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**REPORTS BY STATES**

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# ALABAMA

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers <sup>4</sup>	Fuel and purchased energy		
1920	2,848	119,559	785,330	400,224	385,106	\$102,004,881	\$302,253,388	\$260,853,732	\$41,399,656	\$500,378,132	\$258,124,744
1927	2,355	119,093	779,156	388,810	390,346	105,488,817	317,493,407	276,346,283	42,147,124	550,872,126	232,878,719
1925	2,349	116,599	697,998	413,522	284,476	101,242,830	325,684,194	( <sup>5</sup> )	( <sup>5</sup> )	552,824,044	227,139,850
1923	1,996	109,620	640,802	408,930	231,902	95,205,227	323,665,655	( <sup>5</sup> )	( <sup>5</sup> )	541,728,687	218,063,032
1921	1,856	82,748	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	66,747,237	186,407,328	( <sup>5</sup> )	( <sup>5</sup> )	302,808,591	116,401,263
1919	3,654	107,159	628,287	485,875	142,412	99,065,800	300,664,290	248,975,401	51,688,889	492,730,895	192,060,605
1914	3,242	78,717	445,604	389,204	56,400	33,896,871	107,411,434	89,489,186	17,922,208	178,707,633	71,386,189
1909	3,398	72,148	357,650	347,546	10,104	27,284,296	83,442,513	66,143,287	17,299,231	145,961,638	62,519,120
1904	1,882	62,173	293,091	291,643	1,448	21,878,451	60,458,368	52,285,024	8,172,444	109,169,922	48,711,554
1899	2,000	52,711	172,846	172,487	350	14,911,683	37,098,233	( <sup>7</sup> )	( <sup>7</sup> )	72,100,929	34,111,696
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	20.9	0.4	0.8	-2.9	-1.3	-3.3	-4.8	-5.3	-1.8	1.8	10.8
1925-1927	0.3	2.1	11.6	-4.0	37.2	4.2	-2.5			-0.4	2.5
1923-1925	17.7	6.4	8.9	1.1	22.6	0.3	0.6			2.0	4.2
1921-1923	7.6	32.5				42.6	73.6			78.9	87.3
1919-1921	-49.2	-22.8				-32.6	-38.0			-38.5	-39.4
1919-1929	-22.1	11.6	25.0	-17.6	170.4	3.0	0.5	4.8	-19.9	13.7	84.4
1909-1919	7.5	48.5	75.7	39.8	1,309.5	263.1	260.3	276.4	198.8	237.6	207.2
1899-1909	69.9	36.9	106.9	101.5	2,714.5	83.0	119.6			102.4	83.3

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

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

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

<sup>4</sup> Includes cost of foundry supplies for 1927 and earlier years but not for 1929. See GENERAL EXPLANATIONS—Comparableness with Preceding Years—Schedule Changes—Mill or Shop Supplies.

<sup>5</sup> Not reported separately.

<sup>6</sup> Not called for on schedule.

<sup>7</sup> No comparable data.

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

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	2,646,248	2,848	119,559	785,330	\$102,004,881	\$302,253,388	\$260,853,732	\$41,399,656	\$500,378,132	\$258,124,744
<i>Counties</i>										
Autauga	19,694	13	570	1,366	420,476	981,150	947,300	33,850	2,202,633	1,221,483
Baldwin	28,289	58	1,188	2,036	628,608	646,679	608,295	37,384	2,353,004	1,707,025
Barbour	32,425	60	1,329	4,841	655,668	1,923,867	1,865,208	58,659	3,311,218	1,387,351
Bibb	20,780	28	292	969	174,476	222,185	205,690	16,495	603,070	380,885
Blount	28,020	13	304	2,068	222,780	234,841	197,823	37,018	640,100	414,358
Bullock	20,016	26	348	1,532	221,421	672,695	644,723	27,972	1,158,422	485,727
Butler	30,195	34	1,866	6,793	954,124	972,041	944,340	27,695	2,724,103	1,752,032
Calhoun	55,611	97	6,189	25,491	4,628,680	12,759,824	11,438,039	1,321,785	24,770,965	12,011,141
Chambers	39,313	29	4,370	21,965	2,912,156	14,849,250	14,316,041	533,215	21,660,976	6,711,720
Cherokee	20,219	11	38	379	17,555	17,600	17,300	200	62,500	46,000
Chilton	24,679	17	200	1,113	123,930	386,300	367,635	18,665	691,828	305,528
Choctaw	20,513	30	1,401	4,425	824,967	996,319	970,275	26,044	3,282,419	2,286,100
Clarke	26,016	25	1,495	3,482	985,460	456,649	419,605	37,044	2,204,740	1,748,091
Clay	17,768	41	196	1,049	100,854	322,998	319,323	3,675	670,148	247,150
Cleburne	12,877	21	119	844	71,660	70,467	70,095	372	200,431	129,964
Coffee	32,556	46	607	2,979	282,576	1,823,038	1,783,847	39,191	2,392,332	569,294
Colbert	29,800	26	825	1,902	933,077	1,337,995	1,264,587	73,408	2,907,605	1,629,610
Conecuh	25,429	20	135	1,147	83,438	263,774	261,434	2,340	494,666	230,892
Coosa	12,400	20	329	1,074	192,441	467,250	466,224	1,026	920,968	453,718
Covington	41,356	64	2,000	8,106	1,226,670	3,087,449	2,993,780	93,669	6,758,283	3,670,834

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) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties—Continued</i>										
Crenshaw	23,656	28	325	1,447	\$186,851	\$303,586	\$301,020	\$2,557	\$800,779	\$497,193
Cullman	41,051	44	340	2,092	214,386	971,368	957,358	13,080	1,566,249	594,881
Dale	28,175	51	537	2,741	306,097	1,319,413	1,299,373	20,040	2,183,322	803,909
Dallas	55,094	42	1,674	7,457	1,289,897	5,593,853	5,397,838	186,015	8,255,830	2,071,977
Elmore	34,280	23	799	2,101	509,193	1,160,982	1,126,375	24,607	1,910,254	759,272
Escambia	27,963	26	2,113	5,010	1,337,873	649,289	621,181	28,108	2,791,046	2,141,757
Etowah <sup>3</sup>	63,309	76	7,106	68,415	7,031,950	19,192,629	16,275,856	2,917,273	33,883,302	14,600,078
Fayette	18,443	45	628	2,068	374,195	1,041,311	1,009,384	31,927	2,007,217	1,055,906
Geneva	30,104	34	784	2,076	337,559	1,368,297	1,350,564	37,733	2,028,006	669,709
Greene	19,745	13	436	1,303	282,969	275,055	267,460	17,595	822,809	547,754
Hale	26,265	29	464	2,181	233,192	458,171	445,088	13,083	958,266	500,095
Henry	22,820	19	662	2,261	428,915	457,055	450,179	7,776	1,408,770	950,815
Houston	45,935	51	734	4,694	414,727	2,052,425	2,003,517	48,908	3,323,899	1,271,474
Jackson	36,881	33	964	2,182	563,313	1,470,199	1,459,459	30,767	2,477,239	1,007,043
Jefferson <sup>3</sup>	431,493	419	31,544	362,699	37,924,473	130,068,663	100,119,064	29,948,999	241,279,545	111,210,882
Lamar	18,001	33	135	1,202	65,416	309,692	302,087	7,605	510,091	206,399
Lauderdale	41,130	33	970	3,435	631,667	2,149,145	2,063,300	85,836	3,625,032	1,476,887
Lawrence	26,942	6	30	158	15,510	18,375	18,375	—	74,500	56,125
Lee	36,063	29	1,089	6,070	695,884	2,385,692	2,286,958	98,734	4,114,833	1,729,241
Limestone	36,620	15	94	1,051	67,280	323,777	309,444	14,333	561,096	237,310
Lowndes	22,878	17	191	808	95,026	151,499	146,760	4,700	434,675	283,176
Macon	27,103	11	477	1,781	342,711	267,704	248,966	18,828	824,341	556,547
Madison	64,623	36	5,144	27,895	3,064,377	9,543,272	9,045,166	498,106	16,872,059	6,328,787
Marengo	36,428	36	1,156	8,070	787,394	1,201,036	1,098,213	199,723	3,064,073	1,772,137
Marion	25,967	44	463	2,130	294,917	906,490	885,847	20,643	1,523,946	617,456
Marshall	39,802	20	308	2,698	198,170	558,979	532,330	26,649	1,008,070	449,991
Mobile	118,363	156	6,995	26,140	7,109,660	14,668,471	13,898,206	671,265	30,074,245	15,504,774
Monroe	30,070	12	1,255	2,020	699,573	325,467	302,707	22,760	1,642,881	812,555
Montgomery	98,671	119	4,415	20,675	3,882,216	13,079,878	13,408,786	571,092	26,217,157	12,237,270
Morgan	46,176	47	2,624	8,668	2,771,796	5,927,545	5,687,296	240,249	10,964,412	5,036,807
Perry	26,385	16	386	2,741	287,137	1,252,320	1,200,929	51,400	1,736,532	484,203
Pickens	24,902	52	378	2,240	220,956	581,571	561,396	20,175	1,122,426	540,855
Pike	32,240	36	831	4,149	513,447	1,421,190	1,398,098	23,092	2,554,108	1,132,918
Randolph	26,861	33	1,165	5,817	720,370	3,382,063	3,279,968	102,095	4,906,342	1,524,270
Russell	27,377	26	603	1,913	333,887	518,333	407,419	110,914	1,002,488	1,084,155
St. Clair	24,510	25	994	7,940	663,670	1,005,408	1,511,843	394,655	3,669,166	1,762,668
Shelby	27,576	25	587	2,500	358,072	713,133	695,882	671,251	1,768,526	1,055,393
Sumter	26,929	18	705	2,389	433,976	494,049	480,486	13,563	1,406,034	912,555
Talladega	45,241	45	3,399	22,003	2,201,464	8,294,053	7,858,223	445,830	19,086,072	4,802,019
Tallapoosa	31,188	61	3,621	14,224	2,122,020	8,029,503	8,414,978	214,525	14,904,140	6,274,643
Tuscaloosa	64,153	69	3,800	26,469	3,527,562	7,655,568	6,174,673	1,480,895	15,156,164	7,500,596
Walker	59,445	90	1,717	7,236	1,026,659	2,835,444	2,699,425	139,019	4,989,615	2,101,171
Washington	16,365	35	1,223	2,310	691,463	508,530	501,415	7,115	1,885,956	1,378,426
Wilcox	24,880	12	529	1,655	305,419	413,048	408,051	4,997	1,173,421	760,373
Winston	15,596	20	238	1,351	110,297	402,867	387,038	15,829	875,363	172,496
All other counties (De Kalb and Franklin) <sup>4</sup>	65,476	55	1,085	3,180	620,349	1,687,827	1,612,738	75,089	3,705,119	2,017,292
<i>Cities having 10,000 inhabitants or more<sup>5</sup></i>										
Anniston	22,345	59	3,348	11,175	2,498,191	5,647,916	5,244,028	403,888	10,849,193	5,201,277
Bessemer	20,721	22	2,019	5,396	2,103,744	4,566,285	4,209,659	356,626	9,544,329	4,978,044
Birmingham <sup>6</sup>	259,678	313	17,893	189,791	21,079,089	73,192,945	61,343,087	11,759,858	133,431,009	60,328,064
Decatur	15,593	33	2,508	7,719	2,693,636	5,735,508	5,508,401	227,107	10,585,182	4,849,674
Dothan	16,040	27	3,157	3,157	225,413	1,434,811	1,392,852	41,959	2,259,524	824,713
Fairfield	11,059	10	303	2,405	338,886	1,953,633	1,821,253	132,380	3,556,575	1,602,942
Florence	11,729	25	870	3,243	553,287	1,966,654	1,903,268	83,386	3,179,698	1,193,044
Gadsden	24,042	46	2,726	9,685	2,277,263	7,269,803	5,498,567	1,771,236	12,245,551	4,975,748
Huntsville	11,554	23	749	2,754	431,116	2,037,890	1,943,947	93,943	3,289,725	1,248,835
Mobile	68,202	99	4,411	15,028	5,217,993	8,215,666	7,761,974	451,692	19,802,245	11,088,579
Montgomery	66,079	99	3,356	16,309	3,275,192	11,333,993	10,851,943	482,050	21,611,859	10,277,866
Selma	18,012	26	1,093	5,514	936,879	5,084,884	4,922,324	162,560	7,172,182	2,087,298
Tuscaloosa	20,669	27	652	2,205	616,781	1,033,139	976,704	57,435	2,322,269	1,289,130

<sup>1</sup> Not including salaried employees.<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.<sup>3</sup> Because of the amount of manufacturing industry in Etowah and Jefferson Counties, it had been planned to publish statistics by industries for them. It is found, however, that no figures can be given for the most important industries in these counties without disclosing, exactly or approximately, the data reported by individual establishments; and in each county these 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. The most important industries in Etowah County were "Cotton goods," as measured by number of wage earners, and "Iron and steel: Steel works and rolling mills," as measured by value of products; the leading industry in Jefferson County was "Iron and steel: Steel works and rolling mills."<sup>4</sup> Combined to avoid disclosing data for individual establishments.<sup>5</sup> Not including Phenix City, which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for this city from separate publication to avoid disclosing approximations of the data for individual establishments.<sup>6</sup> For statistics by industries for this city, see Table 13.

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup> .....	132,200	114,047	18,153	2,166	2,131	35	1,110	1,075	35	9,365	7,925	1,440	119,559	102,916	16,643
1919 <sup>1,4</sup> .....	120,889	109,069	11,820	3,914	3,835	79	1,215	1,183	32	8,601	7,268	1,333	107,159	96,783	10,376
1914 <sup>4</sup> .....	89,053	81,490	7,563	3,310	3,255	55	935	919	16	6,091	5,519	572	78,717	71,797	6,920
1909.....	81,972	75,066	6,906	3,769	3,727	42	862	853	9	5,193	4,800	393	72,148	65,686	6,462

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices as follows: Principal salaried officers of corporations—total, 153; male, 150; female, 3. Other salaried officers and employees—total, 1,188; male, 894; female, 304. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup> .....	119,559	118,291	119,441	121,044	120,611	<i>117,862</i>	118,206	119,318	120,526	120,144	120,926	119,611	118,733	97.4
1919 <sup>1</sup> .....	107,159	104,837	102,802	103,668	103,838	99,828	<i>93,474</i>	103,013	107,229	112,526	115,740	116,331	117,622	83.7
1914 <sup>1</sup> .....	78,717	80,668	81,479	83,080	81,555	79,208	78,532	79,646	79,181	78,750	76,231	73,262	<i>73,022</i>	87.9
1909 <sup>1</sup> .....	72,148	70,620	70,394	71,048	69,168	67,641	<i>67,661</i>	68,902	72,193	75,607	77,196	77,854	77,686	86.8

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	2,848	119,559	45 and over but under 48.....	36	2,310
Not reported.....	999	5,218	48.....	237	14,202
Under 40.....	67	1,380	Over 48 but under 54.....	186	9,342
40.....	72	2,304	54.....	88	3,744
Over 40 but under 44.....	9	52	Over 54 but under 60.....	308	33,078
44 and over but under 45.....	132	2,854	60 and over.....	714	44,577

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.....	2,848	3,054	3,398	119,559	107,159	72,148	51 to 100.....	164	146	123	12,190	10,348	8,579
No wage earners.....	23	272	131	.....	.....	.....	101 to 250.....	142	120	93	22,918	19,314	14,468
1 to 5.....	1,544	1,802	1,790	6,844	4,098	4,550	251 to 500.....	60	44	34	20,105	15,936	12,037
6 to 20.....	574	808	924	6,810	9,853	10,327	501 to 1,000.....	26	20	11	17,980	13,046	7,962
21 to 50.....	300	306	288	9,055	9,952	9,119	1,001 to 2,500.....	15	16	14	22,757	24,012	15,106

<sup>1</sup> Tabulated as "1,000 and over."

CENSUS OF MANUFACTURES: 1929

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
	All establishments.....	2,848	3,654	3,398	119,559	107,159	72,148	\$560,378,132	\$492,730,895	\$145,961,038	\$258,124,744	\$192,066,605
Less than \$5,000.....	( <sup>2</sup> )	1,070	1,614	( <sup>2</sup> )	1,145	4,226	( <sup>2</sup> )	2,650,410	3,484,496	( <sup>2</sup> )	1,797,621	2,493,709
\$5,000 to \$19,999.....	1,429	1,125	1,002	7,216	4,736	9,128	13,609,805	11,794,521	10,232,102	8,889,961	7,691,806	7,048,024
\$20,000 to \$99,999.....	754	916	493	11,314	13,580	12,983	34,347,733	38,806,005	21,920,233	18,893,679	23,307,154	11,275,069
\$20,000 to \$49,999.....	488	( <sup>3</sup> )	( <sup>3</sup> )	5,738	( <sup>3</sup> )	( <sup>3</sup> )	15,427,275	( <sup>3</sup> )	( <sup>3</sup> )	9,205,472	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	266	( <sup>3</sup> )	( <sup>3</sup> )	5,576	( <sup>3</sup> )	( <sup>3</sup> )	18,920,458	( <sup>3</sup> )	( <sup>3</sup> )	9,688,107	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	432	349	267	25,600	21,265	31,903	96,939,203	82,471,030	68,275,808	45,770,755	38,231,322	26,824,753
\$100,000 to \$249,999.....	287	( <sup>3</sup> )		11,412	( <sup>3</sup> )		45,103,780	( <sup>3</sup> )		21,132,855	( <sup>3</sup> )	
\$250,000 to \$499,999.....	145	( <sup>3</sup> )		14,248	( <sup>3</sup> )		51,835,423	( <sup>3</sup> )		24,637,000	( <sup>3</sup> )	
\$500,000 to \$999,999.....	118	99		20,187	15,407		82,892,834	69,705,468		37,322,305	26,289,840	
\$1,000,000 and over.....	115	95	22	55,182	51,026	13,818	332,538,557	287,303,455	42,048,999	147,248,144	94,849,453	14,877,505
\$1,000,000 to \$2,499,999.....	70	( <sup>3</sup> )	( <sup>3</sup> )	20,270	( <sup>3</sup> )	( <sup>3</sup> )	100,024,895	( <sup>3</sup> )	( <sup>3</sup> )	43,921,030	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	31	( <sup>3</sup> )	( <sup>3</sup> )	16,857	( <sup>3</sup> )	( <sup>3</sup> )	103,679,466	( <sup>3</sup> )	( <sup>3</sup> )	46,124,690	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	14	( <sup>3</sup> )	( <sup>3</sup> )	18,055	( <sup>3</sup> )	( <sup>3</sup> )	128,884,196	( <sup>3</sup> )	( <sup>3</sup> )	57,201,915	( <sup>3</sup> )	( <sup>3</sup> )

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

<sup>2</sup> No data.

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
	Total.....	2,848	3,654	119,559	107,159	\$560,378,132	\$492,730,895	\$258,124,744
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1,011	941	100,800	89,464	505,238,171	437,969,430	230,202,381	161,039,809
Other forms of ownership or control (individual, partnership, etc.).....	1,837	2,713	18,759	17,695	55,139,961	54,761,465	27,922,363	31,026,796
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	433	( <sup>1</sup> )	65,057	( <sup>1</sup> )	355,163,866	( <sup>1</sup> )	155,476,534	( <sup>1</sup> )
Independent (single-unit).....	2,415	( <sup>1</sup> )	54,502	( <sup>1</sup> )	205,214,266	( <sup>1</sup> )	102,648,210	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

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

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horse-power
			Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power				
The State:														
1929.....	785,330	400,224	2,054	227,592	162	154,269	490	13,465	11	4,898	35,895	385,106	5,815	180,808
1927.....	779,160	388,810	1,946	266,860	114	102,690	554	13,882	15	5,478	44,654	390,346	4,136	70,029
1925.....	697,998	413,522	2,152	308,136	124	85,936	441	8,238	14	11,212	17,359	284,476	3,028	66,697
1919 <sup>1</sup> .....	628,287	485,875	3,195	377,313	154	91,433	376	3,695	100	13,534	6,666	142,412	2,575	57,111
1914 <sup>1</sup> .....	445,604	389,204	3,029	375,114	( <sup>2</sup> )	( <sup>2</sup> )	350	4,469	80	9,621	3,107	56,400	1,541	41,789
Counties in which aggregate horsepower exceeded 25,000: 1929														
Calhoun.....	25,491	1,080	25	826			12	260			2,318	24,405		
Etowah.....	68,415	47,994	35	13,017	8	34,607	13	370			1,343	20,421	620	39,071
Jefferson.....	362,609	192,142	274	95,545	104	96,324	9	273			8,917	170,467	2,796	118,268
Madison.....	27,895	6,399	11	5,633	2	766					3,325	21,496		
Mobile.....	26,140	11,441	111	9,656	3	213	28	1,572			1,084	14,699	23	179
Tuscaloosa.....	26,469	20,462	61	7,964	5	11,898	15	600			560	6,007	329	5,960

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

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

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

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

[This table presents statistics for each county for which separate figures are given in Table 2]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	785,330	400,224	335,106	180,608	Lamar.....	1,292	1,116	176	
Autauga.....	1,366	1,000	366	(?)	Lauderdale.....	3,435	1,333	2,102	
Baldwin.....	2,036	1,607	429	350	Lawrence.....	158	168	(?)	
Barbour.....	4,841	3,397	1,444		Lee.....	6,070	955	5,124	
Bibb.....	969	765	204		Limestone.....	1,051	1,005	46	
Blount.....	2,068	1,055	1,013		Lowndes.....	808	758	50	
Bullock.....	1,532	948	584		Macon.....	1,781	1,685	96	840
Butler.....	6,798	5,944	849		Madison.....	27,895	6,399	21,496	
Calhoun.....	25,491	1,086	24,405		Marengo.....	8,070	2,987	5,083	
Chambers.....	21,965	5,411	16,554	1,569	Marion.....	2,130	1,355	775	(?)
Cherokee.....	379	376	3		Marshall.....	2,098	480	2,218	
Chilton.....	1,113	516	597		Mobile.....	26,140	11,441	14,699	179
Choctaw.....	4,425	4,371	54	750	Monroe.....	2,029	2,000	29	
Clarke.....	3,482	3,462	20		Montgomery.....	20,675	4,671	16,004	125
Clay.....	1,049	931	118		Morgan.....	8,668	2,941	5,727	944
Cleburne.....	844	844			Perry.....	2,741	1,283	1,458	
Coffee.....	2,070	2,022	957	6	Pickens.....	2,240	1,498	742	
Colbert.....	1,902	1,014	888	185	Pike.....	4,149	3,032	1,117	
Concuh.....	1,147	1,121	26		Randolph.....	5,817	825	4,991	
Coosa.....	1,074	1,051	23		Russell.....	1,913	1,138	775	937
Covington.....	8,106	5,877	2,229	2,384	St. Clair.....	7,040	1,131	6,809	
Crenshaw.....	1,447	1,292	155		Shelby.....	2,500	760	1,740	
Cullman.....	2,092	1,963	129		Sumter.....	2,389	2,205	124	1,410
Dale.....	2,741	2,608	133	178	Talladega.....	22,903	3,043	19,860	
Dallas.....	7,457	2,213	5,244		Tallapoosa.....	14,224	6,137	8,087	5,065
Elmore.....	2,101	1,030	1,021		Tuscaloosa.....	26,460	20,462	6,007	5,960
Escambia.....	5,016	4,690	326	1,200	Walker.....	7,236	2,733	4,503	
Etowah.....	68,415	47,994	20,421	39,071	Washington.....	2,310	2,310		
Fayette.....	2,968	2,177	791	105	Wilcox.....	1,955	1,955	(?)	(?)
Geneva.....	2,076	1,220	856		Winston.....	1,351	755	596	
Greene.....	1,303	1,300	3	472	All other counties (De Kalb and Franklin).....	3,180	2,097	1,083	
Hale.....	2,181	1,998	183						
Henry.....	2,261	2,030	231						
Houston.....	4,604	2,862	1,822						
Jackson.....	2,182	1,158	1,024						
Jefferson.....	362,609	102,142	170,467	118,268					

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

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel							
Coal, total <sup>2</sup> (tons, 2,000 lbs.).....	8,431,560	\$21,477,089	8,036,554	8,660,419	7,654,537	6,308,327	6,372,253
Anthracite (tons, 2,240 lbs.).....	39,492	95,227	(?)	7,360	4,891	1,833	17,903
Bituminous (tons, 2,000 lbs.).....	8,387,329	21,381,862	(?)	8,652,178	7,649,646	6,306,494	6,354,350
Coke (tons, 2,000 lbs.).....	3,349,047	8,544,426	(?)	(?)	3,556,034	2,725,685	3,011,326
Fuel oils, including crude oils and gas oils (gallons) <sup>3</sup> .....	37,807,841	1,064,306	(?)	(?)	7,742,406	1,166,034	477,540
Gasoline and kerosene (gallons) <sup>4</sup> .....	801,520	152,210	(?)	(?)	500,558		
Gas, natural (M cu. ft.).....			(?)	(?)			
Gas, manufactured (M cu. ft.).....	26,672,435	2,805,832	(?)	(?)	216,135	156,005	18,715
Other fuels.....		231,034	(?)	(?)			
Electric energy purchased (kilowatt-hours).....	682,440,569	7,147,141	(?)	(?)	(?)	(?)	(?)
Total cost of fuel and purchased energy.....		\$41,512,088	Cost (\$)	Cost (\$)	Cost \$51,688,859	Cost \$17,022,208	Cost \$17,209,231

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

## CENSUS OF MANUFACTURES: 1929

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

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	2,848	10,475	110,559	400,224	385,106	\$24,885,366	\$102,004,881	\$260,853,732	\$41,399,656	\$560,378,132	\$258,124,744
Awings, tents, sails, and canvas covers.....	6	6	24		15	9,700	21,859	80,148	393	161,920	81,388
Baskets and rattan and willow ware, not including furniture.....	5	7	167	400		13,900	71,363	70,864	430	209,740	138,443
Beverages.....	105	102	552	203	1,272	446,666	503,204	2,169,334	65,007	5,609,161	3,464,820
Boxes, wooden, except cigar boxes.....	9	25	360	684	505	75,148	212,270	378,198	8,388	895,368	508,782
Bread and other bakery products.....	86	154	1,613	265	1,742	332,833	1,530,701	3,888,133	156,410	8,132,914	4,119,371
Brooms.....	9	10	91		80	17,300	63,134	161,975	1,514	286,877	123,388
Butler.....	13	8	27	20	308	12,781	28,122	573,526	11,691	728,617	138,400
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	4	8	189	126	6	14,400	69,543	281,076	4,074	487,393	201,343
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	4	19	101	25	75	49,691	66,671	503,344	4,336	816,606	308,926
Car and general construction and repairs, electrical-railroad repair shops.....	7	22	126		747	46,880	201,143	159,040	3,396	400,908	247,523
Car and general construction and repairs, steam-railroad repair shops.....	20	422	7,183	5,535	10,203	962,800	10,469,398	5,961,905	319,380	17,724,470	11,443,101
Caskets, coffins, burial cases, and other morticians' goods.....	8	10	194	195	357	43,664	177,299	493,282	4,321	841,726	344,123
Cast-iron pipe.....	29	697	9,335	3,071	27,896	2,067,906	9,672,968	13,010,902	1,646,067	37,208,672	22,551,703
Cigars and cigarettes.....	5	2	25			(1)	13,904	23,638	28	73,350	49,684
Clay products (other than pottery) and nonclay refractories.....	37	126	2,024	3,148	8,208	202,351	1,347,487	449,002	838,439	4,539,038	3,257,597
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	7	32	792		145	61,756	440,475	1,025,083	10,332	1,846,125	810,710
Coffee and spice, roasting and grinding.....	11	39	56		222	120,738	41,857	1,461,792	12,488	1,843,171	368,891
Coke, not including gas-house coke.....	8	207	1,096	28,978	8,607	738,887	2,219,825	978,669	16,816,717	24,937,794	7,142,408
Compressed and liquefied gases.....	8	46	47	69	1,032	70,470	55,397	140,140	37,483	724,897	547,274
Concrete products.....	26	47	222	30	804	193,548	94,321	498,061	15,833	1,215,179	700,685
Confectionery.....	12	21	192	125	89	47,991	127,899	472,022	8,303	838,894	358,539
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	9	26	132		122	66,640	182,951	576,587	7,983	1,110,233	525,063
Cordage and twine.....	5	49	779		4,903	103,706	556,078	1,938,908	83,916	3,606,286	1,583,372
Cotton goods.....	83	722	27,721	22,926	110,302	1,010,652	16,875,951	61,784,428	2,861,618	102,330,864	37,684,918
Electrical machinery, apparatus, and supplies.....	5	16	65		121	43,768	78,458	237,465	4,448	431,623	180,610
Engraving, steel and copperplate, and plate printing.....	4	10	33		27	33,860	31,993	37,206	1,557	135,316	96,553
Feeds, prepared, for animals and fowls.....	10	81	205		1,427	180,166	166,743	5,633,639	29,642	6,595,778	932,197
Fertilizers.....	56	191	1,409	1,979	6,760	412,178	837,770	9,576,542	114,397	13,242,041	3,551,102
Flour and other grain-mill products.....	70	14	69	97	1,436	49,490	60,230	1,635,251	14,658	1,825,234	275,325
Food preparations, not elsewhere classified.....	14	30	123	30	108	101,297	66,114	1,316,602	9,042	2,169,767	835,023
Foundry and machine-shop products, not elsewhere classified.....	60	307	2,783	1,098	10,717	840,969	3,260,193	4,780,911	304,213	13,767,589	8,682,465
Furnishing goods, men's, not elsewhere classified.....	6	15	482		245	127,281	303,447	1,011,744	7,082	1,617,480	598,660
Furniture, including store and office fixtures.....	10	32	304		604	105,128	284,050	561,228	18,070	1,218,177	638,879
Gas, manufactured, illuminating and heating.....	10	107	267	1,115	250	159,144	263,717	164,138	298,409	1,525,714	1,063,167
Ice cream.....	35	62	218	338	2,449	288,963	239,943	1,107,195	81,198	2,266,097	1,077,604
Ice, manufactured.....	180	194	832	4,995	14,866	375,814	732,236	204,529	496,740	3,530,101	2,828,832
Iron and steel: Blast furnaces.....	10	201	2,398		428,941	2,897,066	16,141,718	7,682,823	35,884,541	12,000,000	
Iron and steel: Steel works and rolling mills.....	9	1,361	9,257	192,362	52,062	2,927,402	12,199,977	34,742,414	4,704,062	74,172,710	34,726,234
Knit goods.....	20	11	2,607	670	2,180	205,182	1,360,598	3,873,935	84,856	6,666,184	2,707,391
Lime.....	0	16	276	72	1,152	38,003	210,439	389,293	228,927	1,103,036	484,906
Lumber and timber products, not elsewhere classified.....	1,147	1,036	25,954	90,643	2,182	2,457,511	16,257,857	15,999,473	311,340	51,500,007	35,189,185
Marble, granite, slate, and other stone products.....	19	77	489	540	3,309	327,924	529,244	959,244	82,223	1,921,676	1,279,609
Mattresses and bed springs, not elsewhere classified.....	15	48	132		457	123,674	111,777	407,411	9,648	766,484	349,425
Meat packing, wholesale.....	10	66	291	530	1,348	173,020	323,770	4,735,647	64,647	5,833,443	1,033,429
Motor-vehicle bodies and motor-vehicle parts.....	5	2	33		105	(1)	35,012	36,871	1,626	109,000	71,612
Oil, cake, and meal, cottonseed.....	34	100	988	8,960	9,275	411,649	682,279	12,468,966	336,619	14,874,368	2,068,783
Peanuts, walnuts, and other nuts, processed or shelled.....	11	31	297	675	987	43,715	92,972	1,720,139	31,612	1,963,174	241,523
Perfumes, cosmetics, and other toilet preparations.....	4	13	21		18	18,137	17,896	42,978	593	160,972	117,403
Photo-engraving, not done in printing establishments.....	4	6	34		15	21,807	71,327	20,410	1,212	161,509	139,884
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	140	257	1,082	10,807	3,088	483,060	1,469,989	7,831,146	69,299	12,022,398	4,121,954
Printing and publishing, book and job.....	73	180	624		787	854,291	733,944	790,604	34,182	2,898,371	2,013,885
Printing and publishing, newspaper and periodical.....	121	985	830	13	2,155	1,770,571	1,624,838	2,065,077	82,270	9,750,948	7,609,601
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	4	10	20		96	19,600	25,642	293,694	2,381	376,432	79,457
Signs and advertising novelties.....	6	9	24		2	14,582	59,972	22,392	1,617	119,491	95,612
Stoves and ranges (other than electric) and warm-air furnaces.....	8	89	1,056		1,534	248,951	1,051,734	1,335,419	74,143	3,784,977	2,375,415
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	12	190	1,070		5,981	468,812	1,077,645	4,886,248	65,564	8,728,405	8,970,593
Turpentine and rosin.....	98	112	2,514	60	4	135,790	911,016	622,211	17,314	2,245,056	1,604,430
Wood preserving.....	5	48	681	1,037	1,025	109,337	841,598	2,608,518	87,985	4,219,076	1,524,123
Wood turned and shaped and other wooden goods, not elsewhere classified.....	4	8	94	530	67	11,595	60,132	145,088	1,400	241,773	95,276
Other industries.....	160	1,374	7,668	17,002	80,548	3,318,065	8,050,296	26,105,373	3,127,131	55,921,229	26,688,725

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

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

<sup>3</sup> Not including data for 1,351 employees of central administrative offices, with salaries aggregating \$4,553,342. See GENERAL EXPLANATIONS—Persons Engaged.

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

TABLE 13.—GENERAL STATISTICS FOR BIRMINGHAM, 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. 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>b</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	313	3,044	17,803	117,941	71,850	7,889,898	21,079,089	61,343,087	11,769,858	133,431,000	60,328,004
Beverages <sup>1</sup> .....	8	30	120	70	345	91,109	139,444	521,379	16,416	1,330,608	792,813
Bread and other bakery products.....	30	72	813	150	781	178,987	835,581	2,076,465	62,022	4,372,210	2,233,723
Butter.....	3	1	8	-----	57	(?)	5,537	174,582	2,172	223,478	61,724
Cast-iron pipe.....	5	422	3,647	275	16,611	1,339,529	4,299,129	6,196,779	823,784	13,651,650	11,530,987
Coffee and spice, roasting and grinding <sup>1</sup> .....	6	32	45	-----	140	101,558	32,175	1,148,937	8,040	1,440,681	283,604
Coke not including gas-house coke.....	3	54	454	9,378	-----	156,470	710,769	247,752	4,080,712	6,151,705	1,817,241
Confectionery.....	8	13	84	100	74	29,791	68,929	238,393	4,374	443,331	200,564
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	6	19	66	-----	80	45,129	122,071	369,588	5,018	766,328	391,722
Food preparations, not elsewhere classified.....	5	11	60	-----	41	32,908	35,170	198,764	2,015	422,713	221,934
Foundry and machine-shop products, not elsewhere classified.....	23	177	1,502	675	6,718	514,054	1,900,042	3,216,762	179,431	3,528,164	5,131,981
Ice, manufactured.....	17	23	113	557	5,109	87,123	92,268	26,178	126,455	700,274	607,643
Marble, granite, slate, and other stone products.....	5	3	46	-----	607	7,220	81,692	78,077	5,136	252,681	169,469
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	7	24	117	860	333	61,460	120,086	420,102	9,801	757,119	327,216
Printing and publishing, book and job.....	28	111	302	-----	421	267,482	436,760	456,760	18,528	1,660,426	1,185,137
Printing and publishing, newspaper and periodical <sup>1</sup> .....	14	548	340	-----	1,008	1,028,637	680,885	1,889,378	28,873	5,902,856	4,484,605
Signs and advertising novelties.....	6	9	24	-----	2	14,682	53,972	22,362	1,517	119,461	95,612
Other industries.....	143	1,502	10,160	105,876	39,539	3,944,504	11,484,530	44,588,685	6,380,505	81,313,870	30,844,356

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

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

<sup>1</sup> The figures for the following establishments located outside the city have been included in the items for the city to avoid disclosing the data reported by those establishments: "Beverages," 1; "Coffee and spice, roasting and grinding," 1; "Printing and publishing, newspaper and periodical," 2.

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



# ARIZONA

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929.....	348	10,550	180,637	134,420	46,211	\$15,074,528	\$167,713,505	\$159,518,783	\$8,194,812	\$200,002,217	\$32,288,622
1927.....	300	8,967	100,641	78,752	21,889	12,132,957	77,799,198	71,889,888	5,909,310	117,624,484	39,826,230
1925.....	294	9,127	102,127	82,676	19,451	11,506,159	92,270,560	( <sup>5</sup> )	( <sup>5</sup> )	138,781,477	40,510,927
1923.....	283	9,003	128,631	98,967	29,664	12,635,070	80,992,793	( <sup>5</sup> )	( <sup>5</sup> )	123,877,206	42,384,413
1921.....	269	4,774	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	6,809,465	20,495,183	( <sup>6</sup> )	( <sup>6</sup> )	39,110,489	12,615,256
1919.....	480	8,528	103,958	79,111	24,847	12,014,769	92,645,437	84,273,872	8,371,565	120,769,112	28,123,675
1914.....	322	6,898	64,095	45,177	8,918	6,228,873	39,283,038	34,425,345	4,857,693	64,089,510	24,800,472
1909.....	311	6,441	38,940	35,625	3,314	5,505,183	33,000,240	27,811,763	5,188,477	50,256,694	16,050,454
1904.....	169	4,763	21,162	20,997	165	3,960,248	14,895,057	11,000,084	2,895,973	28,088,192	13,488,155
1899.....	154	3,126	8,687	8,409	38	2,287,352	7,876,542	( <sup>6</sup> )	( <sup>6</sup> )	20,438,987	12,562,445
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	16.0	17.7	79.5	70.7	111.1	24.2	115.6	121.0	38.7	70.0	-18.9
1925-1927.....	2.0	-1.8	-1.5	-4.7	12.6	5.4	-15.7	-----	-----	-15.2	-14.4
1923-1925.....	3.9	1.3	-20.5	-16.5	-34.2	-8.9	13.9	-----	-----	12.5	9.7
1921-1923.....	5.2	88.7	-----	-----	-----	85.6	205.7	-----	-----	215.5	236.0
1919-1921.....	-44.0	-44.0	-----	-----	-----	-43.3	-71.4	-----	-----	-67.6	-55.1
1919-1929.....	-27.5	23.7	73.8	69.9	86.0	25.5	81.0	80.3	-2.1	65.6	14.8
1909-1919.....	54.3	32.4	167.0	122.1	649.8	118.2	175.7	208.0	44.6	140.3	68.8
1899-1909.....	101.9	106.0	356.1	319.2	( <sup>7</sup> )	140.7	326.6	-----	-----	145.9	32.6

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products, include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Not reported separately.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> No comparable data.  
<sup>7</sup> Per cent not computed where base is less than 100.

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

[This table gives statistics for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing an approximation of the data supplied by individual establishments. Each of the other counties, however, reported a larger number of wage earners and a larger value of products than some of the counties shown separately]

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	435,573	348	10,550	180,637	\$15,074,528	\$167,713,505	\$159,518,783	\$8,194,812	\$200,002,217	\$32,288,622
<i>Counties</i>										
Cochise.....	40,908	27	1,844	54,506	2,771,857	54,246,522	51,701,563	2,544,959	59,390,459	5,143,937
Cocoonino.....	14,064	13	871	2,333	893,524	420,575	418,919	1,656	2,231,825	1,810,060
Gila.....	31,016	18	884	31,788	1,379,177	45,157,633	43,475,600	1,682,073	49,647,239	4,489,600
Graham.....	10,373	6	29	444	32,885	225,166	216,738	9,430	313,107	87,941
Maricopa.....	150,970	139	2,181	14,131	2,832,623	14,548,914	13,659,254	889,660	24,107,676	9,568,762
Mohave.....	5,572	5	12	69	27,545	39,265	35,393	3,872	100,295	61,030
Navajo.....	21,202	17	687	5,140	953,540	560,298	450,444	109,854	1,928,749	1,328,451
Pima.....	55,676	49	1,091	4,501	1,545,202	2,229,562	1,949,881	279,681	5,304,636	3,075,074
Santa Cruz.....	9,684	11	74	586	89,244	263,971	237,507	26,464	469,383	205,412
Yavapai.....	28,470	23	1,271	36,362	2,406,001	31,292,228	29,513,455	1,778,773	34,274,646	2,682,418
Yuma.....	17,816	15	176	1,536	290,107	383,553	318,010	65,543	1,021,763	638,210
All other counties (Apache, Greenlee, and Pinal).....	49,732	25	1,430	29,241	1,802,823	18,345,908	17,543,061	802,847	21,212,739	2,866,831
<i>Cities having 10,000 inhabitants or more</i>										
Phoenix.....	43,118	101	1,456	8,530	2,054,376	7,483,628	6,890,901	592,727	14,482,436	6,998,808
Tucson.....	32,506	43	993	3,671	1,443,534	1,823,958	1,585,148	238,810	4,568,980	2,745,022

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.

## CENSUS OF MANUFACTURES: 1929

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	12,400	11,975	425	191	176	15	147	140	7	1,512	1,294	218	10,650	10,365	285
1919 <sup>1</sup>	10,347	10,004	343	416	398	18	134	130	4	1,289	1,088	181	8,528	8,388	140
1914 <sup>2</sup>	8,014	7,881	133	267	255	12	100	98	2	749	682	67	6,808	6,846	52
1909	7,202	7,119	83	261	253	8	51	50	1	440	413	27	6,441	6,403	38

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

<sup>2</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.

<sup>3</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	10,550	10,090	9,283	10,437	10,850	10,802	10,941	10,941	10,635	10,790	10,662	10,382	10,087	91.2
1919 <sup>1</sup>	8,528	8,872	8,416	7,911	7,931	8,217	8,208	8,742	8,902	8,837	8,945	8,772	8,583	88.4
1914 <sup>1</sup>	6,808	7,079	6,915	7,053	7,432	7,678	7,774	7,715	7,076	6,262	6,377	5,916	6,029	75.2
1909	6,441	6,093	6,024	6,003	6,048	6,439	6,869	6,888	6,845	6,640	6,634	6,452	6,360	87.2

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	348	10,550	45 and over but under 48.....	5	53
Not reported.....	40	102	48.....	115	1,803
Under 40.....	6	13	Over 48 but under 54.....	10	40
40.....	15	27	54.....	24	277
Over 40 but under 44.....	1	1	Over 54 but under 60.....	55	5,198
44 and over but under 45.....	35	367	60 and over.....	53	2,670

<sup>1</sup> Combined to avoid disclosing approximations of the data for individual establishments.

