	18,970	49,386	82,930	4,710	207,709	120,069
Wool shoddy	5	11	26		222	29,922	42,083	131,628	13,973	270,437	74,836
Other industries ^{c, d}	414	5,541	49,214	82,117	104,257	14,594,358	59,031,692	154,804,490	9,061,683	297,140,012	136,100,730

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

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

^d The figures for each of the two industries covered by this footnote include data for 1 establishment located outside Providence County, to avoid disclosing the figures reported by an individual establishment. 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.

^e The figures for this item include data for the "Worsted goods" 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 an approximation of the data for individual establishments.

TABLE 14.—GENERAL STATISTICS FOR PROVIDENCE, 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 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. 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]

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	985	6,780	48,322	40,033	75,017	\$18,224,034	\$56,851,006	\$105,042,333	\$4,673,807	\$241,703,973	\$132,077,833
Beverages.....	14	19	40	-----	137	36,551	44,983	140,972	6,795	372,893	225,096
Boot and shoe findings, not made in boot and shoe factories.....	8	22	92	-----	61	55,728	81,346	377,052	2,781	800,269	420,436
Boxes, paper, not elsewhere classified.....	8	69	470	155	248	179,065	427,756	454,735	13,325	1,370,667	902,006
Bread and other bakery products.....	69	104	825	-----	1,344	293,438	1,182,342	2,865,824	148,908	6,385,822	3,371,090
Confectionery.....	6	16	155	-----	79	15,070	107,095	209,103	7,997	436,820	219,720
Druggists' preparations.....	3	6	18	-----	13	14,995	17,594	33,566	1,020	94,467	59,881
Dyeing and finishing textiles.....	7	312	1,435	4,655	2,008	818,064	1,699,202	4,150,552	342,738	9,636,016	5,143,326
Electroplating.....	18	31	139	-----	308	83,840	145,021	91,897	10,567	486,089	383,775
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-striking.....	8	4	37	-----	13	6,490	63,032	9,938	289	115,480	105,253
Engraving, steel and copperplate, and plate printing.....	7	13	152	-----	72	49,428	229,504	17,004	3,043	375,106	355,059
Fancy and miscellaneous articles, not elsewhere classified ¹	31	135	1,356	-----	380	362,025	1,079,902	1,211,217	28,034	3,611,186	2,371,935
Flavoring extracts and flavoring sirups.....	5	5	8	-----	39	5,820	8,262	96,438	1,576	218,077	115,063
Foundry and machine-shop products, not elsewhere classified.....	24	203	810	150	2,667	423,266	1,208,222	1,089,352	90,706	3,524,159	2,344,101
Furniture, including store and office fixtures ¹	13	37	175	30	150	95,535	223,072	534,638	7,309	1,052,755	460,758
Gold, silver, and platinum, reducing and refining, not from the ore.....	12	31	44	-----	176	90,117	85,352	2,156,019	13,895	2,751,414	581,500
Hand stamps and stencils and brands.....	3	9	20	-----	14	32,287	22,057	13,103	832	107,350	93,415
Hats and caps, except felt and straw, men's.....	3	3	14	-----	4	5,780	10,140	34,984	584	70,430	34,808
Ice cream.....	19	35	94	-----	1,223	85,729	133,589	779,889	36,100	1,709,880	893,897
Ivory, shell, and bone work, not including buttons, combs, or hairpins.....	3	2	21	-----	15	(2)	22,263	30,809	776	78,445	46,860
Jewelry.....	227	1,300	9,873	240	13,458	3,799,738	10,015,344	16,710,100	265,482	39,508,783	22,527,141
Jewelry and instrument cases.....	6	16	99	-----	60	48,982	76,559	101,080	2,753	309,353	201,964
Knit goods.....	5	25	418	60	189	102,188	332,155	845,540	27,244	1,725,099	852,315
Macaroni, spaghetti, vermicelli, and noodles.....	9	8	37	-----	147	14,913	38,790	197,528	10,447	325,551	117,576
Marble, granite, slate, and other stone products.....	6	23	105	50	542	68,310	179,301	239,602	11,563	627,876	376,651
Models and patterns, not including paper patterns.....	4	7	39	-----	42	14,361	57,931	15,436	2,242	120,339	102,661
Optical goods.....	6	41	437	-----	92	132,712	407,226	594,980	8,091	1,584,034	980,963
Pencils, lead (including mechanical) ¹	8	61	510	-----	135	123,180	307,736	338,953	8,186	990,053	648,914
Photo-engraving, not done in printing establishments.....	4	11	61	-----	77	25,511	116,927	20,808	4,155	258,562	227,569
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	5	35	137	430	220	123,637	186,026	332,470	8,033	767,210	426,707
Printing and publishing, book and job.....	57	207	698	-----	815	559,363	1,006,955	1,160,593	29,105	3,755,965	2,567,297
Soap.....	4	14	18	75	55	54,833	31,352	259,401	5,984	465,904	201,329
Textile machinery and parts.....	13	137	703	10	1,560	460,230	997,031	1,166,010	53,321	4,144,154	2,924,223
Other industries.....	323	3,784	29,328	34,178	49,314	10,137,835	36,278,406	68,717,286	3,522,233	154,076,458	81,836,939

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹ The items for each of the three 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.

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

SOUTH CAROLINA

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers	Fuel and purchased energy		
1929	1,659	108,777	527,326	234,018	293,308	\$73,223,327	\$226,541,603	\$214,617,334	\$11,924,269	\$385,802,252	\$169,360,649
1927	1,059	108,992	478,245	227,615	250,630	74,477,866	209,772,463	194,032,510	12,739,934	358,334,205	151,561,752
1925	1,134	100,144	423,359	232,425	190,934	67,061,783	237,227,046	(⁵)	(⁵)	370,283,045	133,055,999
1923	1,180	96,802	407,735	231,751	175,984	64,763,457	221,240,204	(⁵)	(⁵)	300,445,730	139,205,535
1921	1,107	76,251	(⁵)	(⁵)	(⁵)	51,409,995	141,901,655	(⁵)	(⁵)	236,420,578	94,513,923
1919	2,004	79,450	395,466	257,905	137,551	62,565,413	227,930,384	220,416,014	7,569,770	381,452,084	153,466,600
1914	1,885	71,824	335,710	251,956	83,754	24,173,101	91,008,996	86,871,280	4,137,716	138,801,202	47,882,206
1900	1,854	73,046	270,343	235,213	41,130	20,360,750	66,350,874	63,244,550	3,106,324	113,235,045	46,885,071
1904	1,399	59,441	197,399	188,948	8,451	13,868,050	49,968,626	47,677,083	2,291,543	70,376,262	29,407,636
1899	1,369	47,025	109,377	100,192	185	6,130,269	30,485,861	(⁵)	(⁵)	53,335,811	22,846,050
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	56.7	-0.2	10.3	2.8	17.0	-1.7	9.6	10.6	-6.4	7.7	5.1
1925-1927	-6.6	8.8	13.0	-2.1	31.3	11.1	-12.8			-3.2	13.9
1923-1925	-3.9	3.5	3.8	0.3	8.5	3.6	7.2			2.7	-4.4
1921-1923	6.6	27.0				26.0	55.9			52.5	47.3
1919-1921	-44.8	-4.0				-17.8	-37.8			-33.0	-38.4
1919-1929	-17.2	36.0	33.3	-9.3	113.2	17.0	-0.6	-2.6	57.5	1.2	3.8
1909-1919	8.1	8.8	43.1	9.6	234.5	207.3	243.6	248.5	143.7	236.9	227.3
1899-1909	35.4	55.3	152.7	115.4	22,132.4	123.0	117.6			112.3	105.2

¹ Not including salaried employees.
² 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.
³ 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.
⁴ Not reported separately.
⁵ Not called for on schedule.
⁶ No comparable data.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (average for the year) ¹	Horse- power ²	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		
The State.....	1,738,765	1,659	108,777	527,326	\$73,223,327	\$226,541,603	\$214,617,334	\$11,924,269	\$385,892,252	\$150,350,649
<i>Counties ³</i>										
Abbeville.....	23,323	13	1,076	4,693	657,680	2,091,747	2,016,658	75,089	3,709,636	1,677,889
Aiken.....	47,403	26	2,996	10,131	2,173,513	5,598,557	5,184,080	408,577	9,486,974	3,893,417
Allendale.....	13,294	13	369	772	200,345	907,692	301,481	6,181	750,192	442,530
Anderson.....	80,949	55	8,276	46,932	5,344,867	17,706,088	16,697,396	1,008,692	30,310,090	12,604,002
Bamberg.....	19,410	22	368	1,607	242,482	593,007	564,543	29,304	1,185,402	591,495
Barnwell.....	21,221	19	262	1,264	149,187	318,544	315,335	3,200	667,772	349,228
Beaufort.....	21,815	14	591	893	176,103	370,508	341,349	29,159	802,662	432,154
Berkeley.....	22,236	18	720	2,076	487,923	419,234	417,110	2,124	1,467,542	1,048,308
Calhoun.....	16,707	28	170	807	84,858	223,383	220,259	3,124	408,565	185,182
Charleston.....	101,050	89	5,270	28,752	4,337,526	23,443,083	22,894,384	549,299	32,574,467	9,136,784
Cherokee.....	32,201	25	3,557	15,863	2,028,766	6,351,430	5,041,172	410,258	10,075,808	3,724,378
Chester.....	31,803	20	2,811	10,108	1,818,046	6,308,880	5,962,390	346,490	9,991,134	3,682,254
Chesterfield.....	34,334	35	598	3,067	332,535	1,440,336	1,382,269	58,067	2,166,600	726,264
Clarendon.....	30,036	21	851	2,623	474,861	440,737	438,285	2,452	1,467,010	1,026,273
Colleton.....	25,821	35	879	2,143	428,638	427,586	412,330	15,256	1,297,249	869,608
Darlington.....	41,427	30	1,738	10,289	1,269,401	3,063,218	3,359,044	304,174	7,100,783	3,497,565
Dillon.....	25,733	11	633	2,712	280,908	1,720,855	1,649,583	71,272	2,585,293	894,488
Dorchester.....	18,050	15	602	2,512	384,396	448,833	428,738	22,095	1,199,927	750,194
Edgewise.....	19,326	25	806	1,949	222,288	1,118,918	1,091,744	27,174	1,701,756	582,838
Florence.....	61,027	38	1,410	4,854	1,247,698	1,869,744	1,778,529	91,215	4,166,118	2,296,374
Georgetown.....	21,738	13	2,172	6,300	1,325,358	737,513	665,116	72,397	2,066,253	1,058,740
Greenville ⁴	117,009	112	15,976	60,781	11,099,674	32,308,043	30,501,210	1,806,833	57,887,553	25,579,510
Greenwood.....	30,078	43	4,346	24,647	2,900,830	10,439,599	10,057,270	382,329	17,492,409	7,052,810
Hampton.....	17,243	35	1,067	3,230	612,177	468,993	447,049	21,344	1,585,025	1,116,032
Horry.....	39,376	13	987	2,027	651,052	536,002	517,281	18,721	1,026,278	1,090,276
Jasper.....	9,988	14	805	1,162	456,722	216,296	213,143	3,153	893,429	677,133
Kershaw.....	32,070	39	751	4,050	521,708	1,599,305	1,474,331	124,974	2,630,788	1,031,483
Lancaster.....	27,980	39	2,723	13,550	1,655,425	5,935,406	5,672,585	262,821	9,854,172	3,918,706
Laurens.....	42,094	25	3,458	11,555	2,426,034	5,870,582	5,350,461	520,121	10,810,491	4,930,900
Lee.....	24,096	15	210	1,127	119,539	740,947	722,332	18,615	1,109,041	368,994
Lexington.....	36,494	31	1,346	6,334	933,387	2,719,546	2,604,156	115,390	4,954,294	2,234,748
McCormick.....	11,471	29	288	1,157	137,707	332,088	330,440	2,248	705,221	372,533
Marion.....	27,221	22	1,308	6,850	970,264	1,331,886	1,288,132	43,754	3,089,978	1,758,092
Newberry.....	34,681	66	2,995	13,908	1,897,980	6,921,289	6,509,786	411,503	11,298,814	4,377,525
Oconee.....	33,368	32	1,929	11,005	1,272,978	3,851,141	3,663,302	187,740	6,412,820	2,661,688
Orangeburg.....	63,864	34	1,226	4,946	766,400	1,662,648	1,611,810	50,829	3,328,577	1,665,929
Pickens.....	38,709	26	3,577	10,569	2,019,215	6,480,609	6,111,551	369,058	10,680,609	4,200,000
Richland.....	87,667	116	4,580	24,445	3,909,607	12,330,090	11,537,974	792,116	21,552,903	9,222,813
Saluda.....	18,148	37	270	1,151	136,903	288,547	286,762	1,785	570,378	281,831
Spartanburg ⁴	116,323	99	12,265	78,876	8,602,742	27,838,180	26,448,353	1,389,827	46,613,101	18,774,921
Sumter.....	45,902	50	1,906	6,459	1,095,097	2,607,108	2,520,590	77,512	5,375,801	2,798,693
Union.....	30,920	35	3,534	23,810	2,459,489	8,843,573	8,278,638	564,935	13,621,175	4,777,602
Williamsburg.....	34,914	12	69	323	51,498	58,310	57,501	809	179,906	121,596
York.....	53,418	51	4,973	17,708	3,183,765	10,713,437	9,977,974	735,463	16,024,437	5,911,000
All other counties ⁵	54,921	48	2,473	24,403	1,577,605	6,851,015	6,364,303	486,712	11,063,810	4,212,795
<i>Cities having 10,000 inhabitants or more</i>										
Anderson.....	14,383	25	1,043	4,357	803,510	2,112,793	1,933,366	179,427	4,423,893	2,311,100
Charleston.....	62,265	54	2,776	15,450	2,619,304	15,305,889	14,994,114	311,775	19,785,055	4,450,166
Columbia.....	51,581	67	3,769	19,359	3,404,850	10,202,602	9,526,041	676,561	18,107,816	7,905,214
Florence.....	14,774	16	831	1,802	929,082	1,090,923	1,032,915	58,008	2,532,653	1,441,730
Greenville.....	29,154	58	2,310	7,322	1,665,561	5,921,314	5,619,515	301,799	11,139,428	5,218,114
Greenwood.....	11,020	20	1,301	4,993	1,003,196	3,065,559	2,923,163	142,396	5,508,639	2,443,080
Rock Hill.....	11,322	24	1,730	7,734	1,221,746	3,469,911	3,192,258	277,653	5,622,619	2,152,708
Spartanburg.....	28,723	52	2,076	11,992	1,477,110	5,726,256	5,438,099	288,187	9,226,699	3,500,443
Sumter.....	11,780	32	1,291	4,429	795,400	1,937,052	1,875,846	61,206	4,116,306	2,179,264

¹ Not including salaried employees.² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.³ 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.⁴ For statistics by industries for this county, see Table 13.⁵ Fairfield and Marlboro Counties. (See footnote 3.)