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

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

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	348	480	311	10,550	8,528	6,441	21 to 50.....	23	27	10	1,039	846	302
No wage earners.....	11	57	36				51 to 100.....	12	6	6	875	383	454
1 to 5.....	172	291	201	458	660	404	101 to 250.....	8	10	6	1,510	1,630	1,049
6 to 20.....	102	80	44	1,111	834	476	251 to 500.....	6	7	6	2,274	2,427	2,123
							501 to 1,000.....	4	2	2	3,283	1,739	1,543

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	348	480	311	10,550	8,528	6,441	\$200,002,217	\$120,769,112	\$50,256,694	\$32,288,622	\$28,123,675	\$16,650,454
Less than \$5,000.....	( <sup>2</sup> )	110	117	( <sup>2</sup> )	80	129	( <sup>2</sup> )	303,604	278,045	( <sup>2</sup> )	202,728	186,124
\$5,000 to \$19,999.....	117	187	113	272	463	369	1,353,737	2,032,527	1,130,895	810,440	1,201,271	689,982
\$20,000 to \$99,999.....	140	126	55	1,134	1,003	675	6,553,151	5,348,365	2,519,424	3,883,009	2,796,633	1,424,581
\$100,000 to \$49,999.....	95	( <sup>3</sup> )	( <sup>3</sup> )	538	( <sup>3</sup> )	( <sup>3</sup> )	3,036,699	( <sup>3</sup> )	( <sup>3</sup> )	1,883,747	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	51	( <sup>3</sup> )	( <sup>3</sup> )	596	( <sup>3</sup> )	( <sup>3</sup> )	3,516,452	( <sup>3</sup> )	( <sup>3</sup> )	1,999,322	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	50	37		1,828	1,374		12,635,398	9,030,993		6,775,900	4,164,578	
\$100,000 to \$249,999.....	36	( <sup>3</sup> )		898	( <sup>3</sup> )		5,843,023	( <sup>3</sup> )		3,293,740	( <sup>3</sup> )	
\$250,000 to \$499,999.....	20	( <sup>3</sup> )	17	930	( <sup>3</sup> )	1,712	6,792,375	( <sup>3</sup> )	4,047,429	3,482,160	( <sup>3</sup> )	2,009,212
\$500,000 to \$999,999.....	11	8		1,080	1,062		7,523,187	5,649,768		2,919,767	2,433,986	
\$1,000,000 and over.....	18	12	9	6,236	4,046	3,556	171,956,744	98,403,855	42,276,901	17,899,440	17,324,420	12,256,555
\$1,000,000 to \$2,499,999.....	6	( <sup>3</sup> )	( <sup>3</sup> )	2,146	( <sup>3</sup> )	( <sup>3</sup> )	8,480,140	( <sup>3</sup> )	( <sup>3</sup> )	5,511,003	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	3	( <sup>3</sup> )	( <sup>3</sup> )	470	( <sup>3</sup> )	( <sup>3</sup> )	9,683,766	( <sup>3</sup> )	( <sup>3</sup> )	2,070,269	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	9	( <sup>3</sup> )	( <sup>3</sup> )	3,614	( <sup>3</sup> )	( <sup>3</sup> )	153,783,848	( <sup>3</sup> )	( <sup>3</sup> )	10,287,478	( <sup>3</sup> )	( <sup>3</sup> )

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

<sup>2</sup> No data.

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	348	480	10,550	8,528	\$200,002,217	\$120,769,112	\$32,288,622	\$28,123,675
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	160	161	9,599	7,660	193,428,134	115,651,802	28,954,187	25,774,143
Other forms of ownership or control (individual, partnership, etc.).....	182	319	951	868	6,574,083	5,117,810	3,334,435	2,349,532
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	57	( <sup>1</sup> )	5,478	( <sup>1</sup> )	150,828,582	( <sup>1</sup> )	15,368,978	( <sup>1</sup> )
Independent (single-unit).....	291	( <sup>1</sup> )	5,072	( <sup>1</sup> )	49,173,635	( <sup>1</sup> )	16,919,644	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

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

[This table presents statistics for each county in which the aggregate horsepower equaled or exceeded 25,000]

	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
The State:			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower
1929.....	180,637	134,426	140	54,344	42	73,445	43	6,637			2,483	46,211	2,079	69,173
1927.....	100,641	78,752	126	35,633	33	45,073	19	2,041	1	5	1,680	21,830	1,605	46,849
1925.....	102,127	82,676	139	28,801	31	51,061	30	2,814			1,441	19,451	1,561	39,428
1919 <sup>1</sup> .....	103,958	79,111	172	37,538	23	39,600	68	1,773	2	200	1,354	24,847	741	20,056
1914 <sup>1</sup> .....	54,095	45,177	190	44,312	( <sup>2</sup> )	( <sup>2</sup> )	37	795	2	70	538	8,918	478	14,200
Counties, 1929														
Cochise.....	54,506	53,933	45	29,610	10	24,323					94	573	638	15,344
Gila.....	31,788	2,798	5	2,633	1		2	165			442	28,900	27	205
Yavapai.....	36,362	35,380	12	7,845	7	27,000	4	533			140	982	710	23,800

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

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

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

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

CENSUS OF MANUFACTURES: 1929

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

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	180,637	134,426	46,211	69,173	Mohave.....	69		69	
<i>Counties</i>					Navajo.....	5,140	4,805	335	987
Cochise.....	54,506	53,933	573	15,344	Pima.....	4,501	1,820	2,681	536
Cocoonino.....	2,333	2,285	48	313	Santa Cruz.....	586		586	
Gila.....	31,788	2,798	28,990	205	Yavapai.....	36,362	35,380	982	23,800
Graham.....	444	310	134	3	Yuma.....	1,536	977	559	531
Maricopa.....	14,131	3,146	10,985	301	All other counties (Apache, Greenlee, and Pinal).....	20,241	28,972	269	27,153

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

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.).....	231,197	\$1,220,602	205,326	129,810	45,154	46,943	68,724
Anthracite (tons, 2,240 lbs.).....	336	3,223	(3)	66	159	5,002	7,561
Bituminous (tons, 2,000 lbs.).....	230,821	1,217,379	(3)	129,736	44,976	41,341	60,250
Coke (tons, 2,000 lbs.).....	53,831	684,674	(4)	(4)	143,567	266,097	463,233
Fuel oils, including crude oils and gas oils (gallons) <sup>3</sup> .....	100,319,157	4,832,606	(4)	(4)	87,846,276		
Gasoline and kerosene (gallons) <sup>4</sup> .....	338,213	62,210	(4)	(4)	65,940	55,632,698	25,644,948
Gas, natural (M cu. ft.).....			(4)	(4)			
Gas, manufactured (M cu. ft.).....	24,806	24,728	(4)	(4)	10,676	5,613	1,865
Other fuels.....		51,012	(4)	(4)			
Electric energy purchased (kilowatt-hours).....	131,192,858	1,334,950	(4)	(4)	(4)	(4)	(4)
Total cost of fuel and purchased energy.....		\$7,210,782	Cost \$5,909,310	Cost (5)	Cost \$8,371,565	Cost \$4,857,693	Cost \$5,788,487

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

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

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

<sup>4</sup> No data.

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

<sup>6</sup> Data incomplete.

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

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

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents statistics for all industries for which separate figures can be given without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other industries," however, reported larger numbers of wage earners or larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value, added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	348	1,659	10,550	134,426	40,211	\$4,268,292	\$15,074,528	\$159,518,783	\$8,194,812	\$200,002,217	\$32,288,622
Beverages.....	21	22	63		173	52,574	81,315	218,980	11,793	598,690	367,017
Bread and other bakery products.....	55	41	322		580	107,023	447,689	1,476,804	79,722	2,687,905	1,131,379
Butler.....	8	25	55	250	169	50,486	77,463	1,251,420	25,967	1,639,330	361,023
Clay products (other than pottery) and non-clay refractories.....	9	13	209		711	20,803	222,193	34,875	112,388	502,965	355,702
Concrete products.....	10	7	67		197	18,569	69,542	101,048	2,857	280,020	176,115
Confectionery.....	3	4	18		26	7,345	18,224	92,418	2,307	162,295	57,570
Feeds, prepared, for animals and fowls.....	6	17	36		759	41,534	40,571	677,953	13,426	902,542	211,163
Food preparations, not elsewhere classified.....	3		5		12		2,607	12,614		25,017	12,403
Foundry and machine-shop products, not elsewhere classified.....	9	12	140		440	52,686	180,047	180,347	34,593	564,880	349,940
Gas, manufactured, illuminating and heating.....	10	62	156	1,524	680	78,396	207,971	118,750	436,179	1,456,970	902,041
Ice cream.....	19	25	78	14	460	63,061	102,712	447,110	28,150	904,357	489,097
Ice, manufactured.....	30	77	309	6,372	3,700	217,172	579,978	147,408	327,156	2,176,742	1,702,178
Lumber and timber products, not elsewhere classified.....	16	96	2,094	8,249		295,898	2,268,088	468,448	186,977	4,419,466	3,764,031
Mattresses and bed springs, not elsewhere classified.....	3	7	24		62	15,210	30,958	95,414	1,661	186,512	89,437
Meat packing, wholesale.....	6	45	277	50	723	116,532	356,305	5,030,519	64,026	5,933,012	838,467
Oil, cake, and meal, cottonseed.....	6	58	181	625	2,008	136,762	169,673	2,083,998	92,190	3,459,915	1,283,727
Printing and publishing, book and job.....	16	38	140		139	77,241	229,375	212,420	9,044	770,461	548,988
Printing and publishing, newspaper and periodical.....	43	408	344	22	543	881,503	613,212	536,069	48,423	3,498,014	2,913,522
Smelting and refining, copper.....	10	434	3,711	115,157	28,800	1,335,600	6,092,449	139,920,844	6,350,045	156,671,668	10,400,779
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	18	91		165	43,855	140,439	305,908	4,178	667,506	357,420
Other industries.....	61	250	2,160	2,163	5,864	650,042	3,163,717	6,105,427	363,710	12,443,960	5,974,823

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

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

# ARKANSAS

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929.....	1,731	44,205	223,034	134,995	88,639	\$39,503,121	\$116,648,475	\$112,303,093	\$4,345,382	\$210,903,228	\$94,254,753
1927.....	1,146	40,032	183,041	137,460	45,581	35,288,108	103,815,280	100,559,401	3,215,879	182,750,871	78,935,591
1925.....	1,257	43,977	177,011	145,884	31,127	37,538,492	110,604,557	( <sup>5</sup> )	( <sup>5</sup> )	195,208,015	84,549,458
1923.....	1,231	44,545	165,154	140,321	24,333	37,770,294	90,709,437	( <sup>5</sup> )	( <sup>5</sup> )	172,541,140	81,831,703
1921.....	1,289	33,431	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	27,804,064	64,676,913	( <sup>5</sup> )	( <sup>5</sup> )	119,029,485	54,352,572
1919.....	3,123	49,954	212,219	100,726	21,493	47,186,189	102,812,977	99,881,410	2,031,567	200,312,858	97,499,881
1914.....	2,604	41,970	177,106	171,150	5,956	20,751,731	44,906,808	43,700,428	1,206,380	83,940,687	30,638,779
1909.....	2,025	44,982	172,833	170,252	2,581	19,112,896	34,934,912	33,054,541	050,371	74,916,367	30,081,455
1904.....	1,007	33,089	109,408	108,924	484	14,543,635	21,799,346	21,176,350	623,996	53,864,394	32,065,048
1899.....	1,740	31,525	70,505	79,304	201	10,184,154	18,283,045	( <sup>5</sup> )	( <sup>5</sup> )	39,337,578	21,590,533
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929.....	51.0	10.4	21.8	-2.2	94.5	11.9	12.4	11.6	35.1	15.4	19.4
1925-1927.....	-8.8	-9.0	3.4	-5.8	46.4	-6.0	-6.2			-6.4	-6.6
1923-1925.....	2.1	-1.3	7.2	3.6	27.9	-0.6	22.0			13.1	3.3
1921-1923.....	-4.5	33.2				35.8	40.3			45.0	50.6
1919-1921.....	-58.7	-33.1				-41.1	-37.1			-40.6	-44.3
1919-1929.....	-44.6	-11.5	5.1	-29.5	312.4	-16.3	13.5	12.4	48.2	5.3	-3.3
1909-1919.....	6.8	11.1	22.8	12.0	732.7	146.9	194.3	194.2	199.0	167.4	143.9
1899-1909.....	67.5	42.7	117.4	114.7	1,134.1	87.7	91.0			87.8	55.1

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

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

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	1,854,482	1,731	44,205	223,034	\$39,503,121	\$116,648,475	\$112,303,093	\$4,345,382	\$210,903,228	\$94,254,753
<i>Counties <sup>3</sup></i>										
Arkansas.....	22,800	27	300	4,494	208,436	4,750,429	4,709,391	41,038	6,521,872	1,771,443
Baxter.....	9,519	11	94	253	92,524	84,269	81,479	2,820	251,601	167,302
Benton.....	35,253	55	345	1,741	179,583	1,147,502	1,117,451	30,051	1,735,888	588,386
Boone.....	14,937	26	228	1,081	220,298	281,239	260,372	20,867	642,137	360,898
Bradley.....	17,494	11	1,069	5,520	1,211,760	2,244,951	2,207,417	37,534	4,791,292	2,546,341
Calhoun.....	9,752	4	91	163	61,460	53,740	53,530	210	147,136	98,396
Carrroll.....	15,820	40	309	1,126	103,967	559,201	553,034	6,167	877,800	318,659
Chicot.....	22,646	12	245	1,331	196,858	259,581	255,226	4,355	711,722	452,141
Clark.....	24,932	26	632	3,804	579,863	2,275,727	2,243,094	32,633	3,287,895	1,012,171
Clay.....	27,278	19	174	1,085	128,268	204,825	197,914	6,911	493,423	258,598
Cleburne.....	11,373	12	121	800	70,029	145,998	145,602	396	343,174	197,176
Cleveland.....	12,744	9	104	317	69,190	57,200	55,050	2,240	193,327	130,037
Columbia.....	27,320	21	503	1,882	338,079	1,155,915	1,134,785	21,130	1,882,147	720,232
Conway.....	21,949	16	128	1,379	88,378	565,581	552,999	12,582	877,013	311,432
Craighead.....	44,740	40	662	2,941	530,356	1,378,482	1,334,559	43,923	2,679,797	1,301,395
Crawford.....	22,549	9	365	653	534,790	513,734	466,097	47,637	1,183,747	670,013
Crittenden.....	39,717	5	106	752	105,374	52,913	47,879	5,034	249,418	196,505
Cross.....	25,723	19	210	927	112,939	277,493	276,276	1,217	635,590	358,097
Dallas.....	14,671	26	781	4,076	706,172	690,879	683,963	12,916	2,284,963	1,588,084
Deshia.....	21,814	16	580	1,877	458,714	998,248	983,309	14,939	2,222,160	1,223,918

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

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

COUNTY OR CITY	Popula- tion, 1930	Number of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value add- ed by manufacture
						Total	Materials and con- tainers	Fuel and purchased energy		
<i>Counties 3—Continued</i>										
Draw.....	19,028	17	449	1,843	\$274,508	\$952,023	\$908,806	\$43,217	\$1,628,682	\$676,659
Faulkner.....	28,381	13	65	683	68,893	394,291	378,688	15,603	623,615	229,324
Franklin.....	15,762	7	14	83	8,148	57,114	56,014	1,100	89,824	32,210
Garland.....	36,031	47	939	4,904	708,254	871,086	792,804	78,282	2,799,004	1,927,918
Grant.....	9,834	17	347	1,400	276,702	223,626	227,677	849	864,554	636,028
Greene.....	26,127	21	610	1,859	516,025	781,526	760,779	20,747	1,674,196	892,670
Hempstead.....	30,847	14	590	2,008	421,937	1,398,097	1,333,168	64,929	2,326,900	928,893
Hot Spring.....	18,105	20	1,192	4,839	908,225	1,013,152	766,213	247,939	2,990,237	1,977,085
Independence.....	24,225	14	188	1,122	104,200	138,622	90,605	48,017	383,747	245,125
Jackson.....	27,043	18	280	1,423	188,994	701,867	673,711	28,156	1,103,087	401,220
Jefferson.....	64,154	62	2,463	17,868	2,573,483	7,987,432	7,104,380	283,093	12,769,322	5,381,890
Johnson.....	19,289	20	161	668	116,732	193,734	193,069	665	482,244	238,510
Lawrence.....	21,663	16	177	1,384	121,859	571,219	551,973	19,246	839,873	208,664
Lee.....	28,637	30	452	1,365	339,843	336,890	331,671	3,419	994,708	669,318
Lincoln.....	20,250	7	79	367	78,399	78,966	78,752	2,214	188,404	107,438
Logan.....	24,110	18	51	658	39,124	143,846	137,051	6,795	264,275	120,429
Madison.....	13,334	28	162	795	60,321	252,892	250,611	2,281	460,044	207,162
Marion.....	8,876	13	74	359	45,654	82,278	81,365	910	233,580	151,302
Miller.....	30,686	24	455	2,316	317,610	1,804,216	1,759,470	44,745	2,831,836	1,027,621
Mississippi.....	69,289	40	1,386	5,900	1,088,261	2,339,679	2,287,060	52,613	5,582,387	3,212,708
Monroe.....	20,651	21	337	1,172	260,846	771,977	766,844	5,133	1,529,418	757,441
Nevada.....	20,407	22	426	1,922	240,522	626,150	609,455	22,695	1,435,702	809,552
Newton.....	10,564	13	210	769	162,539	102,095	100,895	1,200	409,805	307,210
Quachita.....	29,890	26	1,475	17,474	1,362,029	4,073,594	3,599,020	480,574	8,227,432	4,155,833
Perry.....	7,695	7	37	238	18,223	17,135	17,060	74	59,260	42,125
Phillips.....	40,683	41	2,499	8,737	2,139,189	5,846,419	5,689,157	157,262	10,908,653	5,062,234
Poinsett.....	29,695	23	1,524	6,897	1,525,103	1,179,738	1,172,481	7,257	4,066,600	2,876,862
Polk.....	14,857	24	316	1,317	220,071	415,214	407,893	7,321	913,372	498,153
Pope.....	20,647	30	430	3,145	343,046	707,305	684,828	22,477	1,499,995	732,660
Prairie.....	15,187	13	285	981	230,837	393,904	297,225	6,679	838,733	534,820
Pulaski.....	137,727	177	6,776	31,815	7,352,309	29,071,237	28,201,123	870,114	45,264,890	16,193,053
Randolph.....	16,871	8	132	565	96,046	119,011	116,707	2,304	322,250	202,399
St. Francis.....	33,394	23	405	2,405	271,718	1,778,732	1,734,742	44,040	2,616,391	837,009
Saline.....	15,660	20	609	2,928	405,213	1,041,126	964,690	76,436	1,900,678	959,552
Searcy.....	11,056	14	111	378	67,070	189,120	183,120	6,000	327,165	138,046
Sebastian.....	54,420	94	3,412	12,888	3,158,828	10,041,408	10,064,577	576,831	18,951,161	8,309,753
Sevier.....	16,364	20	260	1,043	180,886	331,452	321,619	9,833	746,701	416,249
Stone.....	7,993	6	44	172	32,317	29,492	29,492	0	66,700	67,208
Union.....	55,800	61	2,046	10,227	2,368,628	15,214,096	14,665,183	549,513	23,852,870	8,138,180
Van Buren.....	11,982	8	55	335	87,933	28,303	27,873	430	114,466	86,162
Washington.....	39,255	73	996	2,634	499,719	1,811,404	1,762,859	48,545	3,134,525	1,323,031
White.....	38,289	28	347	1,701	233,456	434,095	476,170	7,025	937,028	482,933
Woodruff.....	22,682	11	231	1,902	156,390	283,536	269,635	13,901	629,308	345,772
Yell.....	21,313	14	51	862	35,086	48,107	40,440	1,667	121,987	73,880
All other counties <sup>4</sup> .....	177,632	96	4,064	22,393	3,702,290	4,045,193	3,987,573	57,620	11,401,383	7,356,190
<i>Cities having 10,000 inhabitants or more</i>										
Blytheville.....	10,098	10	73	237	72,510	159,996	141,150	18,846	425,915	265,919
El Dorado.....	16,421	23	538	3,002	747,207	5,130,574	4,858,736	271,838	7,625,163	2,494,589
Fort Smith.....	31,429	84	3,012	9,501	2,785,126	8,344,176	7,985,711	358,465	15,736,331	7,442,155
Hot Springs.....	20,233	31	215	1,792	230,862	508,554	471,467	35,087	1,302,885	796,331
Jonesboro.....	10,326	28	527	2,031	441,277	1,236,354	1,197,626	38,728	2,388,204	1,151,940
Little Rock.....	81,679	134	3,450	12,617	3,184,090	11,990,459	11,672,799	317,660	21,317,979	9,327,520
North Little Rock.....	19,418	25	2,534	11,870	3,547,128	6,736,859	6,463,630	273,229	11,713,549	4,976,690
Pine Bluff.....	20,780	47	1,417	11,673	1,301,600	5,077,487	4,922,188	155,299	8,325,307	3,247,880
Texarkana, Arkansas and Texas, total.....	27,366	52	1,043	5,180	1,066,344	3,965,736	3,760,829	204,907	6,904,786	2,939,050
Texarkana, Arkansas.....	10,764	16	199	1,738	179,055	1,573,195	1,528,450	44,745	2,237,105	663,910
Texarkana, Texas.....	16,602	36	844	3,442	887,289	2,392,541	2,232,379	160,162	4,667,681	2,275,140

<sup>1</sup> Not including salaried employees.<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.<sup>3</sup> Statistics are given 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 "other counties," however, reported larger numbers of wage earners or larger values or products than some of the counties shown separately.<sup>4</sup> 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, exactly or approximately, 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.<sup>5</sup> Ashley, Fulton, Howard, Izard, Lafayette, Little River, Lonoke, Montgomery, Pike, Scott, and Sharp 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 <sup>1</sup>	50,118	46,115	4,003	1,371	1,340	31	2,585	2,569	16	3,957	3,303	654	44,205	40,903	3,302
1919 <sup>1,4</sup>	58,202	55,358	2,844	3,682	3,573	109	992	680	12	3,874	3,287	607	49,954	47,888	2,116
1914 <sup>4</sup>	48,440	47,191	1,249	2,917	2,826	91	412	405	7	3,132	2,872	260	41,979	41,088	891
1909	51,730	50,701	1,029	3,455	3,389	66	438	432	6	2,855	2,648	207	44,982	44,232	750

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 44; male, 41; female, 3. Other salaried officers and employees—total, 138; male, 100; female, 38. The corresponding data for 1919 and earlier years are included in the respective items for those years but can not be given separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14, 1929. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	44,205	42,317	41,947	42,117	42,567	42,238	43,370	45,112	49,321	50,490	46,779	43,276	<i>40,026</i>	81.1
1919 <sup>1</sup>	49,054	44,527	44,289	44,180	<b>43,960</b>	45,308	45,643	49,206	55,005	58,553	58,093	55,281	54,903	75.1
1914 <sup>1</sup>	41,979	41,118	40,086	41,252	41,011	41,369	42,470	44,658	45,606	43,652	42,951	40,205	<b>38,810</b>	85.3
1909 <sup>1</sup>	44,982	<i>41,205</i>	41,500	42,845	42,391	41,416	42,384	44,840	47,500	49,582	48,802	48,560	47,683	82.9

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	1,731	44,205	45 and over but under 48.....	21	1,021
Not reported.....	554	2,436	48.....	156	5,245
Under 40.....	47	527	Over 48 but under 54.....	88	3,722
40.....	119	1,438	54.....	123	3,120
Over 40 but under 44.....	42	449	Over 54 but under 60.....	120	8,579
44 and over but under 45.....			60 and over.....	561	18,665

<sup>1</sup> Combined to avoid disclosing data for an individual establishment.

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

[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures; and those for 1919 and 1909 include data for all establishments, 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.....	1,731	3,123	2,925	44,205	49,954	44,982	51 to 100.....	73	94	79	5,200	6,842	5,022
No wage earners.....	24	268	169				101 to 250.....	70	61	54	10,607	9,240	7,702
1 to 5.....	977	1,791	1,573	3,663	3,960	3,913	251 to 500.....	12	19	19	4,521	6,871	6,885
6 to 20.....	365	646	795	4,007	6,901	8,580	501 to 1,000.....	1	7	5	1,9,532	5,294	3,116
21 to 50.....	198	236	229	6,636	7,005	7,221	1,001 to 2,500.....	2	2	2		3,441	2,443

<sup>1</sup> Combined to avoid disclosing data for an individual establishment.

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,731	3,123	2,925	44,205	49,954	44,982	\$210,903,228	\$200,312,858	\$74,910,367	\$94,254,753	\$97,499,881	\$39,981,455
Less than \$5,000.....	(2)	930	1,390	(2)	922	3,501	(2)	2,318,671	3,056,457	(2)	1,473,590	2,169,126
\$5,000 to \$19,999.....	877	1,105	943	8,519	3,964	7,315	8,922,420	11,679,051	9,579,083	5,500,736	7,095,436	6,326,701
\$20,000 to \$99,999.....	518	751	418	6,478	10,007	10,832	22,550,670	32,032,547	18,400,828	12,984,068	18,319,222	10,127,304
\$20,000 to \$49,999.....	354	(3)	(3)	3,244	(3)	(3)	11,030,039	(3)	(3)	6,432,531	(3)	(3)
\$50,000 to \$99,999.....	164	(2)	(2)	3,234	(2)	(2)	11,520,640	(2)	(2)	6,552,137	(2)	(2)
\$100,000 to \$499,999.....	243	240	(1)	13,810	13,380	(1)	56,514,683	53,759,693	(1)	26,212,428	26,917,061	(1)
\$100,000 to \$249,999.....	150	(3)	(3)	6,187	(3)	(3)	23,333,111	(3)	(3)	12,230,301	(3)	(3)
\$250,000 to \$499,999.....	93	(2)	(2)	7,623	(2)	(2)	33,181,572	(2)	(2)	13,982,067	(2)	(2)
\$500,000 to \$999,999.....	52	61	(1)	6,435	8,415	(1)	30,703,042	41,620,352	(1)	14,084,434	18,085,937	(1)
\$1,000,000 and over.....	41	36	4	13,963	13,266	3,362	86,212,305	58,862,944	5,443,573	34,916,487	25,008,635	2,571,902
\$1,000,000 to \$2,499,999.....	31	(3)	(3)	8,134	(3)	(3)	45,061,620	(3)	(3)	19,711,685	(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.....	10	(2)	(2)	5,829	(2)	(2)	40,550,775	(2)	(2)	15,204,802	(2)	(2)

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>2</sup> No data.  
<sup>3</sup> Not tabulated separately.  
<sup>4</sup> Combined to avoid disclosing data for individual establishments.

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	1,731	3,123	44,205	49,954	\$210,903,228	\$200,312,858	\$94,254,753	\$97,499,881
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	599	691	34,687	36,567	179,010,461	149,038,772	77,127,754	71,507,400
Other forms of ownership or control (individual, partnership, etc.).....	1,132	2,432	9,518	13,387	31,892,767	51,274,086	17,126,999	25,992,481
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	312	(1)	20,065	(1)	99,949,206	(1)	43,514,915	(1)
Independent (single-unit).....	1,419	(1)	24,140	(1)	110,954,022	(1)	50,739,838	(1)

<sup>1</sup> Not tabulated.

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

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING				
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy					
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines							
			Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power				Number	Horse-power	
The State:																
1929.....	223,034	134,395	1,520	101,185	54	23,710	150	9,500			8,698	88,639	1,922	33,220		
1927.....	183,041	137,460	1,088	104,881	39	25,795	150	6,709			4,528	45,581	1,518	28,816		
1925.....	177,011	145,884	1,256	117,600	39	20,020	161	8,188	1	75	3,527	31,127	1,897	28,083		
1919 <sup>1</sup> .....	212,219	190,726	2,654	174,962	31	8,438	422	6,620	25	706	2,484	21,493	640	14,098		
1914 <sup>1</sup> .....	177,106	171,150	2,484	167,378	(2)	(2)	377	2,979	21	793	1,073	5,956	462	7,384		
Pulaski county <sup>4</sup> .....	31,815	8,749	66	8,119	1	(2)	3	630			2,250	23,066	166	1,107		

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.  
<sup>2</sup> Reported as "Steam engines and turbines."  
<sup>3</sup> Not reported separately. See footnote 2.  
<sup>4</sup> This is the only county in Arkansas in which the aggregate horsepower equaled or exceeded 25,000.  
<sup>5</sup> Items for steam turbines included with those 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 3 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	223,034	134,395	88,639	33,220	<i>Counties—Continued</i>				
<i>Counties</i>									
Arkansas.....	4,494	3,090	1,404	156	Logan.....	658	628	30	18
Baxter.....	253	246	7		Madison.....	795	791	4	
Benton.....	1,741	1,066	675	30	Marion.....	359	357	2	
Boone.....	1,081	375	706		Miller.....	2,316	1,643	673	73
Bradley.....	5,520	5,460	60	3,709	Mississippi.....	5,900	5,059	841	1,248
Calhoun.....	163	156	7		Monroe.....	1,172	1,007	165	40
Carroll.....	1,126	975	151		Nevada.....	1,922	1,590	232	127
Chicot.....	1,331	1,170	161		Newton.....	799	742	27	
Clark.....	3,804	3,010	794	167	Ounchita.....	17,474	3,830	13,044	76
Clay.....	1,085	885	200		Perry.....	238	205	33	
Cleburne.....	800	762	38	178	Phillips.....	8,737	4,351	4,386	3,796
Cleveland.....	317	311	6		Poinsett.....	6,897	6,604	293	3,823
Columbia.....	1,882	1,273	609		Polk.....	1,317	1,234	83	
Conway.....	1,379	1,307	72	165	Pope.....	3,145	1,882	1,263	
Craighead.....	2,941	2,540	401		Prairie.....	981	945	36	25
Crawford.....	653	165	488		Pulaski.....	31,815	8,740	23,066	1,107
Crittenden.....	752	555	187		Randolph.....	565	534	31	
Cross.....	927	784	143		St. Francis.....	2,495	1,605	690	
Dallas.....	4,076	3,272	804	575	Saline.....	2,923	2,171	752	277
Desha.....	1,877	1,445	432		Searcy.....	878	873	5	50
Drew.....	1,843	929	914	28	Sebastian.....	12,338	4,443	7,945	460
Faulkner.....	683	555	118		Sevier.....	1,043	764	270	32
Franklin.....	83	61	22		Stone.....	172	172		
Garland.....	4,904	1,534	3,370	86	Union.....	10,227	7,564	2,663	477
Grant.....	1,400	1,375	25		Van Buren.....	335	335		
Greene.....	1,850	1,589	270		Washington.....	2,634	1,690	944	70
Hempstead.....	2,006	1,727	279	106	White.....	1,701	1,557	144	160
Hot Spring.....	4,539	1,524	3,015	250	Woodruff.....	1,902	1,270	632	150
Independence.....	1,122	493	624	28	Yell.....	862	213	644	
Jackson.....	1,428	870	553		All other counties <sup>2</sup> .....	22,303	20,867	1,520	14,469
Jefferson.....	17,868	6,913	10,955	1,250					
Johnson.....	668	653	15						
Lawrence.....	1,384	1,185	199						
Lee.....	1,365	1,340	25						
Lincoln.....	367	305	62						

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

<sup>2</sup> See footnote 5, Table 2.

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
<b>Fuel:</b>							
Coal, total <sup>2</sup> (tons, 2,000 lbs.).....	116,532	\$460,911	128,193	205,860	204,504	287,093	378,007
Anthracite (tons, 2,240 lbs.).....	2,871	15,842	( <sup>3</sup> )	10,125	7,824	10,627	384
Bituminous (tons, 2,000 lbs.).....	113,366	451,069	( <sup>3</sup> )	194,520	285,741	276,091	877,017
Coke (tons, 2,000 lbs.).....	6,158	44,910	( <sup>4</sup> )	( <sup>4</sup> )	10,397	1,749	6,327
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	14,014,017	309,036	( <sup>6</sup> )	( <sup>6</sup> )	1,753,584		1,124,172
Gasoline and kerosene (gallons) <sup>5</sup> .....	954,918	108,131	( <sup>6</sup> )	( <sup>6</sup> )	233,640	1,185,282	
Gas, natural (M cu. ft.).....	11,658,806	1,450,051	( <sup>6</sup> )	( <sup>6</sup> )			886,794
Gas, manufactured (M cu. ft.).....	840,011	80,054	( <sup>6</sup> )	( <sup>6</sup> )	6,723,496	2,152,156	
Other fuels.....		112,062	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Electric energy purchased (kilowatt-hours).....	135,009,902	1,889,343	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Total cost of fuel and purchased electric energy.....		7 4,400,498	Cost \$3,215,870	Cost ( <sup>6</sup> )	Cost \$2,931,537	Cost \$1,209,380	Cost \$980,371

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1920.

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

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

<sup>4</sup> No data.

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

<sup>6</sup> Data incomplete.

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

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

## CENSUS OF MANUFACTURES: 1929

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents statistics for all industries for which separate figures can be given without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other industries," however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	1,781	4,542	44,205	134,395	88,639	\$80,942,946	\$39,503,121	\$112,303,093	\$4,345,382	\$210,903,228	\$94,254,753
Baskets and rattan and willow ware, not including furniture.....	4	11	280	360	40	20,050	176,753	146,548	1,600	431,503	283,445
Beverages.....	77	78	371	242	922	178,615	357,087	1,214,742	45,812	3,166,269	1,895,715
Boxes, wooden, except cigar boxes.....	7	35	637	1,760	185	74,929	380,604	761,041	2,441	1,455,951	692,409
Bread and other bakery products.....	95	85	808	4	1,494	184,350	928,807	2,644,645	104,299	5,242,127	2,593,183
Brooms.....	3	9	43	20	20	16,348	45,000	101,102	1,076	200,898	98,720
Butter.....	14	16	43	66	750	14,206	48,044	977,738	21,488	1,247,214	247,988
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	182	96	1,347	3,227	571	60,629	412,653	2,035,197	29,544	3,194,259	1,129,518
Car and general construction and repairs, electric-railroad repair shops.....	5	6	81	-----	215	14,100	101,670	45,700	3,480	104,950	115,770
Car and general construction and repairs, steam-railroad repair shops.....	15	347	4,108	2,154	10,177	857,963	5,932,460	5,903,900	388,469	13,108,148	6,815,779
Carriage, wagon, sleigh, and sled materials.....	7	32	257	899	325	62,060	181,184	589,950	7,122	1,015,441	418,369
Caskets, coffins, burial cases, and other morticians' goods.....	3	25	99	-----	427	92,800	88,638	204,830	9,381	607,847	363,636
Cheese.....	10	7	15	10	113	5,770	25,273	350,255	4,839	429,502	68,448
Chemicals, not elsewhere classified.....	4	11	64	405	1,015	25,427	72,884	518,327	81,831	802,770	202,612
Clay products (other than pottery) and nonclay refractories.....	10	39	567	1,047	1,313	70,089	503,740	132,851	381,252	1,901,283	1,447,180
Clothing, women's, not elsewhere classified.....	7	5	274	-----	48	6,800	114,366	290,285	3,305	541,034	247,384
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	4	40	380	-----	66	85,984	171,753	862,309	6,122	1,049,356	780,835
Coffee and spice, roasting and grinding.....	11	23	48	-----	230	54,083	48,443	1,802,632	7,110	1,504,740	284,998
Confectionery.....	7	7	35	-----	32	7,050	25,443	102,109	2,862	188,244	83,183
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	9	15	91	-----	106	47,500	90,612	603,147	5,001	881,306	273,158
Cotton goods.....	5	23	617	-----	2,795	50,730	355,560	1,480,767	84,779	2,241,581	670,035
Feeds prepared, for animals and fowls.....	7	69	132	15	1,400	172,943	126,400	2,998,396	22,497	3,743,571	722,678
Fertilizers.....	3	79	168	205	1,336	105,940	112,404	1,667,162	12,778	2,265,103	665,163
Flour and other grain-mill products.....	30	57	147	1,007	1,580	129,775	137,955	4,285,896	39,319	4,848,697	523,482
Food preparations, not elsewhere classified.....	4	9	22	450	261	14,551	17,347	127,767	5,730	194,679	61,182
Foundry and machine-shop products, not elsewhere classified.....	33	52	427	283	1,215	137,451	490,547	537,211	71,129	1,971,983	1,303,043
Furniture, including store and office fixtures.....	13	147	1,551	1,147	2,209	493,518	1,209,112	3,181,800	63,954	6,116,552	2,870,708
Ice cream.....	33	52	122	309	1,237	80,919	161,158	702,291	74,615	1,540,174	703,208
Ice, manufactured.....	128	158	627	9,010	10,336	252,639	583,151	233,151	416,761	3,188,900	2,539,078
Lumber and timber products, not elsewhere classified.....	625	1,302	21,541	82,084	6,160	3,022,380	17,685,808	18,995,993	270,102	58,063,273	38,797,178
Marble, granite, slate, and other stone products.....	10	16	42	15	355	17,420	68,939	69,814	7,692	224,600	147,094
Mattresses and bed springs, not elsewhere classified.....	11	30	148	-----	393	63,275	109,244	520,171	9,109	945,376	410,086
Meat packing, wholesale.....	7	15	49	75	240	43,730	63,000	1,143,929	16,189	1,387,051	226,933
Motor-vehicle bodies and motor-vehicle parts.....	9	62	833	1,060	6,760	156,127	702,808	1,821,827	73,584	3,551,359	1,650,948
Oil, cake, and meal, cottonseed.....	31	250	1,233	10,845	10,333	430,320	863,490	18,075,377	462,687	21,451,731	2,914,267
Patent or proprietary medicines and compounds.....	10	15	23	-----	26	24,810	14,621	67,295	1,070	204,004	135,639
Petroleum refining.....	10	167	681	2,110	1,500	326,902	1,069,249	14,222,496	482,136	18,906,361	4,201,729
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	47	185	1,405	6,070	1,147	433,606	1,103,959	3,963,761	26,397	6,621,328	2,631,170
Printing and publishing, book and job.....	44	144	379	-----	659	348,117	566,543	576,851	25,346	2,053,093	1,450,890
Printing and publishing, newspaper and periodical.....	132	396	755	42	1,215	784,241	988,407	924,780	50,561	4,722,354	3,741,013
Rice cleaning and polishing.....	8	112	193	3,573	1,384	201,141	190,145	5,741,667	27,075	7,481,840	1,712,598
Wood turned and shaped and other wooden goods, not elsewhere classified.....	29	54	547	1,670	277	112,740	427,622	720,966	5,171	1,611,935	885,798
Other industries.....	73	261	2,785	3,218	17,743	653,958	2,594,936	11,628,237	979,167	19,635,071	7,127,677

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

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

<sup>3</sup> Not including data for 182 employees of central administrative offices, with salaries aggregating \$461,995. See GENERAL EXPLANATIONS—Persons Engaged.

# CALIFORNIA

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	12,019	290,911	1,599,086	338,629	1,230,457	\$423,099,248	\$1,754,158,339	\$1,709,776,843	\$44,381,496	\$3,103,349,668	\$1,349,191,329
1927	10,066	262,816	1,339,695	297,772	1,041,923	378,321,461	1,504,655,063	1,457,700,157	46,954,896	2,693,247,224	1,088,592,171
1925	9,038	240,562	1,133,310	268,536	874,774	350,835,411	1,474,887,292	( <sup>5</sup> )	( <sup>5</sup> )	2,442,952,104	988,064,812
1923	9,220	246,154	971,315	246,403	724,912	353,183,303	1,283,464,739	( <sup>5</sup> )	( <sup>5</sup> )	2,215,281,350	931,816,611
1921	8,696	198,334	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	284,372,969	1,065,180,736	( <sup>5</sup> )	( <sup>5</sup> )	1,788,682,485	663,501,749
1919	11,942	243,692	765,168	243,980	521,188	305,207,339	1,218,853,518	1,181,132,228	37,720,290	1,981,204,701	762,346,183
1914	10,057	189,481	489,493	230,759	258,734	105,612,631	447,474,531	432,039,273	15,435,258	712,800,764	265,326,233
1909	7,659	115,296	327,878	211,341	110,537	84,141,477	325,233,074	312,160,192	13,077,882	529,760,528	204,522,454
1904	6,839	100,355	207,837	168,474	39,363	64,656,636	215,726,414	210,509,512	5,210,902	367,218,494	161,492,080
1899	4,997	77,224	124,347	114,723	9,624	39,889,907	104,894,269	( <sup>5</sup> )	( <sup>5</sup> )	257,885,521	92,491,252
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	19.4	10.7	17.1	13.7	18.1	11.8	16.6	17.3	-5.5	19.7	23.9
1925-1927	4.4	6.3	18.2	15.2	19.1	7.8	2.0			6.2	12.5
1923-1925	4.5	1.4	16.7	4.9	20.7	-0.7	14.9			10.3	3.9
1921-1923	6.0	24.1				24.2	17.2			26.0	40.4
1919-1921	-27.2	-18.6				-6.8	-10.1			-11.2	-13.0
1919-1929	0.6	19.4	105.1	33.8	136.1	38.6	43.9	44.8	17.6	56.6	77.0
1909-1919	55.9	111.4	133.4	15.4	347.2	262.7	274.8	278.4	188.5	274.0	272.7
1899-1909	53.3	49.3	163.7	84.2	1,110.9	110.9	97.2			105.8	121.1

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

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

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	5,077,251	12,019	290,911	1,599,086	\$423,099,248	\$1,754,158,339	\$1,709,776,843	\$44,381,496	\$3,103,349,668	\$1,349,191,329
<i>Industrial Areas</i>										
Los Angeles Area (coextensive with Los Angeles County) <sup>3</sup>	2,208,492	4,008	114,480	538,831	175,812,298	710,338,112	696,506,866	13,831,246	1,310,386,486	609,048,374
San Francisco-Oakland Area <sup>4</sup>	1,306,938	3,003	93,797	509,954	138,059,176	702,624,100	687,959,928	14,664,172	1,165,083,465	463,059,365
<i>Counties <sup>5</sup></i>										
Alameda <sup>6</sup>	474,853	1,116	30,711	157,178	42,658,040	187,032,447	182,801,656	4,230,791	330,274,492	152,242,045
Amador	8,494	13	75	940	100,103	95,508	73,236	22,172	345,503	249,995
Butte	34,093	66	1,542	9,977	2,091,000	3,413,943	3,321,989	91,954	7,960,187	4,546,244
Colusa	10,258	14	51	592	60,650	345,613	330,235	15,278	535,202	189,740
Contra Costa <sup>6</sup>	76,008	113	13,029	150,274	20,477,928	210,342,693	216,428,682	3,914,041	289,458,874	70,116,181
Del Norte	4,739	6	210	1,668	259,023	90,672	88,266	2,416	535,842	445,170
Eldorado	8,325	18	752	5,846	1,104,611	548,166	499,311	48,855	2,336,973	1,788,807
Fresno	144,379	200	5,878	29,151	7,024,000	30,254,402	29,586,933	667,469	52,404,328	22,140,926
Glenn	10,935	14	69	572	85,461	1,122,939	1,091,471	31,468	1,468,964	340,055
Humboldt	43,233	83	5,832	35,333	7,976,024	8,338,856	8,072,846	266,008	22,480,249	14,141,393
Imperial	60,903	47	472	7,591	701,164	3,641,068	3,304,275	336,793	0,101,492	2,460,424
Inyo	6,855	15	339	5,078	603,002	788,393	499,778	288,615	1,824,393	1,036,000
Kern	32,570	95	1,607	17,149	2,041,772	13,452,634	12,310,731	1,141,903	21,060,205	7,607,571
Kings	25,355	43	529	3,062	669,700	5,270,709	5,156,935	114,774	7,341,774	2,070,981
Lake	7,169	3	153	584	76,903	101,010	156,021	4,989	290,362	129,352
Lassen	12,589	16	4,053	19,364	6,047,010	2,610,692	1,068,289	42,199	10,951,729	8,941,241
Los Angeles <sup>4</sup>	2,208,492	4,008	114,480	538,831	175,812,298	710,338,112	696,506,866	13,831,246	1,310,386,486	609,048,374
Madera	17,104	12	789	4,283	1,420,161	1,249,455	1,195,855	53,600	3,861,949	2,612,494
Marin <sup>4</sup>	41,643	60	785	5,661	971,786	3,008,049	2,850,552	247,497	5,740,530	2,042,481
Mendocino	23,505	40	1,804	8,901	2,041,525	866,000	969,890	19,110	5,135,357	4,149,337
Merced	36,748	35	865	11,842	1,449,440	5,355,615	5,004,281	351,334	8,582,598	3,196,963
Modoc	8,038	14	2,051	1,100	331,397	601,894	557,113	4,781	1,336,059	774,195
Monterey	63,705	78	2,051	10,338	2,114,117	18,145,613	12,631,526	514,087	20,938,855	7,713,242
Napa	22,897	38	530	1,955	679,422	2,789,385	2,743,241	46,144	4,310,105	1,523,770
Nevada	10,596	22	589	3,530	903,204	1,420,680	1,213,724	212,956	2,528,370	1,101,690
Orange	118,674	197	2,038	10,344	2,723,477	13,178,829	12,751,465	427,364	22,287,741	9,088,912
Placer	24,468	22	1,484	9,149	2,137,616	2,749,707	2,490,210	259,497	6,530,292	3,780,585
Plumas	7,913	16	874	3,987	1,660,860	552,741	518,143	36,598	3,594,558	2,951,817
Riverside	31,024	90	1,979	13,940	2,664,887	5,617,033	4,810,651	806,382	12,289,332	6,872,299
Sacramento	141,999	240	8,003	32,446	11,810,597	36,552,910	35,338,065	1,214,245	63,883,097	27,330,187