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 ¹	114,989	85,644	29,345	1,113	1,092	21	2,954	2,914	240	24,145	23,518	2,627	108,777	80,120	28,657
1919 ^{1,4}	86,360	66,938	19,422	1,754	1,704	50	1,034	1,008	26	4,122	3,421	701	79,450	60,800	18,650
1914 ⁴	77,603	59,627	17,976	1,815	1,768	47	847	834	13	3,117	2,785	332	71,824	54,240	17,584
1909.....	78,040	60,944	17,096	1,737	1,697	40	906	893	3	2,651	2,380	271	73,046	56,264	16,782

¹ No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.
² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 60; male, 59; female, 1. Other salaried officers and employees—total, 289; male, 206; female, 83. 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.
³ Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.
⁴ 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 ¹	108,777	108,624	109,245	111,688	107,449	107,978	108,460	107,532	108,601	109,387	109,643	109,694	107,143	96.0
1919 ¹	79,450	79,274	78,606	78,828	76,361	74,217	<i>74,165</i>	70,281	78,550	82,889	83,136	84,298	86,826	85.4
1914 ¹	71,824	75,638	76,868	77,166	73,736	71,110	69,740	69,244	<i>68,195</i>	69,125	69,467	70,450	71,209	88.4
1909 ¹	73,040	73,774	75,090	76,373	72,682	70,310	<i>70,283</i>	70,708	70,441	71,951	73,096	74,756	75,585	92.0

¹ 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.....	1,659	108,777	45 and over but under 48.....	18	262
Not reported.....	525	3,196	48.....	121	3,997
Under 40.....	31	265	Over 48 but under 54.....	84	3,156
40.....	33	710	54.....	52	1,025
Over 40 but under 44.....	9	71	Over 54 but under 60.....	410	82,100
44 and over but under 45.....	40	731	60 and over.....	327	13,255

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.....	1,659	2,004	1,854	108,777	79,450	73,046	51 to 100.....	82	79	68	5,726	5,725	5,024
No wage earners.....	10	105	60				101 to 250.....	85	98	97	14,476	16,476	16,059
1 to 5.....	835	1,040	906	4,134	2,264	2,544	251 to 500.....	79	49	48	28,607	16,576	17,057
6 to 20.....	335	429	505	3,976	4,626	5,446	501 to 1,000.....	39	31	25	28,928	21,137	17,281
21 to 50.....	182	167	141	5,832	5,445	4,370	1,001 to 2,500.....	12		4	16,908		5,265
							2,501 and over.....		6			7,203	

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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,659	2,004	1,854	108,777	79,450	73,046	\$385,892,252	\$381,452,984	\$113,235,945	\$159,350,649	\$153,466,000	\$46,885,071
Less than \$5,000.....	(²)	570	812	(²)	621	2,473	(²)	1,293,763	1,744,244	(²)	893,074	1,247,783
\$5,000 to \$19,999.....	782	571	507	4,486	2,388	4,224	7,435,225	6,180,647	4,912,546	4,962,313	3,916,768	3,200,619
\$20,000 to \$99,999.....	425	434	300	6,210	5,756	9,037	19,392,062	19,454,041	13,432,870	10,607,675	9,607,282	6,391,272
\$20,000 to \$49,999.....	265	(²)	(²)	3,292	(²)	(²)	8,328,457	(²)	(²)	4,930,679	(²)	(²)
\$50,000 to \$99,999.....	160	(²)	(²)	2,918	(²)	(²)	11,063,605	(²)	(²)	5,676,996	(²)	(²)
\$100,000 to \$499,999.....	200	229	218	15,519	12,010	42,296	60,178,453	52,592,280	68,268,491	27,307,107	21,793,680	27,147,965
\$100,000 to \$249,999.....	159	(²)		6,532	(²)		25,084,640	(²)		11,657,774	(²)	
\$250,000 to \$499,999.....	101	(²)		8,987	(²)		35,093,813	(²)		15,649,833	(²)	
\$500,000 to \$999,999.....	84	95		17,611	13,175		59,069,469	67,159,308		25,438,374	26,820,496	
\$1,000,000 and over.....	108	105	17	64,951	45,500	15,016	239,817,043	234,775,945	24,887,094	91,035,180	90,435,800	8,897,432
\$1,000,000 to \$2,499,999.....	77	(²)	(²)	34,740	(²)	(²)	118,244,907	(²)	(²)	47,290,205	(²)	(²)
\$2,500,000 to \$4,999,999.....	25	(²)	(²)	22,213	(²)	(²)	81,336,324	(²)	(²)	33,742,609	(²)	(²)
\$5,000,000 and over.....	6	(²)	(²)	7,998	(²)	(²)	40,235,812	(²)	(²)	10,002,366	(²)	(²)

¹ 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.

² No data.
³ 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.....	1,659	2,004	108,777	79,450	\$385,892,252	\$381,452,984	\$159,350,649	\$153,466,000
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	720	728	99,178	72,520	361,669,918	357,107,899	146,315,271	141,702,304
Other forms of ownership or control (individual, partnership, etc.).....	939	1,276	9,599	6,930	24,222,334	24,345,085	13,035,378	11,764,296
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	267	(¹)	47,296	(¹)	182,853,958	(¹)	70,339,668	(¹)
Independent (single-unit).....	1,392	(¹)	61,481	(¹)	203,038,294	(¹)	89,010,981	(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 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.....	527,326	234,018	1,215	134,069	71	61,888	84	2,065	75	35,096	33,100	293,308	6,237	60,478
1927.....	478,245	227,615	768	133,369	59	53,836	69	2,226	389	38,184	20,783	250,650	4,889	62,208
1925.....	423,550	232,425	983	133,593	54	37,779	74	1,992	84	39,061	20,530	180,934	5,908	77,140
1919 ¹	365,466	237,005	1,379	191,745	38	22,974	267	2,472	123	40,714	7,985	137,561	1,275	36,587
1914 ¹	335,710	251,956	1,079	207,480	(²)	(²)	233	2,063	165	42,413	4,418	83,754	681	28,234
Counties in which aggregate horsepower exceeded 25,000: 1929														
Anderson.....	46,932	24,007	17	9,840	6	7,545			5	6,622	2,709	22,625	1,361	9,705
Charleston.....	28,752	9,838	43	4,885	9	4,452	13	501			950	18,914	12	251
Greenville.....	60,781	22,726	37	12,655	6	7,166	1	(²)	9	2,905	6,791	38,055	378	6,010
Spartanburg.....	78,876	35,791	25	14,674	7	8,577	2	15	32	12,525	4,306	43,085	1,960	8,400

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.

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 5 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	527,326	234,018	293,308	60,478	Jasper.....	1,162	1,155	7	60
Abbeville.....	4,693	3,490	1,203	2,272	Kershaw.....	4,050	1,615	2,435	7,860
Aiken.....	16,131	5,958	10,173	168	Lancaster.....	13,550	12,840	710	11,024
Allendale.....	772	540	232	.....	Laurens.....	11,555	531	618	.....
Anderson.....	46,932	24,007	22,925	9,705	Lee.....	1,127	509	.....	.....
Bamberg.....	1,607	1,260	347	400	Lexington.....	0,334	3,030	3,304	125
Barnwell.....	1,264	1,150	114	500	McCormick.....	1,167	1,167	(3)	1,648
Beaufort.....	893	700	193	.....	Marion.....	0,850	4,365	2,485	.....
Berkeley.....	2,976	2,972	4	1,200	Newberry.....	13,908	4,126	9,782	.....
Calhoun.....	807	715	92	.....	Oconee.....	11,005	6,092	6,013	55
Charleston.....	23,752	9,838	18,914	261	Orangeburg.....	4,946	4,450	496	100
Cherokee.....	15,863	5,619	10,244	766	Pickens.....	10,500	7,057	3,512	912
Chester.....	10,108	690	9,418	220	Richland.....	24,445	2,585	21,860	.....
Chesterfield.....	3,087	1,094	1,973	.....	Saluda.....	1,161	1,050	96	.....
Clarendon.....	2,623	2,600	23	1,296	Spartanburg.....	78,870	35,701	43,085	8,400
Colleton.....	2,143	2,027	116	.....	Sumter.....	6,460	3,825	2,634	(4)
Darlington.....	16,280	6,977	9,312	1,540	Union.....	23,810	6,464	17,346	.....
Dillon.....	2,712	905	1,807	.....	Williamsburg.....	323	300	23	.....
Dorchester.....	2,512	2,392	120	(?)	York.....	17,708	1,512	10,196	540
Edgefield.....	1,949	1,629	320	.....	All other counties ⁴	24,403	2,763	21,640	(4)
Florence.....	4,854	3,147	1,707	300					
Georgetown.....	6,306	6,288	18	4,221					
Greenville.....	60,781	22,726	38,056	6,910					
Greenwood.....	24,647	21,067	3,580	10,327					
Hampton.....	3,230	3,080	150	442					
Horry.....	2,027	2,024	3	120					

¹ Electric motors driven by energy generated in establishments reporting.
² Included in total for State but not shown separately to avoid disclosing data for a single establishment.
³ Item for electric motors included with that for prime movers to avoid disclosing data for a single establishment.
⁴ Fairfield and Marlboro 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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 lbs.).....	881,008	\$3,342,813	841,250	840,001	835,032	703,985	680,085
Anthracite (tons, 2,240 lbs.).....	25,503	122,720	(3)	12,104	14,451	8,580	9,314
Bituminous (tons, 2,000 lbs.).....	852,445	3,220,093	(3)	835,344	818,847	754,365	675,653
Coke (tons, 2,000 lbs.).....	8,706	62,947	(4)	(4)	17,346	13,597	4,444
Fuel oils, including crude oils and gas oils (gallons) ³	13,749,169	431,003	(4)	(4)	1,607,130	1,314,180	372,330
Gasoline and kerosene (gallons) ³	241,871	42,208	(4)	(4)	313,866	.....	.....
Gas, natural (M cu. ft.).....	.....	.....	(4)	(4)	.....	.....	.....
Gas, manufactured (M cu. ft.).....	726,553	163,260	(4)	(4)	35,583	3,812	1,448
Other fuels.....	.....	114,962	(4)	(4)	(4)	(4)	(4)
Electric energy purchased (kilowatt-hours).....	690,456,682	8,201,316	(4)	(4)	(4)	(4)	(4)
Total cost of fuel and purchased energy.....	.....	\$7,12,358,509	Cost \$12,739,934	Cost (4)	Cost \$7,569,770	Cost \$4,137,716	Cost \$3,106,324