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

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

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties</i> —Continued										
San Benito	11,311	17	254	3,941	\$319,543	\$1,849,268	\$1,588,202	\$261,006	\$2,758,007	\$908,739
San Bernardino	133,900	164	5,270	62,026	7,686,386	14,606,578	11,953,544	2,653,034	35,044,528	20,437,950
San Diego	209,659	300	4,239	23,340	5,706,033	20,448,124	19,524,606	923,518	37,889,070	17,440,855
San Francisco	634,394	2,526	45,482	157,372	67,911,982	261,911,488	257,074,625	4,836,863	489,712,296	221,800,308
San Joaquin	102,940	180	4,185	33,061	5,513,667	20,521,189	19,607,464	913,725	37,020,323	10,499,134
San Luis Obispo	29,613	45	333	2,383	497,660	4,509,851	4,429,265	80,586	6,248,360	1,838,520
San Mateo	77,405	98	3,700	39,469	6,039,440	31,239,423	29,804,443	1,434,980	47,497,273	16,257,850
Santa Barbara	65,167	90	400	4,475	817,160	1,768,728	1,644,561	124,167	4,315,217	2,546,489
Santa Clara	145,118	266	10,851	29,550	10,682,386	56,717,108	55,777,747	939,361	91,092,200	34,375,092
Santa Cruz	37,433	78	1,256	18,298	1,779,138	3,548,354	2,824,448	723,906	8,374,184	4,825,830
Shasta	13,927	28	201	1,104	289,112	515,540	483,078	32,462	1,087,592	572,052
Sierra	2,422	6	567	3,658	1,025,548	455,728	411,509	24,210	1,868,281	1,427,553
Siskiyou	25,480	34	3,738	20,680	5,182,072	4,270,471	4,164,872	111,600	14,283,062	10,000,591
Solano	40,834	49	872	8,445	1,102,890	13,065,805	12,882,470	183,335	17,050,332	3,984,527
Sonoma	62,222	137	1,004	6,066	1,118,240	10,461,911	10,322,882	139,079	13,868,410	3,401,508
Stanislaus	56,641	96	1,047	10,218	2,151,487	15,063,408	14,636,226	417,182	21,742,168	6,688,760
Sutter	14,618	13	151	581	169,160	1,273,292	1,200,935	12,357	1,862,655	589,363
Tehama	13,866	20	231	1,059	305,615	458,121	423,526	34,595	1,062,264	604,143
Trinity	2,899	3	12	131	16,228	4,993	4,548	450	30,587	25,589
Tulare	77,442	84	807	5,693	993,483	5,174,811	4,999,982	174,829	8,063,916	2,870,105
Tuolumne	9,271	19	1,783	7,051	2,651,373	993,274	802,725	190,549	5,770,788	4,783,514
Ventura	54,970	56	625	9,683	805,238	8,111,456	7,870,376	241,083	11,708,553	3,602,094
Yolo	23,644	18	105	1,357	151,669	1,772,600	1,746,007	26,683	2,440,781	668,091
Yuba	11,331	19	223	2,437	180,929	1,061,764	951,296	110,468	1,803,068	741,304
All other counties <sup>7</sup>	10,842	15	141	4,628	213,780	840,522	330,598	509,924	2,058,891	1,218,360
<i>Cities having 10,000 inhabitants or more</i> <sup>8</sup>										
Alameda	85,033	50	1,166	11,587	1,633,309	2,824,321	2,694,409	129,912	6,635,178	3,810,857
Alhambra	28,472	43	1,217	5,027	1,622,246	4,041,804	3,900,053	141,751	7,894,951	3,853,147
Anaheim	10,995	22	173	1,607	251,494	1,820,955	1,773,687	47,268	2,682,830	861,875
Bakersfield	26,015	40	1,050	6,643	1,625,923	5,351,443	5,149,266	202,177	10,004,144	4,712,701
Berkeley	82,109	173	3,435	20,497	5,457,130	30,456,130	29,072,986	483,144	50,148,787	19,692,657
Beverly Hills	17,420	13	203	1,180	356,260	693,136	661,920	31,216	1,609,947	916,811
Brawley	10,439	8	53	1,433	88,802	151,257	70,919	80,338	655,407	504,210
Burbank	16,662	26	1,667	5,515	3,001,850	6,287,625	6,157,916	129,709	17,910,304	11,022,079
Burlingame	13,270	12	50	129	86,613	150,292	146,938	4,354	382,295	232,003
Compton	12,516	10	151	614	210,358	317,555	284,161	33,394	1,270,433	961,978
Eureka	15,752	35	1,200	6,905	1,746,067	1,730,772	1,653,404	77,368	5,265,225	3,534,433
Fresno	62,513	126	3,219	15,722	3,970,484	21,650,179	21,203,168	447,011	36,135,823	14,485,644
Fullerton	10,860	14	237	1,443	248,332	734,754	678,172	56,582	1,562,100	827,406
Glendale	62,736	118	886	3,738	1,836,819	2,425,077	2,347,542	77,535	6,262,409	3,837,332
Huntington Park	24,691	45	1,041	4,080	1,648,514	2,864,275	2,768,411	95,864	8,346,395	5,482,120
Inglewood	19,490	23	600	1,682	780,572	1,105,172	1,133,865	61,307	3,183,117	1,987,945
Long Beach	142,632	197	2,566	11,184	3,788,236	31,777,005	31,390,593	386,412	54,676,736	22,800,731
Los Angeles	1,238,948	3,437	76,023	287,120	112,454,365	376,237,243	368,235,701	7,001,482	757,792,135	382,464,892
Modesto	13,842	39	837	3,178	951,632	8,069,893	8,482,032	181,653	12,607,941	3,844,256
Monrovia	10,890	17	197	653	240,797	671,263	647,837	23,426	1,358,656	687,398
Oakland	284,063	738	10,096	92,136	20,130,309	115,085,451	112,452,893	2,632,558	206,659,418	91,573,967
Ontario	13,583	20	752	2,920	898,449	2,004,752	1,932,529	72,223	5,765,039	3,760,337
Palo Alto	13,652	18	369	834	480,006	1,106,284	1,076,074	30,210	2,310,495	1,204,211
Pasadena	76,086	150	1,071	4,730	1,782,317	2,329,944	2,244,689	85,255	7,029,017	4,699,073
Pomona	20,804	36	772	3,280	1,050,093	2,334,998	2,193,210	141,788	5,058,602	2,723,604
Redlands	14,177	22	117	655	160,485	217,116	201,467	15,640	640,622	423,406
Richmond	20,093	30	3,715	20,929	6,908,434	44,593,072	44,122,075	470,997	58,860,016	14,276,844
Riverside	29,696	39	885	9,450	1,477,339	1,602,900	1,336,695	566,205	4,993,487	3,090,587
Sacramento	93,750	203	7,112	27,725	10,331,130	27,346,877	26,266,106	1,080,771	50,408,778	23,061,901
Salinas	10,263	20	298	2,440	395,721	2,174,071	2,054,329	119,742	3,348,432	1,174,361
San Bernardino	37,481	51	2,023	10,835	3,044,005	3,723,071	3,547,421	175,650	8,747,143	5,024,072
San Buenaventura	11,608	18	162	970	296,953	2,206,351	2,171,749	34,602	3,180,880	983,529
San Diego	147,995	263	3,836	20,407	5,230,005	17,947,572	17,108,008	839,564	34,205,183	16,257,611
San Francisco	634,394	2,526	45,482	157,372	67,911,982	261,911,488	257,074,625	4,836,863	489,712,296	221,800,308
San Jose	57,651	191	6,503	16,307	6,300,799	34,949,214	34,348,650	600,565	57,210,419	22,261,205
San Mateo	13,444	16	103	706	143,153	218,142	23,081	195,061	661,463	443,321
Santa Ana	30,322	70	708	2,391	959,774	2,626,090	2,553,132	72,958	5,099,766	2,473,666
Santa Barbara	33,613	59	343	2,012	600,688	905,688	849,042	56,646	2,433,050	1,827,371
Santa Cruz	14,395	31	219	1,584	334,781	619,573	538,347	81,226	1,440,431	820,858
Santa Monica	37,146	31	1,036	3,359	1,694,035	1,329,819	1,186,887	142,932	4,356,056	3,027,237
Santa Rosa	10,636	31	190	1,350	274,639	579,501	543,444	36,057	1,377,530	798,029
South Gate	19,632	19	404	1,841	666,580	1,721,999	1,637,234	34,765	3,220,839	1,493,840
South Pasadena	13,730	13	56	284	82,117	121,520	109,120	12,400	358,127	266,607
Stockton	47,963	124	2,965	20,283	3,034,417	12,045,060	11,936,236	708,824	25,118,469	12,473,400
Whittier	14,822	19	137	409	208,640	460,032	438,885	21,147	1,103,716	643,684

<sup>1</sup> Not including salaried employees.<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.<sup>3</sup> For statistics by industries for this area, see Table 13.<sup>4</sup> The San Francisco-Oakland Industrial Area comprises Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties. For statistics by industries for the area and for Alameda and San Francisco Counties, see Table 13.<sup>5</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.<sup>6</sup> For statistics by industries for this county, see Table 13.<sup>7</sup> Calaveras, Mariposa, and Mono Counties. (See footnote 5.) No manufacturing reported from Alpine County.<sup>8</sup> Not including San Leandro and Vallejo, each of which cities reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments.<sup>9</sup> For statistics by industries for this city, see Table 14.<sup>10</sup> For statistics by industries for San Francisco City (coextensive with San Francisco County), see Table 13.

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929	362,028	295,750	66,278	9,099	8,633	466	2,781	2,540	241	256,237	242,013	14,224	290,911	239,690	51,221
1919	296,858	248,040	47,918	12,462	11,912	540	3,450	3,271	185	37,258	27,188	10,070	243,692	206,569	37,123
1914	176,547	151,532	25,015	10,429	10,027	402	2,790	2,677	113	23,847	19,527	4,320	139,481	119,301	20,180
1909	141,576	123,929	17,647	8,077	7,826	251	2,103	2,036	67	16,100	13,103	2,997	115,296	100,964	14,332

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 1,153; male, 1,126; female, 28. Other salaried officers and employees—total, 10,535; male, 6,794; female, 3,741. The corresponding data for 1919 and earlier years are included in the respective items for those years but can not be given separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14, 1929. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929	290,911	<i>257,324</i>	201,434	273,073	292,094	280,786	292,001	308,767	335,949	328,194	300,787	287,161	263,757	76.6
1919	243,692	<i>231,968</i>	220,138	223,632	233,033	241,639	249,880	275,146	292,312	270,678	244,813	223,216	221,849	78.0
1914	139,481	<i>119,088</i>	121,611	126,749	135,262	140,981	144,762	157,054	161,072	159,574	152,431	132,945	121,653	74.3
1909	115,296	<i>94,747</i>	100,372	108,437	115,839	119,911	124,886	131,202	132,280	129,864	120,864	110,281	71.3	

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	12,019	290,911	45 and over but under 48	448	13,375
Not reported	1,828	4,146	48	3,647	110,684
Under 40	152	981	Over 48 but under 54	497	15,920
40	182	6,532	54	729	27,022
Over 40 but under 44	65	1,253	Over 54 but under 60	388	14,435
44 and over but under 45	3,618	67,552	60 and over	465	22,061

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	12,019	11,942	7,659	290,911	243,692	115,296	51 to 100	527	341	212	37,848	24,495	15,374
No wage earners	488	1,589	882				101 to 250	386	252	134	58,540	40,065	19,873
1 to 5	6,176	6,484	4,123	16,004	14,210	9,844	251 to 500	113	81	56	38,814	28,500	20,103
6 to 20	3,109	2,266	1,708	33,441	24,772	18,672	501 to 1,000	53	30	14	34,068	20,508	9,092
21 to 50	1,143	880	526	36,403	28,493	16,854	1,001 to 2,500	23		4			
							2,501 and over	1	22		35,703	62,670	5,484

<sup>1</sup> Combined to avoid disclosing the number of wage earners reported by 1 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 <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	12, 019	11, 942	7, 659	290, 911	243, 692	115, 296	\$3, 103, 349, 668	\$1, 981, 204, 701	\$529, 760, 528	\$1, 349, 191, 329	\$762, 340, 183	\$204, 522, 454
Less than \$5,000.....	(2)	2, 451	2, 169	(2)	1, 313	2, 067	(2)	6, 095, 096	5, 610, 748	(2)	4, 408, 637	3, 795, 404
\$5,000 to \$19,999.....	4, 450	4, 331	2, 785	9, 642	9, 880	10, 279	50, 525, 601	46, 202, 857	29, 208, 047	31, 887, 602	27, 334, 729	17, 546, 524
\$20,000 to \$99,999.....	4, 424	3, 232	1, 867	32, 391	28, 502	24, 913	205, 832, 032	144, 251, 658	82, 114, 420	119, 863, 708	72, 753, 035	40, 743, 591
\$20,000 to \$49,999.....	2, 792	(3)	(3)	14, 573	(3)	(3)	89, 656, 983	(3)	(3)	63, 679, 882	(3)	(3)
\$50,000 to \$99,999.....	1, 632	(3)	(3)	17, 818	(3)	(3)	116, 175, 049	(3)	(3)	66, 183, 826	(3)	(3)
\$100,000 to \$499,999.....	2, 139	1, 320	(3)	65, 154	43, 480	(3)	465, 103, 702	296, 016, 876	(3)	242, 160, 591	129, 753, 310	(3)
\$100,000 to \$249,999.....	1, 476	(3)	(3)	34, 139	(3)	(3)	232, 344, 561	(3)	(3)	125, 163, 899	(3)	(3)
\$250,000 to \$499,999.....	663	(3)	767	31, 015	(3)	53, 128	232, 759, 161	(3)	210, 723, 384	117, 005, 092	(3)	86, 922, 761
\$500,000 to \$999,999.....	485	275	(3)	41, 753	24, 765	(3)	338, 931, 524	189, 644, 103	(3)	157, 701, 051	73, 247, 289	(3)
\$1,000,000 and over.....	512	327	71	141, 971	130, 692	24, 800	2, 042, 956, 800	1, 297, 434, 021	202, 103, 929	797, 568, 777	454, 849, 183	55, 514, 114
\$1,000,000 to \$249,999.....	322	(3)	(3)	55, 475	(3)	(3)	497, 026, 839	(3)	(3)	223, 797, 606	(3)	(3)
\$2,500,000 to \$4,999,999.....	119	(3)	(3)	38, 542	(3)	(3)	396, 002, 327	(3)	(3)	100, 060, 627	(3)	(3)
\$5,000,000 and over.....	71	(3)	(3)	47, 054	(3)	(3)	1, 149, 928, 143	(3)	(3)	404, 101, 544	(3)	(3)

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	12, 019	11, 942	290, 911	243, 692	\$3, 103, 349, 668	\$1, 981, 204, 701	\$1, 349, 191, 329	\$762, 340, 183
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	4, 603	3, 132	244, 153	199, 538	2, 763, 469, 654	1, 046, 355, 622	1, 170, 137, 790	638, 935, 302
Other forms of ownership or control (individual, partnership, etc.).....	7, 416	8, 810	40, 758	44, 154	339, 880, 014	334, 849, 079	170, 053, 539	123, 410, 881
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	1, 424	(1)	140, 023	(1)	1, 837, 195, 895	(1)	738, 428, 042	(1)
Independent (single-unit).....	10, 595	(1)	150, 888	(1)	1, 216, 153, 773	(1)	612, 763, 287	(1)

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR 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				Number	Horse-power		
			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		
The State:														
1929.....	1, 569, 086	338, 629	1, 765	147, 789	696	148, 843	409	31, 875	36	10, 122	133, 875	1, 230, 487	10, 358	168, 243
1927.....	1, 839, 695	207, 772	1, 338	145, 197	503	114, 898	413	26, 140	34	10, 531	103, 831	1, 041, 923	9, 780	145, 602
1925.....	1, 783, 310	293, 530	1, 396	140, 655	268	87, 713	429	22, 243	64	7, 925	84, 798	874, 774	7, 835	125, 682
1919 <sup>1</sup> .....	765, 168	243, 930	2, 067	179, 220	123	32, 036	1, 053	25, 020	110	7, 704	51, 070	521, 188	3, 956	51, 096
1914 <sup>1</sup> .....	486, 469	230, 769	2, 323	207, 695	(2)	(2)	877	15, 614	112	7, 450	23, 745	258, 734	2, 295	32, 610
Industrial Areas														
Los Angeles Area (coextensive with Los Angeles County).....	538, 831	81, 005	709	31, 879	261	30, 252	175	18, 874	—	—	54, 904	457, 820	1, 383	23, 360
San Francisco—Oakland Area <sup>2</sup> .....	609, 954	70, 717	321	32, 739	213	35, 653	68	2, 325	1	(3)	48, 057	439, 237	1, 587	18, 537
Counties in which aggregate horsepower exceeded 25,000: 1929														
Alameda.....	157, 178	18, 280	80	13, 433	22	4, 141	23	685	—	—	16, 209	138, 889	180	2, 321
Contra Costa.....	150, 274	30, 332	121	6, 821	161	23, 090	21	621	—	—	5, 140	119, 042	1, 363	15, 751
Fresno.....	29, 151	9, 413	53	3, 113	11	5, 491	16	804	—	—	2, 438	19, 736	325	8, 125
Humboldt.....	35, 333	30, 207	57	6, 017	13	24, 172	3	13	—	—	6, 631	5, 126	1, 046	32, 773
Los Angeles.....	538, 831	81, 005	709	31, 879	261	30, 252	175	18, 874	—	—	54, 904	457, 820	1, 383	23, 360
Sacramento.....	32, 446	4, 001	27	3, 260	20	718	3	14	—	—	3, 203	28, 445	—	—
San Bernardino.....	62, 626	14, 899	33	3, 894	11	9, 193	9	1, 812	—	—	3, 020	47, 727	837	8, 075
San Francisco.....	157, 372	19, 094	80	10, 460	24	8, 163	18	471	1	(3)	24, 118	138, 278	37	335
San Joaquin.....	33, 661	9, 619	28	6, 264	9	3, 095	4	260	—	—	2, 114	23, 442	133	4, 945
San Mateo.....	39, 469	1, 575	24	1, 490	1	(3)	3	85	—	—	2, 159	37, 894	7	130
Santa Clara.....	29, 550	4, 261	33	3, 102	8	491	12	668	—	—	3, 836	25, 280	1	10

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.  
<sup>2</sup> Reported as "Steam engines and turbines."  
<sup>3</sup> Not reported separately. See footnote 2.  
<sup>4</sup> The San Francisco-Oakland Industrial Area comprises Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties.  
<sup>5</sup> Items for water wheels and water turbines included with those for steam engines to avoid disclosing data for a single establishment.  
<sup>6</sup> Items for steam turbines included with those 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 5 and 7 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	1,569,086	838,629	1,230,457	168,248	Plumas.....	3,987	3,115	872	481
Alameda.....	157,178	18,280	188,880	2,321	Riverside.....	13,940	9,161	4,779	17,846
Amador.....	940	345	595	—	Sacramento.....	32,446	4,001	28,445	—
Butte.....	9,977	3,800	6,177	1,000	San Benito.....	3,941	155	3,786	70
Colusa.....	592	300	292	—	San Bernardino.....	62,626	14,899	47,727	8,075
Contra Costa.....	150,274	30,332	119,942	15,761	San Diego.....	23,340	3,323	20,017	554
Del Norte.....	1,068	1,616	52	(?)	San Francisco.....	157,372	10,094	188,278	335
Eldorado.....	5,840	4,340	1,506	3,885	San Joaquin.....	33,061	9,619	23,442	4,946
Fresno.....	29,151	9,413	19,738	8,125	San Luis Obispo.....	2,383	674	1,709	—
Glenn.....	572	80	492	—	San Mateo.....	39,499	1,675	37,824	180
Humboldt.....	35,333	30,207	5,126	32,773	Santa Barbara.....	4,475	1,432	3,043	228
Imperial.....	7,591	430	7,161	—	Santa Clara.....	20,550	4,261	25,259	(?)
Inyo.....	5,078	270	4,808	—	Santa Cruz.....	18,298	5,500	17,748	22
Kern.....	17,149	1,944	15,205	9	Shasta.....	1,104	414	690	—
Kings.....	3,032	569	2,463	—	Sierra.....	3,058	3,057	—	1,136
Lake.....	584	435	99	400	Siskiyou.....	20,639	12,042	8,047	11,510
Lassen.....	19,304	17,590	1,714	18,994	Solano.....	8,445	746	7,699	—
Los Angeles.....	538,831	81,095	457,826	28,300	Sonoma.....	6,086	477	5,609	—
Madera.....	4,285	2,455	1,828	804	Stanislaus.....	10,218	750	9,492	433
Marina.....	5,061	1,427	4,234	—	Sutter.....	531	72	459	—
Mendocino.....	8,901	8,229	672	4,160	Tehama.....	1,069	218	841	—
Merced.....	11,842	2,660	9,182	—	Trinity.....	131	130	1	—
Modoc.....	1,100	1,075	85	—	Tulare.....	5,063	1,908	3,695	—
Monterey.....	16,533	7,098	9,435	4,768	Tuolumne.....	7,051	3,060	3,091	2,250
Napa.....	1,955	90	1,865	—	Ventura.....	9,653	6,956	2,697	1,995
Nevada.....	3,530	5,721	2,809	1,218	Yolo.....	1,357	4	1,353	—
Orange.....	10,344	3,400	6,944	1,515	Yuba.....	2,437	1,044	1,393	—
Placer.....	9,149	110	9,039	—	All other counties.....	4,628	446	4,182	—

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

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.).....	34,987	\$273,361	37,953	48,828	121,597	36,952	48,117
Anthracite (tons, 2,240 lbs.).....	2,057	20,218	(?)	2,592	4,002	2,000	4,421
Bituminous (tons, 2,000 lbs.).....	32,683	253,143	(?)	45,959	117,085	34,712	43,165
Coke (tons, 2,000 lbs.).....	87,790	906,612	(?)	(?)	194,843	97,388	113,065
Fuel oils, including crude oils and gas oils (gallons) <sup>3</sup> .....	863,667,742	18,887,370	(?)	(?)	608,717,970	561,102,276	373,086,630
Gasoline and kerosene (gallons) <sup>4</sup> .....	2,345,825	335,770	(?)	(?)	14,053,284	—	—
Gas, natural (M cu. ft.).....	50,859,687	7,184,936	(?)	(?)	—	—	—
Gas, manufactured (M cu. ft.).....	7,167,431	1,550,233	(?)	(?)	7,587,074	3,818,379	302,548
Other fuels.....	—	277,360	(?)	(?)	(?)	(?)	(?)
Electric energy purchased (kilowatt-hours).....	1,601,102,481	19,761,489	(?)	(?)	(?)	(?)	(?)
Total cost of fuel and purchased energy.....	—	\$49,068,140	Cost \$40,954,899	Cost (?)	Cost \$37,728,290	Cost \$15,435,258	Cost \$13,077,882

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

CENSUS OF MANUFACTURES: 1929

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

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	12, 019	62, 018	290, 911	338, 620	1, 230, 457	\$ 184, 048, 164	\$ 423, 030, 248	\$ 1, 709, 776, 843	\$ 44, 331, 466	\$ 3, 103, 349, 068	\$ 1, 349, 191, 329
Agricultural implements.....	18	235	1, 138	135	3, 327	517, 433	1, 321, 756	3, 084, 401	62, 761	7, 924, 367	4, 777, 206
Aircraft and parts.....	21	310	1, 277	2	860	647, 126	1, 972, 250	2, 139, 771	30, 044	4, 987, 890	2, 818, 034
Alcohol, ethyl, and distilled liquors.....	4	32	120	1, 405	1, 211	100, 755	101, 674	1, 130, 284	107, 773	2, 311, 280	1, 073, 223
Aluminum manufactures.....	14	34	180	511	81, 631	283, 683	368, 938	17, 067	983, 210	508, 314	
Artificial and preserved flowers and plants.....	6	8	88	37	45, 679	79, 697	123, 000	1, 933	349, 102	224, 160	
Artists' materials.....	4	2	10	27	(*)	12, 199	14, 422	428	42, 051	28, 101	
Awnings, tents, sails, and canvas covers.....	85	107	447	425	237, 097	596, 752	1, 543, 329	11, 045	3, 056, 149	1, 501, 776	
Bags, other than paper, not made in textile mills.....	10	122	737	780	320, 459	679, 650	9, 295, 193	19, 178	11, 210, 637	1, 896, 166	
Bearing, leather.....	10	35	60	115	92, 872	106, 387	412, 141	4, 553	861, 169	444, 475	
Beverages.....	186	361	1, 130	3, 031	5, 623	810, 040	1, 778, 181	4, 461, 054	189, 738	12, 337, 317	
Blacking, stains, and dressings.....	12	30	41	186	186	62, 424	41, 410	218, 958	2, 555	490, 526	
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	5	80	173	368	127, 562	220, 575	650, 546	9, 565	1, 328, 505	662, 394	
Bookbinding and blank-book making.....	56	239	935	1, 087	580, 506	1, 269, 094	1, 069, 267	25, 359	5, 611, 616	3, 916, 490	
Boots and shoes, other than rubber.....	12	101	661	680	209, 425	1, 020, 352	1, 466, 791	14, 221	3, 094, 701	1, 613, 770	
Boxes, cigar, wooden.....	4	5	60	117	17, 500	57, 573	64, 737	2, 934	188, 488	1, 021, 057	
Boxes, paper, not elsewhere classified.....	38	250	1, 482	3, 109	698, 184	1, 733, 250	5, 746, 546	51, 423	10, 264, 694	4, 467, 425	
Boxes, wooden, except cigar boxes.....	44	134	1, 437	8, 024	356, 469	1, 850, 608	5, 799, 536	98, 256	10, 024, 440	4, 131, 654	
Bread and other bakery products.....	1, 361	1, 204	11, 395	1, 406	26, 937	2, 861, 307	17, 260, 121	42, 957, 635	1, 321, 023	88, 147, 253	
Brooms.....	19	26	145	96	40, 792	160, 518	330, 118	2, 769	383, 004	350, 117	
Brushes, other than rubber.....	8	25	108	85	67, 958	133, 703	331, 491	3, 147	709, 161	874, 523	
Butter.....	92	258	1, 092	427	6, 494	495, 347	1, 543, 499	30, 108, 205	398, 375	36, 421, 103	
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	39	288	4, 319	592	8, 006	843, 843	3, 335, 194	18, 988, 661	277, 346	29, 534, 051	
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	389	1, 772	28, 186	4, 082	35, 057	4, 264, 330	23, 462, 511	137, 081, 079	1, 237, 046	220, 405, 391	
Car and general construction and repairs, electric-railroad repair shops.....	18	118	2, 559	6, 661	291, 468	3, 949, 573	1, 603, 478	64, 446	5, 953, 922	4, 285, 998	
Car and general construction and repairs, steam-railroad repair shops.....	66	1, 019	13, 838	5, 539	30, 720	2, 429, 152	21, 367, 194	15, 989, 373	1, 076, 420	40, 875, 914	
Carbon paper and inked ribbons.....	4	7	18	55	17, 176	22, 381	98, 708	1, 558	189, 756	86, 400	
Carpets and rugs, rag.....	12	9	94	152	25, 312	124, 880	58, 846	4, 292	374, 178	311, 040	
Caskets, coffins, burial cases, and other morticians' goods.....	23	78	390	1, 024	235, 326	659, 386	1, 581, 700	14, 581	3, 264, 452	1, 668, 111	
Cement.....	12	246	2, 295	16, 215	79, 480	673, 982	3, 576, 365	4, 438, 998	5, 007, 549	22, 103, 617	
Cereal preparations.....	9	19	102	604	55, 024	133, 816	639, 084	16, 102	1, 749, 115	1, 093, 290	
Cheese.....	37	43	181	142	1, 034	93, 129	333, 289	2, 861, 073	51, 917	4, 108, 627	
Chemicals, not elsewhere classified.....	48	478	2, 152	2, 037	26, 438	1, 189, 058	3, 438, 465	9, 094, 366	1, 822, 924	24, 636, 002	
Chocolate and cocoa products, not including confectionery.....	5	52	254	75	3, 368	167, 632	316, 238	3, 638, 696	62, 714	5, 494, 274	
Clay products (other than pottery) and nonclay refractories.....	112	462	4, 983	1, 120	26, 610	1, 225, 099	6, 137, 625	2, 340, 447	1, 870, 348	18, 820, 054	
Cleaning and polishing preparations.....	34	53	37	292	100, 238	115, 931	411, 659	4, 563	962, 474	14, 612, 269	
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	88	224	2, 267	506	573, 919	2, 659, 321	4, 088, 420	33, 421	9, 158, 860	5, 057, 019	
Clothing, women's, not elsewhere classified.....	305	901	7, 165	1, 371	1, 976, 508	8, 328, 318	20, 328, 960	97, 692	35, 577, 296	18, 150, 644	
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	26	226	1, 388	80	760	455, 141	1, 874, 843	4, 269, 608	22, 091	7, 834, 274	
Coffee and spice, roasting and grinding.....	83	375	698	167	4, 382	1, 269, 583	982, 276	37, 946, 351	130, 022	46, 874, 428	
Compressed and liquefied gases.....	24	229	215	276	3, 818	450, 480	334, 651	973, 657	176, 835	2, 364, 004	
Concrete products.....	171	233	1, 561	265	5, 529	655, 481	2, 372, 861	3, 010, 251	72, 454	3, 514, 556	
Condensed and evaporated milk.....	40	106	588	2, 059	6, 612	239, 009	812, 470	14, 099, 788	348, 928	17, 542, 160	
Confectionery.....	226	380	2, 815	118	3, 873	957, 681	2, 780, 567	9, 214, 573	165, 938	17, 625, 929	
Cooperage.....	14	30	299	390	1, 292	103, 507	486, 409	1, 813, 383	22, 339	2, 759, 630	
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	264	404	1, 701	9	2, 708	953, 370	2, 652, 637	5, 567, 077	62, 309	6, 684, 003	
Cordage and twine.....	5	54	350	400	336	179, 484	347, 899	1, 604, 396	22, 312	1, 149, 492	
Cotton goods.....	8	66	1, 153	6, 335	159, 157	1, 238, 715	8, 790, 137	195, 427	6, 406, 413	2, 420, 849	
Cotton small wares.....	3	10	30	31	11, 943	23, 364	22, 950	588	81, 485	57, 941	
Cutlery (not including silver and plated cutlery) and edge tools.....	7	2	23	117	(*)	38, 886	24, 152	2, 799	102, 956	76, 005	
Dairyman's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.....	15	32	105	265	64, 026	129, 174	360, 431	4, 446	650, 160	285, 283	
Doors, shutters, and window sash and frames, metal.....	16	133	612	1, 645	375, 627	1, 020, 936	1, 397, 234	26, 316	3, 546, 617	2, 123, 067	
Druggists' preparations.....	22	71	162	190	106, 029	179, 947	653, 173	11, 300	1, 752, 705	1, 083, 232	
Dyeing and finishing textiles.....	12	62	181	516	162, 032	256, 111	974, 762	17, 906	1, 760, 111	776, 443	
Electrical machinery, apparatus, and supplies.....	135	1, 147	4, 353	50	11, 982	2, 699, 939	6, 639, 273	20, 648, 611	326, 023	21, 153, 318	
Electroplating.....	62	58	345	15	3, 371	119, 800	623, 243	233, 232	40, 663	1, 578, 162	
Embroideries.....	14	7	77	20	9, 545	88, 063	60, 555	1, 566	310, 904	248, 743	
Engines, turbines, tractors, and water wheels.....	15	382	2, 456	300	12, 739	2, 159, 554	4, 210, 181	8, 540, 074	200, 701	19, 978, 060	
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking.....	11	12	45	32	19, 356	74, 966	51, 067	1, 348	278, 809	225, 494	
Engraving, steel and copperplate, and plate printing.....	42	74	261	267	146, 175	348, 636	354, 378	6, 335	1, 282, 159	921, 446	
Envelopes.....	9	82	398	462	195, 581	482, 086	1, 084, 561	10, 431	2, 411, 999	1, 316, 977	
Fancy and miscellaneous articles, not elsewhere classified.....	55	104	701	213	244, 737	618, 960	1, 161, 283	9, 806	2, 712, 641	1, 541, 552	
Feeds, prepared, for animals and fowls.....	95	343	732	107	10, 805	765, 352	1, 051, 114	23, 988, 377	169, 037	5, 229, 296	
Fertilizers.....	21	101	302	270	3, 146	322, 114	390, 970	3, 595, 281	68, 398	5, 517, 940	
Flags and banners.....	7	12	35	22	34, 384	42, 420	100, 163	1, 349	276, 551	175, 039	
Flavoring extracts and flavoring sirups.....	59	145	362	230	1, 039	361, 022	508, 102	2, 018, 926	32, 242	6, 109, 684	
Flour and other grain-mill products.....	54	345	719	315	11, 313	767, 747	1, 118, 207	27, 514, 691	247, 989	32, 864, 893	
Food preparations, not elsewhere classified.....	138	208	930	1, 630	472, 523	932, 679	5, 679, 760	85, 238	9, 660, 987	5, 102, 213	
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	8	36	197	130	2, 876	103, 763	389, 641	1, 428, 023	88, 680	2, 875, 055	
Foundry and machine-shop products, not elsewhere classified.....	679	3, 387	17, 186	2, 164	65, 744	9, 291, 740	28, 978, 483	45, 832, 367	1, 967, 534	73, 512, 683	
Fur goods.....	86	71	383	151	199, 596	657, 396	2, 124, 760	9, 634	3, 831, 513	1, 697, 129	

See footnotes at end of this table, p. 68.



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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	
				Prime movers	Electric motors driven by purchased energy							
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	
Furnishing goods, men's, not elsewhere classified	15	117	612		162	256,814	644,570	2,631,456	7,428	4,531,611	1,892,727	
Furniture, including store and office fixtures	339	1,213	7,031	61	19,117	3,258,611	12,166,336	19,876,784	259,044	44,999,183	24,860,855	
Furs, dressed	3		12		41		19,855	19,564	662	70,516	50,260	
Galvanizing and other coating, not done in plants operated in connection with rolling mills	10	14	78		104		29,859	109,464	217,176	22,063	485,026	245,787
Gas and electric fixtures, lamps, lanterns, and reflectors	83	236	977		1,140		728,234	1,531,759	2,282,548	33,000	5,969,188	3,653,640
Gas machines, gas motors, and water and other liquid meters	6	78	193		582		181,922	285,281	447,928	11,187	1,308,437	840,342
Gas, manufactured, illuminating and heating	38	713	2,044	27,484	23,185	1,197,730	2,460,390	2,941,197	4,105,921	26,230,629	19,123,829	
Glass	16	243	1,526	900	5,774		635,675	2,531,757	1,945,751	9,680,008	7,174,783	
Glass products (except mirrors) made from purchased glass	25	23	111		120		52,358	178,708	210,133	8,944	599,863	380,786
Gloves and mittens, leather	17	46	292		72		112,863	287,518	458,032	3,288	1,053,279	591,959
Glue and gelatin	5	11	85	134	506		35,985	120,109	549,477	30,216	818,775	239,082
Gold leaf and foil	6	1	15		3		( <sup>4</sup> )	16,539	23,610	30	64,199	40,550
Gold, silver, and platinum, reducing and refining, not from the ore	7	29	33		184		65,673	52,912	1,141,739	5,373	1,362,480	215,368
Grease and tallow, not including lubricating greases	19	45	323	225	2,519		112,744	488,311	2,642,701	85,740	3,905,864	1,177,423
Hair work	5		21	17				37,239	34,847	846	10,914	105,221
Hand stamps and stencils and brands	27	57	240		561		140,731	338,348	244,116	7,942	1,057,894	805,836
Hardware not elsewhere classified	27	112	420	1	781		287,141	521,925	566,097	19,110	1,969,154	1,383,947
Hats and caps, except felt and straw, men's	32	31	234		69		71,084	306,062	632,256	4,957	1,235,625	698,312
Hats, fur-felt	6	18	72		52		37,951	100,468	375,593	4,345	650,385	270,427
House-furnishing goods, not elsewhere classified	30	162	701		777		325,412	864,111	2,573,183	27,439	4,759,599	2,158,047
Ice cream	194	317	1,050	97	10,086		712,207	1,660,856	3,288,430	300,726	18,979,050	10,389,904
Ice, manufactured	223	363	1,842	9,881	71,538		967,054	2,875,231	477,952	1,950,517	14,448,732	12,020,263
Ink, printing	6	42	129		1,551		101,212	184,784	1,040,955	29,714	1,499,997	420,328
Instruments, professional and scientific	14	19	90		155		61,102	136,894	113,028	3,213	410,785	303,544
Iron and steel, processed	5	5	13		115		13,944	27,686	31,843	8,452	144,373	104,078
Iron and steel: Steel works and rolling mills	19	589	6,616	100	78,860		1,901,307	10,837,685	13,615,088	2,432,977	34,846,895	18,798,330
Ivory, shell, and bone work, not including buttons, combs, or hairpins	3	9	71		132		19,833	81,503	75,717	3,247	224,288	145,274
Jewelry	111	139	699		648		262,531	1,161,244	1,685,890	13,556	4,244,741	2,645,295
Jewelry and instrument cases	4	1	12		15		( <sup>4</sup> )	16,237	21,117	242	59,755	59,376
Knit goods	48	205	1,834	217	930		731,260	2,048,776	4,619,342	46,858	10,302,739	5,739,639
Labels and tags	8	37	169		340		169,039	278,461	355,017	9,176	1,133,629	769,436
Leather goods, not elsewhere classified	26	36	152	1	107		70,306	165,077	428,422	3,788	817,999	334,839
Leather: Tanned, curried, and finished	10	52	504	882	2,825		208,083	687,553	3,079,792	67,014	4,410,843	1,264,067
Lime	7	17	144		1,948		45,149	193,293	160,203	96,635	679,862	422,544
Liquors, vinous	15	34	145	182	1,851		209,833	218,461	880,841	23,983	1,735,558	1,331,074
Lithographing	15	274	926	10	2,432		888,422	1,706,756	2,431,319	44,843	7,001,777	4,585,615
Lubricating oils and greases, not made in petroleum refineries	13	35	65		288		72,674	89,958	410,939	10,362	970,792	549,501
Lumber and timber products, not elsewhere classified	148	1,406	21,822	105,352	17,937		3,768,787	32,465,404	10,318,763	545,800	65,107,608	54,333,045
Macaroni, spaghetti, vermicelli, and noodles	57	98	361	60	2,370		177,290	461,126	1,878,732	74,923	3,647,069	1,533,414
Machine-tool accessories and small metal-working tools, not elsewhere classified	25	40	236		614		111,631	398,779	208,642	9,723	1,058,550	840,185
Marble, granite, slate, and other stone products	65	175	927	390	8,433		635,973	1,742,556	2,199,690	92,790	6,114,688	3,822,108
Mattresses and bed springs, not elsewhere classified	65	106	1,333		3,381		387,415	1,733,540	4,729,244	60,491	6,000,015	4,819,280
Meat packing, wholesale	94	1,066	3,858	2,582	12,020		3,074,935	6,084,433	119,327,851	544,143	199,040,822	10,177,823
Milinery	92	329	2,702		462		719,173	2,681,360	4,495,668	44,279	10,051,799	6,111,362
Minerals and earths, ground or otherwise treated	9	60	132		3,017		166,411	201,912	651,493	65,957	1,596,436	878,986
Mirror and picture frames	12	27	194		236		194,550	273,869	45,850	4,204	845,792	565,610
Mirrors, framed and unframed	36	39	249	7	699		110,488	467,273	905,324	18,827	2,031,037	1,100,886
Models and patterns, not including paper patterns	52	38	278		801		76,859	532,003	235,830	11,607	1,253,633	1,006,496
Motion pictures, not including projection in theatres	58	7,117	8,052	6,425	38,634		52,514,220	19,583,302	25,007,630	491,260	129,391,172	103,892,282
Motor-vehicle bodies and motor-vehicle parts	94	289	2,170		4,012		832,128	3,350,806	10,148,576	87,315	16,957,064	6,371,168
Motor vehicles, not including motorcycles	23	755	5,443	500	6,807		1,999,807	7,916,949	82,343,203	229,052	198,310,167	55,743,912
Mucilage, paste, and other adhesives, except glue and rubber cement	9	8	20	8	15		23,749	25,182	239,903	1,584	441,841	200,354
Musical instruments and parts and materials, not elsewhere classified	9	12	82		118		28,527	104,523	49,228	1,708	276,077	225,143
Musical instruments: Organs	6	16	107		335		74,461	172,080	104,374	5,332	584,858	476,152
Nonferrous-metal alloys and products, not including aluminum products	70	215	1,028	25	3,043		646,692	1,580,833	6,273,335	145,550	10,587,042	4,168,851
Oil, cake, and meal, cottonseed	8	49	165		4,422		153,004	198,702	2,895,407	93,421	5,142,500	2,183,672
Oils, not elsewhere classified	14	111	485	155	6,922		307,237	898,117	18,212,063	20,505	21,235,290	2,782,719
Oleomargarine, not made in meat-packing establishments	8	35	103		383		62,624	183,448	1,565,793	17,987	2,356,000	772,226
Optical goods	5	11	33		22		17,909	53,812	149,818	834	367,057	210,355
Paints and varnishes	52	650	1,414	30	9,756		1,588,775	2,198,041	15,859,080	254,637	29,393,866	10,278,170
Paper	12	243	1,793	17,020	27,928		595,279	2,701,135	3,148,822	1,151,336	17,139,402	7,836,243
Paper goods, not elsewhere classified	14	51	194		774		168,505	284,927	1,787,519	22,508	2,896,360	1,116,833
Patent or proprietary medicines and compounds	117	347	649	60	2,067		1,013,235	794,822	4,497,828	48,138	10,215,968	5,700,302
Paving materials: Asphalt, tar, crushed slag, and mixtures	5	9	28		386		13,516	56,378	434,441	9,685	768,829	324,703
Peanuts, walnuts, and other nuts, processed or shelled	43	112	673	7	2,149		181,653	646,997	9,574,962	26,521	12,177,938	2,576,455
Perfumes, cosmetics, and other toilet preparations	55	120	203		206		810,833	197,910	1,123,951	4,812	3,094,169	1,955,406
Petroleum refining	54	2,039	8,133	60,780	85,621		4,850,929	16,096,007	357,319,104	3,643,357	484,756,207	123,793,746
Photo-engraving, not done in printing establishments	54	219	558		694		675,772	1,373,311	402,170	37,543	3,702,800	3,263,093
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	397	1,032	7,159	17,828	65,749		2,571,802	11,087,017	29,815,618	528,308	50,562,173	20,218,247

See footnotes at end of this table p. 63.

## CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	13	174	1,282	-----	5,699	Dollars 368,991	Dollars 1,894,129	Dollars 1,879,541	Dollars 195,017	Dollars 6,119,779	Dollars 4,045,221
Pocketbooks, purses, and cardcases.....	11	14	107	-----	14	47,117	118,040	247,276	985	491,327	243,038
Pottery, including porcelain ware.....	21	93	1,068	-----	2,831	274,247	1,417,208	800,809	206,961	4,325,612	3,317,842
Poultry killing, dressing, and packing, wholesale.....	24	80	299	-----	325	223,331	345,172	5,999,472	13,048	7,225,264	1,211,844
Printing and publishing, book and job.....	951	1,987	0,535	14	9,031	5,009,099	11,889,309	14,470,982	320,608	40,321,084	34,529,548
Printing and publishing, music.....	4	31	24	-----	41	189,452	35,385	19,154	760	377,374	357,400
Printing and publishing, newspaper and periodical.....	755	11,320	6,876	78	18,128	21,265,357	14,239,754	10,872,362	519,387	94,655,488	74,263,739
Printing materials, not including type or ink.....	4	13	7	-----	43	26,807	10,677	50,150	1,987	141,237	89,091
Pumps (hand and power) and pumping equipment.....	57	707	1,088	185	7,258	1,684,912	3,237,377	6,810,694	152,204	17,178,076	10,215,178
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	21	88	440	-----	1,187	178,345	766,874	1,552,880	17,703	3,196,076	1,626,524
Rice cleaning and polishing.....	11	39	209	300	4,453	109,046	300,170	6,253,756	67,540	3,024,130	1,702,834
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	10	78	492	-----	2,147	185,202	567,871	4,794,809	104,281	10,155,956	5,256,806
Rubber goods other than tires, inner tubes, and boots and shoes.....	23	149	942	-----	14,133	589,402	1,269,974	2,846,634	279,619	7,437,074	4,310,821
Rubber tires and inner tubes.....	7	1,004	5,339	2,305	38,006	2,330,714	8,171,784	32,870,139	847,934	50,287,838	22,599,715
Saddlery and harness.....	7	23	79	-----	77	51,398	115,225	246,916	2,567	464,357	214,874
Salt.....	11	55	441	1,350	4,169	190,463	687,893	946,864	141,703	3,668,108	2,579,541
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	68	45	275	21	1,045	130,580	410,874	2,910,622	41,483	4,282,271	1,324,166
Screw-machine products and wood screws.....	9	7	61	-----	331	12,760	84,024	123,010	4,850	323,332	195,472
Ship and boat building, steel and wooden, including repair work.....	60	421	4,178	684	50,479	762,474	7,805,457	7,681,383	334,402	20,665,345	12,040,465
Shirts.....	18	60	938	-----	399	142,035	860,491	1,951,191	8,538	3,436,720	1,476,991
Signs and advertising novelties.....	98	290	363	-----	425	575,628	1,501,293	1,380,093	26,549	7,221,151	5,811,509
Silversmithing and silverware.....	6	6	41	-----	57	12,642	56,582	52,712	1,424	166,405	132,269
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	6	82	301	150	2,134	270,652	415,841	4,602,057	109,266	5,856,788	1,145,465
Soap.....	33	372	623	748	3,586	949,074	945,156	10,628,949	118,019	10,842,049	9,095,081
Soda-water apparatus.....	3	5	20	-----	26	17,085	36,018	91,721	516	195,329	103,092
Sporting and athletic goods, not including firearms or ammunition.....	12	11	42	-----	51	33,475	56,807	121,787	3,311	291,652	166,554
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	8	38	162	-----	867	97,187	238,973	293,516	25,066	948,544	629,062
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquaring.....	23	94	593	-----	1,058	275,364	759,308	1,186,044	54,488	3,123,202	1,882,670
Stationery goods, not elsewhere classified.....	9	28	106	-----	173	56,495	136,195	236,629	5,238	822,071	680,200
Statuary and art goods, factory product.....	26	20	181	3	140	51,149	315,960	204,702	4,937	870,955	661,316
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	18	55	218	-----	1,296	130,934	307,914	551,855	57,828	1,448,848	839,165
Steel barrels, kegs, and drums.....	5	103	698	-----	2,292	242,168	872,334	3,519,381	29,685	5,520,997	1,971,931
Stereotyping and electrotyping, not done in printing establishments.....	7	37	143	-----	505	107,851	294,557	72,013	15,330	782,360	695,017
Stoves and ranges (other than electric) and warm-air furnaces.....	61	453	1,661	330	3,968	1,155,451	2,631,076	4,764,790	115,555	12,022,390	7,142,045
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	136	324	1,973	140	7,468	936,275	3,267,298	6,318,548	119,304	13,829,223	7,391,371
Sugar, beet.....	5	96	707	10,791	1,073	234,851	1,009,687	6,392,811	559,045	11,211,474	4,259,618
Surgical and orthopedic appliances, including artificial limbs.....	29	45	159	-----	88	95,662	212,375	266,324	5,022	842,393	571,047
Theatrical scenery and stage equipment.....	7	22	87	-----	65	89,342	131,132	263,841	3,010	670,525	403,674
Tools, not including edge tools, machine tools, files, or saws.....	20	22	171	-----	614	74,662	266,755	182,396	17,279	991,370	791,695
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	16	32	147	-----	190	66,202	150,254	219,647	4,982	661,994	437,305
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	24	20	172	2	64	47,098	202,729	216,428	6,055	681,751	459,268
Trunks, suitcases, and bags.....	42	86	436	-----	300	224,921	550,887	1,217,048	10,684	2,578,598	1,350,866
Upholstering materials, not elsewhere classified.....	5	7	47	50	37	13,331	65,730	281,076	3,760	447,970	163,134
Vinegar and cider.....	12	14	71	-----	480	19,855	79,729	301,023	16,394	542,548	225,131
Wall plaster, wall board, insulating board, and floor composition.....	39	106	291	650	4,409	268,055	521,250	1,632,397	135,071	3,212,007	1,444,039
Washing machines, wringers, driers, and ironing machines, for household use.....	5	19	64	-----	169	36,115	111,613	144,766	2,803	313,722	166,153
Waste.....	6	6	66	-----	303	25,960	44,512	393,486	9,980	529,535	126,069
Window and door screens and weather strip.....	19	47	217	-----	1,001	130,148	314,522	547,468	7,640	1,318,735	793,627
Window shades and fixtures.....	60	49	208	-----	143	37,374	269,768	978,917	5,698	1,798,447	813,932
Wirework, not elsewhere classified.....	30	123	571	-----	2,239	341,607	756,608	3,272,951	34,584	6,540,496	3,232,961
Wood preserving.....	10	29	325	5,570	822	64,894	447,403	5,845,081	95,235	6,232,330	792,014
Wood turned and shaped and other wooden goods, not elsewhere classified.....	32	31	255	-----	888	89,728	300,451	435,049	9,770	1,159,212	714,384
Woolen goods.....	5	37	370	-----	1,132	120,033	395,430	930,988	37,918	1,561,325	592,419
Wool scouring.....	3	12	83	220	695	21,520	88,061	40,643	14,256	104,834	139,935
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	11	120	574	-----	4,133	478,152	848,228	2,910,142	51,724	5,801,546	2,839,680
Other industries.....	214	1,813	12,171	13,218	47,139	4,439,269	16,461,247	172,411,935	1,954,883	249,964,015	75,597,197

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

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

<sup>3</sup> Not including data for 11,688 employees of central administrative offices, with salaries aggregating \$28,482,626. See GENERAL EXPLANATIONS—Persons Engaged.

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

TABLE 13.—GENERAL STATISTICS FOR 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 *	Cost of fuel and purchased electric energy	Value of products *	Value added by manufacture *
				Prime movers	Electric motors driven by purchased energy						

LOS ANGELES INDUSTRIAL AREA

[This area is coextensive with Los Angeles County. The totals for all industries do not include data for a few establishments located outside the Industrial area (see footnotes 1 and 2), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total.....	4,908	31,167	114,480	81,005	457,826	Dollars 110,712,561	Dollars 175,812,298	Dollars 696,606,868	Dollars 13,831,246	Dollars 1,319,886,486	Dollars 609,048,374
Aircraft and parts.....	15	295	1,219	-----	792	613,410	1,906,481	2,002,463	25,730	4,691,509	2,660,316
Aluminum manufactures.....	8	15	93	-----	147	39,626	155,294	178,034	7,716	460,086	274,336
Awnings, tents, sails, and canvas covers.....	49	48	261	-----	236	107,180	325,922	876,853	3,788	1,687,726	308,087
Belting, leather.....	5	13	27	-----	42	31,081	45,775	208,477	1,155	419,141	209,609
Beverages.....	42	205	565	910	2,110	408,096	872,497	2,261,062	65,992	6,094,871	3,767,817
Blackings, stains, and dressings.....	7	26	34	-----	34	56,016	30,967	190,403	1,361	411,679	219,915
Bookbinding and blank-book making.....	21	83	367	-----	352	218,687	450,273	407,004	6,500	1,834,280	1,420,776
Boots and shoes, other than rubber.....	5	61	362	-----	402	143,733	463,144	773,022	7,482	1,603,720	823,216
Boxes, paper, not elsewhere classified.....	18	123	603	-----	917	346,942	664,157	2,032,066	25,464	3,812,276	1,754,746
Boxes, wooden, except cigar boxes.....	7	25	242	260	411	62,310	339,007	1,226,695	7,944	1,880,911	646,372
Bread and other bakery products.....	446	512	5,060	1,028	10,157	1,383,975	7,184,994	10,302,870	453,082	39,916,016	20,160,064
Brooms.....	5	10	69	-----	34	29,805	93,093	167,848	963	384,266	195,955
Brushes, other than rubber.....	4	15	33	-----	62	35,809	46,845	101,910	699	253,971	151,362
Butter.....	10	6	22	-----	281	10,116	35,216	500,169	7,087	636,462	129,206
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	11	125	1,010	100	3,534	406,299	1,635,861	9,340,040	120,127	14,564,108	5,094,341
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	57	209	1,921	190	2,085	534,316	1,340,355	6,194,764	85,007	10,812,885	4,533,114
Car and general construction and repairs, steam-railroad repair shops.....	7	213	2,868	-----	7,260	543,390	4,698,109	2,371,035	182,557	8,295,616	5,241,469
Carpets and rugs, rag.....	3	-----	9	-----	20	-----	9,189	3,842	120	23,616	19,554
Caskets, coffins, burial cases, and other morticians' goods.....	9	33	206	-----	448	110,299	381,521	600,869	6,407	1,561,578	945,802
Cereal preparations.....	3	6	18	-----	77	22,627	22,707	109,316	593	317,235	207,321
Chemicals, not elsewhere classified.....	15	87	430	-----	7,635	166,141	615,928	3,212,676	183,156	5,472,312	2,076,580
Clay products (other than pottery) and nonclay refractories.....	61	265	3,095	80	14,772	682,565	3,691,826	1,559,004	1,073,313	11,071,131	8,438,214
Cleaning and polishing preparations.....	19	41	53	-----	171	77,013	65,282	273,856	1,926	641,214	365,432
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	44	165	1,555	-----	378	439,465	1,723,297	2,931,564	20,054	6,326,675	3,375,057
Clothing, women's, not elsewhere classified.....	208	687	5,390	-----	976	1,604,247	6,302,059	15,709,861	70,540	29,250,557	13,470,156
Coffee and spice, roasting and grinding.....	35	117	231	-----	1,160	290,383	290,326	7,462,637	21,277	9,532,632	2,048,718
Compressed and liquefied gases.....	10	121	107	190	1,894	228,387	158,910	688,065	85,548	1,930,249	1,256,636
Concrete products.....	54	104	618	36	1,855	337,007	1,014,669	845,846	15,078	3,250,907	2,389,983
Confectionery.....	96	136	1,072	22	1,549	301,339	1,043,077	3,638,323	51,201	6,878,977	3,244,393
Copperage.....	4	7	60	-----	292	24,280	113,648	303,171	6,245	612,521	203,105
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	113	155	711	9	882	340,080	1,094,975	2,112,365	26,733	4,892,563	2,753,465
Cotton small wares.....	3	10	30	-----	31	11,943	23,304	22,956	588	81,463	97,941
Doors, shutters, and window sash and frames, metal.....	8	33	168	-----	378	80,388	271,737	235,470	5,772	702,833	461,591
Druggists' preparations.....	13	20	68	-----	49	44,796	71,622	410,820	2,309	854,209	440,580
Dyeing and finishing textiles.....	7	42	109	-----	383	116,023	157,909	607,922	10,376	1,116,059	437,261
Electrical machinery, apparatus, and supplies.....	80	313	1,235	50	2,766	731,728	1,729,852	5,089,649	70,612	11,008,673	5,248,412
Electroplating.....	31	34	175	-----	2,663	67,559	359,471	113,945	22,178	821,842	726,619
Engines, turbines, tractors, and water wheels.....	7	107	476	300	1,077	263,079	801,526	800,231	16,956	2,206,893	1,389,706
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	5	8	24	-----	21	13,508	33,272	31,088	642	139,588	107,858
Engraving, steel and copperplate, and plate printing.....	21	60	174	-----	182	120,412	231,449	251,129	3,062	907,651	652,800
Envelopes.....	5	30	147	-----	137	80,025	164,780	226,470	2,803	638,227	408,964
Fancy and miscellaneous articles, not elsewhere classified.....	32	62	433	-----	104	139,728	391,478	851,219	5,581	1,806,569	948,769
Feeds, prepared, for animals and fowls.....	23	175	294	-----	3,577	370,314	401,897	8,252,343	45,634	10,374,283	2,079,306
Fertilizers.....	10	52	123	45	1,040	137,097	144,312	2,319,240	22,315	3,325,105	983,545
Flavoring extracts and flavoring sirups.....	31	44	102	-----	154	91,171	108,448	1,149,046	4,896	2,845,594	1,691,052
Flour and other grain-mill products.....	12	129	254	150	2,789	319,522	404,012	7,203,139	55,930	9,230,323	1,851,704
Food preparations, not elsewhere classified.....	73	128	507	-----	1,015	314,045	532,556	3,264,059	43,217	5,619,397	2,212,091
Foundry and machine-shop products, not elsewhere classified.....	321	2,020	11,134	1,774	42,661	5,025,776	18,587,880	31,487,190	1,294,241	81,762,327	48,980,896
Fur goods.....	35	37	133	-----	73	123,182	235,340	680,191	3,097	1,661,339	873,051
Furnishing goods, men's, not elsewhere classified.....	9	84	460	-----	139	166,869	461,065	1,074,021	4,721	3,284,840	1,306,088
Furniture, including store and office fixtures.....	193	882	5,904	1	13,690	2,378,028	8,948,679	14,647,339	182,663	32,806,561	15,035,449
Gas and electric fixtures; lamps, lanterns, and reflectors.....	58	172	667	-----	878	527,276	1,059,288	1,692,304	23,091	4,297,000	2,581,605
Glass products (except mirrors) made from purchased glass.....	14	10	55	-----	59	21,608	94,012	86,379	2,689	237,728	198,160
Gloves and mittens, leather.....	5	19	132	-----	23	54,635	137,561	192,246	4,334	449,008	255,928
Hand stamps and stencils and brands.....	12	44	161	-----	473	109,888	204,520	133,801	4,937	616,341	477,603
Hardware not elsewhere classified.....	12	38	208	-----	339	79,768	260,180	282,837	9,120	397,328	605,871
Hats and caps, except felt and straw, men's.....	15	17	130	-----	38	30,250	179,800	331,831	2,150	671,498	337,517
House-furnishing goods, not elsewhere classified.....	53	62	404	-----	322	130,009	469,739	1,449,594	10,762	2,557,397	1,100,051
Ice cream.....	60	125	417	80	4,110	310,857	656,530	3,959,165	103,553	9,752,912	5,090,206
Ice, manufactured.....	62	119	479	3,741	19,725	346,548	780,483	165,780	885,053	3,679,954	3,208,521
Instruments, professional and scientific.....	6	14	51	-----	33	33,666	88,468	43,613	1,018	200,802	156,166
Iron and steel: Steel works and rolling mills.....	10	217	2,430	100	21,725	841,736	4,060,606	5,077,111	1,015,083	13,908,331	7,876,667
Jewelry.....	49	83	264	-----	130	168,976	451,445	746,067	3,078	1,932,505	1,182,770
Knit goods.....	31	125	1,018	125	631	450,748	1,307,036	2,927,304	29,251	6,340,602	3,384,047
Leather goods, not elsewhere classified.....	13	18	91	-----	53	22,623	65,312	257,140	1,247	485,294	226,807
Lithographing.....	6	118	351	-----	548	390,363	588,364	940,975	10,786	2,678,598	1,726,837
Lubricating oils and greases, not made in petroleum refineries.....	8	27	46	-----	230	59,464	61,729	325,287	8,491	763,517	429,769

See footnotes at end of this section, p. 70.

## 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
LOS ANGELES INDUSTRIAL AREA—Continued											
Macaroni, spaghetti, vermicelli, and noodles.....	15	44	124	-----	599	Dollars 65,496	Dollars 127,178	Dollars 569,846	Dollars 20,131	Dollars 1,086,159	Dollars 496,179
Machine-tool accessories and small metal-working tools, not elsewhere classified <sup>1</sup> .....	11	17	113	-----	342	45,899	178,543	120,686	4,082	507,767	383,029
Marble, granite, slate, and other stone products.....	21	70	285	-----	3,300	233,207	508,411	897,851	30,030	2,475,814	1,647,924
Mattresses and bed springs, not elsewhere classified.....	29	41	312	-----	581	91,759	381,291	1,177,104	13,001	2,103,043	1,002,878
Meat packing, wholesale.....	25	605	2,110	-----	1,357	1,812,656	3,157,006	60,478,416	258,124	70,114,706	9,378,166
Millinery.....	61	154	1,359	-----	197	293,208	1,450,733	2,395,186	22,035	5,465,195	3,047,974
Mirror and picture frames.....	7	14	113	-----	198	29,900	150,950	133,274	3,396	459,961	323,201
Mirrors, framed and unframed.....	19	35	168	-----	7	106,608	310,291	663,067	10,425	1,463,542	790,050
Models and patterns, not including paper patterns.....	27	32	195	-----	518	67,088	374,428	178,926	6,504	875,779	690,349
Motion pictures, not including projection in theaters.....	52	7,117	8,036	-----	6,425	38,613	52,514,220	24,968,535	439,410	129,274,240	103,810,361
Motor-vehicle bodies and motor-vehicle parts.....	47	163	782	-----	2,148	538,878	1,289,897	2,155,207	39,695	5,188,053	2,992,151
Musical instruments and parts and materials, not elsewhere classified.....	6	8	60	-----	110	21,827	70,737	40,778	1,451	193,277	150,048
Nonferrous-metal alloys and products, not including aluminum products.....	34	86	469	-----	25	1,149	283,727	1,997,854	53,108	4,276,265	2,225,243
Paints and varnishes.....	38	143	434	-----	2,328	377,538	620,845	4,406,993	41,949	7,230,531	2,781,584
Paper.....	6	116	673	-----	5,260	7,157	353,379	2,637,860	342,880	6,365,636	3,384,396
Paper goods, not elsewhere classified.....	9	25	99	-----	403	62,759	145,376	855,204	9,874	1,467,049	601,911
Patent or proprietary medicines and compounds.....	53	155	241	-----	502	555,093	295,733	1,688,668	12,673	4,368,895	2,667,554
Peanuts, walnuts, and other nuts, processed or shelled.....	11	27	354	-----	487	42,031	352,127	2,702,508	5,889	3,804,341	1,095,944
Perfumes, cosmetics, and other toilet preparations.....	39	94	154	-----	158	272,215	146,105	846,079	3,426	2,403,210	1,563,705
Petroleum refining.....	32	1,211	4,157	-----	42,440	48,740	2,766,853	8,185,744	237,711,618	327,411,340	89,970,190
Photo-engraving not done in printing establishments.....	24	88	278	-----	357	322,385	671,673	100,510	16,245	1,844,015	1,637,254
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	141	334	2,867	-----	9,282	22,392	820,707	4,562,063	16,538,663	24,937,967	8,208,416
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	7	83	830	-----	2,057	223,660	1,194,715	1,141,737	109,265	3,288,146	2,037,144
Pocketbooks, purses, and cardcases.....	7	6	66	-----	8	22,976	67,779	157,311	370	297,539	139,858
Pottery, including porcelain ware.....	9	40	647	-----	1,168	144,062	733,980	457,003	112,108	1,682,138	1,412,127
Poultry killing, dressing, and packing, wholesale.....	8	8	70	-----	130	22,220	69,396	1,442,369	4,066	1,671,072	224,637
Printing and publishing, book and job.....	428	1,032	2,977	-----	14	4,291	2,690,239	5,239,234	6,804,499	136,728	23,188,037
Printing and publishing, newspaper and periodical.....	240	5,448	2,738	-----	7,979	9,789,163	5,488,384	10,371,412	178,323	43,851,052	33,301,317
Pumps (hand and power) and pumping equipment.....	21	423	1,121	-----	4,356	1,081,367	1,756,293	3,755,224	98,256	8,220,791	5,907,311
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	10	59	346	-----	923	122,143	582,258	1,113,845	14,740	2,397,303	1,268,718
Rubber goods other than tires, inner tubes, and boots and shoes <sup>2</sup> .....	19	60	483	-----	6,696	265,537	628,996	1,079,341	105,730	3,118,431	1,933,360
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	16	19	137	-----	370	68,012	167,775	868,827	13,806	1,404,193	581,560
Screw-machine products and wood screws.....	5	2	29	-----	226	( <sup>c</sup> )	40,036	47,124	2,224	140,482	91,134
Ship and boat building, steel and wooden, including repair work.....	11	97	832	-----	8,121	325,729	1,476,697	1,215,264	77,315	3,733,196	2,440,617
Shirts.....	11	36	622	-----	291	97,838	507,293	1,130,972	4,896	2,119,778	984,411
Signs and advertising novelties.....	65	193	578	-----	258	402,074	838,522	614,945	16,049	4,636,027	3,705,633
Sporting and athletic goods, not including firearms or ammunition.....	3	-----	11	-----	11	-----	15,128	16,876	518	45,412	28,018
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	5	31	138	-----	787	80,504	205,838	265,614	23,180	848,731	559,937
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	12	64	427	-----	782	189,109	543,570	722,533	38,217	2,106,685	1,345,935
Statuary and art goods, factory product.....	13	16	55	-----	3	35,996	163,393	79,171	2,283	354,713	273,250
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	5	12	57	-----	380	42,870	67,747	89,404	18,904	257,085	148,717
Stoves and ranges (other than electric) and warm-air furnaces.....	38	235	854	-----	330	2,105	555,651	1,352,829	2,985,773	6,870,565	3,837,123
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	99	192	1,226	-----	3,641	562,203	2,007,917	3,271,745	55,334	8,031,242	4,704,163
Surgical and orthopedic appliances, including artificial limbs.....	14	15	56	-----	32	45,689	90,486	109,801	577	385,213	274,835
Tools, not including edge tools, machine tools, files, or saws.....	14	16	151	-----	506	59,422	226,936	156,568	12,206	872,712	708,938
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	10	21	95	-----	105	38,569	94,653	135,160	2,030	403,772	266,682
Trimmings (not made in textile mills) and stamped art goods for embroidering <sup>1</sup> .....	16	14	132	-----	2	45	34,063	149,033	4,655	535,157	345,672
Trunks, suitcases, and bags.....	17	41	224	-----	151	113,187	303,296	591,053	5,929	1,257,474	660,492
Vinegar and cider.....	3	1	19	-----	35	( <sup>c</sup> )	24,094	71,327	1,908	126,090	52,855
Wall plaster, wall board, insulating board, and floor composition.....	20	66	170	-----	2,525	175,871	335,638	1,265,461	65,618	2,258,910	927,831
Window and door screens and weather strip.....	14	42	194	-----	889	114,852	271,407	465,209	6,724	1,104,032	632,090
Window shades and fixtures.....	26	16	81	-----	57	32,693	119,815	456,384	2,122	838,315	380,309
Wirework, not elsewhere classified.....	17	48	247	-----	723	170,617	313,304	1,113,856	13,697	2,286,031	1,158,478
Wood preserving.....	4	11	147	-----	3,080	380	23,619	2,271,449	37,121	2,671,602	363,032
Wood turned and shaped and other wooden goods, not elsewhere classified.....	14	14	153	-----	038	43,878	182,597	216,432	5,698	645,000	422,870
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	4	72	343	-----	1,267	303,743	441,806	1,924,990	20,537	3,738,513	1,786,086
Other industries.....	310	2,767	10,768	-----	3,588	79,934	6,871,470	24,167,646	2,086,057	177,567,412	76,408,631

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

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

<sup>1</sup> Includes data for 1 establishment located outside the industrial area.<sup>2</sup> Includes data for 2 establishments located outside the industrial area.<sup>3</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

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

[See note at head of this table]

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

SAN FRANCISCO-OAKLAND INDUSTRIAL AREA

[This area comprises Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties. The totals for all industries do not include data for a few establishments located outside the industrial area (see footnote 4), and therefore are slightly smaller than the sums of the items for the individual industries]

	3,903	20,267	93,797	70,717	439,237	Dollars 49,024,627	Dollars 138,059,176	Dollars 687,959,928	Dollars 14,664,172	Dollars 1,165,683,465	Dollars 463,059,365
All industries, total.....	3,903	20,267	93,797	70,717	439,237	49,024,627	138,059,176	687,959,928	14,664,172	1,165,683,465	463,059,365
Awnings, tents, sails, and canvas covers.....	15	44	101	103	103	86,781	148,662	327,593	3,082	671,565	340,290
Belting, leather.....	5	22	33	73	73	61,791	60,612	203,664	3,398	442,028	234,066
Beverages.....	40	93	327	925	1,054	273,675	564,358	1,294,076	70,798	3,940,214	2,568,440
Bookbinding and blank-book making.....	26	152	530	685	685	352,300	753,728	1,232,068	18,200	3,574,903	2,324,626
Boxes, paper, not elsewhere classified.....	17	123	855	2,167	2,167	342,397	1,041,120	3,677,797	25,243	6,339,274	2,636,234
Boxes, wooden, except cigar boxes.....	20	62	610	250	4,825	180,715	759,289	1,874,863	38,046	3,700,349	1,787,441
Bread and other bakery products.....	443	448	3,791	289	5,971	950,212	6,145,107	13,662,731	445,679	28,551,912	14,463,602
Brooms.....	9	15	62	42	42	8,910	40,133	129,287	1,449	247,040	116,304
Butter.....	12	31	151	911	911	62,035	213,033	3,567,719	25,765	4,326,371	732,887
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	6	18	237	140	399	40,200	174,736	1,149,054	19,045	1,915,312	747,213
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces.....	65	400	7,035	312	7,972	949,670	6,105,980	35,327,376	268,248	59,928,615	24,332,991
Car and general construction and repairs, steam-railroad repair shops.....	9	188	3,306	2,154	5,156	421,094	4,841,431	2,963,483	202,180	8,428,197	5,262,525
Caskets, coffins, burial cases, and other morticians' goods.....	11	39	157	404	404	114,123	234,712	879,146	7,038	1,516,182	629,998
Cheese.....	11	22	38	35	112	47,269	103,500	784,141	12,478	1,281,965	485,346
Chemicals, not elsewhere classified.....	21	167	704	745	9,854	466,622	1,135,163	5,138,260	621,447	10,403,100	4,743,483
Clay products (other than pottery) and nonclay refractories.....	17	73	635	55	3,977	228,161	881,030	206,184	261,944	2,722,169	2,254,041
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	18	152	1,237	80	566	278,243	1,280,747	3,079,437	10,968	5,508,151	2,471,746
Coffee and spices, roasting and grinding.....	32	232	410	167	2,905	923,804	681,508	29,834,846	104,353	36,441,718	6,502,519
Compressed and liquefied gases.....	9	102	96	89	1,594	211,766	154,615	337,608	82,596	1,368,124	497,920
Concrete products.....	23	40	352	122	1,272	111,845	564,200	1,094,892	27,562	2,409,833	1,278,381
Confectionery.....	33	177	1,476	96	1,943	526,782	1,469,577	4,963,588	93,906	9,224,241	4,166,747
Coopersage.....	10	23	230	390	1,000	79,227	372,761	1,510,212	16,094	2,247,109	720,803
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	103	213	776	1,577	1,577	562,879	1,232,545	2,882,370	29,714	5,994,887	3,082,803
Cutlery (not including silver and plated cutlery) and edge tools.....	3	1	13	04	04	(9)	21,230	3,606	1,033	39,394	34,705
Druggists' preparations.....	9	51	94	141	141	121,233	108,325	242,353	8,491	898,496	647,652
Dyeing and finishing textiles.....	5	20	72	133	133	46,009	98,202	306,840	7,030	663,052	339,182
Electrical machinery, apparatus, and supplies.....	51	645	2,618	7,121	1,577,864	3,196,790	12,652,922	211,268	26,864,961	14,000,771	
Electroplating.....	17	22	164	680	680	48,769	254,199	116,221	17,352	680,546	586,973
Engines, turbines, tractors, and water wheels.....	8	775	2,010	11,662	1,896,475	3,408,635	7,739,843	183,745	17,771,167	9,847,579	
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	6	4	21	11	11	5,848	41,694	20,879	706	139,221	117,636
Engraving, steel and copperplate, and plate printing.....	18	11	80	79	79	21,967	107,670	92,187	2,472	337,508	242,849
Fancy and miscellaneous articles, not elsewhere classified.....	23	42	268	40	40	105,014	227,482	310,064	4,225	907,072	592,783
Feeds, prepared, for animals and fowls.....	8	56	115	2,010	2,010	133,767	180,008	6,053,874	41,407	7,058,212	957,931
Fertilizers.....	4	25	103	225	1,544	90,714	162,540	488,155	20,095	856,703	338,462
Flavoring extracts and flavoring sirups.....	19	84	222	5	426	234,501	342,003	1,273,300	15,840	2,778,491	1,489,345
Flour and other grain-mill products.....	6	109	180	30	1,682	238,316	280,790	6,334,588	52,403	7,676,357	1,288,932
Food preparations, not elsewhere classified.....	40	74	317	436	436	148,713	351,473	1,798,720	31,320	3,202,955	1,372,325
Foundry and machine-shop products, not elsewhere classified.....	231	940	4,235	125	14,556	2,605,762	7,301,744	10,507,012	474,605	28,287,824	17,276,207
Furnishing goods, men's, not elsewhere classified.....	6	33	162	23	23	99,945	183,505	607,435	2,707	1,246,771	536,629
Furniture, including store and office fixtures.....	131	310	1,880	60	4,972	841,205	3,004,822	4,853,774	71,123	11,215,878	6,263,951
Gas and electric fixtures; lamps, lanterns, and reflectors.....	23	57	297	244	244	188,538	444,360	559,325	8,947	1,573,474	1,005,202
Glass products (except mirrors) made from purchased glass.....	11	13	56	61	61	30,752	84,691	123,254	6,255	312,185	182,628
Gold leaf and foil.....	3	1	3	2	2	(9)	3,734	10,103	24	24,139	14,012
Grease and tallow, not including lubricating greases.....	8	28	197	120	1,054	65,769	280,960	1,294,178	37,197	2,010,775	679,400
Hand stamps and stencils and brands.....	9	10	80	81	81	27,843	122,709	98,566	2,174	356,797	285,057
Hardware not elsewhere classified.....	12	72	199	411	205,873	243,453	265,123	8,106	1,023,311	1,002,616	
House-furnishing goods, not elsewhere classified.....	32	98	370	463	139,453	383,545	1,083,469	16,543	2,192,628	1,647,308	
Ice cream.....	28	64	205	2,066	128,775	361,162	1,818,092	65,013	1,529,050	827,249	
Ice, manufactured.....	20	23	124	150	6,519	59,252	215,939	40,718	160,083	218,933	
Instruments, professional and scientific.....	8	5	39	72	72	27,536	48,396	69,410	2,195	2,945,554	906,795
Leather: Tanned, curried, and finished.....	6	26	252	807	1,246	109,769	404,611	1,989,253	39,506	4,383,179	2,858,778
Lithographing.....	9	156	575	10	1,884	498,069	1,118,402	1,480,344	34,057	207,275	119,732
Lubricating oils and greases, not made in petroleum refineries.....	5	8	19	68	68	13,210	28,229	85,652	1,891	207,275	119,732
Lumber and timber products, not elsewhere classified.....	3	5	24	600	11,400	39,207	50,454	11,000	140,236	78,782	
Macaroni, spaghetti, vermicelli, and noodles.....	31	46	201	60	1,397	125,893	286,339	1,046,813	40,628	1,970,892	883,451
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	14	23	123	272	272	65,732	220,236	87,856	5,671	550,783	457,156
Marble, granite, slate, and other stone products.....	24	69	388	3,154	215,851	761,961	876,988	3,334	2,102,361	1,393,549	
Mattresses and bed springs, not elsewhere classified.....	25	108	928	2,318	203,925	1,235,594	3,859,775	48,212	6,598,988	3,490,001	
Meat packing, wholesale.....	30	314	1,069	820	3,868	845,193	1,806,827	39,274,092	177,843	45,713,559	6,261,624
Millinery.....	31	175	1,343	265	425,965	1,230,627	2,100,482	22,244	5,186,604	3,063,878	
Mirror and picture frames.....	5	13	81	38	15,950	122,919	142,998	4,996	385,831	242,825	
Mirrors, framed and unframed.....	13	3	63	110	6,328	15,950	202,442	5,081	457,269	249,740	
Models and patterns, not including paper patterns.....	22	4	72	251	7,186	144,546	41,996	4,188	333,671	288,387	
Motion pictures, not including projection in theaters.....	6	6	16	21	21	23,065	39,065	1,850	116,926	75,981	
Motor-vehicle bodies and motor-vehicle parts.....	36	107	1,297	1,489	1,489	254,521	1,906,809	8,169,857	51,176	11,327,325	3,108,292

See footnotes at end of this section, p. 72.

CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>SAN FRANCISCO-OAKLAND INDUSTRIAL AREA—Continued</b>											
Mucilage, paste, and other adhesives, except glue and rubber cement	5	0	14	8	10	Dollars 18,549	Dollars 18,542	Dollars 222,291	Dollars 1,618	Dollars 385,690	Dollars 161,881
Musical instruments and parts and materials, not elsewhere classified	3	4	22		8	6,700	33,786	8,448	267	77,800	69,095
Nonferrous-metal alloys and products, not including aluminum products	32	121	460		1,781	353,575	765,316	3,409,070	82,361	4,854,559	1,303,128
Oils, not elsewhere classified	6	75	419		5,100	200,180	785,903	16,668,508	186,601	18,799,090	1,944,021
Paints and varnishes	39	501	971		7,358	1,201,110	1,651,427	11,333,296	213,675	18,964,740	7,417,869
Patent or proprietary medicines and compounds	62	155	356		905	384,212	480,829	2,284,802	24,021	4,926,083	2,616,615
Peanuts, walnuts, and other nuts, processed or shelled	5	23	73		185	49,184	85,234	601,090	4,215	1,230,501	325,196
Petroleum refining	5	754	3,703	16,686	34,722	1,900,218	7,391,575	101,609,381	629,652	133,021,507	30,782,774
Photo-engraving, not done in printing establishments	22	117	260		206	309,244	653,869	190,788	18,309	1,674,493	1,465,396
Planing-mill products (including general millwork), not made in planing mills connected with sawmills	128	400	2,516	7,853	26,791	1,059,220	3,805,550	8,097,054	178,061	16,048,079	6,872,094
Pocketbooks, purses, and cardcases	4	8	41		6	24,141	50,261	89,965	695	193,788	103,228
Poultry killing, dressing, and packing, wholesale	7	63	187		102	182,934	230,282	3,867,325	6,463	4,064,556	800,763
Printing and publishing, book and job	340	811	2,872		4,042	2,005,302	5,415,200	6,463,096	142,140	21,831,395	15,220,159
Printing and publishing, music	4	31	24		41	139,462	36,885	19,154	760	377,374	357,400
Printing and publishing, newspaper and periodical	204	3,824	2,044		5,335	7,389,215	4,477,034	6,729,430	152,798	32,265,550	25,886,322
Printing materials, not including type or ink	4	13	7		43	26,807	26,807	60,169	1,087	141,237	89,091
Rubber goods, other than tires, inner tubes, and boots and shoes	9	80	459		7,437	273,805	640,978	1,707,293	173,889	4,318,043	2,377,401
Salt	5	36	344	765	3,671	136,401	535,503	777,850	117,073	3,114,138	2,218,606
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	45	23	133	8	564	56,268	234,789	1,950,330	24,431	2,080,917	700,156
Screw-machine products and wood screws	4	5	32		105	9,960	43,988	76,886	2,626	182,850	104,338
Ship and boat building, steel and wooden, including repair work	33	294	3,116	649	41,786	480,032	5,062,268	5,945,644	247,545	15,790,800	9,567,811
Signs and advertising novelties	25	95	266		159	170,303	531,552	441,681	13,237	2,474,244	2,018,326
Sporting and athletic goods, not including firearms or ammunition	9	11	31		40	33,475	41,679	104,911	2,703	246,240	138,536
Statuary and art goods, factory products	12	10	96		68	16,133	162,567	125,531	2,654	510,242	388,067
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	8	43	161		010	88,064	240,167	462,451	38,864	1,191,763	600,448
Stoves and ranges (other than electric) and warm-air furnaces	17	200	746		1,756	559,920	1,180,764	1,661,265	57,735	4,825,559	3,106,559
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	40	113	615	140	3,275	313,378	1,045,126	2,726,508	40,237	4,093,031	2,218,186
Surgical and orthopedic appliances, including artificial limbs	15	30	103		56	49,873	121,889	156,623	4,445	457,180	296,212
Trimings (not made in textile mills) and stamped art goods for embroidering	8	6	40		10	13,035	53,606	31,498	1,400	146,694	118,096
Wall plaster, wall board, insulating board, and floor composition	12	19	31		240	49,320	44,775	145,503	3,876	360,902	212,023
Washing machines, wringers, driers, and ironing machines, for household use	5	19	64		160	36,115	111,613	144,766	2,803	313,722	166,163
Window shades and fixtures	29	30	110		65	47,649	132,205	436,900	3,259	823,514	383,295
Wood turned and shaped and other wooden goods, not elsewhere classified	15	14	65		205	33,250	80,789	178,367	3,026	409,904	238,511
Other industries	746	4,864	29,678	36,445	164,468	12,129,693	41,347,080	274,307,578	8,068,870	459,793,392	174,427,438

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

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

<sup>c</sup> The figures for the following numbers of establishments located outside the industrial area have been included in the items for the area to avoid disclosing the data reported by those establishments: Cooperage, 1; druggists' preparations, 1; fancy and miscellaneous articles, not elsewhere classified, 2; glass products (except mirrors) made from purchased glass, 1; sporting and athletic goods, not including firearms or ammunition, 1; surgical and orthopedic appliances, including artificial limbs, 1.

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

ALAMEDA COUNTY

[The total for all industries do not include data for a few establishments located outside the county (see footnote 6), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total	1,116	6,045	30,711	18,289	138,889	Dollars 14,985,346	Dollars 42,658,040	Dollars 182,801,655	Dollars 4,230,791	Dollars 339,274,492	Dollars 152,242,045
Beverages	12	34	56	150	448	92,603	125,062	215,595	16,787	1,035,990	803,603
Boxes, paper, not elsewhere classified	5	31	130		156	93,149	144,431	944,837	3,844	1,289,707	341,026
Bread and other bakery products	155	169	1,263	142	1,891	411,338	2,026,486	4,615,073	156,757	9,665,883	4,864,053
Butter	3	12	41		165	16,190	62,812	1,190,446	8,957	1,466,578	266,175
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	37	222	5,097	190	5,389	493,547	4,129,525	22,088,893	164,556	37,224,473	14,971,024
Carpets and rugs, rag	3	4	30		57	7,433	46,717	16,830	2,286	93,949	75,833
Caskets, coffins, burial cases, and other morticians' goods	5	16	73		141	59,745	110,052	455,586	3,535	657,619	198,498
Cheese	7	15	21	1	48	36,059	81,443	337,207	6,755	950,958	337,005
Chemicals, not elsewhere classified	8	59	174	5	2,406	180,731	263,374	1,749,431	75,068	3,153,728	1,329,229
Clay products (other than pottery) and nonclay refractories	12	46	451	55	2,218	142,193	625,271	189,574	184,415	1,910,051	1,538,062
Compressed and liquefied gases	6	65	49	88	951	105,997	76,794	123,975	60,395	845,080	660,107
Concrete products	11	13	170	122	550	27,535	306,743	428,091	19,938	1,095,700	647,671
Confectionery	24	47	270	15	316	146,393	301,291	965,654	18,310	1,927,437	943,473

See footnotes at end of this section, p. 73.

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

[See note at head of this table]

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

ALAMEDA COUNTY—Continued

Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified <sup>d</sup>	31	88	282		766	Dollars 241,848	Dollars 439,561	Dollars 1,197,372	Dollars 13,214	Dollars 2,401,690	Dollars 1,191,104
Electrical machinery, apparatus, and supplies	24	285	1,588		5,355	773,905	1,887,025	8,995,079	153,477	18,616,211	9,467,655
Electroplating	5	6	51		174	8,134	63,885	26,777	4,706	191,797	160,314
Flavoring extracts and flavoring sirups	4						10,066	41,905	223	76,617	34,489
Food preparations, not elsewhere classified	14	14	132		82		135,795	330,877	9,294	756,361	416,190
Foundry and machine-shop products, not elsewhere classified	74	384	1,469	10	5,331	1,200,501	2,408,600	3,678,194	143,650	10,026,295	6,208,451
Furniture, including store and office fixtures	41	60	433		1,841	177,885	621,164	1,012,082	18,779	2,333,110	1,802,249
Gloves and mittens, leather	5	9	8		22	20,460	71,830	109,037	1,028	251,818	141,753
Gold leaf and foil	3	1	3		2	(?)	3,734	16,103	24	24,130	14,012
House-furnishing goods, not elsewhere classified	7	9	63		45	24,184	86,340	127,459	2,337	310,784	180,088
Ice cream	14	31	108		620	65,218	199,640	722,704	20,322	1,550,949	807,863
Ice, manufactured	7	6	38		2,373	14,595	73,201	11,731	75,504	395,866	308,631
Instruments, professional and scientific	3		5		14		6,655	15,361	190	44,033	28,537
Mattresses and bed springs, not elsewhere classified <sup>d</sup>	8	9	33		144	23,983	49,143	151,039	3,381	302,644	148,224
Models and patterns, not including paper patterns	10	1	37		95	(?)	80,141	22,620	1,423	172,936	148,893
Nonferrous-metal alloys and products, not including aluminum products	12	25	106		466	61,718	183,837	421,171	13,913	773,693	338,600
Patent or proprietary medicines and compounds	16	28	46		77	87,419	48,138	174,844	1,170	438,884	257,864
Planing-mill products (not including general mill-work), not made in planing mills connected with sawmills	50	212	1,337	4,727	17,416	594,531	1,890,360	3,897,632	94,874	7,323,822	3,331,316
Printing and publishing, book and job	72	90	282		691	24,271	684,007	744,158	21,778	2,858,920	2,087,989
Printing and publishing, newspaper and periodical	35	736	545		1,611	1,436,634	1,111,120	1,354,911	42,064	6,066,834	5,262,869
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments <sup>e</sup>	12	2	29		132	(?)	48,846	490,816	6,712	682,452	184,924
Ship and boat building, steel and wooden, including repair work	12	90	1,380	360	22,489	209,007	2,397,531	2,570,753	123,387	6,597,659	3,897,519
Stoves and ranges (other than electric) and warm-air furnaces	6	32	450		1,204	327,447	696,667	557,542	42,242	2,562,367	1,962,583
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	16	32	183		980	69,899	281,410	1,158,372	23,186	1,771,075	589,517
Window shades and fixtures	10	19	68		22	28,292	65,000	179,911	2,623	357,136	174,602
Wood turned and shaped and other wooden goods, not elsewhere classified	5	10	34		92	29,250	39,531	110,698	1,067	231,030	114,224
Other industries	335	3,083	14,140	12,417	62,207	7,555,441	20,880,725	121,385,251	2,688,754	210,551,933	86,477,978

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

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

<sup>c</sup> The items for each of the 3 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.