¹ No data on cost of fuel, by kinds, were collected for years prior to 1929.
² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.
³ Not tabulated separately.
⁴ No data.
⁵ For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.
⁶ Data incomplete.
⁷ 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.
⁸ 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 ¹	Cost of fuel and purchased electric energy	Value of products ²	Value added by manufacture ³
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	1,059	5,099	108,777	234,018	293,308	\$12,800,005	\$73,223,327	\$214,617,334	\$11,924,269	\$385,892,252	\$159,350,649
Beverages.....	80	110	395	65	913	303,905	415,417	1,433,851	47,152	3,707,359	2,226,359
Boxes, wooden, except cigar boxes.....	7	14	331	925	413	56,023	231,730	500,321	9,439	958,539	448,779
Bread and other bakery products.....	46	117	730	-----	1,311	229,188	803,956	1,882,795	92,695	4,016,137	2,040,617
Butter.....	5	5	6	10	65	7,740	5,477	117,990	1,770	149,403	29,637
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	10	23	546	578	7	28,780	140,977	319,115	22,220	678,031	336,696
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	12	17	179	407	29	27,441	60,342	488,023	7,971	751,119	255,125
Car and general construction and repairs, steam-railroad repair shops.....	9	84	1,773	358	3,791	224,355	2,516,192	1,793,241	104,720	4,638,508	2,740,547
Caskets, coffins, burial cases, and other morticians' goods.....	4	12	115	195	132	24,030	82,594	168,612	4,575	377,179	203,902
Clay products (other than pottery) and nonclay refractories.....	22	52	670	930	3,252	128,912	387,087	48,919	322,768	1,284,427	912,740
Coffee and spice, roasting and grinding.....	7	6	12	-----	92	9,175	12,547	264,377	4,990	342,338	72,065
Concrete products.....	10	13	66	25	112	32,682	50,503	120,808	3,333	232,205	167,564
Confectionery.....	5	8	61	24	30	14,210	33,001	104,609	6,325	218,337	107,403
Cooperage.....	5	5	68	270	-----	8,700	40,230	92,438	-----	185,886	93,448
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	3	20	-----	15	3,370	24,171	42,669	1,327	84,847	40,851
Cotton goods.....	159	1,636	71,731	149,511	209,129	4,968,650	46,753,500	138,013,308	8,721,067	241,435,050	94,701,284
Dyeing and finishing textiles.....	11	165	1,939	1,635	6,383	472,343	1,690,173	2,342,240	305,893	8,555,139	5,907,056
Feeds, prepared, for animals and fowls.....	7	12	38	145	855	18,049	28,531	809,424	11,534	927,350	106,392
Fertilizers.....	48	392	1,006	1,497	10,109	614,979	1,049,862	10,310,157	165,446	14,050,480	3,574,877
Flour and other grain-mill products.....	23	26	77	331	1,443	94,990	63,024	1,632,064	22,067	1,989,928	335,797
Foundry and machine-shop products, not elsewhere classified.....	10	31	241	235	594	65,231	259,166	143,524	19,829	649,265	485,012
Furniture, including store and office fixtures.....	8	16	77	107	391	41,127	59,230	285,417	8,424	553,724	259,833
Gas, manufactured, illuminating and heating.....	9	74	202	1,004	556	113,090	189,007	194,815	325,881	1,655,156	1,134,400
Ice cream.....	18	55	109	-----	900	114,802	127,497	687,648	44,941	1,458,890	720,307
Ice, manufactured.....	82	157	624	2,508	9,346	281,965	499,717	179,591	343,077	2,643,879	2,121,211
Knit goods.....	12	42	983	105	1,565	115,581	627,375	1,596,905	50,318	2,828,522	1,181,599
Lumber and timber products, not elsewhere classified.....	627	658	15,720	52,133	2,008	1,704,240	9,499,466	8,677,598	182,400	27,935,772	19,075,634
Marble, granite, slate, and other stone products.....	12	17	111	38	574	33,224	145,493	97,099	7,818	410,355	306,438
Mattresses and bed springs, not elsewhere classified.....	7	10	32	40	171	14,945	20,636	82,694	2,557	151,222	65,071
Oil, cake, and meal, cottonseed.....	38	215	869	7,270	14,075	367,230	508,245	9,437,552	335,440	11,405,480	1,632,497
Paints and varnishes.....	3	17	16	-----	156	50,860	11,390	146,305	2,015	269,109	120,840
Patent and proprietary medicines and compounds.....	4	3	10	-----	2	7,400	9,373	27,661	290	78,355	50,404
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	82	181	1,478	6,739	2,965	372,424	937,101	5,646,230	55,085	8,610,216	2,008,901
Printing and publishing, book and job.....	39	103	316	-----	413	241,433	394,802	381,120	18,897	1,334,616	634,599
Printing and publishing, newspaper and periodical.....	70	392	600	19	1,024	784,302	797,754	777,540	44,960	4,153,834	3,331,325
Textile machinery and parts.....	9	35	255	-----	1,089	96,205	250,718	382,094	24,401	607,101	590,516
Wood turned and shaped and other wooden goods, not elsewhere classified.....	6	8	60	55	90	20,860	63,473	67,363	4,584	240,937	168,990
Other industries.....	140	469	6,693	7,159	19,239	1,147,514	4,407,245	25,321,508	597,308	35,882,823	9,063,947

¹ 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.

² 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.

³ Not including data for 349 employees of central administrative offices, with salaries aggregating \$938,610. See GENERAL EXPLANATIONS—Persons Engaged.

SOUTH CAROLINA

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TABLE 13.—GENERAL STATISTICS FOR GREENVILLE AND SPARTANBURG COUNTIES, BY INDUSTRIES: 1929

[This table presents, for each of the two important industrial counties in the State, 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
GREENVILLE COUNTY											
All industries, total.....	112	643	15,976	22,720	38,055	\$1,971,951	\$11,099,674	\$30,501,210	\$1,806,833	\$57,887,553	\$25,579,510
Bread and other bakery products.....	7	13	78	-----	146	20,761	88,824	175,437	10,347	430,294	244,510
Cotton goods.....	23	263	12,428	19,871	28,323	894,838	8,314,658	21,382,218	1,326,820	40,013,266	17,364,228
Dyeing and finishing textiles.....	5	83	868	1,625	2,537	297,541	836,120	1,075,469	160,021	5,761,097	2,524,707
Fertilizers.....	3	7	43	60	335	16,657	27,601	307,536	2,831	418,200	167,839
Ice, manufactured.....	6	14	76	125	1,193	29,536	51,393	12,047	37,115	338,804	289,642
Lumber and timber products, not elsewhere classified.....	13	1	42	310	12	(1)	15,992	20,603	35	76,987	56,349
Printing and publishing, book and job.....	5	12	41	-----	46	31,654	51,719	53,021	2,203	184,918	120,664
Textile machinery and parts.....	6	18	152	-----	444	46,079	151,598	258,181	12,636	622,792	351,975
Other industries.....	44	232	2,248	735	5,019	634,855	1,563,969	7,216,698	253,925	12,041,189	4,570,506
SPARTANBURG COUNTY											
All industries, total.....	99	532	12,265	35,791	43,085	\$1,329,472	\$8,602,742	\$26,448,353	\$1,389,827	\$40,613,101	\$18,774,921
Beverages.....	4	8	20	-----	57	10,758	34,832	101,012	3,713	278,760	174,025
Bread and other bakery products.....	5	26	118	-----	261	51,138	140,426	429,862	9,574	798,905	350,469
Cotton goods.....	25	206	9,971	34,545	33,523	640,685	6,531,340	18,960,460	1,097,373	32,136,549	12,078,716
Fertilizers.....	7	18	127	-----	820	28,283	83,384	1,330,535	8,612	1,652,232	313,085
Foundry and machine-shop products, not elsewhere classified.....	3	4	46	110	120	6,115	51,085	24,255	5,252	97,819	68,312
Lumber and timber products, not elsewhere classified.....	4	-----	11	35	30	-----	4,549	6,175	-----	28,900	22,725
Oil, cake, and meal, cottonseed.....	5	23	109	675	1,621	36,620	51,979	1,162,366	38,170	1,361,075	160,539
Other industries.....	46	247	1,857	426	6,653	549,873	1,700,147	4,433,688	227,133	10,258,871	5,598,050

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹ Withheld to avoid disclosing compensation of an individual officer or employee; included in item for "Other industries."

SOUTH DAKOTA

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers	Fuel and purchased energy		
1929.....	615	6,535	31,297	12,889	18,408	\$8,132,240	\$75,016,424	\$73,544,176	\$1,472,248	\$97,697,636	\$22,681,212
1927.....	472	5,551	24,676	11,086	13,590	6,785,893	63,619,377	62,252,264	1,367,613	83,001,163	19,381,286
1925.....	504	5,151	21,463	10,488	10,975	6,208,088	46,941,826	(⁵)	(⁵)	63,432,674	16,400,848
1923.....	480	5,146	16,453	7,230	9,222	6,210,607	33,673,093	(⁵)	(⁵)	47,320,901	13,647,808
1921.....	574	4,635	(⁶)	(⁶)	(⁶)	6,350,033	26,346,398	(⁶)	(⁶)	41,557,756	14,711,368
1919.....	1,414	6,382	22,176	11,949	10,227	7,905,426	42,985,370	41,821,013	1,164,857	62,170,732	19,184,912
1914.....	898	3,788	16,324	11,910	4,414	2,628,162	17,079,357	16,551,758	527,599	24,138,566	7,059,209
1909.....	1,020	3,602	17,663	15,980	1,683	2,267,512	11,476,350	10,968,495	507,855	17,870,135	6,303,785
1904.....	686	2,492	11,144	10,963	181	1,421,680	8,696,331	8,421,699	275,132	13,085,333	4,388,502
1899.....	624	2,224	11,763	11,663	100	1,129,787	6,483,677	(⁶)	(⁶)	9,520,946	3,046,269
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	80.3	17.7	28.8	16.3	35.5	19.3	17.9	18.1	7.7	17.7	17.0
1925-1927.....	-6.3	7.8	15.0	5.7	23.8	9.3	35.5			30.8	17.5
1923-1925.....	3.1	0.1	30.4	44.9	19.0	(⁷)	39.4			34.0	20.8
1921-1923.....	-14.8	11.0				-2.2	25.4			13.9	-7.2
1919-1921.....	-59.4	-27.4				-19.7	-37.5			-33.2	-23.3
1919-1929.....	-55.5	2.4	41.1	7.9	80.0	2.9	74.5	75.9	26.4	57.1	18.2
1909-1919.....	35.0	77.2	25.6	-25.2	507.7	244.1	274.6	281.3	129.4	247.0	200.1
1899-1909.....	63.5	62.0	50.2	37.0	1,583.0	103.4	77.0			87.5	109.9

¹ Not including salaried employees.
² The aggregates for cost of materials, etc., and value of products includes 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.
³ 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.
⁴ Not reported separately.
⁵ Not called for on schedule.
⁶ No comparable data.
⁷ Less than one-tenth of 1 per cent.

CENSUS OF MANUFACTURES: 1929

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) ¹	Horse-power ²	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.....	692,849	615	6,595	31,207	\$8,132,240	\$75,016,424	\$73,544,176	\$1,472,248	\$87,697,636	\$22,681,212
<i>Counties</i>										
Aurora.....	7,139	6	11	115	11,523	251,795	240,539	2,256	301,977	50,182
Beadle.....	22,917	24	619	2,801	844,934	9,871,077	9,730,207	140,870	11,521,263	1,650,186
Bon Homme.....	11,737	10	14	153	12,173	51,017	47,663	3,354	98,429	47,412
Brookings.....	16,847	15	43	225	46,417	611,725	601,006	10,719	839,204	227,470
Brown.....	31,458	35	525	1,908	681,305	2,654,787	2,526,682	128,105	4,528,880	1,874,093
Brule.....	7,416	10	47	133	50,739	135,252	130,691	4,561	341,028	205,776
Butte.....	8,589	9	107	2,637	212,893	1,618,506	1,507,544	110,962	2,213,767	695,291
Charles Mix.....	16,703	12	22	220	22,037	230,989	223,881	7,108	313,469	82,480
Clay.....	10,088	5	18	32	61,007	61,007	68,666	2,342	125,776	64,769
Codington.....	17,457	30	300	1,279	409,045	8,594,299	8,500,654	93,645	10,220,504	1,620,205
Custer.....	5,353	20	166	879	183,176	116,440	111,039	5,401	385,563	269,123
Davison.....	16,821	23	323	1,004	428,212	2,537,193	2,436,385	70,808	3,029,188	1,421,995
Day.....	14,606	12	60	192	67,450	1,521,389	1,506,969	14,420	1,795,946	274,557
Fall River.....	8,741	9	41	301	49,274	165,500	147,939	17,561	322,155	156,655
Grant.....	10,729	10	75	432	122,101	285,393	269,104	16,289	500,089	274,606
Gregory.....	11,420	9	25	181	27,410	361,584	355,280	6,304	448,675	87,091
Hamlin.....	8,299	8	16	68	17,182	342,225	337,412	4,813	430,962	88,737
Hughes.....	7,009	8	86	93	117,210	123,494	111,908	11,586	344,002	220,608
Hutchinson.....	13,904	8	17	145	16,975	286,486	281,495	4,991	361,147	74,661
Kingsbury.....	12,805	12	28	94	32,964	353,576	348,590	4,986	467,800	114,224
Lake.....	12,379	8	66	184	99,640	356,374	343,699	12,675	527,941	171,667
Lawrence.....	13,920	22	189	834	238,026	418,831	405,880	12,951	896,960	478,029
Lincoln.....	13,918	9	30	103	38,750	152,941	148,010	4,931	245,930	92,989
Marshall.....	9,540	5	10	37	8,543	53,018	62,333	1,085	82,023	28,105
Meade.....	11,482	9	27	604	31,744	80,945	50,138	21,807	170,299	89,354
Miner.....	8,376	10	15	43	14,767	45,881	44,623	1,258	94,772	48,891
Minnehaha.....	50,872	39	2,437	8,851	2,837,127	30,103,778	39,081,851	421,927	47,900,926	8,800,148
Pennington.....	20,079	35	763	5,397	919,859	1,491,022	1,263,741	227,281	3,445,177	1,954,155
Perkins.....	8,717	4	13	33	19,107	50,120	46,840	280	93,711	43,691
Roberts.....	15,782	11	25	111	24,041	216,912	212,602	4,310	296,273	79,361
Spink.....	15,304	8	34	359	42,324	313,940	302,807	11,142	445,490	131,550
Tripp.....	12,712	9	17	157	20,841	119,057	112,952	6,105	213,101	94,044
Turner.....	14,891	15	24	93	26,265	197,964	193,414	4,550	282,451	84,487
Union.....	11,480	9	15	43	16,518	130,356	127,820	2,536	181,367	51,011
Walworth.....	8,791	10	136	356	206,269	217,356	190,991	26,365	493,776	276,420
Yankton.....	10,539	14	59	254	84,961	647,384	630,827	16,557	924,748	277,364
All other counties ³	187,979	73	139	986	155,136	1,275,902	1,249,895	26,007	1,843,958	668,056
<i>Cities having 10,000 inhabitants or more ⁴</i>										
Aberdeen.....	16,465	29	516	1,865	671,749	2,639,392	2,514,410	124,982	4,474,576	1,835,184
Mitchell.....	10,642	20	312	981	417,328	2,442,810	2,373,781	69,029	3,829,489	1,330,079
Rapid City.....	10,404	22	569	2,234	677,645	1,163,583	1,113,377	40,206	2,404,492	1,250,909
Sioux Falls.....	33,362	75	2,393	8,004	2,799,804	38,622,981	38,112,926	410,055	47,179,710	8,656,729
Watertown.....	10,214	27	298	1,234	406,265	8,463,966	8,371,994	91,972	10,060,504	1,596,638

¹ Not including salaried employees.

² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

³ Bennett, Clark, Corson, Deuel, Dewey, Douglas, Edmunds, Faulk, Haakon, Hand, Hanson, Harding, Hyde, Jackson, Jerauld, Jones, Lyman, McCook, McPherson, Mellette, Moody, Potter, Sanborn, Stanley, Sully, Todd, and Ziebach Counties. (See headnote.) No manufacturing was reported from Armstrong, Buffalo, Campbell, Shannon, Washabaugh, and Washington Counties.

⁴ Not including Huron, 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 in order to avoid disclosing approximations of the data for individual establishments located outside the city but within Beadle 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 ¹	8,204	6,985	1,219	401	378	23	² 169	² 160	9	² 1,099	² 786	² 313	6,535	³ 5,661	³ 874
1919 ^{1,4}	9,034	7,954	1,080	1,410	1,373	37	134	127	7	1,108	735	373	6,382	5,719	663
1914 ⁴	5,346	4,712	634	762	730	32	71	70	1	725	577	148	3,788	3,335	453
1909.....	5,226	4,588	638	942	906	36	96	95	1	536	442	144	3,602	3,145	457

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

² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 5 (male). Other salaried officers and employees—total, 6; male, 3; female, 3. 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.

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

⁴ 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 minimums of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929	6,535	6,703	6,548	6,389	<i>6,275</i>	6,294	6,547	6,051	6,611	6,482	6,531	6,589	6,800	92.3
1919	6,382	5,864	<i>5,305</i>	5,907	5,960	6,205	6,418	6,554	6,657	6,776	6,722	6,718	6,902	84.1
1914	3,788	3,490	<i>3,162</i>	3,500	3,588	3,715	3,794	3,878	3,902	3,990	4,087	4,007	3,893	84.7
1909	3,602	<i>3,108</i>	3,235	3,374	3,373	3,543	3,763	3,824	3,779	3,925	3,860	3,860	3,572	79.2

¹ 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.....	615	6,535	45 and over but under 48.....	3	6
			48.....	124	1,620
Not reported.....	156	328	Over 48 but under 54.....	27	314
Under 40.....	12	48	54.....	79	1,128
40.....			Over 54 but under 60.....	27	444
Over 40 but under 44.....	124	1,580	60 and over.....	166	1,066
44 and over but under 45.....					

¹ Combined to avoid disclosing 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, 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.....	615	1,414	1,020	6,535	6,382	3,602	51 to 100.....	6	6	4	455	356	310
No wage earners.....	20	263	146				101 to 250.....	5	5	3	813	875	484
1 to 5.....	438	997	707	1,001	1,924	1,456	251 to 500.....	2	2		12,145	652	
6 to 20.....	116	119	83	1,268	1,202	835	501 to 1,000.....	1	1			660	
21 to 50.....	27	21	17	853	644	617	1,001 to 2,500.....						

¹ Combined to avoid disclosing 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 ¹		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	615	1,414	1,020	6,535	6,382	3,602	\$97,697,636	\$62,170,782	\$17,870,135	\$22,681,212	\$19,184,912	\$6,399,785
Less than \$5,000.....	(²)	485	533	(²)	280	558	(²)	1,374,563	1,204,898	(¹)	953,642	876,341
\$5,000 to \$19,999.....	338	588	309	694	1,219	878	3,386,598	5,863,395	3,144,801	2,095,411	3,554,177	1,541,435
\$20,000 to \$99,999.....	178	265	142	1,105	1,552	1,056	8,348,485	11,566,552	5,052,440	3,595,471	4,226,836	1,923,520
\$20,000 to \$49,999.....	109	(³)	(³)	690	(³)	(³)	3,516,536	(³)	(³)	1,750,301	(³)	(³)
\$50,000 to \$99,999.....	69	(³)	(³)	515	(³)	(³)	4,831,949	(³)	(³)	1,836,170	(³)	(³)
\$100,000 to \$499,999.....	83	61		1,899	1,405		19,019,323	11,899,576		7,305,856	3,936,068	
\$100,000 to \$249,999.....	54	(³)		829	(³)		8,450,823	(³)		3,423,361	(³)	
\$250,000 to \$499,999.....	29	(³)	36	1,070	(³)	1,110	10,568,500	(³)	7,808,490	3,882,495	(³)	2,052,469
\$500,000 to \$999,999.....	8	9		699	1,150		6,175,791	7,003,313		2,207,395	3,225,062	
\$1,000,000 and over.....	8	6		2,168	770		60,767,439	24,463,383		7,477,079	3,289,127	
\$1,000,000 to \$2,499,999.....	5	(³)	(³)	356	(³)	(³)	8,069,271	(³)	(³)	1,964,267	(³)	(³)
\$2,500,000 to \$4,999,999.....	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
\$5,000,000 and over.....	3	(³)	(³)	1,782	(³)	(³)	52,698,168	(³)	(³)	5,512,812	(³)	(³)

¹ 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.

² No data.

³ 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.....	615	1,414	6,535	6,382	\$97,697,636	\$62,170,782	\$22,681,212	\$19,184,912
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	201	288	5,273	4,388	88,067,802	48,198,970	18,574,867	13,026,642
Other forms of ownership or control (individual, partnership, etc.).....	414	1,126	1,262	1,994	9,629,834	13,971,812	4,106,345	6,158,270
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	87	(¹)	3,973	(¹)	71,108,468	(¹)	12,081,920	(¹)
Independent (single-unit).....	548	(¹)	2,562	(¹)	26,589,168	(¹)	10,599,292	(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

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		
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower				
1929.....	31,297	12,889	103	8,677	11	2,711	38	1,279	4	222	3,350	18,408	364	7,061
1927.....	24,676	11,086	87	6,136	11	2,694	61	1,842	8	414	2,313	13,690	206	5,012
1925.....	21,463	10,488	117	6,559	7	2,650	48	986	6	293	2,046	10,975	82	3,949
1919 ¹	22,176	11,949	170	8,270	2	90	444	3,282	0	307	2,032	10,227	73	903
1914 ¹	16,324	11,910	² 186	² 8,972	(³)	(³)	343	2,364	19	574	699	4,414	24	218

¹ 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.

² Reported as "Steam engines and turbines."

³ 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 headnote on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	31,297	12,889	18,408	7,961	Counties—Continued				
COUNTIES					Hutchinson.....	145	15	130	
Aurora.....	115	50	65		Kingsbury.....	94		94	
Beadle.....	2,801	719	2,082	940	Lake.....	184	27	157	
Bon Homme.....	153	68	85		Lawrence.....	834	509	325	
Brookings.....	225	65	100		Lincoln.....	103	3	100	
Brown.....	1,968	215	1,753	260	Marshall.....	37	18	19	
Brule.....	133	20	113		Meade.....	604	80	524	
Butte.....	2,537	2,322	215	1,794	Miner.....	43		43	
Charles Mix.....	220	42	178		Minnehaha.....	8,851	1,448	7,403	
Clay.....	32		32		Pennington.....	5,397	4,918	479	4,785
Codington.....	1,279	237	1,042		Porkins.....	33	15	18	
Custer.....	879	874	5		Roberts.....	111	25	86	
Davison.....	1,004	173	831		Spink.....	359	120	239	
Day.....	192	27	165		Tripp.....	157	75	82	
Fall River.....	301	178	123	125	Turner.....	93	30	63	
Grant.....	432		432		Union.....	43	6	37	
Gregory.....	181	60	121		Walworth.....	356	5	351	37
Hamlin.....	68	20	48		Yankton.....	264	70	184	20
Hughes.....	98	34	59		All other counties ²	986	421	565	

¹ Horsepower of electric motors driven by energy generated in establishments reporting.

² Bennett, Clark, Corson, Deuel, Dewey, Douglas, Edmunds, Faulk, Haakon, Hand, Hanson, Harding, Hyde, Jackson, Jerauld, Jones, Lyman, McCook, McPherson, Mellette, Moody, Potter, Sanborn, Stanley, Sully, Todd, and Ziebach Counties. No manufacturing was reported from Armstrong, Buffalo, Campbell, Shannon, Washabaugh, and Washington Counties.

SOUTH DAKOTA

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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 VII, Volume I, Reports of the Census of Manufactures, 1929]

KIND	1929		1927 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 lbs.).....	132, 283	\$671, 769	140, 070	142, 724	99, 950	84, 079	105, 620
Anthracite (tons, 2,240 lbs.).....	5, 478	26, 126	(4)	52, 445	2, 784	2, 607	2, 744
Bituminous (tons, 2,000 lbs.).....	126, 148	645, 643	(3)	83, 986	96, 832	81, 759	102, 547
Coke (tons, 2,000 lbs.).....	5, 341	69, 340	(4)	(4)	9, 103	6, 870	3, 960
Fuel oils, including crude oils and gas oils (gallons) ³	2, 539, 249	133, 088	(4)	(4)	3, 085, 008	859, 152	803, 038
Gasoline and kerosene (gallons) ⁴	56, 807	9, 070	(4)	(4)	216, 930	}	}
Gas, natural (M cu. ft.).....	830, 709	138, 109	(4)	(4)	11, 002	2, 059	106, 436
Gas, manufactured (M cu. ft.).....	22, 680	25, 491	(4)	(4)	(4)	(4)	(4)
Other fuels.....		34, 320	(4)	(4)			
Electric energy purchased (kilowatt-hours).....	17, 378, 430	415, 442	(0)	(4)	(4)	(4)	(4)
Total cost of fuel and purchased energy.....		\$ 1, 407, 820	\$1, 367, 613	\$	\$1, 164, 857	\$527, 599	\$507, 855

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

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

³ Not tabulated separately.

⁴ No data.

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

⁶ Data incomplete.

⁷ 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.

⁸ 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 employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	615	\$1, 268	6, 535	12, 880	18, 408	\$2, 558, 447	\$8, 132, 240	\$73, 544, 176	\$1, 472, 248	\$67, 667, 036	\$22, 681, 212
Beverages.....	19	12	36	12	115	16, 140	40, 230	103, 120	5, 401	248, 060	140, 130
Bread and other bakery products.....	130	72	731	5	1, 400	153, 707	807, 591	2, 407, 752	119, 363	4, 826, 519	2, 299, 404
Butter.....	83	164	439	403	3, 117	242, 581	495, 636	15, 159, 602	163, 415	17, 981, 001	2, 668, 044
Car and general construction and repairs, steam-railroad repair shops.....	15	64	775	275	1, 043	168, 895	1, 212, 823	451, 286	109, 726	1, 942, 730	1, 381, 718
Cigars and cigarettes.....	5	1	12	-----	4	11, 638	15, 847	607	41, 588	25, 044	25, 044
Coffee and spice, roasting and grinding.....	4	10	10	-----	40	12, 069	7, 843	176, 495	2, 114	239, 563	60, 954
Concrete products.....	11	16	30	14	101	27, 720	39, 780	80, 341	2, 789	227, 008	134, 968
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	16	38	-----	105	50, 946	71, 265	279, 540	3, 216	550, 300	267, 544
Flour and other grain-mill products.....	10	32	46	923	1, 084	74, 925	58, 074	1, 167, 741	38, 466	1, 636, 626	430, 419
Foundry and machine-shop products, not elsewhere classified.....	11	22	93	-----	269	59, 169	106, 379	88, 000	8, 554	544, 024	447, 410
Gas, manufactured, illuminating and heating.....	8	36	70	108	206	68, 920	99, 447	135, 513	169, 518	801, 811	466, 980
Ice cream.....	13	19	65	100	450	29, 848	82, 214	462, 504	23, 878	906, 332	418, 800
Ice, manufactured.....	6	7	16	120	380	17, 300	15, 919	3, 587	16, 181	103, 352	83, 584
Lumber and timber products, not elsewhere classified.....	34	27	862	3, 526	5	74, 220	904, 625	327, 025	20, 392	1, 681, 940	1, 334, 523
Meat packing, wholesale.....	4	266	1, 796	2, 182	5, 313	494, 814	2, 035, 298	47, 264, 412	313, 032	53, 173, 339	5, 595, 895
Patent or proprietary medicines and compounds.....	4	13	23	170	145	29, 900	25, 680	64, 390	14, 063	214, 558	136, 099
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	12	30	133	50	1, 310	57, 247	144, 178	417, 793	12, 445	777, 073	346, 835
Poultry killing, dressing, and packing, wholesale.....	8	29	125	10	195	41, 267	111, 452	1, 834, 123	14, 057	2, 229, 118	380, 938
Printing and publishing, book and job.....	20	73	128	-----	201	140, 715	183, 881	167, 723	9, 463	657, 684	480, 498
Printing and publishing, newspaper and periodical.....	149	266	532	26	1, 346	565, 336	808, 945	640, 779	62, 004	3, 663, 653	2, 900, 210
Other industries.....	41	93	585	4, 965	1, 480	226, 716	809, 442	2, 287, 677	362, 814	5, 251, 607	2, 601, 116

¹ 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.