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

CONTRA COSTA 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, "Petroleum refining"—without disclosing, exactly or approximately, 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	2,026	13,029	30,332	110,942	Dollars 5,223,127	Dollars 20,477,928	Dollars 215,428,652	Dollars 3,914,041	Dollars 289,458,874	Dollars 70,116,181
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LOS ANGELES COUNTY (SEE LOS ANGELES INDUSTRIAL AREA)

MARIN 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—"Car and general construction and repairs, steam-railroad repair shops," as measured by number of wage earners, and "Gas, manufactured, illuminating and heating," as measured by value of products—without disclosing, exactly or approximately, the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total	50	106	785	1,427	4,234	Dollars 224,668	Dollars 971,736	Dollars 2,850,552	Dollars 247,497	Dollars 5,740,530	Dollars 2,642,481
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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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>SAN DIEGO COUNTY</b>											
All industries, total.....	300	852	4,239	3,323	20,017	Dollars 1,929,754	Dollars 5,706,033	Dollars 19,524,606	Dollars 923,518	Dollars 37,859,079	Dollars 17,440,955
Beverages.....	7	4	17	—	62	8,855	27,048	77,115	1,797	217,769	138,887
Bookbinding and blank-book making.....	3	—	9	—	16	—	11,942	8,898	369	43,527	34,200
Bread and other bakery products.....	49	55	380	26	790	161,101	591,659	1,382,734	69,961	2,903,171	1,450,476
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	6	34	921	25	608	83,734	565,505	3,790,864	28,691	5,557,332	1,731,777
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	5	14	68	—	134	30,106	60,812	258,274	3,697	505,324	243,353
Clay products (other than pottery) and nonclay refractories.....	3	9	45	—	544	25,200	60,066	17,290	26,068	168,522	125,164
Coffee and spice, roasting and grinding.....	4	10	23	—	117	23,025	31,705	268,792	2,093	370,904	100,019
Concrete products.....	10	10	60	23	283	24,192	91,507	119,339	2,839	343,094	220,916
Confectionery.....	10	15	72	—	80	20,223	76,801	174,056	5,882	368,711	188,773
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	5	5	20	—	5	2,750	33,105	46,117	361	100,771	54,293
Feeds, prepared, for animals and fowls.....	6	18	45	—	735	37,094	64,453	926,801	7,949	1,115,566	180,816
Food preparations, not elsewhere classified.....	4	—	22	—	13	—	23,626	39,326	1,071	82,384	41,987
Foundry and machine-shop products, not elsewhere classified.....	11	18	90	—	256	47,839	139,232	107,058	8,182	373,434	258,194
Furniture, including store and office fixtures.....	7	14	65	—	301	20,081	100,168	99,961	1,895	424,976	323,120
Ice cream.....	6	28	55	—	419	82,835	102,858	706,307	15,469	1,329,619	607,843
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	12	28	277	440	2,234	48,159	452,107	711,301	20,808	1,417,013	684,904
Poultry killing, dressing, and packing, wholesale.....	5	4	14	—	21	7,839	17,801	352,359	465	440,987	88,163
Printing and publishing, book and job.....	27	30	137	—	214	62,586	255,552	267,269	8,151	889,838	614,468
Printing and publishing, newspaper and periodical.....	21	311	265	—	561	587,202	592,649	499,854	24,460	2,847,632	2,328,228
Ship and boat building, steel and wooden, including repair work.....	6	12	114	35	140	22,675	203,578	338,351	1,991	654,727	314,345
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	4	36	—	29	11,594	52,573	50,526	1,748	174,525	122,251
Other industries.....	89	256	1,504	2,774	12,356	622,574	2,145,221	9,275,974	689,581	17,559,273	7,563,718

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

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

SAN FRANCISCO COUNTY (COEXTENSIVE WITH SAN FRANCISCO CITY)

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

All industries, total.....	2,526	11,382	45,482	19,094	138,278	Dollars 26,822,885	Dollars 67,911,982	Dollars 257,074,625	Dollars 4,836,863	Dollars 463,712,296	Dollars 221,500,808
Awnings, tents, sails, and canvas covers.....	9	29	68	—	69	69,400	99,033	210,796	2,109	441,262	228,267
Beverages.....	22	59	263	775	1,171	186,072	428,309	1,044,066	58,443	2,823,557	1,721,048
Boxes, paper, not elsewhere classified.....	12	92	725	—	2,011	249,248	806,689	2,732,960	21,399	6,049,567	2,265,208
Boxes, wooden, except cigar boxes.....	12	43	297	250	1,059	119,616	319,708	709,372	11,904	1,413,358	692,082
Bread and other bakery products.....	250	274	2,365	147	3,885	531,334	3,917,859	8,561,627	267,229	17,925,420	9,096,564
Butter.....	9	19	110	—	756	45,845	150,221	2,377,273	16,808	2,800,793	466,712
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	19	157	1,424	40	1,094	399,599	1,564,205	11,700,816	84,949	20,120,881	8,335,116
Caskets, coffins, burial cases, and other morticians' goods.....	6	23	84	—	353	54,378	124,660	423,560	3,593	858,563	431,500
Cleaning and polishing preparations.....	11	9	24	—	117	16,164	38,180	116,345	2,530	243,979	125,804
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	40	52	683	—	120	125,826	912,270	1,069,621	12,480	2,710,536	1,628,435
Clothing, women's, not elsewhere classified.....	82	192	1,459	—	319	436,341	1,753,900	4,153,802	24,099	8,340,103	4,162,202
Concrete products.....	7	25	161	—	655	83,184	226,948	614,000	6,285	1,159,818	539,527
Confectionery.....	54	128	1,193	81	1,618	378,980	1,156,847	3,982,356	74,872	7,255,773	3,198,545
Copperage.....	6	22	216	399	950	78,627	350,693	1,448,197	14,805	2,130,094	667,992
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	72	125	494	—	811	321,031	792,984	1,684,998	16,500	3,593,197	1,891,699
Cutlery (not including silver and plated cutlery) and edge tools.....	3	1	13	—	64	( <sup>c</sup> )	21,230	3,606	1,063	39,394	34,705
Doors, shutters, and window sash and frames, metal.....	5	72	374	—	1,043	228,248	654,568	931,331	15,660	2,180,872	1,233,881
Electrical machinery, apparatus, and supplies.....	27	360	1,060	—	1,766	808,869	1,309,765	3,657,843	57,781	8,248,740	4,533,116
Electroplating.....	12	16	113	—	503	60,635	190,314	80,444	12,646	488,749	386,669
Engraving (other than steel, copperplate, or wood), chasing, etching, and dieinking.....	6	4	21	—	11	5,848	41,694	20,879	706	139,221	117,636
Engraving, steel and copperplate, and plate printing.....	18	11	80	—	79	21,967	107,670	92,187	2,472	337,508	242,849
Fancy and miscellaneous articles, not elsewhere classified.....	17	26	194	—	29	72,428	156,791	250,888	2,905	655,136	401,343
Feeds, prepared, for animals and fowls.....	5	43	90	—	1,802	102,978	159,175	5,263,588	34,899	6,066,375	767,888
Flavoring extracts and flavoring sirups.....	15	84	216	5	413	234,501	331,942	1,281,995	5,892	2,701,874	1,454,856
Food preparations, not elsewhere classified.....	26	60	185	—	354	121,107	215,678	1,467,843	22,026	2,446,004	956,136
Foundry and machine-shop products, not elsewhere classified.....	152	500	2,088	115	7,826	1,293,166	3,784,473	4,720,081	202,450	13,649,755	8,726,324

See footnotes at end of this section, p. 75.



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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>SAN FRANCISCO COUNTY (COEXTENSIVE WITH SAN FRANCISCO CITY)—Continued</b>											
Fur goods.....	45	33	236	68	68	Dollars 74,714	Dollars 404,261	Dollars 1,058,773	Dollars 5,919	Dollars 2,025,799	Dollars 991,037
Furnishing goods, men's, not elsewhere classified.....	6	33	162	23	23	89,945	183,505	657,435	2,707	1,246,771	586,629
Furniture, including store and office fixtures.....	86	244	1,425	60	60	651,246	2,355,452	3,799,662	51,176	8,752,853	4,002,015
Gas and electric fixtures; lamps, lanterns, and reflectors.....	18	54	278	219	219	184,759	424,849	535,840	8,037	1,502,326	958,443
Glass products (except mirrors) made from purchased glass.....	7	6	36	49	49	10,993	56,608	70,608	4,523	183,835	108,094
Hand stamps and stencils and brands <sup>1</sup> .....	9	10	80	81	81	27,843	122,709	93,566	2,174	386,787	280,047
Hardware not elsewhere classified.....	7	67	150	344	344	198,068	197,960	207,884	6,105	879,504	605,516
Hats and caps, except felt and straw, men's.....	13	12	78	22	22	38,667	94,568	234,339	1,901	429,268	193,018
House-furnishing goods, not elsewhere classified.....	25	89	307	408	408	165,269	207,205	956,010	14,206	1,782,844	812,028
Ice cream.....	10	29	85	1,380	1,380	56,937	141,925	1,032,020	31,390	1,842,142	778,732
Ice, manufactured.....	6	11	63	150	150	2,080	33,715	14,143	62,752	465,997	389,102
Instruments, professional and scientific.....	5	5	35	68	68	27,536	41,741	54,049	2,005	174,895	118,841
Jewelry.....	56	49	402	609	609	84,607	629,070	776,606	8,995	2,124,941	1,330,440
Knit goods.....	11	66	702	92	255	229,570	684,230	1,439,191	15,504	3,815,222	2,103,527
Leather goods, not elsewhere classified.....	9	11	45	16	16	28,687	54,468	132,701	806	243,500	110,053
Leather: Tanned, curried, and finished.....	3	11	122	450	440	37,488	181,805	866,502	10,948	1,241,588	361,138
Lithographing.....	9	156	575	10	1,854	498,009	1,118,402	1,480,344	34,057	4,383,179	2,868,778
Macaroni, spaghetti, vermicelli, and noodles.....	24	33	127	60	959	99,993	202,256	756,865	28,903	1,410,720	626,958
Machine-tool accessories, and small metal-working tools, not elsewhere classified.....	6	11	66	105	105	30,620	116,110	56,011	3,063	323,254	204,180
Marble, granite, slate, and other stone products.....	10	41	232	2,084	134,015	437,094	402,891	18,208	1,285,810	774,621	
Mattresses and bed springs, not elsewhere classified.....	17	99	800	2,174	239,942	1,186,451	3,208,736	39,831	6,596,344	3,847,777	
Meat packing, wholesale.....	20	96	327	145	831	304,493	571,205	16,898,496	37,759	18,762,951	2,826,660
Millinery.....	31	175	1,343	255	425,965	1,230,627	2,100,482	22,244	5,186,604	3,093,878	
Models and patterns, not including paper patterns.....	12	3	35	156	3,600	64,405	18,476	18,476	2,765	100,735	139,494
Motor-vehicle bodies and motor-vehicle parts.....	20	36	164	296	84,407	243,466	360,940	9,795	884,200	523,465	
Musical instruments and parts and materials, not elsewhere classified.....	3	4	22	8	6,700	33,786	8,448	257	77,800	69,095	
Nonferrous-metal alloys and products, not including aluminum products.....	20	96	353	1,315	291,857	581,479	3,047,899	68,448	4,080,866	964,510	
Paints and varnishes.....	16	299	346	1,440	655,744	515,910	3,523,106	20,735	5,873,133	2,323,292	
Patent or proprietary medicines and compounds.....	83	108	272	412	201,561	331,237	1,634,178	14,808	3,210,414	1,501,428	
Perfumes, cosmetics, and other toilet preparations.....	13	22	38	42	30,141	43,245	240,012	1,123	615,258	365,123	
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	50	81	500	1,375	5,710	223,578	1,010,538	2,355,486	55,717	4,140,145	1,728,942
Pocketbooks, purses, and cardcases.....	4	8	41	6	24,141	50,201	89,965	595	193,788	103,228	
Poultry killing, dressing, and packing, wholesale <sup>2</sup> .....	7	63	187	102	182,934	230,282	3,857,325	6,468	4,064,556	800,763	
Printing and publishing, book and job.....	261	720	2,580	3,325	1,780,309	4,812,228	5,691,312	119,431	18,888,534	13,077,701	
Printing and publishing, music.....	4	31	24	41	139,462	35,385	19,154	760	377,374	367,400	
Printing and publishing, newspaper and periodical.....	141	2,986	1,352	3,621	5,782,810	3,122,449	5,252,362	100,019	24,670,009	10,317,528	
Printing materials, not including type or ink.....	4	13	7	43	20,807	10,677	50,159	1,987	141,207	89,091	
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	5	24	43	115	40,229	69,050	264,217	1,919	429,728	163,592	
Rubber goods other than tires, inner tubes, and boots and shoes.....	5	8	38	690	21,700	65,137	62,319	9,829	222,900	160,752	
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	33	21	104	8	432	51,860	185,043	1,459,514	17,719	1,998,465	521,232
Ship and boat building, steel and wooden, including repair work.....	16	202	1,683	230	19,163	265,794	3,453,599	3,238,198	121,507	8,901,259	5,541,554
Signs and advertising novelties.....	16	55	160	133	97,835	287,316	267,789	6,745	835,511	570,977	
Stoves and ranges (other than electric) and warm-air furnaces.....	11	118	290	552	282,473	493,097	1,103,723	15,493	2,263,192	1,143,976	
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	33	81	432	140	2,295	248,479	783,716	1,568,136	20,051	3,222,856	1,028,660
Surgical and orthopedic appliances, including artificial limbs.....	11	25	87	31	44,580	106,105	138,921	3,763	886,414	243,730	
Trimings (not made in textile mills) and stamped art goods for embroidering.....	3	6	40	19	13,035	53,096	31,498	1,400	146,594	113,660	
Trunks, suitcases, and bags.....	21	41	201	140	101,370	231,421	594,857	4,260	1,260,693	651,576	
Window shades and fixtures.....	19	11	48	43	19,357	66,290	257,049	636	466,378	208,693	
Wood turned and shaped and other wooden goods, not elsewhere classified.....	10	4	31	113	9,000	41,258	61,669	1,959	177,915	114,287	
Other industries.....	419	2,557	14,492	14,571	51,116	6,470,751	20,500,473	128,188,265	2,825,209	217,614,894	86,601,420

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

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

<sup>1</sup> The figures for the following numbers of establishments located outside the county have been included in the items for the county to avoid disclosing the data reported by those establishments: Butter, 1; engraving, steel and copperplate, and plate printing, 2; food preparations, not elsewhere classified, 1; hand stamps and stencils and brands, 1; poultry killing, dressing, and packing, wholesale, 1.

<sup>2</sup> Withhold 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>SAN MATEO COUNTY</b>											
[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—"Iron and steel: Steel works and rolling mills," as measured by number of wage earners, and "Meat packing, wholesale," as measured by value of products—without disclosing, exactly or approximately, 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.....	98	708	3,790	1,575	37,894	Dollars 1,763,501	Dollars 6,039,440	Dollars 29,804,443	Dollars 1,434,980	Dollars 47,497,278	Dollars 16,257,950
<b>SANTA CLARA COUNTY</b>											
All industries, total.....	299	1,350	10,851	4,261	25,289	Dollars 3,371,749	Dollars 10,682,380	Dollars 55,777,747	Dollars 939,361	Dollars 91,092,200	Dollars 34,375,092
Agricultural implements.....	3	5	6	-----	81	13,051	7,929	23,018	692	53,616	29,900
Awings, tents, sails, and canvas covers.....	4	2	0	-----	0	3,607	15,583	37,102	320	82,099	44,077
Beverages.....	7	2	7	3	39	(10)	7,064	23,459	1,904	50,751	34,388
Bread and other bakery products.....	40	25	242	13	377	41,424	397,851	893,099	48,347	1,928,361	991,915
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	58	406	7,377	1,759	8,002	1,217,471	5,018,570	40,000,319	325,236	60,918,965	19,993,410
Clay products (other than pottery) and nonclay refractories.....	5	11	109	25	612	23,527	128,927	13,134	34,461	273,790	228,195
Coffee and spice, roasting and grinding.....	4	11	7	-----	45	15,671	8,847	123,745	1,270	163,255	38,243
Concrete products.....	6	11	30	3	246	26,700	38,919	61,824	2,534	168,504	104,149
Confectionery.....	6	22	53	-----	115	88,720	57,277	197,296	6,059	484,948	281,593
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	1	11	-----	6	(10)	17,286	52,227	295	116,052	63,530
Food preparations, not elsewhere classified.....	3	2	21	-----	70	(10)	21,976	230,657	2,771	306,502	73,074
Foundry and machine-shop products, not elsewhere classified.....	17	146	498	-----	2,455	320,082	720,402	871,519	38,027	2,564,773	1,654,327
Ice cream.....	12	19	51	-----	447	36,604	66,319	259,670	17,211	570,534	302,553
Ice, manufactured.....	5	10	50	-----	2,730	20,354	65,140	3,069	46,341	397,274	349,964
Meat packing, wholesale.....	3	10	31	-----	158	35,975	60,100	2,030,209	7,129	2,289,230	251,892
Planting-mill products (including general millwork), not made in planing mills connected with saw-mills.....	9	86	494	-----	3,601	183,871	737,613	383,316	31,519	2,345,596	1,430,761
Printing and publishing, book and job.....	21	24	94	-----	174	63,453	189,993	119,145	4,647	514,623	390,831
Printing and publishing, newspaper and periodical.....	18	182	223	75	430	410,416	451,446	337,852	16,784	1,716,814	1,362,178
Pumps (hand and power) and pumping equipment.....	7	55	252	-----	881	122,470	413,030	664,862	16,387	1,635,754	954,505
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	2	13	-----	53	(10)	26,111	37,804	1,670	83,027	43,544
Other industries.....	52	317	1,273	2,333	4,799	784,353	1,625,407	8,313,521	339,848	14,469,720	5,756,360

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>10</sup> 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, except Long Beach (see explanatory note), separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

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

LONG BEACH

[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—"Canning and preserving: Fish, crab, shrimps, oysters, and clam," as measured by number of wage earners, and "Petroleum refining," as measured by value of products—without disclosing, exactly or approximately, 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.....	197	698	2,566	1,731	9,453	\$1,778,364	\$3,738,236	\$31,300,593	\$386,412	\$64,076,736	\$22,800,781
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

LOS ANGELES

[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.....	3,437	21,442	76,023	32,040	255,080	\$70,884,115	\$112,454,365	\$963,235,761	\$7,001,482	\$757,702,135	\$382,464,892
Aluminum manufactures.....	5	11	62	-----	106	80,998	99,713	122,510	4,788	312,224	184,031
Awnings, tents, sails, and canvas covers.....	31	42	197	-----	200	91,050	237,849	600,087	2,717	1,241,041	678,267
Belting, leather.....	5	13	27	-----	42	31,081	45,776	208,477	1,155	439,141	209,509
Beverages.....	29	192	628	910	1,940	376,701	820,280	2,142,326	61,969	5,806,679	3,692,384
Bookbinding and blank-book making <sup>1</sup> .....	21	83	367	-----	352	218,697	450,273	407,004	6,500	1,834,280	1,420,776
Boots and shoes, other than rubber.....	5	61	362	-----	402	143,788	463,144	773,022	7,482	1,663,720	823,210
Boxes, paper, not elsewhere classified.....	14	79	366	-----	369	280,684	871,932	993,482	9,108	1,926,664	954,064
Boxes, wooden, except cigar boxes <sup>2</sup> .....	7	25	242	280	411	62,810	839,007	1,226,695	7,944	1,850,911	646,372
Bread and other bakery products.....	263	427	4,065	977	13,948	1,176,378	5,115,370	15,076,916	344,073	31,870,942	16,450,054
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	31	93	1,019	130	829	217,390	654,781	3,365,399	42,257	5,688,060	2,181,304
Cereal preparations.....	3	6	18	-----	77	22,627	23,707	109,310	598	317,235	207,321
Clay products (other than pottery) and nonclay refractories.....	15	105	1,340	30	5,280	291,288	1,645,170	672,530	348,382	4,796,169	3,745,267
Cleaning and polishing preparations.....	15	36	49	-----	146	65,282	69,307	257,918	1,739	593,668	333,911
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	44	165	1,555	-----	378	430,465	1,723,297	2,931,564	20,054	6,320,675	3,375,067
Clothing, women's, not elsewhere classified.....	205	636	6,376	-----	969	1,603,947	6,283,720	15,605,403	10,190	29,174,024	13,438,437
Coffee, and spice, roasting and grinding.....	32	111	218	-----	1,085	279,258	276,471	7,248,471	70,969	9,226,234	1,958,763
Concrete products.....	24	63	279	4	905	249,867	402,949	331,072	7,360	1,626,819	1,287,387
Confectionery.....	68	121	975	21	1,374	270,331	946,774	3,373,501	46,003	6,492,810	2,933,306
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	79	123	510	8	600	250,806	796,393	1,387,993	10,227	3,354,360	1,947,140
Cotton small wares.....	3	10	30	-----	31	11,943	23,364	22,956	585	81,485	57,941
Electrical machinery, apparatus, and supplies.....	67	273	1,111	50	2,297	643,792	1,560,366	5,342,512	63,004	10,166,229	4,760,713
Electroplating.....	26	30	153	16	2,528	59,793	327,730	102,009	18,947	765,240	644,294
Engraving, steel and copperplate, and plate printing.....	18	69	167	-----	177	126,412	227,632	247,650	3,562	1,798,378	627,166
Envelopes.....	5	30	147	-----	137	80,625	164,750	226,470	2,803	638,227	408,954
Fancy and miscellaneous articles, not elsewhere classified.....	29	61	410	-----	151	138,223	881,078	842,428	4,931	1,770,714	923,365
Feeds, prepared, for animals and fowls.....	9	145	186	-----	1,638	203,263	247,999	5,307,795	28,749	6,619,735	1,233,191
Fertilizers.....	6	41	80	-----	474	114,670	92,220	1,769,770	7,136	2,651,664	784,748
Flavoring extracts and flavoring strups.....	26	38	87	-----	129	84,169	85,267	1,102,762	3,985	2,703,094	1,506,367
Flour and other grain-mill products.....	8	120	240	160	2,530	311,697	366,281	6,987,674	63,800	8,846,020	1,804,646
Food preparations, not elsewhere classified.....	63	107	351	-----	912	262,754	414,986	2,805,853	39,269	4,488,769	1,533,647
Foundry and machine-shop products, not elsewhere classified.....	171	811	4,773	374	10,587	2,194,744	7,646,899	15,577,812	476,708	37,177,165	21,123,636
Fur goods.....	30	35	124	-----	68	120,927	228,783	947,577	2,922	1,590,928	640,420
Furnishing goods, men's, not elsewhere classified.....	9	84	450	-----	139	166,869	461,065	1,974,021	4,721	3,284,840	1,306,068
Furniture, including store and office fixtures.....	146	687	4,683	1	10,051	1,893,309	6,073,749	11,994,274	127,295	26,233,185	14,111,616
Gas and electric fixtures; lamps, lanterns, and reflectors.....	49	158	591	-----	792	487,601	970,292	1,551,638	20,432	3,929,470	2,357,400
Glass products (except mirrors) made from purchased glass <sup>2</sup> .....	14	10	55	-----	59	21,006	64,012	86,879	2,689	237,728	193,160
Gloves and mittens, leather.....	5	19	132	-----	23	54,635	137,661	192,240	834	449,008	255,928
Hand stamps and stencils and brands <sup>1</sup> .....	12	44	161	-----	473	109,888	204,620	133,801	4,937	616,341	477,603
Hardware not elsewhere classified.....	7	8	52	-----	107	14,383	54,557	84,523	1,741	231,382	145,118
Hats and caps, except felt and straw, men's.....	15	17	130	-----	38	30,269	170,800	331,831	2,150	671,498	337,517
House-furnishing goods, not elsewhere classified.....	47	57	868	-----	314	113,221	409,600	1,940,921	9,659	2,345,863	995,283
Ice cream.....	24	61	266	-----	3,001	130,328	391,254	2,387,136	64,680	7,316,043	4,364,327
Ice, manufactured.....	18	44	237	1,710	10,438	142,642	380,152	61,633	292,980	2,112,229	1,767,016
Jewelry <sup>1</sup> .....	49	83	264	-----	130	168,970	451,445	746,067	3,978	1,932,805	1,182,770
Knit goods.....	26	98	839	125	533	381,333	1,115,861	2,676,587	23,315	5,439,014	2,840,112
Lithographing <sup>2</sup> .....	6	118	351	-----	548	390,353	588,354	940,975	10,786	2,678,698	1,726,837
Lubricating oils and greases, not made in petroleum refineries.....	3	16	19	-----	102	30,677	20,316	168,155	1,502	299,979	130,322
Macaroni, spaghetti, vermicelli, and noodles <sup>2</sup> .....	15	44	124	-----	599	65,496	127,178	569,846	20,131	1,086,166	496,179
Machine-tool accessories and small metal-working tools, not elsewhere classified <sup>1</sup> .....	11	17	113	-----	342	45,899	178,543	120,680	4,052	507,707	383,029
Marble, granite, slate, and other stone products.....	14	62	253	-----	3,095	211,514	450,769	840,362	25,668	2,274,030	1,408,020
Mattresses and bed springs, not elsewhere classified.....	23	41	299	-----	586	91,759	357,501	1,111,265	11,647	2,028,424	905,612
Meat packing, wholesale.....	8	420	1,458	1,305	3,286	1,017,370	2,066,068	34,713,628	152,124	40,187,311	5,321,529
Mirror and picture frames.....	7	14	113	-----	193	29,900	150,950	133,274	3,396	459,961	323,291
Models and patterns, not including paper patterns.....	20	22	144	-----	396	43,229	272,347	135,266	4,103	668,045	628,676

See footnotes at end of this section, p. 78.

CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>LOS ANGELES—Continued</b>											
Motion pictures, not including projection in theaters.	45	4,674	4,653	4,050	24,449	\$31,189,233	\$10,612,730	\$10,199,581	\$300,181	\$78,715,175	\$68,215,413
Motor-vehicle bodies and motor-vehicle parts.	40	134	617	-----	1,423	429,538	997,224	1,877,765	22,732	4,276,562	2,376,065
Musical instruments and parts and materials, not elsewhere classified.	6	8	60	-----	110	21,827	70,737	40,778	1,451	198,277	156,048
Nonferrous-metal alloys and products, not including aluminum products.	24	70	343	-----	860	232,671	489,320	1,751,774	42,402	3,567,226	1,772,060
Paints and varnishes.	30	113	378	-----	1,705	312,647	548,731	3,740,832	29,132	6,141,704	2,371,740
Paper goods, not elsewhere classified.	9	25	99	-----	403	62,769	145,376	855,204	9,874	1,467,049	601,011
Patent or proprietary medicines and compounds.	41	100	194	-----	347	412,620	229,757	1,394,145	8,928	3,435,572	2,032,400
Peanuts, walnuts, and other nuts, processed or shelled.	7	19	302	-----	218	30,416	290,112	1,350,859	3,090	2,103,201	749,246
Perfumes, cosmetics, and other toilet preparations.	35	79	136	-----	146	240,421	131,827	798,153	2,868	2,212,292	1,411,271
Petroleum refining.	5	360	1,832	9,925	13,267	872,279	2,528,865	72,475,523	1,201,813	105,356,596	31,079,260
Photo-engraving, not done in printing establishments.	19	79	255	-----	316	300,571	628,695	170,192	14,961	1,705,520	1,514,373
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.	68	190	1,846	6,202	13,585	436,956	2,942,722	7,681,880	103,689	12,870,345	5,134,876
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.	4	53	656	-----	2,409	156,210	971,681	826,825	97,557	2,463,162	1,538,780
Pocketbooks, purses, and cardcases.	7	6	66	-----	8	22,976	67,779	157,311	370	297,539	139,858
Poultry killing, dressing, and packing, wholesale.	8	8	70	-----	139	22,220	69,396	1,442,369	4,066	1,671,072	224,637
Printing and publishing, book and job.	337	951	2,634	9	3,846	2,532,429	4,758,234	6,274,353	121,619	21,190,502	14,794,530
Printing and publishing, newspaper and periodical.	140	4,800	2,076	-----	5,822	7,913,631	4,114,523	9,277,639	121,600	36,842,727	27,443,488
Pumps (hand and power) and pumping equipment.	11	178	611	-----	2,845	580,628	863,363	1,940,794	53,792	4,329,657	2,329,071
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.	6	39	214	-----	521	84,247	373,676	602,225	9,404	1,569,830	868,201
Rubber goods other than tires, inner tubes, and boots and shoes.	12	48	343	-----	3,144	200,862	440,778	735,286	39,684	2,136,101	1,361,131
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.	16	19	137	-----	370	68,012	167,775	868,827	13,806	1,404,193	581,560
Signs and advertising novelties.	51	100	435	-----	148	342,102	818,931	708,009	11,108	4,166,633	3,387,516
Springs, steel, except wire, not made in plants operated in connection with rolling mills.	5	31	138	-----	787	80,504	205,838	265,614	23,180	848,731	559,937
Statuary and art goods, factory product.	13	16	85	3	72	35,996	163,393	79,171	2,233	364,713	273,259
Stoves and ranges (other than electric) and warm-air furnaces.	10	138	474	330	1,071	303,652	719,995	1,560,543	23,039	3,640,328	2,051,746
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.	40	106	825	-----	2,333	339,730	1,404,056	1,874,597	37,447	5,089,030	3,176,986
Trunks, suitcases, and bags.	17	41	224	-----	151	119,187	303,296	501,053	5,929	1,257,474	660,492
Wall plaster, wall board, insulating board, and floor composition.	12	52	132	-----	1,570	138,467	277,441	1,022,033	44,865	1,747,001	680,073
Window and door screens and weather strip.	9	37	157	-----	653	105,362	213,003	399,775	5,318	936,667	531,504
Window shades and fixtures.	16	14	51	-----	45	29,735	77,732	231,304	1,558	538,527	255,665
Wirework, not elsewhere classified.	17	48	247	-----	726	170,617	313,304	1,113,856	13,697	2,286,031	1,158,478
Other industries.	496	2,813	19,642	5,448	76,776	7,018,216	27,409,461	74,933,144	2,110,895	145,578,838	68,534,790

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

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

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

<sup>1</sup> Includes data for 2 establishments located outside the city.

<sup>2</sup> Includes data for 1 establishment located outside the city.

OAKLAND

All industries, total.	738	3,580	19,096	15,301	76,885	\$8,626,016	\$26,130,309	\$112,452,893	\$2,632,558	\$208,659,418	\$91,573,967
Beverages.	8	31	50	150	404	91,703	117,827	193,145	16,008	982,491	773,338
Boxes, paper, not elsewhere classified.	5	31	190	-----	156	93,149	144,431	944,837	3,844	1,289,707	341,026
Bread and other bakery products.	101	131	852	142	1,302	321,345	1,315,519	3,425,256	111,317	6,950,712	3,414,139
Butter.	3	12	41	-----	155	16,190	62,812	1,190,446	8,957	1,465,578	266,175
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.	15	39	2,964	80	1,913	205,237	1,841,015	11,460,030	64,188	18,523,061	6,998,843
Caskets, coffins, burial cases, and other morticians' goods.	5	16	73	-----	141	59,745	110,052	455,586	3,535	657,619	198,498
Cheese.	4	13	15	-----	37	34,079	72,110	209,623	3,953	529,118	315,542
Electrical machinery, apparatus, and supplies.	16	142	796	-----	2,539	378,791	970,988	5,419,815	101,913	11,551,528	6,029,800
Flavoring extracts and flavoring sirups.	4	7	6	-----	13	10,066	-----	41,905	223	76,617	34,489
Food preparations, not elsewhere classified.	10	7	100	-----	48	6,300	93,451	191,072	5,651	450,657	253,934
Foundry and machine-shop products, not elsewhere classified.	50	255	892	-----	3,088	790,006	1,453,798	2,305,923	83,433	6,305,561	3,911,205
Furniture, including store and office fixtures.	29	46	325	-----	1,047	132,367	480,701	739,012	14,366	1,755,670	1,002,262
House-furnishing goods, not elsewhere classified.	7	9	63	-----	45	24,184	86,340	127,459	2,337	319,784	189,988
Ice cream.	4	31	108	-----	620	65,218	199,640	722,764	20,322	1,550,949	807,863
Ice, manufactured.	4	4	28	-----	1,941	10,315	54,694	8,042	58,653	289,618	222,923
Nonferrous-metal alloys and products, not including aluminum products.	8	12	62	-----	380	38,141	111,290	261,510	8,065	461,221	191,616
Patent or proprietary medicines and compounds.	8	17	26	-----	21	35,221	28,631	119,650	346	270,147	157,151

See footnotes at end of this section, p. 79.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>OAKLAND—Continued</b>											
Planing-mill products (including general millwork), not made in planing mills connected with sawmills	31	101	1,060	4,055	15,487	\$471,765	\$1,539,040	\$3,038,076	\$70,788	\$5,631,617	\$2,522,753
Printing and publishing, book and job	52	67	210	-----	528	170,394	445,363	612,895	17,201	2,367,991	1,737,895
Printing and publishing, newspaper and periodical	17	608	410	-----	1,314	1,199,160	840,343	1,192,412	32,979	5,646,560	4,421,160
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	8	2	27	-----	120	( <sup>c</sup> )	45,786	431,050	5,736	504,782	157,996
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	12	32	174	-----	903	69,899	269,506	1,148,504	22,979	1,734,147	562,604
Wood turned and shaped and other wooden goods, not elsewhere classified	5	10	34	-----	92	29,250	39,531	116,098	1,067	231,939	114,224
Other industries	322	1,854	10,641	10,874	44,481	4,383,554	15,796,475	78,098,183	1,969,637	137,016,294	50,948,474

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

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

<sup>c</sup> The items for the "Ice cream" industry include data for 2 establishments located outside the city, to avoid disclosing approximations of the figures 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.

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

**SAN DIEGO**

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

All industries, total	253	809	3,836	2,690	17,717	\$1,745,004	\$5,230,005	\$17,103,008	\$833,904	\$34,205,183	\$16,257,611
Beverages <sup>5</sup>	7	4	17	-----	62	8,855	27,048	77,115	1,707	217,769	138,887
Bookbinding and blank-book making	3	-----	0	-----	10	-----	11,942	8,898	389	43,527	34,260
Bread and other bakery products	41	58	368	26	771	161,101	570,025	1,323,992	66,252	2,774,019	1,384,375
Canning and preserving: Fish, crabs, shrimps, oysters, and clams <sup>6</sup>	6	34	921	25	698	83,734	565,505	3,796,864	28,691	5,567,382	1,731,777
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces	5	14	68	-----	134	30,106	60,812	258,274	3,697	505,324	243,363
Clay products (other than pottery) and nonclay refractories	3	9	45	-----	544	25,200	66,066	17,260	26,068	168,522	125,164
Coffee and spice, roasting and grinding	4	10	23	-----	117	23,025	31,705	268,792	2,093	370,964	100,019
Concrete products	7	9	46	-----	221	23,192	75,837	105,052	1,804	303,200	196,404
Confectionery	10	16	72	-----	80	20,223	76,861	174,056	5,832	368,711	188,773
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	5	5	20	-----	5	2,750	33,105	46,117	361	100,771	54,293
Feeds, prepared, for animals and fowls	6	18	45	-----	735	37,094	64,458	928,801	7,949	1,115,500	180,816
Food preparations, not elsewhere classified	4	-----	22	-----	13	-----	23,626	39,326	1,071	82,384	41,987
Foundry and machine-shop products, not elsewhere classified	11	18	90	-----	256	47,830	139,232	107,058	8,182	373,434	258,194
Furniture, including store and office fixtures <sup>6</sup>	7	14	65	-----	301	20,081	100,168	99,961	1,895	424,976	323,120
Ice cream <sup>6</sup>	6	28	55	-----	419	82,835	102,858	706,307	15,469	1,329,619	607,843
Planing-mill products (including general millwork), not made in planing mills connected with sawmills <sup>6</sup>	12	28	277	440	2,234	48,150	452,107	711,301	20,808	1,417,013	684,904
Poultry killing, dressing, and packing, wholesale	5	4	14	-----	21	7,839	17,801	352,350	465	440,987	83,163
Printing and publishing, book and job <sup>6</sup>	27	30	137	-----	214	62,586	255,552	267,269	8,151	889,888	614,468
Printing and publishing, newspaper and periodical	10	300	228	-----	498	577,936	635,838	474,427	22,532	2,673,693	2,176,734
Ship and boat building, steel and wooden, including repair work	6	12	114	35	140	22,675	203,578	338,301	1,901	654,727	314,345
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	4	4	38	-----	20	11,594	52,573	50,526	1,748	174,525	122,251
Other industries	72	199	1,282	2,164	10,068	464,981	1,841,390	7,168,530	610,114	14,506,811	6,809,167

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

<sup>5</sup> Includes data for 2 establishments located outside the city.

<sup>6</sup> Includes data for 1 establishment located outside the city.

**SAN FRANCISCO (SEE SAN FRANCISCO COUNTY)**

# COLORADO

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 \$6,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929.....	1,548	22,890	233,726	135,353	98,373	\$43,640,403	\$133,739,553	\$170,113,113	\$13,626,440	\$306,071,031	\$122,331,478
1927.....	1,483	32,001	254,530	171,585	82,946	43,103,765	173,277,399	155,046,508	13,230,891	278,221,431	104,944,032
1925.....	1,416	31,967	219,805	128,918	90,947	43,007,074	171,191,543	( <sup>5</sup> )	( <sup>5</sup> )	278,778,008	107,536,465
1923.....	1,377	31,226	179,070	112,145	63,931	40,652,745	150,092,753	( <sup>5</sup> )	( <sup>5</sup> )	255,130,812	105,007,050
1921.....	1,491	27,625	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	38,611,493	147,248,031	( <sup>5</sup> )	( <sup>5</sup> )	221,324,285	74,075,654
1919.....	2,631	35,254	206,110	148,787	57,323	42,974,879	174,870,275	160,204,060	14,666,215	275,622,335	100,752,660
1914.....	2,126	27,278	162,701	135,352	27,349	20,199,754	80,756,302	81,700,061	8,056,241	136,830,321	47,033,619
1909.....	2,034	28,067	154,514	138,640	15,874	19,912,342	30,490,904	71,962,388	8,528,516	130,044,312	49,553,408
1904.....	1,606	21,813	124,336	121,071	3,765	15,100,365	43,114,397	58,963,925	4,150,472	100,143,990	37,029,602
1899.....	1,323	19,498	43,082	41,895	1,187	11,707,566	60,750,784	( <sup>5</sup> )	( <sup>5</sup> )	89,067,879	23,317,095
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	4.4	2.8	-8.2	-21.1	18.6	1.0	6.0	9.7	-25.3	10.0	16.6
1925-1927.....	4.7	0.1	15.8	33.1	-8.8	0.4	1.2			-0.2	-2.5
1923-1925.....	2.8	2.4	24.9	15.0	42.3	5.8	14.1			9.2	2.4
1921-1923.....	-7.6	13.0				5.3	1.9			15.3	41.9
1919-1921.....	-43.3	-21.6				-10.2	-15.8			-19.7	-26.5
1919-1929.....	-41.2	-6.7	13.4	-9.0	71.6	1.6	5.1	6.2	-7.1	11.0	21.4
1909-1919.....	29.4	25.6	33.4	7.3	201.1	115.8	117.3	122.6	72.0	111.9	103.3
1899-1909.....	53.7	43.9	258.7	230.9	1,237.3	70.1	32.5			40.0	75.0

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

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

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

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

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

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

## CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	1,035,791	1,548	32,800	233,726	\$43,040,403	\$183,739,553	\$170,113,113	\$13,626,440	\$306,071,031	\$122,331,478
<i>Counties<sup>3</sup></i>										
Adams.....	20,245	20	720	5,466	804,580	3,949,862	3,794,448	155,414	5,940,286	1,990,424
Alamosa.....	8,602	12	306	1,113	409,999	909,301	880,264	29,037	1,617,218	707,917
Arapahoe.....	22,647	11	642	3,368	1,015,208	1,426,231	1,847,520	73,711	3,966,492	2,540,261
Archuleta.....	3,201	7	49	245	56,080	31,026	30,361	665	151,877	120,851
Bent.....	9,138	8	40	974	52,680	332,260	353,251	24,018	645,540	163,271
Boulder.....	32,455	37	554	4,696	670,980	3,639,955	3,439,125	200,830	6,366,986	2,727,031
Chaffee.....	8,123	10	291	1,623	511,918	1,351,201	1,306,473	44,728	2,131,128	779,927
Costilla.....	5,779	3	37	178	40,019	62,387	62,163	224	144,203	81,816
Delta.....	14,204	19	122	2,872	113,008	1,138,471	1,102,801	35,670	1,670,071	531,600
Denver (coextensive with city of Denver) <sup>4</sup>	287,861	781	10,239	61,435	20,910,625	83,179,353	81,123,018	2,056,335	144,613,574	61,434,221
Eagle.....	3,024	3	15	133	16,800	7,080	6,532	548	31,533	24,453
El Paso.....	40,570	69	933	3,582	1,184,507	3,167,539	3,010,371	156,718	7,608,593	4,341,004
Fremont.....	18,896	23	497	11,869	658,914	3,225,771	2,798,486	427,285	5,348,961	2,123,190
Garfield.....	9,975	11	85	233	57,076	133,680	123,478	10,202	270,769	137,089
Gunnison.....	5,527	13	108	2,717	130,627	103,932	101,396	2,036	270,353	166,421
Huerfano.....	17,062	9	26	197	37,551	185,510	177,448	8,064	295,213	109,703
Jefferson.....	21,810	10	210	2,011	248,443	600,306	494,708	105,598	1,531,050	930,750
La Plata.....	12,976	20	229	3,710	317,476	3,167,421	3,011,859	155,562	4,020,197	852,776
Larimer.....	33,137	50	915	24,615	1,188,271	7,631,828	7,124,285	507,543	13,290,534	5,664,536
Las Animas.....	30,008	31	600	4,779	714,002	1,339,577	1,186,036	654,541	3,344,700	1,505,213
Lincoln.....	7,850	7	15	214	18,576	25,175	22,043	3,132	70,513	45,338
Logan.....	19,946	15	228	2,331	327,063	1,785,264	1,684,497	100,767	2,934,534	1,149,270
Mesa.....	25,908	30	403	1,658	519,246	1,788,720	1,732,064	56,656	2,363,052	1,074,332
Montrose.....	11,742	11	33	196	33,716	233,990	227,215	6,775	357,255	123,265
Otero.....	24,390	34	390	9,913	1,224,144	4,524,263	4,291,862	232,401	7,127,828	2,603,565
Phillips <sup>5</sup> .....	5,797	5	9	50	11,286	41,192	39,592	1,600	94,990	53,804
Prowers.....	14,702	19	203	3,397	248,231	2,774,926	2,682,063	92,863	3,801,893	1,026,967
Pueblo.....	66,038	81	5,331	55,216	8,703,932	30,950,925	29,554,511	7,396,414	55,909,445	18,958,520
Rio Grande.....	9,953	14	76	509	99,739	439,090	432,311	6,749	707,947	268,887
Routt.....	9,352	17	112	321	122,403	151,368	146,679	5,689	353,252	201,884
Saguache.....	6,250	5	27	57	28,660	40,801	46,162	639	107,328	60,527
San Miguel.....	2,184	3	11	193	15,450	5,497	4,706	791	29,853	24,356
Teller.....	4,141	3	13	93	15,674	20,766	18,730	2,036	55,505	34,739
Weld.....	65,097	50	1,066	9,077	1,328,323	8,093,787	8,489,720	504,067	13,582,778	4,588,089
Yuma.....	13,613	5	10	40	11,415	20,401	18,435	1,966	57,242	36,841
All other counties <sup>6</sup> .....	127,628	96	1,440	14,148	1,792,123	9,804,068	9,244,502	560,166	14,943,408	5,138,740
<i>Cities having 10,000 inhabitants or more<sup>6</sup></i>										
Boulder.....	11,223	17	155	530	188,401	336,820	299,111	37,709	828,913	492,093
Colorado Springs.....	33,237	55	547	2,014	775,811	2,544,923	2,416,342	129,581	4,948,810	2,403,887
Denver (coextensive with Denver Co.).....	287,861	781	10,239	61,435	20,910,625	83,179,353	81,123,018	2,056,335	144,613,574	61,434,221
Grand Junction.....	10,247	20	253	826	272,904	1,396,098	1,353,443	43,255	2,120,711	730,013
Greeley.....	12,203	22	152	1,077	215,546	1,203,311	1,134,386	73,925	1,935,244	726,933
Trinidad.....	11,732	25	297	1,109	391,903	1,149,145	1,093,556	55,589	2,036,363	887,218

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

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

<sup>3</sup> Statistics are given 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 the counties shown separately. In the case of Phillips County, in which fewer than 10 wage earners were employed, statistics are here presented in order that comparison may be made with the corresponding figures for 1927 (published in mimeographed form).

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

<sup>5</sup> Baca, Clear Creek, Conejos, Crowley, Custer, Dolores, Douglas, Elbert, Gilpin, Grand, Hinsdale, Jackson, Kit Carson, Lake, Moffat, Montezuma, Morgan, Ouray, Park, Pitkin, Rio Blanco, San Juan, Sedgwick, Summit, and Washington Counties. (See footnote 3.) No manufacturing was reported from Cheyenne, Kiowa, and Mineral Counties.

<sup>6</sup> Not including Fort Collins and Pueblo, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments located outside the cities but within the counties in which the cities are situated.

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup> .....	39,980	35,296	4,684	867	823	44	1,805	1,805	253	2,536	2,392	1,383	32,890	29,686	3,204
1919 <sup>1,4</sup> .....	44,729	39,060	5,679	2,234	2,119	115	662	663	29	6,549	4,966	1,583	35,254	31,902	3,352
1914 <sup>4</sup> .....	33,715	30,568	3,147	1,716	1,629	87	400	444	25	4,252	3,535	717	27,278	24,960	2,318
1909.....	34,116	31,381	2,734	1,722	1,634	88	422	413	9	3,904	3,377	527	28,067	25,957	2,110

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

<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 166; male, 162; female, 4. Other salaried officers and employees—total, 1,180; male, 875; female, 305. The corresponding data for 1919 and earlier years are included in the respective items for those years, but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.