² 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.

³ Not including data for 11 employees of central administrative offices, with salaries aggregating \$19,500. See GENERAL EXPLANATIONS—Persons Engaged.

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

TENNESSEE

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) ¹	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
			Total	Prime movers	Electric motors driven by purchased energy		Total ⁴	Materials and containers ⁵	Fuel and purchased energy		
1920	2,855	128,400	606,704	284,101	342,603	\$115,877,077	\$407,610,550	\$390,520,831	\$17,089,719	\$730,508,612	\$322,898,062
1927	2,008	114,008	476,243	235,569	239,684	101,197,846	351,430,325	336,374,838	15,055,487	614,040,524	262,604,109
1925	2,182	107,045	447,529	240,774	206,755	95,255,430	358,007,155	(6)	(6)	601,488,472	243,391,317
1923	2,307	106,504	391,465	229,380	162,085	92,481,539	334,111,145	(6)	(6)	555,205,500	221,154,461
1921	2,245	75,446	(6)	(6)	(6)	65,741,045	225,951,368	(6)	(6)	374,038,316	148,086,948
1919	4,880	95,167	338,732	240,458	98,274	81,355,256	344,706,730	330,552,028	14,214,702	556,263,162	211,486,432
1914	4,775	74,373	280,844	228,986	57,858	33,082,987	123,430,135	118,301,172	5,128,963	212,071,480	88,041,354
1909	4,069	73,840	241,638	229,972	14,660	28,251,591	104,015,834	98,824,384	5,191,450	180,216,548	76,200,714
1904	3,175	60,672	175,353	173,123	2,230	22,805,828	79,351,746	76,153,655	3,198,091	137,080,476	58,608,730
1899	3,116	45,963	129,794	128,424	1,370	14,727,506	54,559,030	(7)	(7)	92,740,129	38,190,000
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	36.1	11.7	27.7	12.1	42.0	14.5	16.0	10.1	13.5	10.0	23.0
1925-1927	-3.0	6.8	6.2	-2.2	15.9	6.2	-1.9			2.1	7.9
1923-1925	-6.3	1.1	14.3	5.0	27.0	3.0	7.2			8.3	10.1
1921-1923	2.8	41.2				40.7	47.0			48.5	49.3
1919-1921	-51.1	-20.7				-19.2	-34.5			-32.8	-30.0
1919-1929	-37.8	34.9	70.1	9.8	248.0	42.4	13.2	18.1	20.2	31.3	52.7
1909-1919	-0.4	28.9	40.2	5.0	570.1	188.0	231.5	234.5	173.8	203.7	177.5
1899-1909	47.9	60.7	86.2	76.7	970.5	91.8	90.6			94.3	99.5

¹ Not including salaried employees.
² 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.
³ 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.
⁴ 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.
⁵ Not reported separately.
⁶ Not called for on schedule.
⁷ 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) ¹	Horsepower ²	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	2,616,556	2,855	128,400	606,704	\$115,877,077	\$407,610,550	\$390,520,831	\$17,089,719	\$730,508,612	\$322,898,062
<i>Counties³</i>										
Bedford	21,077	26	803	2,494	542,819	1,974,706	1,916,300	58,406	3,387,512	1,412,716
Benton	11,237	5	13	155	6,964	9,000	9,000		31,000	22,000
Bledsoe	7,128	6	17	141	10,474	50,077	48,682	1,395	92,016	41,939
Bradley	22,870	29	1,033	5,090	1,729,830	3,790,433	3,664,508	125,935	7,369,885	3,570,422
Campbell	26,827	20	497	1,718	429,194	582,170	562,716	19,453	1,515,008	932,829
Cannon	8,935	5	19	123	11,080	27,140	26,965	175	60,669	33,529
Carroll	26,132	21	247	1,203	286,041	275,634	259,259	16,375	705,180	420,546
Carter	29,223	21	3,555	14,007	2,806,607	2,436,387	2,280,546	149,841	8,036,113	6,199,726
Cheatham	9,025	4	11	125	8,587	40,211	39,101	1,110	62,586	22,375
Claborne	24,313	12	50	217	24,910	36,883	36,883	600	83,734	46,851
Clay	9,577	5	12	116	6,320	12,430	12,430		27,825	15,395
Cooke	21,775	18	609	2,162	404,286	2,098,325	2,052,138	46,187	3,187,414	1,089,089
Coffey	16,801	25	378	2,362	237,677	984,184	959,002	25,182	1,550,893	566,709
Cumberland	11,449	10	58	259	59,707	52,084	43,384	8,700	175,020	122,936
Davidson	222,854	284	20,043	87,977	20,400,340	75,475,399	73,109,647	2,365,662	139,888,279	64,412,970
De Kalb	14,213	7	26	165	15,478	31,187	30,843	344	83,033	51,846
Diakson	18,491	24	391	1,404	131,307	603,279	584,051	19,228	1,105,691	502,412
Dyer	31,405	26	1,262	3,146	696,818	2,476,626	2,403,900	72,726	3,984,544	1,457,918
Fayette	28,891	6	11	125	8,009	32,845	31,627	1,318	64,151	31,306
Fentress	11,036	25	215	1,140	140,366	151,113	149,930	1,183	442,618	291,505

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

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

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) ¹	Horse-power ²	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		
<i>Counties</i> —Continued										
Franklin	21,796	29	339	7,101	\$299,859	\$899,098	\$630,597	\$268,501	\$1,049,423	\$1,050,325
Gibson	46,528	31	1,213	3,386	681,853	2,080,861	2,013,451	67,410	4,763,175	1,782,314
Giles	28,016	17	341	742	187,292	369,574	364,345	5,229	800,249	430,675
Granger	12,737	10	84	245	13,227	39,000	38,639	470	86,502	47,553
Greene	35,119	19	268	1,343	213,309	1,461,505	1,434,066	27,439	2,253,650	792,145
Grundy	9,717	13	284	749	196,919	293,567	149,079	54,478	585,790	382,203
Hamblen	16,616	32	499	2,841	319,147	2,401,621	2,354,029	47,592	3,409,523	1,007,022
Hamilton	169,497	271	21,033	81,017	20,241,221	61,985,990	58,483,180	3,502,810	114,309,637	52,323,476
Hardeman	22,193	13	56	613	40,084	96,327	94,942	1,385	221,223	124,896
Hardin	16,213	10	63	423	33,721	50,080	49,850	230	178,018	127,938
Hawkins	24,117	10	38	389	21,558	185,128	183,200	1,928	248,040	62,912
Haywood	26,063	15	105	464	60,836	223,156	214,399	8,757	522,032	298,876
Henry	26,432	24	872	1,273	870,840	941,806	905,795	36,011	2,741,146	1,790,340
Humphreys	12,039	16	97	458	57,135	283,653	279,958	3,695	432,405	148,752
Jefferson	17,914	15	81	558	37,205	293,497	288,517	4,980	434,630	141,133
Johnson	12,209	8	127	907	97,092	169,952	169,252	700	369,467	199,515
Knox	155,902	189	15,865	63,998	14,626,699	36,362,790	34,739,378	1,623,412	68,995,323	32,632,636
Lauderdale	23,406	17	225	745	155,053	299,276	289,483	9,793	770,173	470,897
Lawrence	26,776	45	176	1,221	112,276	389,350	384,201	5,149	695,185	275,855
Lewis	5,258	12	55	275	31,847	41,274	41,274	—	110,711	69,437
Lincoln	25,422	20	261	1,894	140,913	1,326,018	1,294,165	31,853	1,872,831	546,813
London	17,805	21	5,225	4,614	2,965,585	10,419,433	10,195,682	223,751	15,796,293	5,376,770
McMinn	29,019	36	2,286	3,400	2,154,780	2,408,721	2,326,849	81,872	5,607,061	3,198,340
McNairy	19,901	7	30	205	16,495	19,316	18,900	416	56,840	37,524
Macon	13,872	7	27	217	14,341	31,006	30,926	80	78,425	47,419
Madison	51,059	46	2,881	13,079	2,714,523	6,390,878	6,145,359	245,519	12,255,603	5,894,725
Marion	17,549	19	1,055	12,777	12,777	979,529	968,116	311,413	2,154,888	2,154,888
Marshall	15,574	17	312	1,868	278,311	1,977,205	1,939,560	37,705	2,752,424	775,159
Maurry	34,016	37	542	3,057	405,985	2,418,115	2,211,424	206,691	4,247,129	1,820,014
Meligs	6,127	20	84	434	50,730	79,640	79,640	—	199,450	119,810
Monroe	21,377	41	911	3,952	664,197	1,303,878	1,252,486	51,392	2,646,280	1,342,402
Montgomery	30,882	28	600	3,086	398,487	3,204,113	3,213,991	50,122	5,125,722	1,801,609
Obion	29,086	24	868	1,066	584,998	2,790,709	2,761,838	28,871	4,760,278	1,969,569
Overton	18,079	20	123	528	82,707	117,537	117,507	30	338,888	221,351
Perry	7,147	10	162	364	120,850	66,511	62,761	3,750	241,293	174,692
Pickett	5,615	6	20	129	12,520	23,951	23,951	—	53,250	29,299
Putnam	23,759	32	614	1,568	337,054	1,022,483	1,005,439	17,044	1,985,611	963,128
Rhea	13,871	17	636	1,120	345,848	739,181	706,460	32,721	1,383,107	643,926
Roane	24,477	36	1,902	10,065	1,221,875	4,006,428	3,248,504	817,924	6,284,263	2,217,825
Robertson	28,191	19	373	1,415	261,403	813,795	784,996	28,799	1,429,270	615,475
Rutherford	32,286	31	679	2,262	444,385	3,288,639	3,238,858	49,781	5,165,420	1,876,781
Scott	14,080	18	700	3,235	473,043	3,204,433	458,547	14,496	1,784,885	1,311,842
Sevier	20,480	21	226	1,290	101,658	435,514	424,456	9,058	723,053	280,630
Shelby	306,482	473	19,521	137,088	20,747,405	113,214,594	111,355,762	1,858,832	101,094,645	78,480,651
Smith	15,473	11	62	409	39,104	143,246	136,761	6,485	287,090	143,844
Sullivan	51,087	54	4,238	20,315	3,826,561	10,386,159	9,637,684	748,475	10,420,635	9,034,476
Sumner	28,622	21	744	1,243	466,514	484,514	466,360	18,164	710,780	226,260
Tipton	27,498	11	129	1,100	106,595	584,258	551,871	32,387	958,006	373,748
Trousdale	5,029	10	93	251	127,825	127,825	122,755	5,070	312,662	184,837
Unicoi	12,678	9	772	3,993	988,855	1,572,560	1,214,366	358,194	3,034,555	1,461,995
Union	11,371	5	15	92	6,000	9,925	9,925	—	29,000	19,075
Warren	20,209	42	803	2,562	420,284	989,951	965,603	24,288	1,918,813	928,862
Washington	45,805	54	2,199	9,669	1,828,834	6,984,278	6,569,297	414,981	11,004,098	4,010,820
Wayne	12,134	22	180	1,148	140,307	161,730	159,914	1,816	436,026	275,166
Weakley	29,262	30	431	895	196,337	416,995	409,697	7,298	847,174	430,170
White	15,543	16	220	838	120,860	408,417	396,715	11,702	750,223	341,866
Williamson	22,845	12	82	792	69,368	79,274	757,537	11,737	1,105,674	336,400
Wilson	23,020	28	417	1,662	257,854	1,255,700	1,228,228	27,472	1,900,576	644,876
All other counties	216,517	144	6,567	50,702	5,971,226	24,829,785	22,003,954	2,735,831	41,926,647	17,096,862
<i>Cities having 10,000 inhabitants or more</i>										
Bristol, Tennessee, and Virginia, total	20,845	63	2,812	8,313	2,375,218	8,214,168	7,873,531	340,637	13,776,091	5,561,923
Bristol, Tenn.	12,005	17	430	699	316,173	1,530,913	1,482,462	48,451	2,805,914	1,275,001
Bristol, Va.	8,840	46	2,382	7,614	2,059,045	6,683,255	6,391,069	292,186	10,970,177	4,286,922
Chattanooga	119,798	215	17,362	61,980	17,137,916	55,022,800	52,158,293	2,864,507	101,060,834	46,038,084
Jackson	22,172	33	1,250	6,165	1,246,270	3,048,889	2,897,746	151,143	6,451,160	3,402,271
Johnson City	25,080	35	2,141	9,112	1,788,882	6,740,839	6,329,903	410,936	10,639,366	8,868,627
Kingsport	11,014	25	3,714	27,823	3,408,286	8,303,458	7,608,954	694,504	15,864,762	7,561,364
Knoxville	105,802	182	15,558	68,360	14,289,793	35,444,900	34,181,862	1,263,038	66,777,980	31,333,080
Memphis	263,143	427	15,921	115,668	16,712,221	99,856,718	97,823,560	1,633,158	189,702,182	70,845,464
Nashville	153,866	256	14,179	44,736	14,534,280	65,853,567	64,298,473	1,554,994	111,122,235	45,268,768

¹ Not including salaried employees.
² Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.
³ 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.
⁴ For statistics by industries for this county, see Table 13.
⁵ Anderson, Blount, Chester, Crockett, Decatur, Hancock, Henderson, Hickman, Houston, Jackson, Lake, Moore, Morgan, Polk, Sequatchie, Stewart, and Van Buren Counties. See footnote 3.
⁶ For statistics by industries for this city, see Table 14.

SUMMARY FOR TENNESSEE

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 EMPLOYERS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 ¹	143,915	107,714	36,201	1,895	1,862	33	1,783	1,721	62	11,837	9,117	2,720	128,400	95,014	33,386
1919 ¹	113,300	91,611	21,689	4,892	4,754	138	1,798	1,720	78	11,443	8,950	2,493	95,167	76,187	18,980
1914 ¹	88,514	76,573	11,941	5,142	5,068	74	1,305	1,276	29	7,694	6,543	1,151	74,373	63,686	10,687
1909	87,672	77,277	10,395	5,415	5,303	112	1,216	1,203	13	7,201	6,123	1,078	73,840	64,648	9,192

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

² Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 217; male, 215; female, 2. Other salaried officers and employees—total, 1,069; male, 771; female, 298.

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

⁴ 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 ¹	128,400	125,744	125,838	127,093	127,376	124,556	127,441	129,010	133,373	134,885	133,075	129,401	124,462	91.7
1919 ¹	95,167	90,230	88,865	89,448	90,168	90,739	90,056	94,498	97,805	100,363	102,593	109,429	108,810	85.6
1914 ¹	74,373	73,538	74,236	76,116	77,312	76,040	76,450	76,034	76,047	75,559	72,672	70,209	68,405	88.2
1909 ¹	73,840	69,395	69,974	71,073	70,666	69,713	70,123	71,155	74,956	78,850	80,011	80,876	79,537	85.9

¹ 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	2,855	128,400	45 and over but under 48	68	2,610
Not reported	803	2,759	48	270	21,969
Under 40	45	501	Over 48 but under 54	345	25,001
40	46	2,736	54	133	5,441
Over 40 but under 44	11	439	Over 54 but under 60	418	48,777
44 and over but under 45	181	2,754	60 and over	535	14,753

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	2,855	4,589	4,609	128,400	95,167	73,840	51 to 100	200	195	153	14,330	14,282	10,870
No wage earners	41	668	300				101 to 260	188	166	116	30,131	26,609	17,173
1 to 5	1,454	2,390	2,505	4,721	4,988	6,214	251 to 500	04	42	27	22,987	14,224	9,175
6 to 20	585	784	1,174	6,360	8,676	12,403	501 to 1,000	21	17	9	13,795	11,634	6,301
21 to 50	280	324	318	9,499	10,860	10,401	1,001 to 2,500	15		1	26,571	5,088	1,303
							2,501 and over	1	3				

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

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 ¹				
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909		
All establishments.....	2,855	4,589	4,609	128,400	95,107	73,840	\$730,508,612	\$556,253,162	\$180,216,548	\$322,808,062	\$211,486,432	\$76,200,714		
Less than \$5,000.....	(²)	1,455	2,082	(²)	1,301	5,541	(²)	3,546,516	4,040,418	(²)	2,103,474	3,058,539		
\$5,000 to \$19,999.....	1,201	1,411	1,352	4,004	4,427	8,675	12,077,738	14,711,027	13,380,348	7,030,830	7,969,122	7,335,137		
\$20,000 to \$99,999.....	812	969	789	8,595	11,346	16,379	37,321,048	43,701,809	34,700,071	20,384,421	20,824,791	15,749,778		
\$20,000 to \$49,999.....	515	(³)	(³)	4,046	(³)	(³)	16,388,202	(³)	(³)	9,665,396	(³)	(³)		
\$50,000 to \$99,999.....	297	(³)	(³)	4,549	(³)	(³)	20,932,846	(³)	(³)	10,710,025	(³)	(³)		
\$100,000 to \$499,999.....	506	508	369	27,856	27,181	37,822	118,871,814	120,787,584	96,928,666	58,000,559	54,241,775	40,751,742		
\$100,000 to \$249,999.....	310	(³)		11,934	(³)		51,027,807	(³)		26,097,355	(³)		72,545,994	(³)
\$250,000 to \$499,999.....	187	(³)		15,922	(³)		67,844,007	(³)		31,903,204	(³)		31,903,204	(³)
\$500,000 to \$999,999.....	170	132		23,137	17,791		118,269,178	92,035,250		53,045,045	38,453,373			
\$1,000,000 and over.....	166	114	17	64,808	33,121	6,423	443,068,834	281,470,976	30,567,046	184,437,207	87,893,897	9,305,518		
\$1,000,000 to \$2,499,999.....	110	(³)	(³)	26,623	(³)	(³)	172,819,524	(³)	(³)	72,545,994	(³)	(³)		
\$2,500,000 to \$4,999,999.....	35	(³)	(³)	21,519	(³)	(³)	122,755,955	(³)	(³)	48,488,177	(³)	(³)		
\$5,000,000 and over.....	15	(³)	(³)	16,666	(³)	(³)	148,393,355	(³)	(³)	63,403,030	(³)	(³)		

¹ 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.

² No data.

³ 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.....	2,855	4,589	128,400	95,167	\$730,508,612	\$556,253,162	\$322,808,062	\$211,486,432
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1,281	1,286	115,274	79,334	673,353,597	474,208,615	294,852,950	177,762,600
Other forms of ownership or control (individual, partnership, etc.).....	1,574	3,303	13,126	15,833	57,155,015	82,044,547	28,045,112	33,723,742
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	440	(¹)	63,064	(¹)	385,823,642	(¹)	167,607,219	(¹)
Independent (single-unit).....	2,415	(¹)	65,336	(¹)	344,684,970	(¹)	155,200,843	(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 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.....	606,704	264,101	1,705	161,281	144	89,993	194	8,832	103	3,995	32,710	342,603	15,390	122,975		
1927.....	476,243	235,559	1,289	158,538	96	67,163	144	6,821	123	3,337	23,985	239,684	6,992	97,041		
1925.....	447,529	240,774	1,532	170,958	89	60,855	139	5,091	97	3,870	18,616	206,755	4,121	60,440		
1919 ¹	338,732	240,458	2,888	204,408	73	22,798	547	5,718	297	7,534	8,469	98,274	2,282	33,137		
1914 ¹	286,844	228,986	3,581	216,156	(²)	(²)	346	3,435	385	9,395	4,509	57,858	1,474	26,249		
Counties in which aggregate horsepower exceeded 25,000: 1929																
Davidson.....	87,977	42,806	116	16,095	31	26,613	4	98			5,169	45,171	5,848	14,179		
Hamilton.....	81,917	15,903	96	15,193	5	500	7	180	4	120	7,466	66,014	419	5,452		
Knox.....	63,998	22,576	112	16,712	18	5,234	6	425	4	205	6,218	41,422	630	6,819		
Polk.....	26,353	6,157	16	3,814	3	2,274	2	69			788	20,196				
Shelby.....	137,088	60,378	280	42,144	38	16,910	13	1,324			4,099	76,710	3,982	52,462		
Sullivan.....	29,315	9,538	29	2,953	5	6,390			7	195	1,780	19,777	440	16,362		

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.

TABLE 10.—HORSEPOWER OF PRIME MOVERS AND 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 5 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy ¹
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	606,704	264,101	842,008	122,975	Lincoln.....	1,894	1,492	402	686
Bedford.....	2,464	538	1,020		Loudon.....	4,014	630	3,984	
Benton.....	155	155			McMinn.....	3,460	1,251	2,209	545
Bledsoe.....	141	75	60		McNairy.....	205	202	3	
Bradley.....	5,090	2,582	2,508	2,049	Macon.....	217	215	2	
Campbell.....	1,718	1,603	115	(?)	Madison.....	13,079	10,625	2,453	6,460
Cannon.....	128	90	38		Marion.....	12,777	4,620	8,157	115
Carroll.....	1,203	1,007	196		Marshall.....	1,868	1,168	700	480
Carter.....	14,007	12,060	1,017	10,023	Maury.....	3,057	1,222	1,835	249
Cheatham.....	125	125	(?)		Meigs.....	434	434		
Claborn.....	217	106	21		Monroe.....	3,952	2,131	1,821	1,078
Clay.....	116	116			Montgomery.....	3,080	2,250	836	391
Cooke.....	2,162	2,007	155	305	Obion.....	1,006	708	298	335
Coffee.....	2,362	2,004	358		Overton.....	525	500	28	
Cumberland.....	259	176	83		Perry.....	304	304		
Davidson.....	87,977	42,806	45,171	14,170	Pickett.....	129	129		
De Kalb.....	165	133	32		Pfaff.....	1,508	1,232	336	
Dickson.....	1,404	1,187	217		Rhea.....	1,120	676	444	450
Dyer.....	3,146	2,043	1,103	(?)	Roane.....	10,065	9,490	575	4,285
Fayette.....	125	120	5		Robertson.....	1,415	719	696	
Fentress.....	1,146	1,146			Rutherford.....	2,262	1,170	1,092	225
Franklin.....	7,101	545	6,556	30	Scott.....	3,235	3,100	76	2,472
Gibson.....	3,386	2,400	925	440	Sevier.....	1,299	1,093	293	
Giles.....	742	650	92		Shelby.....	137,088	60,378	76,710	52,402
Granger.....	245	245			Smith.....	409	175	234	
Greene.....	1,343	928	415	202	Sullivan.....	20,315	9,533	10,777	10,302
Grundy.....	749	728	21		Sumner.....	744	373	371	
Hamblen.....	2,841	1,498	1,343	36	Tipton.....	1,100	910	190	
Hamilton.....	81,017	15,903	66,014	5,452	Trousdale.....	251	148	103	
Hardeman.....	613	576	37		Unicoi.....	3,903	1,110	2,883	
Hardin.....	423	423	(?)		Union.....	92	92		
Hawkins.....	380	380			Warren.....	2,562	1,905	657	307
Haywood.....	464	250	214		Washington.....	9,609	3,455	6,234	630
Henry.....	1,273	590	683	192	Wayne.....	1,148	1,144	4	
Humphreys.....	458	327	131		Weakley.....	895	780	115	
Jefferson.....	558	373	185		White.....	838	583	255	
Johnson.....	907	880	27		Williamson.....	792	672	120	63
Knox.....	63,998	22,576	41,422	6,819	Wilson.....	1,002	481	1,181	(?)
Lauderdale.....	745	640	105		All other counties.....	50,702	14,545	30,157	1,499
Lawrence.....	1,221	1,025	196						
Lewis.....	275	275	(?)						

¹ Horsepower of electric motors driven by energy generated in establishments reporting.
² Included in total for State, not shown separately to avoid disclosing data for a single establishment.
³ 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 ¹	1923 ¹	1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total ² (tons, 2,000 pounds).....	2,641,162	\$6,844,161	2,504,531	2,547,719	2,744,706	1,833,081	1,097,265
Anthracite (tons, 2,240 pounds).....	14,084	63,237	(?)	24,520	5,075	2,231	14,115
Bituminous (tons, 2,000 pounds).....	2,624,706	6,780,924	(?)	2,520,267	2,738,350	1,830,582	1,081,460
Coke (tons, 2,000 pounds).....	285,386	1,545,217	(?)	(?)	475,310	371,045	691,282
Fuel oils, including crude oils and gas oils (gallons) ³	11,024,209	631,004	(?)	(?)	4,195,753	2,692,746	2,734,536
Gasoline and kerosene (gallons) ⁴	445,058	77,285	(?)	(?)	485,234		
Gas, natural (M cubic feet).....	342,507	143,633	(?)	(?)			
Gas, manufactured (M cubic feet).....	1,135,684	193,641	(?)	(?)	161,550	60,634	15,809
Other fuels.....		280,601	(?)	(?)	(?)	(?)	(?)
Electric energy purchased (kilowatt-hours).....	1,050,495,981	7,634,534	(?)	(?)	(?)	(?)	(?)
Total cost of fuel and purchased energy.....		\$17,355,970	Cost \$15,061,487	Cost \$14,214,702	Cost \$14,214,702	Cost \$5,128,963	Cost \$6,161,450