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

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

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	32,890	29,490	<b>29,543</b>	29,944	31,004	31,783	32,674	33,227	33,623	34,081	37,533	36,109	35,569	78.2
1919 <sup>1</sup>	35,254	35,173	<b>34,208</b>	33,333	34,361	33,974	35,019	36,749	37,553	<b>38,027</b>	35,377	36,636	37,138	87.9
1914 <sup>1</sup>	27,278	26,816	<b>24,519</b>	24,836	25,489	26,710	26,667	28,268	27,994	27,950	31,004	29,667	28,417	79.1
1909 <sup>1</sup>	28,067	27,902	<b>25,181</b>	25,374	25,581	26,835	27,059	28,099	28,238	28,415	31,026	32,060	32,034	78.6

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	1,548	32,890	45 and over but under 48.....	193	3,167
Not reported.....	106	408	48.....	325	13,411
Under 40.....	24	47	Over 48 but under 54.....	72	1,603
40.....	47	1,680	54.....	133	1,868
Over 40 but under 44.....	13	342	Over 54 but under 60.....	83	4,064
44 and over but under 45.....	289	2,051	60 and over.....	203	2,840

**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.....	1,548	2,031	2,034	32,890	35,254		28,067	51 to 100.....	58	44	63	3,085
No wage earners.....	65	461	825				101 to 250.....	50	48	32	7,589	7,738	5,105
1 to 5.....	844	1,406	1,113	2,152	3,130	2,525	251 to 500.....	11	11	16	4,156	3,488	5,782
6 to 20.....	386	421	398	4,230	4,515	4,834	501 to 1,000.....		7	2		5,261	1,227
21 to 50.....	129	143	84	3,976	4,450	2,573	1,001 to 2,500.....	15	1	1	6,802	3,450	2,152
							2,501 and over.....						

<sup>1</sup> 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 <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,548	2,031	2,034	32,890	35,254	28,067	\$306,071,031	\$275,622,355	\$130,044,312	\$122,331,478	\$100,752,080	\$49,553,408
Less than \$5,000.....	( <sup>2</sup> )	830	700	( <sup>2</sup> )	439	731	( <sup>2</sup> )	2,130,334	1,802,931	( <sup>2</sup> )	1,407,939	1,257,050
\$5,000 to \$19,999.....	644	903	743	1,516	2,212	2,885	7,241,209	9,525,852	7,504,776	4,044,349	5,533,520	4,692,917
\$20,000 to \$99,999.....	553	598	351	4,184	5,452	4,632	24,484,036	27,126,332	14,497,582	13,476,380	13,226,098	7,938,415
\$20,000 to \$49,999.....	364	( <sup>3</sup> )	( <sup>3</sup> )	2,090	( <sup>3</sup> )	( <sup>3</sup> )	11,217,245	( <sup>3</sup> )	( <sup>3</sup> )	6,568,698	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	189	( <sup>3</sup> )	( <sup>3</sup> )	2,094	( <sup>3</sup> )	( <sup>3</sup> )	13,269,841	( <sup>3</sup> )	( <sup>3</sup> )	6,907,682	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	249	211		8,263	7,532		56,436,523	47,420,264		26,511,445	19,716,785	
\$100,000 to \$249,999.....	165	( <sup>3</sup> )		4,084	( <sup>3</sup> )		26,020,547	( <sup>3</sup> )		13,066,034	( <sup>3</sup> )	
\$250,000 to \$499,999.....	84	( <sup>3</sup> )	155	4,179	( <sup>3</sup> )	11,914	30,415,976	( <sup>3</sup> )	47,533,323	13,445,361	( <sup>3</sup> )	20,433,582
\$500,000 to \$999,999.....	43	43		3,299	3,976		29,038,480	28,979,323		10,761,391	10,383,097	
\$1,000,000 and over.....	59	46	20	15,628	15,644	7,905	188,870,643	160,440,730	53,645,700	66,937,913	50,483,971	15,231,444
\$1,000,000 to \$2,499,999.....	43	( <sup>3</sup> )	( <sup>3</sup> )	6,944	( <sup>3</sup> )	( <sup>3</sup> )	66,199,413	( <sup>3</sup> )	( <sup>3</sup> )	26,530,139	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	7	( <sup>3</sup> )	( <sup>3</sup> )	1,423	( <sup>3</sup> )	( <sup>3</sup> )	25,350,355	( <sup>3</sup> )	( <sup>3</sup> )	8,314,476	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	9	( <sup>3</sup> )	( <sup>3</sup> )	7,261	( <sup>3</sup> )	( <sup>3</sup> )	97,320,875	( <sup>3</sup> )	( <sup>3</sup> )	32,043,298	( <sup>3</sup> )	( <sup>3</sup> )

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

<sup>2</sup> No data.

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



CENSUS OF MANUFACTURES: 1929

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	1,548	2,631	32,890	35,254	\$306,071,031	\$275,622,335	\$122,331,478	\$100,752,060
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	811	884	29,527	30,911	285,317,839	250,927,040	112,039,484	89,001,458
Other forms of ownership or control (individual, partnership, etc.).....	737	1,747	3,363	4,343	20,753,142	24,694,395	10,291,994	11,750,602
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	247	(1)	18,202	(1)	197,524,913	(1)	70,555,811	(1)
Independent (single-unit).....	1,301	(1)	14,688	(1)	108,546,118	(1)	51,775,667	(1)

<sup>1</sup> Not tabulated.

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

[This table presents statistics for each county in which the aggregate horsepower equaled or exceeded 25,000]

	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
<i>The State</i>														
1929.....	233,726	135,353	497	79,784	40	49,929	92	3,492	11	2,148	10,798	98,378	4,181	99,474
1927.....	254,530	171,585	536	85,383	42	33,963	66	1,783	10	451	9,522	82,945	3,311	92,143
1925.....	219,895	128,918	589	109,434	44	17,417	80	1,405	13	602	8,388	90,947	2,008	84,860
1919 <sup>1</sup> .....	206,110	148,787	748	138,280	44	7,137	238	2,186	37	1,184	5,717	57,323	1,824	28,713
1914 <sup>1</sup> .....	162,701	135,352	<sup>2</sup> 842	<sup>3</sup> 126,608	( <sup>4</sup> )	( <sup>4</sup> )	183	2,075	84	6,669	3,190	27,349	1,575	29,929
<i>Counties, 1929</i>														
Denver.....	61,435	17,120	79	11,178	16	4,930	35	1,012			6,279	44,315	858	12,327
Pueblo.....	55,216	46,038	55	21,708	9	24,275	2	55			778	9,178	1,631	58,045

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

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

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

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

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	233,726	135,353	98,373	99,474	La Plata.....	3,710	1,170	2,540	-----
Adams.....	5,466	2,456	3,010	1,362	Larimer.....	24,615	15,076	9,539	1,447
Alamosa.....	1,113	280	833	-----	Las Animas.....	4,779	1,085	3,694	78
Arapahoe.....	3,368	418	2,950	-----	Lincoln.....	214	30	184	-----
Archuleta.....	245	225	20	-----	Logan.....	2,831	2,363	468	227
Bent.....	974	180	794	-----	Mesa.....	1,058	422	1,230	-----
Boulder.....	4,696	3,503	1,193	751	Montrose.....	190	87	109	-----
Chaffee.....	1,623	272	1,351	-----	Otero.....	9,913	8,394	1,519	6,273
Costilla.....	178	153	25	-----	Phillips.....	60	25	25	15
Delta.....	2,872	2,512	360	1,900	Prowers.....	3,397	1,677	1,720	158
Denver (coextensive with city of Denver).....	61,435	17,120	44,315	12,327	Pueblo.....	55,216	46,038	9,178	58,045
Eagle.....	133	75	58	-----	Rio Grande.....	506	381	125	-----
El Paso.....	3,552	1,291	2,261	30	Routt.....	321	283	88	75
Fronton.....	11,809	9,617	2,252	6,252	Saguache.....	67	50	7	-----
Garfield.....	238	141	92	18	San Miguel.....	193	165	28	-----
Gunnison.....	2,717	2,054	63	924	Teller.....	93	60	33	-----
Huerfano.....	197	134	63	-----	Weld.....	9,077	7,406	1,671	3,920
Jefferson.....	2,011	951	1,060	471	Yuma.....	40	20	20	-----
					All other counties <sup>2</sup> .....	14,148	8,639	5,509	5,201

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

<sup>2</sup> Baca, Clear Creek, Conejos, Crowley, Custer, Dolores, Douglas, Elbert, Grand, Hinsdale, Jackson, Kit Carson, Lake, Moffat, Montezuma, Morgan, Ouray, Park, Pitkin, Rio Blanco, San Juan, Sedgwick, Summit, and Washington Counties. No horsepower was reported in Gilpin County and no manufacturing in Cheyenne, Kiowa, and Mineral Counties.

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.)	2,318,058	\$6,701,540	2,757,337	2,773,307	2,084,030	2,644,127	3,335,005
Anthracite (tons, 2,240 lbs.)	42,526	140,684	( <sup>3</sup> )	48,567	33,831	14,495	9,616
Bituminous (tons, 2,000 lbs.)	2,270,420	6,560,856	( <sup>3</sup> )	2,718,972	2,040,999	2,627,893	3,325,135
Coke (tons, 2,000 lbs.)	578,333	2,410,024	( <sup>4</sup> )	( <sup>4</sup> )	530,304	600,190	691,837
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup>	10,799,344	372,371	( <sup>4</sup> )	( <sup>4</sup> )	4,783,476		
Gasoline and kerosene (gallons) <sup>6</sup>	174,887	29,502	( <sup>4</sup> )	( <sup>4</sup> )	1,653,960	4,130,238	3,833,550
Gas, natural (M cu. ft.)	9,440,313	1,379,513	( <sup>4</sup> )	( <sup>4</sup> )			
Gas, manufactured (M cu. ft.)	44,006,511	1,544,751	( <sup>4</sup> )	( <sup>4</sup> )	114,840	916,938	342,577
Other fuels		43,030	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours)	84,081,808	1,711,608	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Total cost of fuel and purchased energy		\$14,192,339	\$18,230,891	Cost ( <sup>4</sup> )	Cost \$14,686,215	Cost \$8,056,241	Cost \$8,528,516

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

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

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>1</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total	1,548	36,223	32,800	135,353	98,378	\$13,580,172	\$43,640,403	\$170,113,113	\$13,626,440	\$306,071,031	\$122,331,478
Agricultural implements	5	5	17		83	9,570	20,329	44,575	862	106,477	61,040
Awnings, tents, sails, and canvas covers	9	30	113		122	104,219	126,708	405,849	7,425	802,327	889,053
Beverages	34	57	148	798	334	153,012	203,600	524,230	20,353	1,234,224	683,641
Bookbinding and blank-book making	6	11	52		42	26,738	52,410	41,870	2,330	204,101	159,892
Boxes, paper, not elsewhere classified	4	23	177		212	82,042	145,459	294,081	7,131	683,723	382,511
Boxes, wooden, except cigar boxes	4	6	97	125	327	13,863	86,701	275,453	6,230	439,573	157,895
Bread and other bakery products	180	178	1,680	395	2,452	418,117	2,005,840	5,424,373	224,531	11,773,612	6,124,708
Brushes, other than rubber	3	1	12		14	( <sup>4</sup> )	12,335	22,849	842	50,187	26,096
Butter	60	142	303	871	2,988	280,682	340,492	7,942,531	96,549	9,854,633	1,815,563
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	26	78	826	746	855	253,480	599,578	3,233,954	58,013	5,322,062	2,029,195
Car and general construction and repairs, steam-railroad repair shops	28	373	4,357	4,274	11,102	874,879	6,611,834	4,963,612	376,730	12,896,035	7,555,093
Caskets, coffins, burial cases, and other morticians' goods	7	13	42		122	31,791	53,905	156,338	2,543	360,345	201,459
Cheese	16	4	29	33	116	6,750	44,825	700,528	12,904	846,964	133,532
Chemicals, not elsewhere classified	3	13	52	65	824	41,691	62,395	448,058	28,177	751,138	274,003
Cigars and cigarettes	5	13	117		3	29,688	88,698	100,900	972	295,433	184,501
Clay products (other than pottery) and nonclay refractories	33	83	806	1,585	4,132	217,639	1,155,724	546,061	423,394	3,097,142	2,127,987
Cleaning and polishing preparations	7	18	10		14	34,391	13,118	46,231	416	119,430	72,493
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified)	5	59	407		40	130,263	364,189	703,611	11,961	1,443,510	727,938
Clothing, women's, not elsewhere classified	7	24	149		27	42,448	97,474	275,107	1,697	559,657	282,853
Coffee and spice, roasting and grinding	14	65	133		564	169,721	137,667	2,758,040	14,517	3,682,184	909,627
Concrete products	13	20	189	508	693	32,122	238,292	682,417	26,041	1,176,424	567,966
Confectionery	40	95	508	177	501	211,077	394,698	1,369,273	49,401	2,372,664	1,453,990
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	15	60	195		629	127,615	261,733	844,166	15,286	1,541,951	682,490
Dental goods and equipment	3	1	45		6	( <sup>4</sup> )	58,337	80,871	1,054	165,023	83,103
Druggists' preparations	6	12	23		29	43,475	30,792	118,899	3,008	316,258	194,351
Electrical machinery, apparatus, and supplies	8	19	71		141	41,218	76,159	319,529	15,300	540,908	206,074
Engraving, steel and copperplate, and plate printing	4	5	53		27	6,499	51,953	43,411	981	159,719	115,327
Feeds, prepared, for animals and fowls	24	106	273	1,953	7,340	176,665	345,517	3,518,155	150,321	4,677,448	999,972
Flavoring extracts and flavoring sirups	4	5	5		16	9,527	5,100	49,618	438	81,807	31,851
Flour and other grain-mill products	59	63	469	3,703	2,343	114,885	614,344	10,788,822	138,768	13,761,733	2,834,143
Food preparations, not elsewhere classified	16	31	143	406	218	90,029	131,888	863,624	24,688	1,646,314	758,602
Foundry and machine-shop products, not elsewhere classified	76	369	1,760	624	13,142	613,458	2,406,156	3,542,081	259,968	10,694,473	6,892,429
Furniture, including store and office fixtures	13	31	195		292	98,306	297,132	642,769	9,148	1,338,374	686,467
Gas, manufactured, illuminating and heating	7	39	78	175	106	71,823	103,186	124,785	118,518	622,683	379,380

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Glass products (except mirrors) made from purchased glass.....	3	1	8	-----	8	(4)	\$6,804	\$22,905	\$556	\$40,106	\$16,645
Greases and tallow, not including lubricating greases.....	6	14	55	185	536	\$38,474	69,828	287,516	16,327	609,205	205,362
Hand stamps and stencils and brands.....	3	6	45	-----	43	14,020	60,127	53,555	2,594	168,098	112,849
Ice cream.....	29	54	163	155	1,378	138,656	215,277	1,052,418	69,975	2,480,453	1,358,060
Ice, manufactured.....	28	76	243	4,948	1,821	168,798	307,937	65,112	229,465	1,485,832	1,191,255
Instruments, professional and scientific.....	3	0	35	-----	92	22,225	45,200	15,250	1,756	131,861	114,885
Jewelry.....	12	8	62	-----	30	9,806	84,452	76,794	1,069	285,767	207,904
Lubricating oils and greases, not made in petroleum refineries.....	4	4	10	33	33	12,700	13,287	102,104	1,341	183,945	80,500
Lumber and timber products, not elsewhere classified.....	61	77	1,219	4,791	157	136,615	1,455,939	308,710	37,453	2,278,660	1,932,497
Marble, granite, slate, and other stone products.....	18	34	120	2,575	1,655	87,142	217,117	189,928	24,896	657,238	442,414
Mattresses and bed springs, not elsewhere classified.....	5	19	137	300	384	50,085	159,928	374,907	13,979	783,147	344,201
Meat packing, wholesale.....	25	407	1,497	3,895	1,402	839,167	1,832,894	31,518,245	247,177	36,719,567	4,954,145
Models and patterns, not including paper patterns.....	7	0	12	-----	43	-----	21,885	10,764	1,040	60,041	55,137
Motor-vehicle bodies and motor-vehicle parts.....	8	12	71	-----	136	24,837	109,051	130,140	5,439	372,542	236,957
Nonferrous-metal alloys and products, not including aluminum products.....	12	25	110	15	447	76,342	142,304	1,520,180	31,336	2,198,394	637,878
Paints and varnishes.....	5	17	65	-----	393	48,474	88,779	629,419	8,546	1,101,579	463,614
Patent or proprietary medicines and compounds.....	10	29	22	-----	31	52,988	22,173	142,396	1,465	344,368	200,507
Perfumes, cosmetics, and other toilet preparations.....	5	6	6	-----	6	10,155	3,925	23,172	416	73,240	49,652
Photo-engraving, not done in printing establishments.....	8	30	66	-----	93	84,294	115,552	56,701	4,864	421,247	359,682
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	29	62	312	635	1,411	146,092	479,135	541,490	26,614	1,507,322	939,218
Pottery, including porcelain ware.....	4	15	114	126	427	37,330	112,410	28,009	33,328	325,736	204,449
Printing and publishing, book and job.....	109	273	1,034	60	1,349	609,273	1,597,046	1,569,522	61,203	5,353,011	3,722,236
Printing and publishing, newspaper and periodical.....	169	1,010	1,121	3	2,315	1,966,200	1,871,851	2,540,068	108,981	12,526,112	9,877,068
Saddlery and harness.....	8	20	95	-----	117	36,920	112,890	264,171	3,034	484,736	217,531
Signs and advertising novelties.....	20	65	126	-----	39	117,974	197,660	218,253	38,030	928,554	672,271
Sporting and athletic goods, not including firearms or ammunition.....	5	10	64	-----	47	22,431	51,346	19,716	1,825	118,644	97,103
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	3	3	9	-----	26	3,960	12,438	21,335	976	39,461	17,150
Stoves and ranges (other than electric) and warm-air furnaces.....	5	3	6	-----	8	6,257	7,917	20,500	93	51,572	30,979
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	15	72	254	-----	804	209,470	349,110	1,202,267	16,090	2,066,968	848,611
Surgical and orthopedic appliances, including artificial limbs.....	6	8	14	-----	12	14,593	19,045	15,405	263	71,457	55,789
Vinegar and cider.....	4	5	16	37	19	15,020	11,307	30,326	924	88,789	51,539
Wall plaster, wall board, insulating board, and floor composition.....	4	5	20	-----	929	6,685	25,209	82,209	15,463	173,945	76,333
Other industries.....	171	1,782	12,087	161,159	32,266	3,954,846	16,532,556	75,159,085	10,494,080	137,962,538	52,309,373

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

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

<sup>3</sup> Not including data for 1,346 employees of central administrative offices, with salaries aggregating \$3,972,500. See GENERAL EXPLANATIONS—Persons Engaged.

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

TABLE 18.—GENERAL STATISTICS FOR IMPORTANT COUNTIES, BY INDUSTRIES: 1929

[This table gives, for each important industrial county (i. e., each county in which 4,000 wage earners or more were employed in manufacturing and printing and publishing industries) in the State, except as specified in footnote 4, separate figures for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and gives combined statistics for the remaining industries as a group ("Other Industries"). Certain of the industries for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.]

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

DENVER COUNTY (COEXTENSIVE WITH CITY OF DENVER)

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

All industries, total.....	781	3,485	16,230	17,120	44,315	\$7,800,775	\$20,010,625	\$81,123,018	\$2,056,335	\$144,613,574	\$61,424,221
Beverages.....	9	32	78	492	185	85,905	115,909	300,618	14,118	664,789	350,053
Bookbinding and blank-book making.....	6	11	52	42	42	20,738	52,410	41,879	2,330	204,101	159,802
Boxes, paper, not elsewhere classified.....	4	23	177	212	212	82,042	145,450	294,081	7,131	683,723	4,387,511
Bread and other bakery products.....	80	124	1,188	359	1,435	312,058	1,423,242	3,840,177	133,348	8,360,668	4,387,143
Brushes, other than rubber.....	3	1	12	14	14	(1)	12,335	22,849	342	50,187	26,995
Butter.....	13	53	126	675	2,087	115,392	133,495	3,912,802	47,055	4,772,300	812,323
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	8	17	00	6	54	50,757	53,194	420,595	4,133	653,300	228,672
Car and general construction and repairs, steam-railroad repair shops.....	5	197	2,359	2,050	7,153	463,028	3,487,083	3,017,490	213,759	7,240,283	4,018,034
Caskets, coffins, burial cases, and other morticians' goods <sup>2</sup> .....	7	13	42	122	122	31,791	53,905	156,338	2,548	360,345	201,450
Chemicals, not elsewhere classified.....	3	13	62	65	824	41,691	62,395	448,058	28,177	751,158	274,903
Cigars and cigarettes <sup>2</sup> .....	5	13	117	3	3	20,688	38,598	109,960	972	295,433	184,501
Clay products (other than pottery) and nonclay factories.....	21	46	554	175	2,734	115,835	762,928	380,804	243,058	2,054,161	1,430,289
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	5	59	467	40	40	130,263	364,189	703,611	11,961	1,443,510	727,938
Clothing, women's, not elsewhere classified.....	7	24	149	27	27	42,448	97,474	275,107	1,697	559,657	282,853
Coffee and spice, roasting and grinding.....	11	61	127	542	542	154,721	133,787	2,009,710	13,674	3,477,923	854,539
Confectionery.....	30	77	422	97	467	181,767	341,286	1,270,063	44,346	2,597,343	1,242,944
Dental goods and equipment.....	3	1	45	0	0	(1)	33,337	80,871	1,054	165,023	83,103
Electrical machinery, apparatus, and supplies.....	8	19	71	141	141	41,218	76,159	310,82	15,300	540,903	206,074
Engraving, steel and copperplate, and plate printing.....	4	5	53	27	27	6,469	51,953	43,411	981	150,719	115,327
Feeds, prepared, for animals and fowls.....	4	32	43	20	1,741	40,905	82,312	709,872	17,405	993,125	178,048
Flavoring extracts and flavoring sirups.....	4	5	5	10	10	9,527	5,100	49,518	438	31,807	31,851
Flour and other grain-mill products.....	7	30	193	1,230	895	61,457	230,392	4,097,942	49,837	5,833,167	1,085,328
Food preparations, not elsewhere classified.....	11	23	91	88	88	69,903	69,902	570,465	7,200	910,690	338,365
Foundry and machine-shop products, not elsewhere classified.....	52	234	1,036	134	9,650	844,872	1,295,262	2,394,626	160,034	6,692,257	4,131,607
Furniture, including store and office fixtures <sup>2</sup> .....	13	31	195	292	292	98,306	267,132	642,769	9,348	1,338,374	680,457
Glass products (except mirrors) made from purchased glass.....	3	1	8	8	8	(1)	6,304	22,005	556	40,106	16,645
Hand stamps and stencils and brands.....	3	6	45	43	43	14,020	60,127	53,555	2,594	168,098	112,849
Ice cream.....	11	30	88	125	775	88,379	120,689	627,279	41,156	1,570,199	901,794
Ice, manufactured.....	3	20	94	2,350	459	60,600	148,500	12,819	117,259	729,647	500,556
Instruments, professional and scientific.....	3	6	35	92	92	22,225	45,200	15,250	1,756	131,801	114,855
Lubricating oils and greases, not made in petroleum refineries.....	4	4	10	33	33	12,700	13,287	102,104	1,341	183,045	80,560
Marble, granite, slate, and other stone products.....	11	17	48	787	787	38,103	33,234	50,089	5,861	223,248	161,399
Meat packing, wholesale.....	11	346	1,165	3,070	605	711,423	1,480,612	24,588,040	203,831	28,430,103	3,647,232
Models and patterns, not including paper patterns.....	7	12	12	43	43	21,885	10,764	1,040	66,941	55,137	55,137
Motor-vehicle bodies and motor-vehicle parts <sup>2</sup> .....	8	12	71	136	136	24,337	100,051	130,146	5,439	372,542	236,957
Nonferrous-metal alloys and products, not including aluminum products.....	12	25	110	15	447	76,342	142,364	1,520,180	31,336	2,108,394	637,878
Patent or proprietary medicines and compounds.....	7	22	12	20	20	43,569	13,520	109,235	944	240,660	130,481
Perfumes, cosmetics, and other toilet preparations.....	5	6	6	6	6	10,165	3,925	23,172	416	73,240	49,652
Photo-engraving, not done in printing establishments <sup>2</sup> .....	8	30	66	93	93	84,204	115,552	56,701	4,364	421,247	359,682
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	16	43	237	610	792	97,761	358,130	381,600	17,457	1,092,424	693,367
Printing and publishing, book and job.....	86	221	888	00	1,156	542,526	1,384,030	1,330,362	49,972	4,598,213	3,208,379
Printing and publishing, newspaper and periodical.....	48	640	467	1,208	1,208	1,203,662	932,486	1,990,847	41,360	8,335,506	6,803,299
Signs and advertising novelties <sup>2</sup> .....	20	65	126	39	39	117,674	107,666	218,253	38,030	923,554	672,221
Sporting and athletic goods, not including firearms or ammunition.....	5	10	64	47	47	22,431	51,346	19,710	1,825	118,644	97,103
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	3	3	9	26	26	3,060	12,438	21,335	976	39,461	17,150
Stoves and ranges (other than electric) and warm-air furnaces.....	5	3	6	8	8	6,257	7,917	20,500	93	51,572	30,979
Surgical and orthopedic appliances, including artificial limbs.....	6	8	14	12	12	14,593	19,045	15,405	263	71,457	55,789
Other industries.....	181	823	4,932	5,554	8,330	2,009,469	6,118,244	22,507,228	453,504	43,385,048	20,424,310

PUEBLO 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, exactly or approximately, the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	81	571	5,831	46,038	9,178	\$1,480,074	\$3,703,982	\$20,554,511	\$7,396,414	\$55,900,445	\$18,958,520
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

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

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

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

<sup>2</sup> Includes data for 1 establishment located outside Denver County.  
<sup>3</sup> Includes data for 2 establishments located outside Denver County.

# CONNECTICUT

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	3,120	251,861	909,239	381,878	527,361	\$328,865,412	\$665,661,316	\$633,379,231	\$32,282,085	\$1,471,875,604	\$806,214,288
1927	2,877	240,800	847,395	370,132	471,263	304,593,907	596,014,077	569,542,773	20,471,304	1,284,738,568	688,724,486
1925	3,062	242,362	790,087	360,971	399,116	301,199,566	612,642,343	( <sup>5</sup> )	( <sup>5</sup> )	1,274,951,562	662,309,219
1923	3,130	263,232	727,021	378,945	345,076	314,828,741	612,061,174	( <sup>5</sup> )	( <sup>5</sup> )	1,288,280,787	675,319,593
1921	3,320	210,990	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	221,125,564	407,846,005	( <sup>5</sup> )	( <sup>5</sup> )	836,163,905	428,317,900
1919	4,372	292,672	664,316	421,926	242,390	324,682,251	685,937,199	659,772,870	29,164,320	1,392,431,620	706,494,421
1914	4,104	226,204	452,665	388,371	64,294	125,219,860	288,510,880	270,982,086	11,528,800	545,471,517	256,960,631
1909	4,251	210,792	395,837	362,217	33,620	110,119,045	257,259,393	247,607,690	9,751,707	490,271,695	233,012,302
1904	3,477	181,605	298,157	289,024	8,233	87,042,628	191,361,881	184,145,021	7,155,960	369,082,091	177,780,210
1899	3,382	159,783	251,304	247,089	4,215	73,394,062	169,671,648	( <sup>5</sup> )	( <sup>5</sup> )	315,106,150	145,434,502
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	8.8	4.6	7.3	1.5	11.9	8.0	11.7	11.8	9.5	14.6	17.1
1925-1927	-6.0	-0.6	7.3	-3.8	18.1	1.1	-2.7			0.8	4.0
1923-1925	-2.2	-7.9	8.7	3.2	14.7	-4.3	-0.1			-1.0	-1.9
1921-1923	-5.7	24.3				42.4	60.3			54.1	57.7
1919-1921	-31.9	-27.9				-31.9	-40.5			-39.9	-39.4
1919-1929	-35.8	-13.9	36.9	-0.5	117.6	1.3	-3.0	-3.6	10.7	5.7	14.1
1909-1919	14.6	38.3	67.8	10.5	621.0	194.8	100.6	165.4	109.1	184.0	203.2
1899-1909	25.7	32.0	67.5	40.6	697.6	60.0	51.6			55.6	60.2

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

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

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

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

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

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

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

[For statistics by industries for industrial areas and important counties, see Table 13. For statistics by industries for important cities, see Table 14]

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	1,608,903	3,129	251,861	909,239	\$328,865,412	\$665,661,316	\$633,379,231	\$32,282,085	\$1,471,875,604	\$806,214,288
<i>Industrial Areas</i>										
Bridgeport-New Haven-Waterbury Area <sup>3</sup>	850,151	1,808	136,147	506,406	180,875,135	417,911,036	398,629,650	19,281,386	862,311,307	444,400,271
Hartford Area <sup>4</sup>	421,097	674	65,482	206,930	89,977,178	122,768,417	115,623,013	7,145,404	351,491,271	228,722,864
<i>Counties</i>										
Fairfield <sup>5</sup>	386,702	766	58,829	191,870	79,238,339	188,327,748	181,461,818	6,865,930	387,194,931	198,867,133
Hartford <sup>6</sup>	421,097	674	65,482	206,930	89,977,178	122,768,417	115,623,013	7,145,404	351,491,271	228,722,864
Litchfield <sup>7</sup>	82,556	126	11,986	85,338	14,833,623	28,865,781	26,973,265	1,892,516	62,592,287	34,226,506
Middlesex <sup>8</sup>	51,388	131	6,770	19,933	7,909,561	16,439,746	15,640,083	799,708	39,784,592	23,844,846
New Haven <sup>9</sup>	463,449	1,042	77,318	314,625	101,636,746	229,593,288	217,167,832	12,415,456	475,116,376	245,633,088
New London <sup>10</sup>	118,966	224	16,578	72,267	19,634,218	40,360,212	38,090,059	2,264,153	56,339,899	45,076,687
Tolland <sup>11</sup>	28,659	59	4,151	11,456	4,379,268	10,742,159	10,338,640	403,519	18,802,471	8,120,312
Windham <sup>12</sup>	54,086	107	10,747	66,830	11,266,429	29,073,966	28,078,569	995,399	50,496,777	21,422,312

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

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

[For statistics by industries for industrial areas and important counties, see Table 13. For statistics by industries for important cities, see Table 14]

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Cities having 10,000 inhabitants or more<sup>3</sup></i>										
Ansonia.....	19,898	24	5,510	45,980	\$8,083,323	\$40,803,646	\$39,605,655	\$1,197,991	\$62,662,211	\$21,858,565
Bridgeport <sup>4</sup> .....	146,716	339	30,671	117,271	39,452,165	81,026,601	77,280,101	3,746,410	176,646,927	55,620,326
Bristol.....	28,451	32	7,715	37,184	10,673,067	14,136,762	12,927,338	1,209,424	46,234,051	32,068,189
Danbury.....	22,261	81	5,565	10,610	7,795,540	22,317,895	21,675,370	642,025	37,699,460	15,382,065
Derby.....	10,788	30	1,218	4,118	1,630,628	2,202,229	2,090,289	111,990	6,181,553	3,973,324
Hartford.....	164,072	364	24,744	57,156	36,020,538	43,044,133	41,817,547	2,126,586	137,226,262	63,282,159
Meriden.....	38,481	105	7,037	17,311	9,447,926	11,628,135	11,025,805	602,330	36,765,061	25,136,926
Middletown.....	24,654	49	4,015	9,833	5,011,667	9,426,107	8,989,383	436,724	20,997,834	11,571,727
Naugatuck.....	14,315	19	2,885	13,782	3,741,328	6,000,771	5,512,174	487,597	15,375,194	9,365,393
New Britain.....	68,128	83	14,696	45,883	19,651,267	21,764,180	20,288,974	1,475,206	69,796,967	48,032,787
New Haven <sup>5</sup> .....	162,655	497	24,974	75,538	31,161,505	53,815,885	49,227,113	4,588,772	130,584,617	70,768,732
New London.....	29,640	51	2,937	4,535	2,570,525	6,340,400	6,004,080	265,320	12,100,159	5,750,759
Norwalk.....	36,019	56	2,451	6,438	3,204,987	8,444,174	8,160,195	283,979	17,558,073	9,113,899
Norwich.....	23,021	72	4,289	15,475	5,228,689	10,759,763	10,259,200	500,563	25,475,387	14,715,624
Stamford.....	46,846	80	6,466	17,998	9,694,304	12,065,856	12,192,079	773,777	35,469,568	22,503,712
Torrington (borough).....	26,040	45	6,895	21,034	8,973,789	19,155,265	18,231,829	923,436	41,193,027	22,037,762
Wallingford (borough).....	11,170	35	2,990	7,705	3,917,962	5,273,242	5,009,557	263,685	14,641,443	9,368,201
Waterbury <sup>6</sup> .....	99,902	181	24,369	120,530	32,908,833	86,104,585	82,052,374	4,052,211	157,285,971	71,181,386
Willimantic.....	12,102	24	2,230	8,628	2,191,178	9,115,279	8,935,807	179,472	14,702,922	5,587,043

<sup>1</sup>Not including salaried employees.  
<sup>2</sup>Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.  
<sup>3</sup>The Bridgeport-New Haven-Waterbury industrial area comprises Fairfield and New Haven counties.  
<sup>4</sup>The Hartford industrial area is coextensive with Hartford County.  
<sup>5</sup>For statistics by industries for this county, see Table 13.  
<sup>6</sup>Not including Shelton, which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for this city from separate publication to avoid disclosing approximations of the data for individual establishments.  
<sup>7</sup>For statistics by industries for this city, see Table 14.

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup> .....	289,579	215,127	74,452	1,593	1,400	73	2,160	2,973	193	32,939	22,107	10,832	251,861	188,657	63,204
1919 <sup>1,2</sup> .....	338,033	252,370	85,663	3,020	3,764	166	3,195	3,055	140	38,246	24,504	13,742	292,672	221,047	71,625
1914 <sup>3</sup> .....	254,489	191,716	62,783	3,123	2,984	139	2,375	2,300	75	22,737	16,850	5,887	226,264	169,582	56,682
1909.....	233,871	176,478	57,393	3,468	3,311	157	2,124	2,038	36	17,487	13,420	4,067	210,792	157,659	53,133

<sup>1</sup>No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup>Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 173; male, 172; female, 1. Other salaried officers and employees—total, 2,722; male, 1,562; female, 1,160. The corresponding data for 1919 and earlier years are included in the respective items for those years but can not be given separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup>Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup>Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup> .....	251,861	240,805	250,234	254,409	255,400	255,579	254,978	255,714	255,310	254,192	253,463	247,156	239,092	69.5
1919.....	292,672	293,231	285,424	282,320	<i>279,547</i>	282,178	285,849	285,117	286,077	284,192	298,600	312,133	316,858	85.2
1914.....	226,264	228,033	230,542	233,083	232,162	231,433	228,252	223,931	<i>219,789</i>	222,889	223,118	220,393	221,543	94.3
1909.....	210,792	201,545	<i>199,885</i>	202,523	203,599	205,193	208,732	206,295	211,295	218,637	222,052	224,439	225,692	88.3

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

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**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, 129	251, 861	45 and over but under 48.....	179	9, 181
Not reported.....	203	668	48.....	550	36, 693
Under 40.....	45	337	Over 48 but under 54.....	951	114, 656
40.....	57	1, 895	54.....	227	8, 722
Over 40 but under 44.....	16	1, 008	Over 54 but under 60.....	350	63, 251
44 and over but under 45.....	402	11, 189	60 and over.....	149	4, 283

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

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

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	3, 129	4, 872	4, 251	251, 861	292, 672	210, 792	51 to 100.....	232	240	223	16, 515	17, 345	15, 880
No wage earners.....	69	605	444				101 to 250.....	274	264	251	43, 150	42, 185	38, 187
1 to 5.....	1, 143	2, 207	1, 847	3, 296	4, 800	4, 390	251 to 500.....	105	112	94	33, 017	40, 149	32, 730
6 to 20.....	766	837	886	8, 309	9, 436	9, 911	501 to 1,000.....	62	62	43	42, 347	43, 230	34, 219
21 to 50.....	434	434	423	14, 128	13, 929	14, 024	1,001 to 2,500.....	34	51	35	51, 432	121, 543	61, 451
							2,501 and over.....	10			34, 670		

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	3, 129	4, 872	4, 251	251, 861	292, 672	210, 792	\$1, 471, 875, 004	\$1, 302, 431, 620	\$490, 271, 005	\$806, 214, 288	\$706, 494, 421	\$233, 012, 302
Less than \$5,000.....	(?)	1, 155	1, 312	(?)	850	1, 020	(?)	2, 825, 354	3, 047, 313	(?)	1, 870, 771	1, 988, 061
\$5,000 to \$19,999.....	869	1, 395	1, 205	2, 391	3, 897	6, 514	10, 072, 431	14, 890, 308	13, 621, 192	6, 405, 499	8, 716, 700	7, 709, 840
\$20,000 to \$99,999.....	1, 085	1, 206	909	11, 654	13, 577	19, 981	51, 198, 895	54, 355, 667	40, 437, 942	31, 111, 568	28, 409, 964	21, 593, 012
\$20,000 to \$49,999.....	669	(?)	(?)	4, 865	(?)	(?)	21, 627, 077	(?)	(?)	13, 034, 329	(?)	(?)
\$50,000 to \$99,999.....	419	(?)	(?)	0, 789	(?)	(?)	29, 571, 818	(?)	(?)	18, 077, 269	(?)	(?)
\$100,000 to \$499,999.....	667	635		31, 099	33, 671		156, 402, 113	144, 981, 833		80, 463, 234	76, 906, 580	
\$100,000 to \$249,999.....	410	(?)		13, 281	(?)		65, 239, 601	(?)		38, 068, 239	(?)	
\$250,000 to \$499,999.....	257	(?)	641	17, 818	(?)	87, 295	91, 162, 512	(?)	191, 603, 190	51, 304, 045	(?)	97, 294, 219
\$500,000 to \$999,999.....	213	202		29, 839	30, 617		152, 906, 303	145, 474, 477		80, 468, 298	73, 658, 688	
\$1,000,000 and over.....	295	279	93	176, 878	210, 251	95, 373	1, 101, 295, 722	1, 029, 897, 891	241, 562, 058	592, 765, 659	516, 931, 709	104, 129, 170
\$1,000,000 to \$2,499,999.....	189	(?)	(?)	45, 548	(?)	(?)	267, 046, 035	(?)	(?)	143, 635, 332	(?)	(?)
\$2,500,000 to \$4,999,999.....	80	(?)	(?)	53, 553	(?)	(?)	280, 471, 784	(?)	(?)	171, 444, 721	(?)	(?)
\$5,000,000 and over.....	46	(?)	(?)	77, 777	(?)	(?)	553, 777, 903	(?)	(?)	277, 785, 606	(?)	(?)

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

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

CENSUS OF MANUFACTURES: 1929

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	3, 129	4, 872	251, 861	292, 672	\$1, 471, 875, 604	\$1, 302, 431, 620	\$806, 214, 288	\$706, 494, 421
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1, 846	1, 864	238, 048	275, 673	1, 410, 275, 330	1, 307, 239, 450	773, 184, 020	666, 053, 423
Other forms of ownership or control (individual, partnership, etc.).....	1, 283	3, 008	12, 813	16, 999	61, 600, 274	85, 192, 170	33, 030, 268	40, 440, 998
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	470	(1)	136, 773	(1)	855, 054, 209	(1)	443, 510, 795	(1)
Independent (single-unit).....	2, 659	(4)	115, 088	(1)	615, 921, 395	(1)	362, 703, 493	(1)

<sup>1</sup> Not tabulated.

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

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Electric motors driven by purchased energy			
			Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	Number			Horse-power
<i>The State:</i>														
1929.....	909, 239	381, 878	799	151, 631	220	171, 883	112	5, 555	343	52, 809	68, 866	527, 361	28, 968	223, 683
1927.....	847, 395	376, 132	915	167, 053	214	150, 391	153	6, 117	395	52, 571	51, 839	471, 263	28, 110	210, 626
1925.....	790, 087	390, 971	1, 009	197, 651	221	118, 705	163	18, 308	446	56, 307	43, 636	399, 116	22, 878	190, 062
1919 <sup>1</sup> .....	664, 316	421, 926	1, 601	230, 934	176	109, 812	481	10, 928	671	70, 252	23, 405	242, 390	14, 005	154, 578
1914 <sup>1</sup> .....	452, 665	383, 371	<sup>2</sup> 2, 270	<sup>2</sup> 303, 799	( <sup>3</sup> )	( <sup>3</sup> )	437	17, 770	732	66, 302	7, 800	64, 294	9, 576	111, 715
<i>Industrial Areas: 1929</i>														
Bridgeport-New Haven-Waterbury Area.....	506, 495	183, 812	361	73, 043	129	107, 213	43	1, 397	61	7, 159	37, 513	317, 683	15, 451	123, 824
Hartford Area.....	206, 930	62, 723	118	26, 742	39	25, 292	24	740	66	9, 954	18, 415	144, 202	4, 334	38, 764
<i>Counties in which aggregate horsepower exceeded 25,000: 1929</i>														
Fairfield.....	191, 870	72, 026	136	31, 995	44	37, 310	13	459	19	2, 253	15, 753	119, 844	7, 114	35, 998
Hartford.....	206, 930	62, 723	118	26, 742	39	25, 292	24	740	66	9, 954	18, 415	144, 202	4, 334	38, 764
Litchfield.....	35, 338	20, 146	34	4, 347	17	13, 973	6	525	19	1, 501	2, 049	15, 192	1, 386	20, 133
New Haven.....	314, 625	116, 736	225	41, 048	85	69, 894	30	938	42	4, 906	21, 760	197, 839	8, 337	87, 826
New London.....	72, 257	46, 924	125	20, 357	20	10, 868	11	1, 826	57	13, 373	5, 252	25, 333	3, 748	18, 750
Windham.....	56, 830	46, 651	72	17, 467	14	14, 216	11	565	60	14, 403	3, 089	10, 179	2, 470	14, 203

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

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

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

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

County	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	County	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	909, 239	381, 878	527, 361	223, 683	Middlesex.....	19, 933	8, 130	11, 803	3, 188
Fairfield.....	191, 870	72, 026	119, 844	35, 998	New Haven.....	314, 625	116, 736	197, 839	87, 826
Hartford.....	206, 930	62, 723	144, 202	38, 764	New London.....	72, 257	46, 924	25, 333	18, 750
Litchfield.....	35, 338	20, 146	15, 192	20, 133	Tolland.....	11, 456	8, 487	2, 969	4, 761
					Windham.....	56, 830	46, 651	10, 179	14, 203

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



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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	2,593,474	\$14,850,213	2,334,068	2,476,760	2,727,026	2,070,728	1,945,388
Anthracite (tons, 2,240 pounds).....	101,883	980,465	( <sup>3</sup> )	176,950	398,121	371,893	387,424
Bituminous (tons, 2,000 pounds).....	2,470,365	13,869,748	( <sup>3</sup> )	2,278,576	2,281,130	1,664,208	1,511,473
Coke (tons, 2,000 pounds).....	189,122	1,595,350	( <sup>4</sup> )	( <sup>4</sup> )	163,288	63,135	60,627
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	81,423,755	4,276,962	( <sup>4</sup> )	( <sup>4</sup> )	60,798,612	10,823,832	20,768,910
Gasoline and kerosene (gallons) <sup>6</sup> .....	1,711,326	249,702	( <sup>4</sup> )	( <sup>4</sup> )	1,369,956		
Gas, natural (M cubic feet).....			( <sup>4</sup> )	( <sup>4</sup> )	627,462	201,802	593,901
Gas, manufactured (M cubic feet).....	5,681,807	2,700,460	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Other fuels.....		295,750	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours).....	634,837,747	10,576,742	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
Total cost of fuel and purchased energy.....		7,34,554,239	\$20,471,304	Cost	Cost	Cost	Cost
			( <sup>8</sup> )	( <sup>8</sup> )	\$29,164,320	\$11,528,800	\$9,751,797

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

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

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

INDUSTRY	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	HORSEPOWER (RATED CAPAC- ITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and con- tainers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by man- ufacture <sup>2</sup>
				Prime movers	Elec- tric motors driven by pur- chased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	3,129	136,155	251,861	381,878	527,361	\$93,480,036	\$28,865,412	\$33,379,231	\$2,232,085	\$1,471,876,604	\$806,214,288
Ammunition and related products.....	3	296	3,232	7,970	5,318	680,219	4,137,811	10,687,359	417,065	22,519,731	11,414,707
Awnings, tents, sails, and canvas covers.....	26	27	97	47	47	60,060	107,870	202,087	5,213	535,993	328,693
Belting, leather.....	8	13	21	42	42	32,025	34,139	205,902	2,214	330,501	122,385
Beverages.....	101	109	301	75	879	231,653	403,061	1,033,692	54,626	2,833,301	1,744,983
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	5	39	214	800	280	118,542	253,465	423,120	22,367	1,150,234	710,747
Bookbinding and blank-book making.....	8	2	28	23	23	( <sup>3</sup> )	29,741	20,305	827	105,608	84,416
Boxes, paper, not elsewhere classified.....	47	206	2,290	275	2,831	675,530	2,480,171	4,434,714	136,674	10,160,766	5,589,478
Boxes, wooden, except cigar boxes.....	7	12	59	250	99	34,585	78,502	212,104	2,503	401,529	246,772
Bread and other bakery products.....	353	292	2,562	7	3,726	559,630	3,903,910	9,006,910	519,241	19,225,874	9,009,723
Buttons.....	11	85	674	339	628	238,143	588,116	806,972	37,298	2,224,667	1,380,397
Chemicals, not elsewhere classified.....	7	102	373	295	1,645	277,680	512,616	2,447,403	100,336	4,465,635	1,917,890
Cigars and cigarettes.....	37	38	603	20	98,159	98,159	748,311	767,188	7,238	2,114,840	1,340,414
Clay products (other than pottery) and nonclay refractories.....	21	81	743	1,013	4,075	255,825	1,008,479	100,969	405,073	2,044,026	1,537,984
Cleaning and polishing preparations.....	10	44	153	172	1,782	138,997	220,694	980,594	61,990	1,607,457	564,873
Clocks, clock movements, time-recording devices, and time stamps.....	7	410	5,005	1,360	3,301	1,103,639	5,833,671	3,762,407	104,215	15,467,165	11,550,483
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	30	53	751	147	147	122,804	1,018,175	832,383	23,133	2,921,161	2,065,645
Clothing, women's, not elsewhere classified.....	73	221	3,484	970	970	613,013	2,807,368	4,249,031	60,492	9,416,328	5,106,805
Clothing, work (including sheep-lined and blan- ket-lined work coats but not including shirts), men's.....	5	4	87	30	30	9,810	57,274	90,100	2,320	216,045	117,565
Coffee and spice, roasting and grinding.....	7	11	22	123	123	40,075	20,309	680,300	6,240	841,680	155,040
Concrete products.....	33	75	393	326	718	217,414	591,970	463,845	19,004	1,674,165	1,191,316
Confectionery.....	18	85	426	12	789	242,230	388,457	1,403,429	31,780	3,039,328	1,604,110
Copper, tin, and sheet-iron work, including galva- nized-iron work, not elsewhere classified.....	26	73	305	429	429	193,228	449,247	910,414	16,613	1,875,692	948,065
Cordage and twine.....	14	67	368	1,306	473	159,700	316,138	978,190	25,790	1,992,665	968,715
Corsets and allied garments.....	15	339	2,800	1,475	381	1,071,646	2,380,831	6,293,308	66,962	13,669,079	7,309,409
Cotton goods.....	33	512	10,789	67,382	12,959	1,416,295	10,723,851	22,636,597	990,125	40,495,128	16,868,406
Cotton small wares.....	15	295	2,452	1,150	3,016	705,391	2,648,665	6,224,406	194,600	10,800,314	4,381,309

<sup>1</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. As a rule, however, little or no duplication is included in the corresponding items for individual industries. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>3</sup> Not including data for 2,895 employees of central administrative offices, with salaries aggregating \$7,964,231. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Cutlery (not including silver and plated cutlery) and edge tools	26	243	2,534	6,537	2,967	613,278	3,145,040	2,123,578	250,287	8,529,272	6,155,427
Dyeing and finishing textiles	21	307	2,309	11,022	3,207	1,144,002	2,801,222	4,421,602	669,968	12,440,511	7,448,941
Electrical machinery, apparatus, and supplies	50	2,384	15,225	25,397	18,340	5,923,587	17,732,189	38,083,095	1,238,150	86,893,996	40,982,761
Electroplating	9	36	174		648	66,081	241,263	32,302	34,247	670,317	500,768
Emery wheels and other abrasive and polishing appliances	4	11	86		120	50,340	78,634	640,186	6,438	1,021,702	372,173
Engines, turbines, tractors, and water wheels	12	318	1,076	1,535	2,461	1,039,603	2,738,077	6,186,914	104,304	20,169,206	13,877,088
Engraving, steel and copperplate, and plate printing	7	23	102		53	70,543	89,298	120,343	2,059	370,660	248,268
Engraving, wood	3		7		2		13,284	3,564	110	45,666	41,092
Fancy and miscellaneous articles, not elsewhere classified	19	118	1,247	65	1,711	323,399	1,800,381	1,187,170	69,057	3,870,110	2,613,883
Felt goods, wool, hair, or jute	4	36	213	865	936	132,100	312,164	1,174,381	61,034	1,839,846	604,431
Fertilizers	7	62	171	245	1,054	192,835	181,697	2,027,260	18,707	3,181,350	1,135,393
Firearms	8	380	2,979	4,427	2,981	755,485	4,100,077	1,633,107	278,604	10,165,226	8,253,155
Flavoring extracts and flavoring sirups	4	1	7	100	7	(4)	11,977	30,923	10,777	79,157	37,457
Flour and other grain-mill products	8	12	13	245	455	16,211	16,613	197,870	4,986	258,707	55,842
Food preparations, not elsewhere classified	7	10	34		58	17,469	38,418	199,380	4,851	326,018	122,087
Forgings, iron and steel, not made in plants operated in connection with rolling mills	14	90	650	787	3,030	288,730	1,081,006	1,655,224	188,718	4,415,321	2,571,379
Foundry and machine-shop products, not elsewhere classified	177	2,873	19,481	10,217	75,551	7,993,456	29,255,236	28,146,540	2,627,952	106,511,723	75,737,231
Fur goods	8	13	60		20	39,831	87,006	291,116	2,758	509,791	215,917
Furnishing goods, men's, not elsewhere classified	10	42	605		114	153,005	588,345	2,812,361	13,508	4,619,007	1,793,138
Furniture, including store and office fixtures	41	178	1,246	75	1,893	508,125	1,737,739	2,948,972	61,812	6,858,961	3,848,167
Gas and electric fixtures; lamps, lanterns, and reflectors	18	316	1,224	185	2,785	673,668	1,779,340	2,018,986	103,717	5,138,314	3,015,011
Gas, manufactured, illuminating and heating	17	623	1,180	4,127	5,060	1,129,959	1,496,077	2,921,416	2,163,410	18,102,339	8,017,513
Glass products (except mirrors) made from purchased glass	10	27	121	50	167	60,614	170,603	184,912	9,736	526,412	331,764
Hand stamps and stencils and brands	10	27	65		54	78,695	93,140	68,647	3,146	324,237	252,444
Hardware not elsewhere classified	57	3,307	17,951	23,002	18,521	6,812,784	22,991,883	18,602,533	1,208,016	71,231,720	51,360,171
Hat and cap materials, men's	19	74	880	1,527	1,107	224,356	1,071,859	5,974,222	1,283,017	9,069,090	2,997,340
Hats and caps, except felt and straw, men's	9	7	77		19	9,405	88,743	208,391	1,866	399,991	189,744
Hats, fur-felt	36	458	6,078	5,270	3,276	1,484,352	8,467,429	22,795,101	455,036	30,944,172	10,693,975
House-furnishing goods, not elsewhere classified	12	73	720	1,421	498	158,973	671,277	5,577,404	37,777	9,985,924	4,370,743
Ice cream	43	130	421	165	3,244	297,337	674,093	2,299,080	116,404	5,315,173	2,890,689
Ice, manufactured	10	16	63	600	2,496	39,475	112,966	30,176	114,155	548,649	404,318
Knit goods	16	126	1,343	2,100	123	305,230	1,220,375	2,304,595	67,113	4,981,120	2,600,421
Leather goods, not elsewhere classified	6	14	80		35	22,642	55,054	128,532	1,883	255,266	124,881
Leather: Tanned, curried, and finished	5	26	179	255	315	100,127	248,955	1,204,442	22,005	1,888,001	661,644
Lime	5	4	86	50	637	9,360	111,660	194,147	78,383	568,277	286,747
Lumber and timber products, not elsewhere classified	42	14	253	1,691	38	41,260	254,644	204,020	9,054	793,470	580,396
Macaroni, spaghetti, vermicelli, and noodles	12	14	67		328	30,161	82,943	365,942	22,596	611,543	223,005
Machine-tool accessories and small metal-working tools, not elsewhere classified	39	296	1,676	566	2,989	895,929	2,506,702	1,084,983	142,812	7,996,056	6,768,261
Machining tools	22	1,044	6,402	2,400	14,708	2,892,273	10,775,354	5,071,560	509,597	27,929,755	22,348,592
Marble, granite, slate, and other stone products	20	63	372	590	2,473	214,818	688,242	458,786	73,275	1,935,773	1,403,712
Mattresses and bed springs, not elsewhere classified	24	25	115		313	67,995	168,145	526,323	11,044	973,000	435,633
Millinery	4	7	95		21	31,100	98,417	232,414	2,538	492,750	167,798
Models and patterns, not including paper patterns	25	26	184		357	64,113	344,223	90,660	11,228	690,308	588,424
Motor-vehicle bodies and motor-vehicle parts	23	102	806	263	1,610	264,851	1,224,419	1,824,147	64,720	4,765,415	2,876,548
Musical instrument parts and materials: Piano and organ	6	91	534	2,130	677	254,979	522,401	472,097	65,221	1,503,843	960,525
Needles, pins, hooks and eyes, and snap fasteners	10	251	2,388	1,912	1,138	541,178	2,710,761	2,163,265	89,234	8,876,629	6,624,030
Nonferrous-metal alloys and products, not including aluminum products	62	2,849	22,478	72,278	103,151	8,895,497	32,818,770	137,998,385	5,642,966	224,229,776	80,588,425
Oils, essential	4	27	55	134	154	76,778	49,818	155,287	8,305	602,178	338,596
Paints and varnishes	12	86	255		2,029	207,638	333,200	2,481,657	27,247	4,812,279	2,303,376
Paper	27	230	2,032	28,176	9,689	879,445	2,806,903	6,872,541	1,274,177	17,361,068	9,214,350
Paper goods, not elsewhere classified	5	14	60		191	32,030	69,080	199,554	7,450	406,618	199,614
Patent or proprietary medicines and compounds	19	135	207	160	438	255,611	215,576	1,423,861	24,893	6,068,006	4,619,252
Perfumes, cosmetics, and other toilet preparations	11	87	351		269	242,665	280,193	2,234,223	11,633	3,140,562	5,394,706
Photo-engraving, not done in printing establishments	15	68	140		130	271,909	800,432	121,261	13,419	967,312	832,632
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills	64	236	1,031	1,835	5,399	654,457	1,610,620	2,530,057	108,525	5,840,887	3,202,305
Plated ware	20	799	5,275	4,641	6,674	1,771,294	7,323,056	8,426,000	344,130	27,903,210	19,133,080
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	10	155	824	1,433	818	460,737	1,079,618	1,683,505	93,995	2,485,634	2,488,134
Printing and publishing, book and job	203	661	1,950	12	3,124	1,273,090	2,968,078	3,146,062	148,831	10,515,671	7,220,778
Printing and publishing, newspaper and periodical	92	2,227	2,277	51	4,930	5,268,914	3,946,446	4,993,990	233,911	27,911,577	22,683,076
Rubber goods other than tires, inner tubes, and boots and shoes	16	440	3,200	2,771	17,488	1,126,518	3,889,270	9,247,402	612,689	19,288,069	9,407,888
Saddlery and harness	5	9	29		40	16,608	32,577	94,838	1,291	183,257	87,128
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	24	35	124	10	659	78,634	189,877	2,065,247	31,785	2,694,871	507,839
Saws	5	44	223		417	127,008	265,418	710,143	20,924	1,326,540	586,473
Screw-machine products and wood screws	25	373	3,366	3,145	5,798	897,996	4,346,434	5,993,808	308,496	14,679,415	8,402,111
Ship and boat building, steel and wooden, including repair work	25	93	846	1,231	1,055	361,250	1,354,599	1,209,332	84,856	3,652,932	2,358,794
Shirts	19	125	2,393	200	362	352,675	2,071,584	3,580,093	46,746	7,796,523	4,169,684
Signs and advertising novelties	17	69	138		44	148,783	248,733	191,601	1,568	936,612	743,443
Silk and rayon manufactures	38	686	10,501	6,851	9,314	2,503,836	12,845,892	27,050,300	694,870	54,298,469	26,558,299

See footnotes 1 and 2 on first page of this table.

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

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Sporting and athletic goods, not including firearms or ammunition.....	10	130	1,244	532	2,573	Dollars 285,036	Dollars 1,533,362	Dollars 1,509,307	Dollars 149,165	Dollars 4,815,089	Dollars 3,156,527
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	22	240	1,882	541	2,381	721,687	2,047,224	3,250,115	107,727	7,580,336	4,222,404
Stationery goods, not elsewhere classified.....	5	55	369	-----	398	174,364	353,727	854,918	18,767	1,687,743	814,073
Steam fittings and steam and hot-water heating apparatus.....	10	591	2,828	150	9,937	1,231,905	4,289,045	4,899,789	340,479	14,934,763	9,688,405
Stereotyping and electrotyping, not done in printing establishments.....	7	26	147	-----	439	127,174	278,737	125,537	21,933	731,027	583,567
Stoves and ranges (other than electric) and warm-air furnaces.....	5	81	302	1,200	420	206,586	516,455	1,048,973	20,368	2,623,805	1,559,464
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	22	123	446	350	973	431,012	704,833	1,590,065	29,876	3,405,734	1,786,763
Surgical and orthopedic appliances, including artificial limbs.....	15	72	432	980	436	138,581	341,426	2,037,586	47,254	3,298,443	1,213,603
Suspenders, garters, and other elastic woven goods, made from purchased webbing.....	5	40	394	-----	120	133,208	481,224	1,275,679	9,403	2,043,824	1,368,742
Tools, not including edge tools, machine tools, files, or saws.....	35	569	2,024	2,383	5,908	1,275,660	3,788,965	3,415,987	315,687	11,373,978	7,642,304
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	20	108	1,359	370	1,441	521,578	1,390,261	1,913,086	59,497	5,440,310	3,476,727
Typewriters and parts.....	5	541	8,569	2,220	6,304	1,291,195	11,735,383	3,342,076	224,709	25,406,203	21,839,419
Vinegar and cider.....	4	2	11	15	76	(*)	12,367	48,093	1,280	92,702	43,320
Watch and clock materials and parts, except watch-cases.....	5	13	102	-----	53	30,780	94,216	40,967	4,731	264,211	218,513
Window and door screens and weather strip.....	8	16	48	-----	71	40,058	70,999	117,505	1,561	289,784	170,718
Window shades and fixtures.....	4	2	21	30	52	(*)	17,400	45,483	1,122	94,045	48,440
Wire, drawn from purchased bars or rods.....	5	126	901	6,140	2,750	407,758	1,521,598	2,921,765	207,081	7,000,107	4,471,261
Wirework, not elsewhere classified.....	26	147	364	456	1,512	496,483	1,081,215	1,710,824	82,972	4,787,904	2,974,108
Wood turned and shaped and other wooden goods, not elsewhere classified.....	16	19	149	295	266	40,239	162,207	311,821	9,371	658,094	336,002
Woolen goods.....	32	413	5,357	14,991	2,456	1,572,565	6,036,670	12,078,924	547,503	22,457,785	9,836,298
Worsted goods.....	11	235	3,932	5,304	3,630	692,295	5,742,628	17,684,694	292,001	27,800,179	9,913,484
Other industries.....	256	5,323	31,333	88,286	89,592	12,421,543	41,659,888	99,313,983	5,480,347	215,323,973	110,523,693

See footnotes 1 and 2 on first page of this table.

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

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

[This table presents, for each industrial area (see GENERAL EXPLANATIONS—Industrial Area) and for each important industrial county (i. e., each county in which 10,000 wage earners or more were employed in manufacturing and printing and publishing industries) in the State, except Litchfield 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

BRIDGEPORT-NEW HAVEN-WATERBURY INDUSTRIAL AREA

[This area comprises Fairfield and New Haven Counties. The totals for all industries do not include data for a few establishments located outside the industrial area (see footnotes 1 and 2), and therefore are slightly smaller than the sums of the items for the individual industries.]

All industries, total.....	1,808	21,809	136,147	188,812	317,683	Dollars 55,421,169	Dollars 180,875,135	Dollars 398,629,650	Dollars 19,281,386	Dollars 862,311,307	Dollars 444,400,271
Awnings, tents, sails, and canvas covers.....	17	13	63	-----	28	43,835	74,190	144,080	3,081	304,144	216,933
Beverages.....	51	63	187	75	496	131,809	228,595	518,167	20,173	1,476,840	629,500
Boxes, paper, not elsewhere classified.....	30	166	1,895	250	2,156	498,592	2,069,448	3,138,672	93,056	7,775,134	4,543,406
Boxes, wooden, except cigar boxes.....	3	4	12	-----	35	7,085	13,606	44,013	599	80,251	35,639
Bread and other bakery products.....	201	193	1,515	-----	2,276	392,119	2,234,435	5,485,564	289,628	11,072,167	5,896,975
Cigars and cigarettes.....	27	36	547	-----	19	87,964	676,551	673,032	6,915	1,868,343	1,188,306
Clay products (other than pottery) and nonclay refractories.....	6	37	256	1,093	664	99,460	356,277	80,528	116,648	817,644	620,468

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

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

CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>BRIDGEPORT-NEW HAVEN-WATERBURY INDUSTRIAL AREA—Continued</b>											
Clothing, women's, not elsewhere classified.....	54	179	2,893		509	Dollars 482,367	Dollars 2,248,613	Dollars 3,569,662	Dollars 43,888	Dollars 7,632,512	Dollars 4,018,962
Concrete products.....	24	61	337	26	389	193,208	503,038	277,080	13,882	1,270,216	970,274
Confectionery.....	11	82	397	2	768	236,330	366,284	1,340,261	28,897	2,906,349	1,530,101
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	18	49	237		389	142,747	374,466	762,502	13,452	1,631,512	755,468
Corsets and allied garments.....	16	399	2,800	1,475	381	1,071,646	2,380,831	6,293,308	66,962	13,669,679	7,309,409
Cutlery (not including silver and plated cutlery) and edge tools.....	14	104	1,027	2,572	694	222,749	1,272,455	600,435	92,981	2,925,532	2,142,116
Dyeing and finishing textiles.....	5	32	215	738	439	147,231	270,899	490,689	61,640	1,308,705	750,476
Electrical machinery, apparatus, and supplies.....	37	1,699	10,222	22,251	10,244	3,897,790	11,630,920	29,418,597	856,943	59,190,643	28,918,503
Fertilizers.....	3	19	87	50	565	65,958	69,014	787,738	9,807	1,031,208	253,723
Food preparations, not elsewhere classified.....	3	10	22		26	17,469	19,222	63,155	1,497	160,604	85,952
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	8	68	378	332	1,990	173,705	635,843	796,471	120,451	2,490,190	1,573,268
Foundry and machine-shop products, not elsewhere classified.....	108	1,210	8,300	3,706	31,946	3,529,547	12,633,541	10,489,062	1,015,341	40,799,992	20,294,089
Furniture, including store and office fixtures.....	27	65	629		705	187,810	852,762	1,740,484	24,006	3,315,167	1,540,777
Gas, manufactured, illuminating and heating.....	8	415	892	2,721	2,520	784,667	1,046,703	1,787,931	1,479,770	8,621,486	5,353,786
Glass products (except mirrors) made from purchased glass <sup>1</sup> .....	10	27	121	50	167	60,614	170,608	184,912	9,736	526,412	331,764
Hardware not elsewhere classified.....	36	1,899	9,681	9,582	8,287	4,170,651	12,355,476	9,241,770	627,565	36,228,054	26,358,410
Hat and cap materials, men's.....	19	74	886	1,527	1,107	224,356	1,071,859	5,974,222	123,407	9,090,969	2,697,340
Hats, fur-felt <sup>2</sup> .....	36	458	6,078	5,270	3,276	1,484,352	8,467,429	22,795,161	455,036	39,944,172	10,693,975
Ice cream.....	24	81	276	165	2,047	160,239	450,801	1,466,546	72,847	3,457,753	1,918,390
Lumber and timber products, not elsewhere classified.....	7	3	25	392		8,900	30,863	13,650	643	97,109	82,816
Marble, granite, slate, and other stone products.....	12	33	191	270	1,421	130,077	365,326	243,704	43,849	959,977	702,424
Mattresses and bed springs, not elsewhere classified.....	16	16	69		200	49,950	91,667	286,608	5,398	535,592	243,686
Models and patterns, not including paper patterns.....	18	20	125		255	36,693	226,649	52,640	7,269	444,107	384,298
Nonferrous-metal alloys and products, not including aluminum products.....	43	2,560	19,675	60,585	91,482	8,110,279	23,756,618	119,468,109	4,785,421	109,719,499	60,465,989
Paper.....	0	39	363	8,905	353	155,358	501,523	1,501,618	316,366	3,977,319	2,066,535
Patent or proprietary medicines and compounds.....	11	114	238	80	373	211,060	183,155	1,227,781	21,222	5,505,626	4,256,623
Photo-engraving, not done in printing establishments.....	0	41	101		93	133,236	215,342	94,303	8,645	641,594	538,040
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	39	128	500	1,030	3,508	843,908	824,781	1,424,400	63,321	3,171,757	1,683,976
Plated ware.....	20	741	4,784	4,276	5,983	1,604,562	6,732,745	7,480,329	101,391	25,736,101	17,945,381
Printing and publishing, book and job.....	116	376	996		1,442	804,297	1,462,107	1,407,232	71,573	5,510,891	4,032,086
Printing and publishing, newspaper and periodical.....	48	1,650	1,528		2,911	4,026,102	2,661,222	3,800,326	149,739	21,122,246	17,172,181
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	17	32	92		517	66,429	132,297	1,501,573	23,030	1,957,291	432,688
Screw-machine products and wood screws.....	13	82	744	692	1,600	235,692	831,398	2,099,210	85,019	4,092,354	1,908,126
Ship and boat building, steel and wooden, including repair work.....	12	19	243	131	288	77,610	476,748	500,331	7,252	1,374,256	866,673
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	18	214	1,634	541	2,267	618,460	1,797,194	2,871,974	96,622	6,709,444	3,740,848
Steam fittings and steam and hot-water heating apparatus.....	4	493	207	50	7,948	1,026,005	3,421,060	3,961,379	260,862	12,005,475	7,784,234
Tools, not including edge tools, machine tools, files, or saws.....	16	120	493		1,360	327,971	665,414	535,119	36,185	2,280,889	1,715,585
Wire, drawn from purchased bars or rods.....	5	126	901	6,140	2,760	407,758	1,521,698	2,921,765	267,081	7,660,107	4,471,261
Wirework, not elsewhere classified.....	17	111	652	400	1,227	376,610	821,154	1,319,426	64,848	3,735,897	2,351,623
Wood turned and shaped and other wooden goods, not elsewhere classified.....	8	7	68	60	197	14,310	76,753	87,307	5,233	246,656	154,116
Other industries.....	562	7,511	50,614	53,375	119,387	18,141,475	66,024,379	137,627,702	6,991,894	300,093,107	156,173,511

See footnotes a and b on first page of this table.  
 The figures for a few establishments located outside the Bridgeport-New Haven-Waterbury Industrial Area have been included in those for the area, as specified in footnotes 1 and 2, to avoid disclosing data reported by individual establishments.

<sup>1</sup> Includes data for 2 establishments located outside the industrial area.  
<sup>2</sup> Includes data for 1 establishment located outside the industrial area.

**HARTFORD INDUSTRIAL AREA**  
 [This area is coextensive with Hartford County]

All industries, total.....	674	9,397	65,482	62,728	144,202	Dollars 25,185,930	Dollars 89,977,178	Dollars 115,623,013	Dollars 7,145,404	Dollars 351,491,271	Dollars 228,722,854
Awnings, tents, sails, and canvas covers.....	5	12	27		11	20,355	23,504	45,949	1,466	135,810	88,395
Beverages.....	29	35	98		240	80,170	131,892	368,673	17,853	964,705	578,705
Bookbinding and blank-book making.....	5	2	10		15	(9)	10,182	11,548	433	57,017	46,086
Boxes, paper, not elsewhere classified.....	7	19	152		164	56,518	131,263	151,326	7,731	472,886	313,329
Boxes, wooden, except cigar boxes.....	4	8	47	250	64	27,500	64,806	168,181	1,064	381,278	211,133
Bread and other bakery products.....	85	80	712		1,080	126,688	1,080,139	2,486,375	154,940	5,397,135	2,756,820
Clothing, women's, not elsewhere classified.....	14	21	393		76	55,061	331,267	434,170	11,513	1,143,400	698,257
Cutlery (not including silver and plated cutlery) and edge tools.....	5	110	1,147	3,220	1,880	291,447	1,420,771	1,134,687	120,010	4,530,568	3,275,871
Electrical machinery, apparatus, and supplies.....	13	597	4,435	2,265	7,717	1,861,741	5,395,084	7,579,667	313,408	24,308,625	16,415,550
Flour and other grain-mill products.....	3	8	4		224	8,250	5,140	66,136	1,669	92,830	25,025
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	6	22	272	455	1,040	116,025	445,163	858,753	68,267	1,925,131	998,111
Foundry and machine-shop products, not elsewhere classified.....	43	1,326	9,227	4,465	38,745	3,425,114	13,872,712	15,392,670	1,372,312	57,160,602	40,395,620

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

CONNECTICUT

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>HARTFORD INDUSTRIAL AREA—Continued</b>											
Furniture, including store and office fixtures.....	11	105	578	-----	1, 055	Dollars 298, 536	Dollars 890, 314	Dollars 1, 144, 636	Dollars 34, 958	Dollars 3, 372, 743	Dollars 2, 193, 149
Ice cream.....	8	33	99	-----	829	87, 818	162, 233	597, 344	28, 949	1, 336, 102	709, 869
Knit goods.....	7	77	614	1, 270	36	194, 833	565, 272	1, 009, 173	35, 981	2, 341, 080	1, 295, 926
Lumber and timber products, not elsewhere classified.....	3	-----	14	00	-----	-----	16, 500	5, 570	405	35, 580	29, 605
Macaroni, spaghetti, vermicelli, and noodles.....	5	-----	11	-----	69	-----	15, 701	55, 967	5, 836	105, 080	43, 277
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	15	143	870	560	1, 322	474, 568	1, 821, 952	589, 671	77, 881	4, 187, 477	3, 510, 925
Machine tools.....	7	553	3, 071	-----	0, 272	1, 378, 144	5, 236, 926	2, 621, 708	260, 452	13, 808, 263	10, 981, 043
Marble, granite, slate, and other stone products.....	8	16	79	-----	067	47, 248	145, 247	150, 722	13, 371	672, 484	402, 391
Models and patterns, not including paper patterns.....	7	6	59	-----	102	27, 420	117, 574	38, 110	3, 959	246, 201	204, 126
Motor-vehicle bodies and motor-vehicle parts.....	5	11	64	-----	101	29, 458	71, 040	125, 074	6, 005	268, 886	137, 207
Paper.....	13	106	890	10, 157	6, 596	412, 068	1, 272, 611	2, 488, 454	435, 634	6, 629, 112	3, 705, 024
Photo-engraving, not done in printing establishments.....	6	27	39	-----	37	138, 073	85, 090	26, 958	4, 774	325, 718	293, 986
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	13	53	222	130	1, 525	195, 241	390, 604	434, 492	29, 549	1, 340, 041	882, 000
Printing and publishing, book and job.....	63	164	851	-----	1, 542	418, 921	1, 369, 674	1, 628, 292	67, 774	4, 561, 141	2, 865, 075
Printing and publishing, newspaper and periodical.....	17	470	484	-----	1, 460	945, 338	894, 359	954, 939	49, 226	5, 261, 278	4, 257, 113
Tools, not including edge tools, machine tools, files, or saws.....	15	430	2, 095	2, 050	4, 562	917, 500	3, 079, 368	2, 840, 637	274, 884	8, 932, 032	5, 810, 511
Wood turned and shaped and other wooden goods, not elsewhere classified.....	3	2	14	-----	56	( <sup>c</sup> )	16, 704	16, 452	1, 735	51, 151	32, 664
Woolen goods.....	4	35	764	1, 715	313	153, 618	996, 969	2, 076, 067	84, 067	3, 813, 256	1, 652, 522
Other industries.....	245	4, 917	38, 140	85, 905	68, 376	13, 409, 318	50, 427, 127	70, 109, 146	3, 668, 298	107, 732, 160	123, 954, 716

See footnotes a and b on first page of this table.

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

FAIRFIELD COUNTY

All industries, total.....	766	10, 163	58, 829	72, 026	119, 844	Dollars 25, 926, 098	Dollars 79, 238, 389	Dollars 181, 461, 818	Dollars 6, 865, 930	Dollars 387, 104, 931	Dollars 198, 807, 183
Awnings, tents, sails, and canvas covers.....	7	6	34	-----	14	22, 410	51, 938	91, 030	1, 870	221, 604	128, 785
Beverages.....	20	31	71	-----	234	67, 459	105, 047	238, 528	12, 842	642, 726	391, 356
Boxes, paper, not elsewhere classified.....	15	79	668	250	491	235, 239	651, 590	962, 572	21, 288	2, 354, 498	1, 370, 643
Bread and other bakery products.....	66	94	692	-----	708	212, 763	1, 033, 916	2, 162, 702	106, 475	4, 681, 513	2, 412, 336
Cigars and cigarettes.....	8	7	61	-----	1	16, 150	62, 434	74, 459	647	198, 892	123, 736
Clothing, women's, not elsewhere classified.....	29	127	1, 668	-----	388	329, 186	1, 338, 849	2, 733, 345	28, 921	5, 138, 646	2, 376, 380
Concrete products.....	12	14	81	5	95	22, 225	38, 706	65, 687	2, 927	179, 538	110, 924
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	11	28	110	-----	179	91, 151	206, 819	305, 558	8, 601	749, 207	435, 048
Electrical machinery, apparatus, and supplies.....	15	1, 007	6, 328	18, 890	2, 840	2, 180, 491	7, 170, 554	17, 503, 283	468, 814	32, 845, 923	14, 873, 826
Fancy and miscellaneous articles, not elsewhere classified.....	7	86	900	-----	1, 388	249, 069	1, 017, 923	761, 700	44, 908	2, 076, 572	1, 869, 898
Foundry and machine-shop products, not elsewhere classified.....	51	423	2, 153	1, 115	4, 215	1, 263, 195	3, 389, 227	2, 423, 673	209, 250	9, 096, 827	7, 363, 904
Furniture, including store and office fixtures.....	12	31	446	-----	476	100, 837	600, 648	1, 220, 236	17, 574	2, 269, 857	1, 032, 047
Hardware not elsewhere classified.....	18	952	5, 137	6, 800	3, 391	2, 445, 811	6, 986, 134	5, 890, 125	354, 892	21, 505, 215	15, 760, 193
Hat and cap materials, men's.....	19	74	886	1, 527	1, 107	224, 356	1, 071, 859	5, 974, 222	128, 407	9, 099, 969	2, 997, 340
Hats, fur-felt <sup>4</sup> .....	26	458	6, 078	5, 270	3, 270	1, 484, 352	8, 467, 429	22, 795, 161	455, 036	39, 944, 172	16, 693, 075
Ice cream.....	7	35	124	-----	897	86, 966	223, 462	306, 015	31, 877	1, 541, 067	903, 365
Mattresses and bed springs, not elsewhere classified.....	5	3	17	-----	40	6, 885	23, 140	57, 209	1, 296	118, 097	69, 592
Models and patterns, not including paper patterns.....	12	12	99	-----	181	28, 605	185, 491	41, 257	5, 785	368, 481	311, 439
Nonferrous-metal alloys and products, not including aluminum products.....	15	442	2, 506	6, 175	8, 750	1, 126, 400	3, 741, 035	14, 910, 872	600, 102	25, 278, 722	9, 707, 748
Photo-engraving, not done in printing establishments.....	3	13	29	-----	21	51, 303	77, 572	31, 707	2, 532	221, 057	136, 818
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	13	88	304	585	1, 373	256, 691	510, 788	1, 006, 632	33, 342	2, 163, 317	1, 123, 843
Plated ware.....	8	157	1, 079	812	1, 694	457, 215	1, 526, 011	1, 911, 560	54, 614	5, 401, 799	3, 435, 595
Printing and publishing, book and job.....	39	55	203	-----	342	124, 238	322, 080	304, 703	16, 206	1, 124, 679	803, 770
Printing and publishing, newspaper and periodical.....	21	1, 001	983	-----	1, 561	2, 700, 226	1, 696, 857	2, 679, 471	94, 387	15, 429, 642	12, 755, 784
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	3	18	33	-----	25	32, 200	45, 000	661, 712	5, 680	849, 804	182, 412
Ship and boat building, steel and wooden, including repair work.....	6	17	207	120	200	74, 392	428, 947	444, 002	6, 569	1, 243, 922	793, 351
Shirts.....	8	52	1, 093	200	65	135, 540	996, 053	1, 079, 216	23, 637	4, 093, 366	2, 090, 513
Silk and rayon manufactures.....	7	31	372	-----	359	91, 452	466, 272	1, 028, 917	23, 778	1, 920, 600	867, 905
Sporting and athletic goods, not including firearms or ammunition.....	3	15	67	-----	127	38, 345	69, 920	132, 026	6, 362	405, 751	267, 393
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	6	33	403	-----	365	149, 237	384, 141	757, 189	17, 307	1, 700, 517	925, 931
Steam fittings and steam and hot-water heating apparatus.....	4	493	2, 207	50	7, 948	1, 026, 605	3, 421, 066	3, 961, 379	259, 862	12, 005, 475	7, 784, 234

<sup>4</sup> The figures for the "Hats, fur-felt" industry include data for 1 establishment located outside the county. These adjustments have been made 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.

## CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>FAIRFIELD COUNTY—Continued</b>											
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	6	49	169	-----	595	Dollars 125,650	Dollars 293,566	Dollars 427,937	Dollars 11,381	Dollars 1,036,981	Dollars 647,663
Tools, not including edge tools, machine tools, files, or saws	8	69	292	-----	752	186,501	367,741	450,115	18,818	1,484,523	1,015,500
Toys (not including children's wheel goods or slides), games, and playground equipment	7	43	287	-----	129	108,086	274,845	394,962	7,967	835,539	432,610
Wirework, not elsewhere classified	11	46	310	-----	941	144,700	416,005	622,706	40,877	1,915,956	1,182,283
Other industries <sup>c</sup>	260	4,074	22,782	30,727	74,616	9,972,106	31,602,824	86,379,755	3,681,214	175,600,427	85,539,458

See footnotes a and b on first page of this table.

<sup>c</sup> See footnote 4, on preceding page.**HARTFORD COUNTY (SEE HARTFORD INDUSTRIAL AREA)****LITCHFIELD 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, "Nonferrous-metal alloys and products, not including aluminum products"—without disclosing, exactly or approximately, 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	1,391	11,986	20,140	15,192	\$3,136,559	\$14,835,623	\$26,973,265	\$1,392,516	\$62,592,287	\$34,226,506
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**NEW HAVEN COUNTY**

All industries, total.....	1,042	11,616	77,318	116,786	197,839	Dollars 29,495,861	Dollars 101,636,746	Dollars 217,167,832	Dollars 12,415,456	Dollars 475,116,376	Dollars 245,533,088
Awning, tents, sails, and canvas covers	10	7	29	-----	14	21,425	22,268	53,041	1,211	142,450	88,198
Beverages	31	32	69	75	262	64,350	123,543	279,639	16,331	834,114	539,144
Boxes, paper, not elsewhere classified	15	77	1,197	-----	1,665	263,353	1,417,868	2,176,100	71,773	5,420,630	3,172,768
Bread and other bakery products	135	99	823	-----	1,568	179,356	1,200,519	3,322,862	183,153	6,090,664	3,484,639
Cigars and cigarettes	19	29	480	-----	18	71,804	614,117	598,573	6,268	1,699,451	1,064,610
Clay products (other than pottery) and nonclay refractories	6	37	256	1,093	664	99,460	356,277	80,528	116,048	817,644	620,468
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	22	35	501	-----	63	79,986	778,651	507,677	14,101	2,136,376	1,614,698
Clothing, women's, not elsewhere classified	25	52	1,225	-----	211	156,179	1,002,264	836,317	14,967	2,493,866	1,642,582
Concrete products	12	47	309	21	294	170,983	464,832	211,303	10,935	1,080,678	868,350
Confectionery <sup>d</sup>	11	82	397	2	768	296,330	366,284	1,346,261	28,897	2,906,340	1,530,191
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	7	21	127	-----	210	51,566	167,677	457,034	4,851	782,305	320,420
Cotton small wares	5	91	1,342	1,025	1,226	210,551	1,424,830	3,092,228	81,130	5,096,317	1,952,959
Electrical machinery, apparatus, and supplies	22	692	3,894	3,391	7,404	1,717,308	4,490,375	11,912,314	387,129	26,344,120	14,044,677
Electroplating	5	25	97	-----	406	82,886	144,600	24,207	24,227	286,462	238,028
Foundry and machine-shop products, not elsewhere classified	57	787	6,153	2,591	27,731	2,266,352	9,244,814	8,068,289	306,091	30,803,165	21,930,785
Furniture, including store and office fixtures	15	34	183	-----	220	86,982	252,114	520,248	7,332	1,045,310	517,730
Gas and electric fixtures; lamps, lanterns, and reflectors	10	274	974	135	2,454	570,811	1,471,958	1,643,709	85,187	4,161,682	2,432,766
Hardware not elsewhere classified	20	647	4,544	2,792	4,896	1,724,840	5,369,342	3,851,645	272,973	14,722,839	10,598,231
Ice cream	17	46	152	165	1,160	73,273	227,339	860,531	41,170	1,916,696	1,014,995
Macaroni, spaghetti, vermicelli, and noodles	4	11	53	-----	222	26,561	64,002	227,086	14,086	401,730	160,568
Mattresses and bed springs, not elsewhere classified	10	13	52	-----	160	43,065	68,827	229,299	4,102	417,495	184,094
Models and patterns, not including paper patterns	6	8	25	-----	74	8,088	41,158	11,289	1,484	85,626	72,859
Nonferrous-metal alloys and products, not including aluminum products	28	2,118	17,169	54,410	82,732	6,992,870	25,015,583	104,557,237	4,125,319	168,440,777	59,758,221
Photo-engraving, not done in printing establishments	6	28	72	-----	72	81,933	137,770	62,606	6,113	420,537	351,823
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	26	40	202	445	2,135	86,917	313,998	417,828	20,979	1,008,440	580,633
Plated ware	12	584	3,705	3,964	4,289	1,147,347	5,206,734	5,663,769	255,777	20,334,332	14,509,786
Printing and publishing, book and job	77	321	793	-----	1,100	680,050	1,140,027	1,102,629	55,367	4,386,212	3,228,316
Printing and publishing, newspaper and periodical	27	649	545	-----	1,350	1,205,376	961,365	1,220,855	55,352	5,692,604	4,416,397
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	14	14	59	-----	492	34,229	87,297	339,861	17,350	1,107,487	250,276
Ship and boat building, steel and wooden, including repair work	6	2	36	11	28	(?)	46,801	56,329	683	130,334	73,322
Signs and advertising novelties	8	24	43	-----	31	70,570	75,869	104,783	527	335,940	230,630
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	12	181	1,231	541	1,902	469,232	1,413,053	2,114,785	79,225	5,008,927	2,814,917
Surgical and orthopedic appliances, including artificial limbs	5	2	19	-----	10	(?)	17,022	37,088	518	70,962	39,356
Tools, not including edge tools, machine tools, files, or saws	8	51	201	-----	603	141,470	297,673	85,004	17,367	802,366	699,995
Window and door screens and weather strip	3	3	5	-----	28	-----	3,155	6,239	115	20,595	14,241
Wirework, not elsewhere classified	6	65	342	400	286	231,811	405,179	628,630	23,971	1,819,941	1,169,340
Other industries <sup>e</sup>	340	4,121	29,984	45,765	51,087	10,137,199	37,328,681	60,089,135	5,553,747	154,965,957	89,323,075

<sup>d</sup> The figures for the "Confectionery" industry include data for two establishments located outside the county. These adjustments have been made to avoid disclosing the data for the establishments in question. Amounts equivalent to the sums of the figures for these establishments have been subtracted from the "Other industries" items, and therefore the totals for the county are not affected by these counterbalancing adjustments.

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

<sup>f</sup> See footnote 6.

# CONNECTICUT

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>NEW LONDON COUNTY</b>											
All industries, total.....	224	1,530	16,578	46,024	25,333	<i>Dollars</i> 4,794,565	<i>Dollars</i> 19,634,218	<i>Dollars</i> 38,090,059	<i>Dollars</i> 2,264,153	<i>Dollars</i> 86,336,899	<i>Dollars</i> 45,976,687
Beverages.....	6	4	13	-----	37	6,900	16,308	63,403	3,082	129,563	63,078
Boxes, paper, not elsewhere classified.....	4	17	175	25	412	94,430	195,047	912,692	26,150	1,502,878	504,130
Bread and other bakery products.....	27	10	131	-----	162	14,479	193,004	484,641	32,104	912,268	395,523
Clothing, women's, not elsewhere classified <sup>10</sup> .....	5	21	198	-----	295	75,585	227,488	245,199	5,091	639,876	389,586
Confectionery.....	3	3	16	10	8	5,900	9,025	24,262	1,309	58,433	32,862
Cordage and twine.....	5	23	76	166	92	46,771	78,500	104,458	6,712	328,346	217,176
Cotton goods.....	12	110	3,223	17,976	5,073	351,970	3,158,438	5,767,487	297,527	10,624,034	4,559,020
Dyeing and finishing textiles.....	10	237	1,596	7,674	2,147	770,430	2,010,873	2,547,599	365,928	7,984,755	5,071,228
Lumber and timber products, not elsewhere classified.....	9	-----	49	291	-----	45,352	-----	30,866	2,185	133,668	101,117
Paper.....	5	83	741	8,605	2,739	291,528	985,455	2,743,550	508,210	6,587,413	3,335,653
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	3	7	21	-----	191	13,280	30,892	74,932	3,995	132,841	53,914
Printing and publishing, book and job.....	7	2	26	-----	46	(11)	37,103	32,430	2,892	122,850	87,508
Printing and publishing, newspaper and periodical.....	6	30	99	1	216	130,997	178,735	104,016	15,270	705,390	580,104
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	3	-----	3	10	11	-----	5,190	38,545	1,255	53,565	13,705
Ship and boat building, steel and wooden, including repair work.....	9	67	530	1,070	608	267,822	774,012	590,598	73,277	2,032,461	1,359,586
Silk and rayon manufactures.....	13	232	3,957	2,515	3,500	650,694	4,749,828	10,899,417	262,037	23,671,132	12,409,678
Woolen goods.....	11	104	1,050	4,166	1,018	340,360	1,196,731	2,285,471	124,050	4,099,936	1,600,409
Other industries <sup>11</sup> .....	80	580	4,674	4,425	8,778	1,733,414	5,752,237	11,138,038	533,073	26,717,510	15,040,344

See footnotes *a* and *b* on first page of this table.