¹ No data on cost of fuel, by kinds, were collected for years prior to 1929.
² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.
³ Not tabulated separately.
⁴ No data.
⁵ For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.
⁶ Data incomplete.
⁷ 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 establishment.
⁸ 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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	2,855	13,020	128,400	264,101	342,603	\$33,203,137	\$115,877,077	\$300,520,831	\$17,089,719	\$730,508,612	\$322,898,002
Awnings, tents, sails, and canvas covers.....	11	23	59	-----	34	55,836	74,213	251,994	2,198	503,936	249,744
Bags, other than paper, not made in textile mills.....	5	79	696	-----	1,873	179,040	479,765	8,304,716	27,800	9,467,649	1,075,133
Belting, leather.....	7	15	26	-----	62	27,071	35,500	140,672	2,122	267,427	118,633
Beverages.....	93	133	657	2,683	1,294	382,473	737,959	2,019,815	71,512	5,589,805	3,498,538
Boots and shoes, other than rubber.....	5	168	2,116	214	1,204	409,270	1,538,976	0,248,378	51,579	10,982,577	4,682,620
Boxes, paper, not elsewhere classified.....	12	84	722	225	755	278,279	600,910	1,926,997	33,923	3,282,998	1,322,078
Boxes, wooden, except cigar boxes.....	10	66	1,001	2,660	669	166,081	704,276	1,417,580	15,467	2,627,856	1,194,850
Bread and other bakery products.....	131	230	2,124	410	3,044	438,618	2,126,581	6,194,173	222,206	13,939,048	7,522,069
Brooms.....	10	1	55	2	43	(*)	42,325	84,810	979	187,505	101,716
Butter.....	36	116	249	467	1,996	201,991	311,234	6,860,320	90,981	8,056,822	1,104,621
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	57	65	800	1,340	524	129,375	314,435	2,139,030	43,333	3,011,242	1,427,985
Car and general construction and repairs, electric-railroad repair shops.....	6	20	293	-----	837	41,750	384,914	220,228	16,992	663,884	420,604
Car and general construction repairs, steam-railroad repair shops.....	23	561	8,955	8,390	16,508	1,399,490	13,432,581	9,926,748	725,273	25,484,092	14,832,071
Carriages, wagons, sleighs, and sleds.....	4	18	93	165	170	39,528	72,012	169,463	8,117	365,879	188,290
Caskets, coffins, burial cases, and other morticians' goods.....	15	65	535	860	698	170,691	509,827	1,078,934	30,607	2,415,387	1,305,846
Cast-iron pipe.....	5	41	1,363	575	1,246	98,819	1,462,719	1,737,193	191,323	4,523,548	2,595,032
Cement.....	6	138	669	4,545	32,689	462,464	893,782	1,761,134	1,279,933	5,737,920	3,690,862
Cereal preparations.....	7	43	113	36	495	101,747	108,796	4,890,087	10,460	5,596,189	695,642
Cheese.....	8	4	23	68	82	5,657	16,091	505,642	6,937	596,062	85,073
Chemicals, not elsewhere classified.....	8	197	1,360	530	11,620	509,463	1,901,489	5,465,641	2,109,600	18,819,780	11,244,542
Clay products (other than pottery) and nonclay refractories.....	28	135	1,205	3,115	5,750	250,320	947,083	121,425	429,997	2,786,437	2,236,015
Cleaning and polishing preparations.....	5	7	13	-----	36	11,129	9,239	43,937	1,241	91,498	40,320
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....)	11	132	1,273	722	133	198,629	713,693	1,630,764	31,077	3,219,095	1,558,154
Clothing, women's, not elsewhere classified.....	10	49	550	3	107	118,823	232,242	609,847	9,185	1,313,098	694,036
Clothing, work (including sheep-lined and blanket-lined work coats, but not including shirts, men's.....)	15	98	1,631	15	338	260,915	833,830	4,067,673	24,604	6,025,645	1,933,368
Coffee and spice, roasting and grinding.....	21	107	314	-----	1,481	295,280	256,102	9,957,052	63,516	13,171,638	3,150,470
Compressed and liquefied gases.....	9	42	40	300	679	81,066	67,657	71,560	43,755	158,970	483,655
Concrete products.....	27	62	262	73	697	149,014	246,129	363,933	20,459	5,037,000	770,095
Condensed and evaporated milk.....	5	26	156	555	448	40,178	172,436	3,334,368	45,146	4,788,776	1,400,202
Confectionery.....	22	126	773	309	1,096	332,917	607,932	2,626,549	52,847	5,096,789	2,417,393
Cooperage.....	13	15	238	328	378	34,446	171,887	343,740	11,828	642,222	280,654
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	19	38	188	-----	281	104,563	187,500	974,317	13,375	1,579,347	591,655
Cotton goods.....	20	264	7,644	8,782	25,551	577,580	5,158,625	16,010,237	809,349	26,173,993	9,354,407
Druggists' preparations.....	6	54	102	-----	73	151,313	86,127	793,458	4,074	1,719,212	621,080
Dyeing and finishing textiles.....	7	139	3,563	175	4,386	377,606	2,321,081	9,830,202	264,059	15,993,816	5,800,555
Electrical machinery, apparatus, and supplies.....	4	31	373	6	609	129,025	337,287	724,102	24,028	1,797,239	1,049,109
Engraving, steel and copperplate, and plate printing.....	4	13	17	-----	11	14,131	22,549	16,686	1,070	72,559	54,803
Feeds, prepared, for animals and fowls.....	18	240	534	725	8,182	508,217	500,730	20,421,127	127,070	24,681,882	5,433,685
Fertilizers.....	10	102	698	45	5,631	224,221	521,380	4,243,843	83,673	7,061,986	2,734,470
Flavoring extracts and flavoring sirups.....	5	17	13	-----	32	40,035	17,637	188,447	1,452	416,086	226,187
Flour and other grain-mill products.....	223	322	931	11,695	6,892	729,774	897,304	22,298,661	239,471	28,600,464	6,062,332
Food preparations, not elsewhere classified.....	9	22	99	71	190	44,764	61,964	1,088,262	10,691	1,454,924	355,971
Foundry and machine-shop products, not elsewhere classified.....	62	508	3,415	571	16,067	1,347,220	3,858,091	7,134,537	410,026	17,303,033	9,703,470
Furniture, including store and office fixtures.....	50	272	3,410	4,292	4,968	723,228	2,723,445	4,507,132	166,459	10,164,720	5,491,129
Gas, manufactured, illuminating and heating.....	7	203	575	2,099	778	338,293	566,086	611,460	443,010	3,700,270	2,045,810
Hand stamps and stencils and brands.....	3	5	14	-----	12	9,509	12,364	18,437	1,147	55,236	35,652
Ice cream.....	48	90	258	109	2,498	232,968	304,279	1,489,022	85,708	3,304,841	1,730,111
Ice, manufactured.....	122	247	949	12,755	7,452	461,984	918,216	206,339	567,113	4,323,450	3,549,998
Iron and steel: Blast furnaces.....	5	27	450	11,799	3,427	74,551	338,412	1,208,097	993,681	3,100,771	898,993
Knit goods.....	65	661	17,839	2,389	9,856	1,838,107	11,377,348	26,168,198	520,600	48,406,388	21,717,690
Labels and tags.....	3	3	21	-----	14	9,800	35,606	38,969	2,570	121,070	79,541
Leather: Tanned, curried, and finished.....	5	26	464	2,625	1,648	69,892	409,462	2,703,249	62,774	3,437,570	671,547
Lime.....	10	38	377	895	2,252	107,007	326,533	144,067	178,660	1,125,816	803,189
Lumber and timber products, not elsewhere classified.....	614	669	10,304	41,225	4,233	1,874,188	8,053,163	13,221,953	206,434	32,004,611	19,176,224
Marble, granite, slate, and other stone products.....	31	166	1,464	1,050	9,419	515,013	1,818,232	2,409,988	204,061	6,841,449	4,227,400
Mattresses and bed springs, not elsewhere classified.....	13	79	438	-----	709	216,416	356,622	1,317,000	20,375	2,400,168	1,062,783
Meat packing, wholesale.....	13	190	697	2,016	1,643	492,335	823,334	14,018,963	122,021	16,873,193	2,732,209
Mirrors, framed and unframed.....	4	13	79	-----	50	28,512	73,487	263,500	8,427	510,886	238,958
Motor-vehicle bodies and motor-vehicle parts.....	11	236	3,419	12,009	48,486	512,295	3,409,123	8,644,850	175,264	19,088,798	10,208,684
Oil, cake, and meal, cottonseed.....	20	149	1,146	13,320	4,226	379,870	742,304	15,570,526	378,433	18,593,558	2,554,599
Paints and varnishes.....	13	77	129	370	1,025	181,240	131,085	1,099,407	21,176	1,827,003	736,421
Paper.....	6	74	468	16,130	3,745	217,260	673,750	2,374,227	234,310	4,547,551	1,939,014
Pulp (wood and other fiber).....	5	48	477	-----	164	132,341	489,745	3,150,023	186,203	5,815,077	2,348,851
Paper goods, not elsewhere classified.....	5	12	46	-----	14	31,094	50,918	387,357	6,183	638,974	245,434
Patent or proprietary medicines and compounds.....	34	323	444	280	923	755,097	325,244	1,705,918	24,491	6,062,802	4,332,393
Perfumes, cosmetics, and other toilet preparations.....	18	306	466	-----	482	593,596	480,983	1,670,692	15,483	5,515,556	3,829,381
Photo-engraving, not done in printing establishments.....	8	17	78	-----	95	54,833	175,675	38,356	6,503	403,757	358,898

See footnotes at end of table.

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

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 ¹	Cost of fuel and purchased electric energy	Value of products ¹	Value added by manufacture ²
				Prime movers	Electric motors driven by purchased energy						
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	124	517	3,701	16,850	7,381	\$1,529,913	\$3,285,058	\$11,081,021	\$168,914	\$10,487,762	\$8,247,827
Poultry killing, dressing, and packing, wholesale.....	9	23	112	225	343	45,429	90,303	1,810,326	12,269	2,230,413	407,818
Printing and publishing, book and job.....	127	398	1,418	25	1,892	948,905	1,920,044	2,649,996	88,204	7,826,180	5,087,980
Printing and publishing, newspaper and periodical.....	148	1,300	2,038	90	3,611	2,472,639	3,107,217	3,922,719	184,404	17,587,051	13,479,838
Rayon and allied products.....	4	604	7,537	42,050	800	1,324,288	7,043,680	5,091,407	601,501	25,188,075	10,495,167
Saddlery and harness.....	11	39	223	50	284	73,598	210,195	894,575	7,205	1,449,836	548,060
Shirts.....	9	45	684	-----	173	116,001	300,048	1,324,974	15,634	3,510,363	1,169,755
Shortenings (not including lard) and vegetable cooking oils.....	6	88	387	1,593	2,807	186,928	344,659	23,677,461	136,794	20,568,489	2,754,234
Signs and advertising novelties.....	10	31	125	-----	65	77,397	131,066	207,636	7,232	627,763	412,895
Silk and rayon manufactures.....	6	34	667	-----	850	69,982	321,142	491,720	20,361	1,187,332	606,245
Sporting and athletic goods, not including firearms or ammunition.....	4	13	129	195	146	23,120	95,211	160,296	4,832	361,370	100,248
Sterotyping and electrotyping, not done in printing establishments.....	3	7	44	15	120	28,770	64,748	28,407	3,353	191,163	159,403
Stoves and ranges (other than electric) and warm-air furnaces.....	17	280	2,771	55	5,307	622,829	2,728,008	3,811,728	215,585	10,251,063	6,223,750
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	12	145	920	-----	3,289	452,441	1,115,637	3,992,435	57,709	6,729,941	2,079,737
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	3	16	209	2,220	-----	48,983	185,437	500,066	83,085	916,705	327,554
Textile machinery and parts.....	4	4	22	100	70	4,749	29,450	52,856	909	109,210	55,446
Tobacco: Chewing and smoking, and snuff.....	11	84	1,007	2,121	334	270,182	754,662	8,347,079	62,771	16,871,822	8,461,372
Tools, not including edge tools, machine tools, files, or saws.....	4	23	165	500	447	72,892	151,460	593,629	15,990	1,002,275	362,647
Wood distillation and charcoal manufacture.....	3	88	665	1,890	3,875	266,215	674,449	1,118,884	204,170	3,371,810	2,048,265
Wood turned and shaped and other wooden goods, not elsewhere classified.....	52	147	1,222	6,021	1,000	319,144	681,834	2,167,198	26,127	4,796,369	2,603,044
Woolen goods.....	8	93	1,638	1,878	1,683	284,930	1,104,245	2,396,032	83,442	4,544,686	2,066,212
Other industries.....	149	1,142	12,810	18,604	47,397	2,044,684	12,540,789	45,951,229	2,666,843	88,948,559	40,330,487

¹ 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.

² 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.

³ Not including data for 1,286 employees of central administrative offices, with salaries aggregating \$4,107,758. See GENERAL EXPLANATIONS—Persons Engaged.

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

⁵ Includes item for the "Iron and steel: Steel works and rolling mills" industry. All data for that industry except those for power are included in the "Other industries" items to avoid disclosing the figures reported for an individual establishment.

CENSUS OF MANUFACTURES: 1929

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

[This table presents, 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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						

DAVIDSON 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, "Rayon and allied 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.....	284	2,811	20,043	42,806	45,171	\$6,638,998	\$20,490,340	\$73,109,647	\$2,365,662	\$130,888,270	\$64,412,070
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HAMILTON COUNTY

All industries, total.....	271	2,126	21,033	15,003	66,014	\$5,589,164	\$20,241,221	\$58,483,180	\$3,502,810	\$114,309,037	\$52,323,647
Beverages.....	5	17	68	720	140	55,671	87,928	239,344	8,164	749,160	501,652
Boxes, paper, not elsewhere classified.....	3	34	387	429	429	102,177	361,873	1,170,094	17,224	1,760,496	579,177
Bread and other bakery products.....	14	42	365	100	399	105,435	342,986	918,386	30,987	2,091,484	1,112,111
Chemicals, not elsewhere classified.....	3	19	130	355	87,211	110,911	427,948	308,114	1,325,391	589,331	
Clay products (other than pottery) and nonclay refractories.....	6	42	455	1,100	1,313	104,076	373,376	79,845	160,134	1,057,750	817,777
Concrete products.....	3	3	21	125	125	10,980	19,712	24,344	1,282	81,532	56,906
Foundry and machine-shop products, not elsewhere classified.....	23	314	2,208	125	13,346	801,208	2,496,561	4,672,074	273,925	11,151,792	6,205,103
Furniture, including store and office fixtures.....	5	41	662	1,122	134,175	523,137	690,191	34,833	1,876,311	1,151,287	
Ice cream.....	4	15	38	165	35,502	36,706	201,324	10,884	443,092	231,784	
Ice, manufactured.....	5	9	38	757	15,245	63,945	11,615	40,770	352,700	300,321	
Knit goods.....	19	202	4,751	37	2,468	600,258	3,615,613	8,557,810	128,142	16,566,519	7,880,567
Lumber and timber products, not elsewhere classified.....	25	14	210	1,033	46,800	139,069	274,901	350	596,055	320,804	
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	9	35	136	619	727	88,369	211,391	525,780	15,097	981,086	441,100
Printing and publishing, book and job.....	20	48	111	160	113,491	171,920	216,479	8,892	834,057	608,086	
Stoves and ranges (other than electric and warm-air furnaces).....	5	68	666	1,016	206,239	687,714	1,295,709	45,594	2,872,796	1,531,493	
Wood turned and shaped and other wooden goods, not elsewhere classified.....	3	11	58	350	106	22,808	49,150	154,420	788	350,971	105,763
Other industries.....	119	1,212	10,689	11,069	43,372	3,059,519	10,949,199	39,022,309	2,417,630	71,240,634	29,800,695

KNOX COUNTY

All industries, total.....	180	1,461	15,865	22,576	41,422	\$4,030,943	\$14,626,599	\$34,730,378	\$1,623,412	\$68,995,325	\$32,032,535
Beverages.....	4	8	64	50	54	27,176	72,070	191,171	4,278	489,702	204,253
Bread and other bakery products.....	9	25	264	313	313	57,007	261,485	600,215	27,213	1,246,521	613,093
Concrete products.....	4	17	97	265	265	90,521	87,941	101,166	6,835	365,056	257,984
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	7	26	8	8	14,160	21,403	51,962	854	104,717	51,901
Foundry and machine-shop products, not elsewhere classified.....	12	85	458	115	1,397	256,305	506,298	828,983	34,256	2,096,602	1,233,363
Furniture, including store and office fixtures.....	9	45	610	937	293	118,318	443,440	840,290	23,138	1,730,953	808,516
Ice, manufactured.....	5	21	62	402	675	46,546	89,020	16,209	53,923	347,929	277,797
Knit goods.....	5	120	3,782	1,122	3,559	329,127	2,475,788	5,182,436	142,556	9,493,044	4,108,052
Lime.....	4	18	156	400	644	53,027	148,303	61,706	88,592	480,080	336,382
Lumber and timber products, not elsewhere classified.....	3	34	483	1,256	716	128,299	513,642	1,287,072	22,650	2,561,754	1,252,032
Marble, granite, slate, and other stone products.....	11	127	1,240	575	8,504	405,918	1,500,498	2,184,387	170,408	5,983,055	3,577,760
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	13	67	284	1,089	953	184,043	289,140	619,127	23,140	1,770,617	828,350
Printing and publishing, book and job.....	20	27	130	156	156	56,219	168,594	202,117	10,243	600,160	387,800
Signs and advertising novelties.....	4	4	30	11	11	12,965	32,960	45,602	833	125,569	70,134
Other industries.....	83	850	8,179	16,510	23,974	2,280,712	7,955,505	22,220,426	1,015,493	41,642,037	18,406,118

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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 13.—GENERAL STATISTICS FOR SELECTED COUNTIES, BY INDUSTRIES: 1929—Continued

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 ^a	Cost of fuel and purchased electric energy	Value of products ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
SHELBY COUNTY											
All industries, total.....	473	3,223	10,521	60,378	76,710	\$8,075,174	\$20,747,405	\$11,355,702	\$1,858,832	\$101,604,045	\$78,480,051
Awings, tents, sails, and canvas covers.....	5	0	24	-----	23	31,316	36,701	142,027	000	278,880	133,953
Belting, leather.....	4	8	7	-----	24	14,200	12,705	52,116	768	103,372	50,488
Beverages.....	0	27	147	-----	287	94,732	150,388	449,138	11,852	1,320,205	859,175
Boxes, paper, not elsewhere classified.....	4	26	134	225	141	78,318	96,070	301,079	7,864	571,332	261,759
Bread and other bakery products.....	59	59	893	300	1,070	117,726	824,061	2,648,892	83,579	6,409,555	3,677,084
Car and general construction and repairs, steam-railroad repair shops.....	5	132	1,688	615	3,794	330,501	2,058,615	2,262,010	60,549	5,317,634	2,696,116
Caskets, coffins, burial cases, and other morticians' goods.....	5	19	103	235	31	47,106	119,239	348,210	4,635	696,334	343,480
Clay products (other than pottery) and nonclay refractories.....	3	14	139	250	298	38,060	100,075	12,769	41,722	298,198	213,707
Coffee and spice, roasting and grinding.....	7	52	146	-----	413	142,092	121,298	3,333,365	20,766	4,131,447	777,316
Compressed and liquefied gases.....	5	31	24	300	109	61,413	42,297	64,759	15,664	391,004	310,651
Concrete products.....	9	22	90	65	161	30,720	81,811	166,679	6,052	473,225	267,494
Confectionery.....	8	26	215	300	155	57,451	171,717	594,497	13,986	1,243,465	634,082
Cooperage.....	5	14	219	328	850	32,706	152,058	267,295	10,962	523,157	244,000
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	11	13	64	-----	58	20,163	84,302	680,722	4,487	898,717	263,506
Feeds, prepared, for animals and fowls.....	9	155	278	175	5,282	315,600	268,434	10,220,317	75,217	12,231,622	1,036,088
Flour and other grain-mill products.....	3	12	30	550	30	17,351	28,945	556,243	8,300	674,985	111,382
Foundry and machine-shop products, not elsewhere classified.....	14	80	366	325	609	202,457	461,577	826,877	28,061	2,350,271	1,405,333
Furniture, including store and office fixtures.....	6	85	758	1,100	731	205,571	610,138	1,020,328	20,868	2,193,502	1,134,306
Ice cream.....	11	12	44	-----	180	47,352	58,364	363,368	12,736	748,403	371,200
Ice, manufactured.....	15	58	360	4,020	1,217	122,410	349,007	21,176	172,121	1,405,509	1,212,302
Lumber and timber products, not elsewhere classified.....	23	220	2,086	9,719	737	824,532	2,000,548	4,004,047	48,025	10,707,199	5,754,227
Marble, granite, slate, and other stone products.....	5	11	30	-----	284	35,909	60,877	69,344	6,432	228,348	152,572
Oil, cake, and meal, cottonseed.....	14	108	949	11,222	3,485	305,991	590,482	13,048,710	318,301	15,444,743	2,077,732
Paints and varnishes.....	7	47	70	170	138	89,120	72,432	666,705	9,835	1,140,659	435,140
Patent or proprietary medicines and compounds.....	16	146	185	-----	450	217,061	126,009	654,090	8,240	1,640,198	977,859
Planing-mill products (including general millwork) not made in planing mills connected with sawmills.....	19	197	1,232	7,672	1,984	684,444	1,079,561	3,397,218	47,282	6,266,840	2,322,340
Printing and publishing, book and job.....	39	121	371	25	402	273,450	522,667	761,608	29,223	2,010,075	1,229,059
Printing and publishing, newspaper and periodical.....	8	343	450	-----	716	742,920	868,406	1,300,087	31,213	4,847,551	3,420,251
Wood turned and shaped and other wooden goods, not elsewhere classified.....	9	67	405	2,525	537	174,711	402,674	1,031,207	13,293	2,051,881	1,007,471
Other industries ¹	136	1,113	8,050	20,167	52,409	2,604,453	8,578,317	61,106,176	741,890	105,127,195	43,279,129

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹ The figures for this item include data for the "Motor-vehicle bodies and motor-vehicle parts" 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 approximations of the data for individual establishments.

CENSUS OF MANUFACTURES: 1929

TABLE 14.—GENERAL STATISTICS BY INDUSTRIES FOR KNOXVILLE AND NASHVILLE, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR CHATTANOOGA AND MEMPHIS: 1929

[This table presents, for Knoxville and Nashville, 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 ^a	Cost of fuel and purchased electric energy	Value of product ^a	Value added by manufacture ^b
				Prime movers	Electric motors driven by purchased energy						
CHATTANOOGA											
[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, "Knit goods"—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.....	215	1,879	17,362	13,525	48,455	\$4,955,343	\$17,137,916	\$52,158,293	\$2,804,507	\$101,060,834	\$46,038,084
KNOXVILLE											
All industries, total.....	182	1,399	15,558	21,882	36,478	\$3,831,566	\$14,289,703	\$34,151,802	\$1,293,038	\$66,777,080	\$31,333,080
Beverages.....	4	8	64	50	54	27,176	72,070	191,171	4,278	489,702	204,263
Bread and other bakery products.....	9	25	264	313	313	57,007	261,485	609,215	27,213	1,240,621	613,093
Concrete products.....	4	17	97	265	265	60,521	87,941	101,166	6,835	365,985	257,984
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	8	7	26	8	8	14,100	21,403	51,962	854	104,717	51,901
Foundry and machine-shop products, not elsewhere classified.....	12	85	458	115	1,397	256,305	505,298	828,083	34,256	2,096,602	1,233,363
Furniture, including store and office fixtures.....	9	45	610	937	283	118,318	443,446	840,299	22,138	1,730,953	868,510
Ice, manufactured.....	5	21	62	462	675	46,546	89,026	16,209	53,623	347,020	277,797
Knit goods.....	5	128	3,782	1,122	3,559	329,127	2,475,788	5,182,436	142,556	9,493,044	4,108,052
Lumber and timber products, not elsewhere classified.....	8	34	483	1,258	710	128,209	513,642	1,287,072	22,650	2,561,754	1,252,032
Marble, granite, slate, and other stone products.....	11	127	1,240	575	8,504	405,918	1,560,498	2,184,887	170,408	5,933,055	3,577,700
Planing-mill products (including general millwork), not made in planing mills connected with sawmills ¹	13	67	284	1,089	953	184,643	280,140	919,127	23,140	1,770,617	828,350
Printing and publishing, book and job.....	20	27	130	150	150	56,219	165,594	202,117	10,243	600,160	387,800
Signs and advertising novelties.....	4	4	30	11	11	12,066	32,900	45,602	833	125,560	70,134
Other industries ²	80	806	8,028	10,276	19,574	2,134,302	7,707,412	21,094,616	773,711	39,011,372	17,443,045
MEMPHIS											
[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—"Motor-vehicle bodies and motor-vehicle parts," as measured by number of wage earners, and "Motor vehicles, not including motor cycles," 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.....	427	2,742	15,921	46,713	68,955	\$7,193,621	\$16,712,221	\$67,823,500	\$1,533,158	\$169,702,182	\$70,345,464
NASHVILLE											
[The totals for all industries do not include data for a few establishments located outside the city (see footnote 3), and therefore are slightly smaller than the sums of the items for the individual industries.]											
All industries, total.....	256	2,353	14,179	10,783	33,953	\$5,580,446	\$14,534,280	\$64,298,473	\$1,554,994	\$111,122,235	\$45,268,768
Beverages.....	6	24	139	1,885	230	85,310	170,318	340,471	21,585	968,703	597,047
Bread and other bakery products ³	15	81	397	684	684	149,930	448,509	1,202,238	40,850	2,607,038	1,363,050
Butter.....	6	56	84	70	687	94,322	101,834	2,632,439	22,120	3,086,490	431,931
Car and general construction and repairs, steam-railroad repair shops.....	3	144	1,997	1,511	3,400	376,678	2,777,600	3,954,757	87,479	7,196,514	3,154,278
Cereal preparations ³	7	43	113	36	495	101,740	103,796	4,890,087	10,460	5,596,189	695,642
Coffee and spice, roasting and grinding.....	7	33	106	911	911	91,592	81,472	4,505,413	24,704	6,238,293	1,708,176
Concrete products ³	7	17	36	8	125	32,093	36,937	46,904	2,938	165,901	116,609
Flour and other grain-mill products.....	9	51	130	775	965	106,405	118,214	2,919,035	21,789	3,636,427	695,603
Foundry and machine-shop products, not elsewhere classified.....	4	3	43	139	139	3,980	55,908	42,370	6,441	153,899	105,088
Ice cream ³	6	17	58	738	738	49,979	81,480	338,761	20,767	824,805	465,277
Ice, manufactured ³	9	38	58	2,075	1,851	85,485	75,300	16,940	81,769	617,800	119,091
Mattresses and bed springs, not elsewhere classified.....	3	19	71	170	170	31,471	69,140	149,652	2,586	342,730	190,492
Patent or proprietary medicines and compounds ³	8	45	113	95	95	116,030	83,595	390,960	2,355	904,070	504,755
Printing and publishing, book and job.....	30	170	676	950	950	433,745	887,351	1,281,561	37,731	3,759,178	2,439,886
Printing and publishing, newspaper and periodical ³	20	519	881	85	1,510	991,621	1,274,541	1,637,772	93,645	7,497,906	5,860,480
Stoves and ranges (other than electric) and warm-air furnaces.....	3	97	947	1,826	1,826	228,464	841,523	955,871	96,055	3,289,613	2,237,687
Other industries.....	120	1,017	8,396	4,382	20,008	2,634,802	7,418,798	30,212,127	991,206	64,583,233	24,379,900

^a See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

^b 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.

¹ The items for the "Planing-mill products (including general millwork), not made in planing mills connected with sawmills" industry include data for 1 establishment located outside the city, to avoid disclosing the figures 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.

² See footnote 1.

³ The items for each of the 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.