<sup>10</sup> The figures for the "Clothing, women's, not elsewhere classified" industry include data for 1 establishment located outside the county. These adjustments have been made to avoid disclosing the data for the establishment in question. Amounts equivalent to the figures for this establishment have been subtracted from the "Other industries" items, and therefore the totals for the county are not affected by these counterbalancing adjustments.

<sup>11</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

<sup>12</sup> See footnote 10.

## WINDHAM COUNTY

All industries, total.....	107	714	10,747	46,651	10,179	<i>Dollars</i> 1,850,437	<i>Dollars</i> 11,256,429	<i>Dollars</i> 28,078,566	<i>Dollars</i> 995,399	<i>Dollars</i> 50,496,777	<i>Dollars</i> 21,422,812
Beverages.....	5	-----	6	-----	26	-----	6,995	26,501	1,715	79,017	50,801
Bread and other bakery products.....	11	-----	39	7	49	-----	53,930	130,734	7,076	248,599	103,389
Cotton goods.....	15	341	7,010	38,326	6,954	886,121	7,014,060	15,400,145	603,305	27,011,846	11,002,306
Foundry and machine-shop products, not elsewhere classified.....	3	25	109	200	280	78,795	262,304	220,452	24,235	847,200	602,532
Lumber and timber products, not elsewhere classified.....	8	3	56	300	-----	7,300	48,148	30,000	1,400	133,880	92,880
Printing and publishing, book and job.....	5	7	37	-----	30	21,466	39,681	28,778	2,239	116,307	85,290
Printing and publishing, newspaper and periodical.....	5	18	39	-----	39	39,212	47,077	17,074	3,253	162,638	142,311
Silk and rayon manufactures.....	9	97	1,421	1,273	1,343	254,437	1,712,995	4,094,059	92,342	7,851,738	3,164,737
Worsted goods.....	4	24	338	255	425	73,863	407,274	1,175,095	31,040	2,142,259	935,518
Other industries.....	42	199	1,602	6,170	1,033	509,303	1,663,965	6,932,928	227,898	12,403,284	5,242,458

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>BRIDGEPORT</b>											
All industries, total.....	330	5,124	30,671	47,527	69,744	\$12,178,879	\$39,452,165	\$77,280,101	\$3,746,410	\$176,646,927	\$95,620,326
Awnings, tents, sails, and canvas covers.....	4	3	17	-----	9	9,610	29,438	59,292	1,244	133,094	72,558
Beverages.....	11	17	31	-----	131	39,829	38,423	108,019	6,746	283,406	168,641
Boxes, paper, not elsewhere classified.....	6	46	420	200	321	148,806	431,016	642,219	11,769	1,583,825	929,837
Bread and other bakery products.....	35	73	546	-----	593	186,114	812,246	1,641,376	78,421	3,684,321	1,964,524
Clothing, women's, not elsewhere classified.....	13	80	917	-----	278	187,640	680,065	1,540,723	14,761	2,756,396	1,200,912
Concrete products.....	3	5	9	-----	31	9,320	8,245	28,463	717	72,775	43,606
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	6	11	35	-----	62	38,293	70,587	95,058	2,082	269,547	172,437
Electrical machinery, apparatus, and supplies.....	11	953	6,054	18,800	2,609	2,019,827	6,778,746	17,087,106	487,328	31,623,737	14,079,213
Foundry and machine-shop products, not elsewhere classified.....	17	120	771	750	1,226	341,217	1,161,007	781,144	99,716	2,659,111	2,078,251
Models and patterns, not including paper patterns.....	7	8	76	-----	126	26,670	133,330	22,522	4,054	253,913	227,337
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	5	49	155	425	661	111,540	246,165	266,818	17,636	754,562	469,758
Printing and publishing, book and job.....	20	18	83	-----	167	36,315	121,551	129,709	4,598	460,130	325,832
Printing and publishing, newspaper and periodical.....	6	219	158	-----	234	412,205	283,043	324,896	18,991	2,198,522	1,854,635
Steam fittings and steam and hot-water heating apparatus.....	4	453	2,207	50	7,948	1,026,605	3,421,066	3,961,379	259,862	12,005,475	7,784,234
Other industries.....	191	3,031	19,183	27,212	55,298	7,590,883	25,207,233	50,591,387	2,768,165	117,608,104	64,248,552
<b>HARTFORD</b>											
[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, "Washing machines, wringers, driers, and ironing machines, for household use"—without disclosing, exactly or approximately, 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.....	304	3,939	24,744	4,323	52,833	\$10,348,882	\$36,020,538	\$41,817,547	\$2,126,536	\$137,226,292	\$93,282,169
<b>NEW HAVEN</b>											
All industries, total.....	497	4,220	24,974	34,291	41,247	\$9,764,153	\$31,161,505	\$49,227,113	\$4,588,772	\$130,584,617	\$70,768,732
Awnings, tents, sails, and canvas covers.....	4	5	19	-----	7	17,302	15,912	32,511	1,053	99,208	65,702
Beverages.....	14	7	31	-----	111	12,874	35,809	100,389	3,902	277,937	173,586
Bread and other bakery products.....	65	60	486	-----	858	107,838	651,404	1,953,370	106,926	4,040,049	1,979,750
Cigars and cigarettes.....	12	28	450	-----	15	69,704	597,069	549,085	5,464	1,535,482	980,933
Clothing (except work clothing), men's, youths, and boys', not elsewhere classified.....	22	35	501	-----	63	70,986	773,651	507,577	14,101	2,136,376	1,614,698
Clothing, women's, no. elsewhere classified.....	18	38	1,002	-----	139	129,848	754,109	646,130	10,430	2,020,908	1,304,348
Cutlery (not including silver and plated cutlery) and edge tools.....	4	24	393	1,292	277	73,909	477,082	276,739	42,058	651,094	633,197
Electrical machinery, apparatus, and supplies.....	5	77	542	1,411	560	229,998	550,356	1,867,098	59,347	3,398,596	1,472,181
Foundry and machine-shop products, not elsewhere classified.....	27	160	864	485	2,369	516,387	1,479,282	1,560,592	124,388	4,585,574	2,864,594
Furniture, including store and office fixtures.....	9	22	97	-----	84	69,537	170,691	433,332	3,017	809,886	373,537
Hardware not elsewhere classified.....	8	788	3,152	1,260	3,887	1,221,716	3,726,369	2,171,266	160,788	9,738,861	7,406,807
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	12	14	84	15	930	30,148	126,150	207,983	12,505	449,836	229,348
Printing and publishing, book and job.....	41	220	421	-----	590	454,474	577,228	555,705	32,631	2,537,651	1,949,815
Printing and publishing, newspaper and periodical.....	14	398	257	-----	729	672,851	487,884	892,706	22,891	3,702,041	2,780,444
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	7	9	41	-----	321	10,929	64,088	532,801	10,709	694,534	150,964
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	7	11	52	-----	72	26,156	82,088	120,075	1,998	299,133	177,062
Surgical appliances.....	5	2	10	-----	10	(1)	17,022	37,988	518	76,662	39,356
Tools, not including edge tools, machine tools, files, or saws.....	3	43	140	-----	463	121,646	224,166	67,707	11,979	578,424	498,738
Other industries.....	220	2,309	16,414	29,838	29,702	5,915,850	20,882,297	36,078,989	3,963,949	92,651,110	52,008,172

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

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

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



# CONNECTICUT

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>WATERBURY</b>											
All industries, total.....	181	3,308	24,369	53,501	67,029	\$10,105,243	\$32,068,833	\$82,052,374	\$4,052,211	\$157,285,971	\$71,181,380
Awnings, tents, sails, and canvas covers.....	3		4		4		3,922	10,000	131	21,748	11,017
Beverages.....	8	20	45		89	41,812	62,556	112,894	5,951	361,575	242,780
Bread and other bakery products.....	32	30	202		560	57,676	335,042	914,293	56,459	2,077,708	1,106,951
Cigars and cigarettes.....	3	1	21		2	(1)	29,864	33,345	682	88,718	49,691
Clothing, women's, not elsewhere classified.....	3	7	98		14	15,582	74,667	158,699	2,915	310,151	148,537
Foundry and machine-shop products, not elsewhere classified.....	10	112	534	146	1,734	335,067	819,410	1,244,799	85,375	3,499,949	2,169,775
Hardware not elsewhere classified.....	3	99	559	600	483	236,602	666,110	662,180	60,410	1,937,317	1,184,708
Ice cream.....	4	11	40		336	27,262	55,516	284,511	14,778	597,284	297,905
Nonferrous-metal alloys and products, not including aluminum products.....	15	1,610	12,798	44,750	52,409	5,608,264	18,167,026	63,406,609	2,818,230	106,010,964	39,783,035
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	4	11	54	175	318	24,256	85,551	84,798	9,176	243,770	149,805
Printing and publishing, book and job.....	16	10	98		106	43,862	137,171	277,831	4,858	688,010	405,321
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	4	5	14		144	14,300	19,159	210,510	4,707	302,953	78,736
Other industries.....	76	1,476	9,902	7,830	10,210	3,600,540	12,512,830	14,609,235	988,530	41,150,820	25,553,055

See footnotes a and b on first page of this table.

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

# DELAWARE

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929.....	460	23,552	114,961	59,802	55,159	\$29,062,739	\$80,490,738	\$76,110,568	\$4,380,170	\$149,642,042	\$69,151,304
1927.....	446	21,324	103,166	67,708	35,468	25,222,182	69,032,720	64,774,245	4,258,475	129,899,735	60,867,015
1925.....	419	20,704	107,391	68,703	38,688	25,072,302	70,622,434	( <sup>5</sup> )	( <sup>5</sup> )	125,409,332	54,783,898
1923.....	453	23,116	112,485	71,164	41,321	27,368,652	70,735,802	( <sup>5</sup> )	( <sup>5</sup> )	128,951,304	58,215,502
1921.....	460	17,754	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	19,596,184	50,118,027	( <sup>5</sup> )	( <sup>5</sup> )	86,750,312	36,038,285
1919.....	668	29,085	85,105	65,798	19,307	37,265,319	85,432,933	81,453,158	3,979,775	165,073,009	79,640,076
1914.....	808	22,155	64,324	54,619	9,705	11,332,160	31,649,265	30,246,291	1,402,974	56,034,966	24,385,701
1909.....	726	21,238	52,729	48,227	4,502	10,295,596	30,937,801	29,799,022	1,138,779	52,839,619	21,901,818
1904.....	631	18,475	49,326	48,234	1,092	8,158,203	24,883,806	24,012,936	870,870	41,160,276	16,276,470
1899.....	633	20,562	39,217	38,012	605	8,457,003	24,726,317	( <sup>5</sup> )	( <sup>5</sup> )	41,321,061	16,595,744
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	3.1	10.4	11.4	-11.7	55.6	15.2	10.6	17.5	2.9	15.2	13.6
1925-1927.....	6.4	3.0	-3.9	-1.4	-8.3	0.0	-2.3			3.0	11.1
1923-1925.....	-7.5	-10.4	-4.5	-3.5	-6.4	-8.4	-0.2			-2.7	-5.9
1921-1923.....	-1.5	30.2				39.7	41.1			48.0	59.9
1919-1921.....	-31.1	-38.9				-47.4	-41.3			-47.4	-54.0
1919-1929.....	-31.1	-18.9	35.1	-9.1	185.7	-22.0	-5.8	-0.6	10.1	-9.3	-13.2
1909-1919.....	-8.0	36.7	61.4	36.4	328.9	262.0	170.1	173.3	249.5	212.4	263.6
1899-1909.....	14.7	3.3	34.5	24.9	644.1	21.7	25.1			27.0	32.0

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

**TABLE 2.—SUMMARY FOR COUNTIES AND FOR WILMINGTON: 1929**

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	238,380	460	23,552	114,961	\$29,062,739	\$80,490,738	\$76,110,568	\$4,380,170	\$149,642,042	\$69,151,304
Wilmington <sup>3</sup> .....	106,597	193	14,910	61,534	19,828,881	47,809,270	45,566,908	2,242,362	90,521,887	42,712,117
<i>Counties</i>										
Kent.....	31,841	74	1,222	4,269	920,492	4,275,644	4,169,669	105,975	7,451,584	3,175,940
New Castle <sup>4</sup> .....	161,032	264	19,711	103,733	26,336,261	71,223,224	67,073,080	4,150,144	132,165,819	60,942,095
Sussex.....	45,507	122	2,619	6,959	1,796,986	4,991,870	4,867,819	124,051	10,025,139	5,033,269

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.  
<sup>3</sup> Wilmington is the only city in Delaware having more than 10,000 inhabitants. For statistics by industries for this city, see Table 14.  
<sup>4</sup> For statistics by industries for this county, see Table 13.

CENSUS OF MANUFACTURES: 1929

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	26,828	21,480	5,348	272	262	10	270	251	19	2,734	2,138	596	23,552	18,829	4,723
1919 <sup>1,4</sup>	32,972	27,820	5,152	593	577	16	325	312	13	3,019	2,187	832	20,035	24,744	4,291
1914 <sup>4</sup>	25,538	20,813	4,725	735	711	24	311	300	11	2,332	1,881	451	22,155	17,921	4,234
1909	23,984	19,972	4,012	722	701	21	240	235	5	1,784	1,531	253	21,238	17,505	3,733

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 95; male, 93; female, 2. Other salaried officers and employees—total, 2,598; male, 1,528; female, 1,070. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	23,552	<i>21,806</i>	21,877	22,166	22,388	23,073	23,475	23,757	26,041	27,819	25,704	22,487	22,051	78.4
1919 <sup>1</sup>	29,035	<b>28,236</b>	26,398	<i>25,399</i>	25,728	27,117	28,806	28,124	32,821	33,438	32,185	29,715	29,953	76.0
1914 <sup>1</sup>	22,155	<b>21,485</b>	21,304	21,861	21,776	21,908	22,834	21,418	24,134	28,364	23,607	18,922	18,787	64.1
1909 <sup>1</sup>	21,238	<b>19,220</b>	19,470	<i>19,168</i>	19,306	19,237	20,480	19,572	24,331	26,376	23,023	21,557	22,452	72.7

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	460	23,552	45 and over but under 48.....	16	894
Not reported.....	76	255	48.....	62	3,933
Under 40.....	3	14	Over 48 but under 54.....	92	6,724
40.....	17	134	54.....	29	3,129
Over 40 but under 44.....	41	530	Over 54 but under 60.....	54	5,346
44 and over but under 45.....			60 and over.....	80	2,604

<sup>1</sup> 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 \$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.....	460	668	726	23,552	29,035	21,238	51 to 100.....	30	32	23	2,257	2,404	1,655
No wage earners.....	7	67	46				101 to 250.....	33	20	32	5,655	4,416	4,981
1 to 5.....	109	338	334	591	776	898	251 to 500.....	12	8	6	4,242	2,524	1,826
6 to 20.....	122	120	200	1,312	1,458	2,324	501 to 1,000.....	6	5	4	4,122	3,410	2,806
21 to 50.....	48	58	78	1,574	1,882	2,561	1,001 to 2,500.....	3	5	3	3,769	12,165	4,187

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	400	608	726	23,552	20,035	21,238	\$140,642,042	\$165,073,009	\$52,830,619	\$60,151,304	\$79,640,076	\$21,901,818
Less than \$5,000.....	( <sup>2</sup> )	123	213	( <sup>3</sup> )	125	479	( <sup>4</sup> )	333,100	559,530	( <sup>5</sup> )	185,821	335,302
\$5,000 to \$19,999.....	159	228	258	522	730	1,901	1,899,418	2,472,718	2,748,180	1,020,834	1,158,642	1,346,406
\$20,000 to \$99,999.....	165	153	170	1,929	1,902	3,298	7,878,444	8,099,775	6,981,337	3,849,018	3,175,441	2,674,038
\$20,000 to \$49,999.....	100	( <sup>3</sup> )	( <sup>3</sup> )	850	( <sup>3</sup> )	( <sup>3</sup> )	3,261,874	( <sup>3</sup> )	( <sup>3</sup> )	1,687,891	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	65	( <sup>3</sup> )	( <sup>3</sup> )	1,079	( <sup>3</sup> )	( <sup>3</sup> )	4,416,570	( <sup>3</sup> )	( <sup>3</sup> )	2,181,627	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	72	78	( <sup>3</sup> )	3,310	3,475	( <sup>3</sup> )	15,942,886	17,672,745	( <sup>3</sup> )	7,826,788	8,004,438	( <sup>3</sup> )
\$100,000 to \$249,999.....	45	( <sup>3</sup> )	( <sup>3</sup> )	1,306	( <sup>3</sup> )	( <sup>3</sup> )	6,459,127	( <sup>3</sup> )	( <sup>3</sup> )	3,171,420	( <sup>3</sup> )	( <sup>3</sup> )
\$250,000 to \$499,999.....	27	( <sup>3</sup> )	78	2,004	( <sup>3</sup> )	8,566	9,483,759	( <sup>3</sup> )	25,657,769	4,655,362	( <sup>3</sup> )	10,076,057
\$500,000 to \$999,999.....	27	26	( <sup>3</sup> )	2,980	2,984	( <sup>3</sup> )	10,487,313	19,385,327	( <sup>3</sup> )	9,247,925	8,469,910	( <sup>3</sup> )
\$1,000,000 and over.....	37	30	7	14,811	19,813	6,994	104,633,981	117,109,344	10,892,803	47,206,789	58,645,824	7,469,955
\$1,000,000 to \$2,499,999.....	23	( <sup>3</sup> )	( <sup>3</sup> )	5,739	( <sup>3</sup> )	( <sup>3</sup> )	38,626,378	( <sup>3</sup> )	( <sup>3</sup> )	20,312,927	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	9	( <sup>3</sup> )	( <sup>3</sup> )	5,774	( <sup>3</sup> )	( <sup>3</sup> )	30,774,548	( <sup>3</sup> )	( <sup>3</sup> )	14,703,862	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	5	( <sup>3</sup> )	( <sup>3</sup> )	3,298	( <sup>3</sup> )	( <sup>3</sup> )	85,233,055	( <sup>3</sup> )	( <sup>3</sup> )	12,189,050	( <sup>3</sup> )	( <sup>3</sup> )

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

<sup>2</sup> No data.

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	400	608	23,552	20,035	\$140,642,042	\$165,073,009	\$60,151,304	\$79,640,076
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	216	228	21,371	20,810	139,550,147	150,957,146	64,256,214	74,823,774
Other forms of ownership or control (individual, partnership, etc.).....	244	440	2,181	2,225	10,091,895	14,115,863	4,895,090	4,816,302
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	103	( <sup>1</sup> )	13,409	( <sup>1</sup> )	82,324,225	( <sup>1</sup> )	41,147,771	( <sup>1</sup> )
Independent (single-unit).....	357	( <sup>1</sup> )	10,143	( <sup>1</sup> )	67,317,817	( <sup>1</sup> )	28,003,533	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

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

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Prime movers						Electric motors driven by purchased energy					
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horsepower
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower
The State:														
1929.....	114,961	59,802	259	28,181	44	25,819	40	3,195	43	2,607	4,831	55,159	2,413	46,434
1927.....	103,166	67,708	339	34,774	41	28,741	71	2,216	43	1,977	4,616	35,458	2,443	43,785
1925.....	107,891	68,703	406	38,821	31	26,254	45	1,245	45	2,353	2,867	38,688	2,701	40,553
1919 <sup>1</sup> .....	85,105	65,798	585	46,648	24	13,095	91	1,607	108	4,448	1,617	19,397	1,093	25,221
1914 <sup>1</sup> .....	64,324	54,619	<sup>2</sup> 666	<sup>2</sup> 48,207	( <sup>3</sup> )	( <sup>3</sup> )	117	1,905	107	4,507	860	9,705	1,513	19,889
New Castle County <sup>4</sup> .....	103,733	52,475	119	23,245	40	25,756	14	1,440	20	2,034	4,268	51,258	2,302	46,020

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

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

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

<sup>4</sup> This is the only county in Delaware in which the aggregate horsepower equaled or exceeded 25,000.

## CENSUS OF MANUFACTURES: 1929

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	114,901	59,802	55,159	46,434	New Castle.....	103,733	52,475	51,258	46,020
Kent.....	4,269	3,287	982	182	Sussex.....	6,959	4,040	2,919	232

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

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
<b>Fuel:</b>							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	464,683	\$2,154,969	452,157	473,285	550,121	360,846	348,960
Anthracite (tons, 2,240 pounds).....	23,606	193,056	( <sup>3</sup> )	30,186	38,185	26,731	18,267
Bituminous (tons, 2,000 pounds).....	438,244	1,961,913	( <sup>3</sup> )	429,307	507,354	330,907	328,501
Coke (tons, 2,000 pounds).....	15,087	119,862	( <sup>4</sup> )	( <sup>4</sup> )	15,712	14,292	11,608
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	32,252,521	980,708	( <sup>4</sup> )	( <sup>4</sup> )	8,149,974	2,727,942	1,648,122
Gasoline and kerosene (gallons) <sup>6</sup> .....	63,261	10,405	( <sup>4</sup> )	( <sup>4</sup> )	100,758		
Gas, natural (M cubic feet).....			( <sup>4</sup> )	( <sup>4</sup> )			
Gas, manufactured (M cubic feet).....	65,297	61,095	( <sup>4</sup> )	( <sup>4</sup> )	80,062	30,745	7,352
Other fuels.....		8,897	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours).....	66,864,785	1,059,262	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
Total cost of fuel and purchased energy.....		74,395,198	Cost \$4,258,475	Cost ( <sup>8</sup> )	Cost \$3,979,775	Cost \$1,402,974	Cost \$1,138,779

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1920.

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

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

<sup>4</sup> No data.

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

<sup>6</sup> Data incomplete.

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

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

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

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	460	3,004	23,552	59,802	55,159	\$8,344,542	\$29,062,739	\$76,110,568	\$4,380,170	\$149,642,042	\$69,151,304
Baskets and rattan and willow ware, not including furniture.....	7	23	505	545	20	57,065	274,462	295,000	2,773	843,364	545,522
Beverages.....	12	6	22	-----	91	14,466	29,524	73,609	3,112	105,061	118,940
Bread and other bakery products.....	36	30	378	-----	601	78,975	483,411	1,127,838	63,003	2,432,335	1,241,494
Brushes, other than rubber.....	3	2	47	-----	11	(4)	23,496	26,509	610	60,765	33,046
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	53	105	1,414	2,131	1,388	175,428	866,503	4,033,419	96,372	6,953,647	2,823,856
Cars, electric and steam railroad, not built in railroad repair shops.....	3	229	1,294	450	6,778	460,150	2,047,086	2,579,250	114,392	5,491,966	2,798,318
Clay products (other than pottery) and nonclay refractories.....	6	11	91	402	137	49,251	109,272	14,113	44,669	226,841	168,059
Concrete products.....	15	8	65	93	114	16,193	71,910	92,002	3,912	262,101	166,127
Confectionery.....	4	3	23	-----	63	2,839	21,614	97,061	7,515	147,544	42,908
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	8	27	-----	18	14,749	34,629	53,434	1,705	133,288	78,140
Feeds, prepared, for animals and fowls.....	4	3	9	100	7	2,600	7,530	144,500	150	168,800	24,150
Fertilizers.....	6	23	42	35	155	67,338	31,383	433,513	2,879	678,888	242,494
Flour and other grain-mill products.....	28	11	66	1,343	417	14,779	62,690	724,598	9,889	966,297	225,810
Foundry and machine-shop products, not elsewhere classified.....	20	297	1,864	2,506	6,228	774,107	2,666,165	4,789,659	244,308	9,982,592	4,048,625
Ice cream.....	9	23	74	65	640	68,099	104,581	379,952	16,991	879,075	483,132
Ice, manufactured.....	16	14	85	1,584	1,241	30,637	101,849	44,143	70,337	827,539	707,059
Leather: Tanned, curried, and finished.....	11	140	2,036	4,110	757	485,131	3,169,646	14,765,550	144,904	20,613,037	5,702,583
Lumber and timber products, not elsewhere classified.....	10	2	126	761	-----	(3)	86,402	80,463	-----	255,279	174,816
Marble, granite, slate, and other stone products.....	4	5	20	-----	101	8,587	26,291	24,689	1,175	88,150	62,286
Mattresses and bed springs, not elsewhere classified.....	4	2	18	-----	56	(3)	24,266	89,521	2,052	151,839	60,266
Motor-vehicle bodies and motor-vehicle parts.....	3	1	13	-----	107	(3)	20,840	19,655	1,124	55,392	34,613
Nonferrous-metal alloys and products not including aluminum products.....	3	9	29	-----	25	20,376	35,244	105,895	8,017	211,616	97,134
Oils, not elsewhere classified.....	3	7	35	270	91	28,380	20,994	169,362	3,782	271,380	98,186
Paper.....	7	45	585	6,368	10,101	187,329	808,863	2,999,588	474,374	4,817,327	1,343,395
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	10	10	53	170	555	29,210	68,610	158,764	5,052	318,967	154,251
Printing and publishing, book and job.....	15	31	186	-----	105	106,872	243,068	197,374	14,071	703,489	492,044
Printing and publishing, newspaper and periodical.....	19	266	249	-----	649	374,656	447,687	374,983	31,319	1,794,333	1,388,061
Pulp goods.....	9	76	1,306	2,275	2,103	275,138	1,459,415	4,621,916	122,852	8,879,798	4,235,025
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	4	2	9	10	36	(4)	9,096	115,304	1,025	196,880	80,551
Ship and boat building, steel and wooden, including repair work.....	9	158	1,239	145	5,042	416,403	1,543,908	2,935,896	83,475	6,998,910	3,884,539
Shirts.....	7	19	432	-----	49	24,392	268,417	254,724	5,739	597,324	336,861
Signs and advertising novelties.....	3	7	21	-----	8	13,639	35,253	17,108	390	78,271	60,773
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	3	2	14	-----	36	(4)	19,145	17,466	770	48,833	30,597
Other industries.....	102	1,426	10,525	36,398	17,380	4,542,653	13,959,321	34,353,655	2,785,932	73,406,571	36,266,984

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

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

<sup>3</sup> Not including data for 2,093 employees of central administrative offices, with salaries aggregating \$7,932,615. See GENERAL EXPLANATIONS—Persons Engaged.

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

<sup>5</sup> 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, exactly or approximately, the figures reported by an individual establishment.

## CENSUS OF MANUFACTURES: 1929

TABLE 13.—GENERAL STATISTICS, BY INDUSTRIES, FOR NEW CASTLE COUNTY: 1929

[This is the only county in Delaware in which 4,000 wage earners or more were employed in manufacturing and printing and publishing industries. Statistics are given separately for each industry for which it is possible to publish such figures without disclosing, exactly or approximately, the data supplied by individual establishments, and in combination for the remaining industries ("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 establishments located outside New Castle County (see footnote 4), 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	264	2,002	10,711	52,475	51,258	\$7,507,437	\$26,336,261	\$67,073,080	\$4,150,144	\$132,165,319	\$60,042,095
Beverages.....	7	6	14	46	46	14,466	18,619	46,698	2,481	128,450	79,271
Bread and other bakery products.....	30	27	341	532	532	71,422	448,851	1,007,982	87,408	2,206,515	1,141,130
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	6	5	38	233	54	7,000	21,304	105,778	2,017	176,916	69,121
Cars, electric and steam railroad, not built in railroad repair shops.....	3	229	1,204	450	6,778	460,150	2,047,986	2,579,256	114,392	5,491,966	2,798,318
Concrete products.....	7	3	45	109	109	16,193	50,840	68,564	3,794	191,861	119,503
Confectionery.....	4	3	23	63	63	2,839	21,614	97,061	7,515	147,544	42,968
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	3	27	18	18	14,749	34,629	53,434	1,705	133,288	78,149
Flour and other grain-mill products.....	5	2	16	393	(1)	(1)	15,073	171,568	1,780	227,650	54,302
Foundry and machine-shop products, not elsewhere classified.....	17	292	1,832	2,477	6,222	764,607	2,567,740	4,720,563	242,470	9,846,894	4,883,861
Ice cream <sup>1</sup> .....	9	23	74	65	640	68,099	104,681	379,952	16,991	879,075	483,132
Leather: Tanned, curried, and finished.....	11	140	2,680	4,110	767	485,131	3,169,646	14,765,550	144,904	20,613,037	5,702,533
Mattresses and bed springs, not elsewhere classified.....	4	2	18	56	56	(1)	24,206	89,621	2,052	161,839	60,266
Nonferrous-metal alloys and products, not including aluminum products.....	3	9	29	25	25	20,376	35,244	105,865	8,617	211,616	97,134
Paper.....	7	45	585	6,368	10,101	187,329	808,868	2,999,588	474,374	4,817,327	1,343,365
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	4	5	25	264	264	17,600	32,764	59,941	4,146	132,369	71,232
Printing and publishing, book and job.....	15	31	186	165	165	100,872	243,068	197,374	14,071	703,489	492,044
Printing and publishing, newspaper and periodical.....	9	256	205	564	564	355,309	378,690	337,863	25,812	1,583,233	1,216,558
Pulp goods <sup>2</sup> .....	9	76	1,306	2,275	2,103	275,138	1,459,415	4,621,916	122,852	8,879,793	4,235,025
Ship and boat building, steel and wooden, including repair work.....	6	153	1,292	130	4,850	408,239	1,498,886	2,866,294	86,101	6,745,882	3,793,487
Signs and advertising novelties.....	3	7	21	8	8	13,689	35,253	17,108	390	78,271	60,773
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	3	2	14	36	36	(1)	19,145	17,466	770	48,833	30,597
Other industries.....	102	1,335	9,758	30,139	17,882	4,223,729	13,329,511	31,933,061	2,817,739	68,890,228	34,138,778

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

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

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

<sup>2</sup> The figures for the following establishments located outside the county have been included in the items for the county to avoid disclosing the data reported by those establishments: Ice cream, 2; pulp goods, 1.

<sup>3</sup> 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, exactly or approximately, the figures reported by an individual establishment.

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

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	193	2, 015	14, 010	22, 076	39, 468	\$5, 147, 385	\$10, 828, 881	\$45, 560, 908	\$2, 242, 362	\$90, 521, 387	\$42, 712, 117
Beverages.....	7	6	14	-----	46	14, 460	18, 619	40, 008	2, 481	128, 450	79, 271
Bread and other bakery products.....	27	27	325	-----	498	71, 422	432, 869	974, 098	55, 425	2, 123, 508	1, 093, 985
Cars, electric and steam railroad, not built in railroad repair shops.....	3	229	1, 294	450	6, 778	460, 150	2, 047, 980	2, 579, 250	114, 392	5, 491, 960	2, 708, 313
Confectionery.....	4	3	23	-----	63	2, 839	21, 614	97, 061	7, 515	147, 544	42, 988
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	3	8	27	-----	18	14, 749	34, 029	53, 434	1, 705	133, 288	78, 140
Foundry and machine-shop products, not elsewhere classified <sup>1</sup> .....	17	292	1, 832	2, 477	6, 222	764, 607	2, 587, 740	4, 720, 593	242, 470	9, 846, 894	4, 883, 861
Leather: Tanned, curried, and finished <sup>1</sup> .....	11	140	2, 086	4, 110	767	485, 131	3, 109, 646	14, 705, 550	144, 904	20, 613, 037	5, 702, 583
Mattresses and bed springs, not elsewhere classified <sup>1</sup> .....	4	2	18	-----	56	( <sup>2</sup> )	24, 206	89, 521	2, 052	151, 839	60, 266
Nonferrous-metal alloys and products, not including aluminum products.....	3	9	29	-----	25	20, 376	35, 244	105, 805	8, 617	211, 616	97, 134
Printing and publishing, book and job.....	15	31	136	-----	165	109, 872	243, 068	197, 374	14, 071	793, 489	492, 044
Printing and publishing, newspaper and periodical.....	6	244	181	-----	525	333, 254	340, 807	828, 110	23, 651	1, 492, 435	1, 145, 035
Signs and advertising novelties.....	3	7	21	-----	8	13, 689	35, 253	17, 108	390	78, 271	60, 773
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	3	2	14	-----	36	( <sup>2</sup> )	19, 145	17, 466	770	48, 833	30, 597
Other industries <sup>3</sup> .....	87	1, 015	8, 290	15, 039	24, 281	2, 859, 830	10, 837, 955	21, 579, 795	1, 623, 919	49, 350, 217	26, 146, 503

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

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

<sup>1</sup> The figures for each of the following-named industries include data for 1 establishment located outside the city, to avoid disclosing the figures reported by an individual establishment: "Foundry and machine-shop products, not elsewhere classified"; "Leather: Tanned, curried, and finished"; "Mattresses and bed springs, not elsewhere classified." These adjustments have been made to avoid disclosing approximations of the data for the establishments in question. Amounts equivalent to the sums of the figures for these establishments have been subtracted from the "Other industries" items, and therefore the totals for the city are not affected by these counterbalancing adjustments.

<sup>2</sup> See footnote 3.

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



# DISTRICT OF COLUMBIA

(Coextensive with the City of Washington)

TABLE 1.—SUMMARY: 1899 TO 1929

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	547	9,752	44,016	13,372	31,544	\$15,512,711	\$30,200,070	\$33,095,733	\$3,104,837	\$88,972,885	\$52,772,815
1927	503	9,519	39,471	12,129	27,342	15,668,655	30,098,635	32,639,547	3,459,088	90,389,537	54,290,902
1925	538	9,753	37,508	12,184	25,344	15,320,067	33,503,934	( <sup>5</sup> )	( <sup>5</sup> )	83,578,826	50,072,892
1923	600	9,823	31,846	13,217	18,629	14,795,722	32,870,254	( <sup>5</sup> )	( <sup>5</sup> )	73,107,854	40,237,600
1921	400	8,640	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	12,955,438	30,260,534	( <sup>5</sup> )	( <sup>5</sup> )	67,639,522	37,378,988
1919	595	10,482	33,069	13,109	19,960	13,189,031	30,040,100	27,462,366	3,477,734	68,826,570	37,880,470
1914	514	8,877	24,745	18,338	6,407	6,068,692	12,230,123	10,782,494	1,456,629	28,978,241	16,739,118
1909	518	7,707	16,493	14,060	2,433	4,989,449	10,240,534	9,178,306	1,070,228	25,289,136	15,042,602
1904	482	6,209	12,584	11,588	996	3,658,370	7,731,971	7,350,406	381,565	18,359,159	10,627,188
1899	491	6,155	9,584	9,484	100	3,022,906	7,475,216	( <sup>6</sup> )	( <sup>6</sup> )	16,426,408	8,951,102
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	8.7	2.4	13.8	10.2	15.4	-1.0	0.3	1.4	-10.3	-1.6	-2.8
1925-1927	-6.5	-2.4	5.2	-0.3	7.9	2.3	7.7			8.2	8.4
1923-1925	-10.3	-0.7	17.8	-8.0	36.0	8.5	1.9			14.3	24.4
1921-1923	22.4	13.7				14.2	8.6			8.1	7.6
1919-1921	-17.6	-17.6				-1.8	-2.2			-1.7	-1.3
1919-1929	-8.1	-7.0	35.8	2.0	58.0	17.6	17.0	20.5	-10.7	29.3	39.3
1909-1919	14.9	36.0	100.5	-6.8	720.4	164.3	202.0	109.3	225.0	172.2	151.9
1899-1909	5.5	25.2	72.1	48.2	2,333.0	65.1	37.1			54.0	68.1

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

TABLE 2.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY SEX: 1929, 1919, 1914, AND 1909

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	14,328	11,252	3,076	328	287	39	218	282	36	3,832	2,305	1,527	9,752	8,278	1,474
1919 <sup>1</sup>	14,101	11,746	2,355	515	482	33	281	267	14	2,823	1,804	1,019	10,482	9,193	1,289
1914 <sup>1</sup>	11,323	9,692	1,631	435	404	31	199	189	10	1,812	1,819	493	8,877	7,780	1,097
1909	9,758	8,598	1,160	475	455	20	170	164	6	1,406	1,100	306	7,707	6,879	828

No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1910 and 1920.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 15 (male). Other salaried officers and employees—total, 22; male, 10; female, 12. The corresponding data for 1919 and earlier years are included in the respective items for those years but can not be given separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

TABLE 3.—WAGE EARNERS, BY MONTHS: 1929, 1919, 1914, AND 1909

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	9,752	<i>8,009</i>	9,621	9,677	9,858	9,866	9,852	9,737	9,713	9,741	9,701	9,765	9,796	97.4
1919 <sup>1</sup>	10,482	10,459	10,387	<i>10,319</i>	10,449	10,463	10,559	10,522	10,578	10,332	10,375	10,618	10,723	96.2
1914 <sup>1</sup>	8,877	8,696	8,672	<i>8,558</i>	8,725	9,003	8,869	8,765	8,885	8,965	8,995	9,064	9,227	93.8
1909 <sup>1</sup>	7,707	<i>7,481</i>	7,445	7,535	7,619	7,774	7,761	7,785	7,752	7,840	7,949	7,861	7,753	93.4

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

CENSUS OF MANUFACTURES: 1929

TABLE 4.—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.....	547	9,752	45 and over but under 48.....	22	810
Not reported.....	19	50	48.....	187	5,431
Under 40.....	46	52	Over 48 but under 54.....	16	310
40.....	24	109	54.....	14	132
Over 40 but under 44.....	9	174	Over 54 but under 60.....	20	391
44 and over but under 45.....	161	2,333	60 and over.....	30	391

TABLE 5.—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.....	547	595	518	9,752	10,482	7,707	51 to 100.....	17	20	25	1,163	1,353	1,750
No wage earners.....	95	134	75				101 to 250.....	16	12	6	2,366	1,828	785
1 to 5.....	222	231	233	650	589	572	251 to 500.....	15	4	2	12,298	1,345	762
6 to 20.....	131	144	128	1,434	1,583	1,365	601 to 1,000.....		1	1		751	558
21 to 50.....	61	48	58	1,841	1,856	1,915	1,001 to 2,500.....		1			1,348	

<sup>1</sup> Combined to avoid disclosing the data for an individual establishment.

TABLE 6.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	547	595	518	9,752	10,482	7,707	\$88,972,885	\$68,826,570	\$25,289,136	\$52,772,815	\$37,886,470	\$15,042,602
Less than \$5,000.....	(2)	125	147	(2)	42	182	(2)	299,940	333,463	(2)	189,031	264,245
\$5,000 to \$19,999.....	198	181	187	370	498	956	2,344,269	2,021,696	2,020,003	1,574,187	1,278,741	1,294,810
\$20,000 to \$99,999.....	207	192	135	1,420	1,743	2,480	9,076,009	9,272,206	5,819,241	6,751,762	5,411,283	3,418,883
\$20,000 to \$49,999.....	128	(3)	(3)	670	(3)	(3)	4,095,942	(3)	(3)	2,717,227	(3)	(3)
\$50,000 to \$99,999.....	79	(2)	(2)	750	(2)	(2)	5,520,007	(2)	(2)	4,034,535	(2)	(2)
\$100,000 to \$499,999.....	109	71		2,779	3,065		22,169,190	15,091,792		14,191,216	8,187,489	
\$100,000 to \$249,999.....	80	(3)		1,690	(3)		12,499,523	(3)		7,600,390	(3)	
\$250,000 to \$499,999.....	29	(2)	46	1,089	(2)	3,028	9,669,667	(2)	12,053,695	6,590,826	(2)	7,114,340
\$500,000 to \$999,999.....	16	10		1,661	800		12,041,263	7,205,082		7,138,201	2,518,328	
\$1,000,000 and over.....	17	16	3	3,513	4,334	1,061	42,742,134	34,985,854	5,012,734	23,117,359	20,301,598	2,650,318
\$1,000,000 to \$2,499,999.....	11	(3)	(3)	1,615	(3)	(3)	16,721,697	(3)	(3)	8,715,298	(3)	(3)
\$2,500,000 to \$4,999,999.....	3	(3)	(3)	696	(3)	(3)	8,774,850	(3)	(3)	2,680,983	(3)	(3)
\$5,000,000 and over.....	3	(3)	(3)	1,202	(3)	(3)	17,245,581	(3)	(3)	11,715,078	(3)	(3)

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

<sup>2</sup> No data.

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

TABLE 7.—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.....	547	595	9,752	10,482	\$88,972,885	\$68,826,570	\$52,772,815	\$37,880,470
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	260	178	7,836	8,086	76,707,594	53,176,333	45,672,146	29,414,529
Other forms of ownership or control (individual, partnership, etc.).....	287	417	1,916	2,396	12,265,291	15,650,237	7,100,669	8,471,941
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	35	( <sup>1</sup> )	1,687	( <sup>1</sup> )	15,723,266	( <sup>1</sup> )	9,816,672	( <sup>1</sup> )
Independent (single-unit).....	512	( <sup>1</sup> )	8,065	( <sup>1</sup> )	73,249,619	( <sup>1</sup> )	42,956,143	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

TABLE 8.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY: 1929, 1927, 1925, 1919, AND 1914

CENSUS YEAR	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY												ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING	
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number	Horse-power		
Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power	
1929.....	44,916	13,372	79	7,476	23	3,807	25	509	4	1,520	4,509	31,544	303	3,381
1927.....	39,471	12,129	75	6,789	20	3,647	25	918	2	775	3,945	27,342	234	2,624
1925.....	37,508	12,104	71	7,816	19	2,909	31	544	3	895	3,507	25,344	162	2,387
1919 <sup>1</sup> .....	33,069	13,109	97	8,868	16	1,472	54	2,103	5	606	2,702	19,900	181	1,983
1914 <sup>1</sup> .....	24,745	18,338	<sup>2</sup> 214	<sup>2</sup> 15,230	( <sup>3</sup> )	( <sup>3</sup> )	67	2,568	4	540	1,331	6,407	328	3,115

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

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

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

TABLE 9.—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.]

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	92,222	\$526,554	79,094	151,736	223,429	226,622	188,836
Anthracite (tons, 2,240 pounds).....	6,692	66,467	( <sup>3</sup> )	57,728	87,731	59,552	11,163
Bituminous (tons, 2,000 pounds).....	84,727	460,087	( <sup>3</sup> )	87,081	125,170	159,024	176,333
Coke (tons, 2,000 pounds).....	74,912	476,124	( <sup>4</sup> )	( <sup>4</sup> )	15,579	1,831	20,587
Fuel oils, including crude and gas oils (gallons) <sup>5</sup> .....	25,868,018	1,272,141	( <sup>4</sup> )	( <sup>4</sup> )	16,707,912	10,907,106	8,221,248
Gasoline and kerosene (gallons) <sup>5</sup> .....	95,018	14,238	( <sup>4</sup> )	( <sup>4</sup> )	45,174		
Gas, natural (M cubic feet).....							
Gas, manufactured (M cubic feet).....	200,460	146,366	( <sup>4</sup> )	( <sup>4</sup> )	964,794	48,652	22,275
Other fuels.....		3,573	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours).....	40,514,200	665,539	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Total cost of fuel and purchased energy.....		73,104,534	Cost \$3,459,088	Cost ( <sup>6</sup> )	Cost \$3,477,734	Cost \$1,456,629	Cost \$1,070,228

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

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

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

<sup>4</sup> No data.

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

<sup>6</sup> Data incomplete.

<sup>7</sup> The difference between this total and the corresponding one given in Tables 1 and 10 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.

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

## CENSUS OF MANUFACTURES: 1929

TABLE 10.—GENERAL STATISTICS, BY INDUSTRIES: 1929

[This table presents statistics for all industries for which separate figures can be given without disclosing, exactly or approximately, the data reported by individual establishments. Certain of the "Other industries," however, reported larger numbers of wage earners and larger values of products than some of those shown separately]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSE POWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	547	4,250	9,752	13,372	31,544	\$9,036,418	\$15,512,711	\$33,005,733	\$3,104,337	\$88,972,835	\$52,772,815
Awnings, tents, sails, and canvas covers.....	11	25	70		23	50,246	71,822	150,143	3,002	361,895	208,750
Beverages.....	21	48	158	646	332	170,343	207,870	569,659	29,089	1,556,010	958,132
Bookbinding and blank-book making.....	4	5	64		85	8,888	83,970	25,484	1,663	169,556	142,409
Bread and other bakery products.....	100	139	1,346	392	2,139	309,865	2,380,583	4,479,177	239,986	10,645,058	5,925,895
Clay products (other than pottery) and nonclay refractories.....	3	5	83	332	350	15,311	121,126	20,603	70,325	194,008	103,980
Coffee and spice, roasting and grinding.....	6	19	61		222	98,494	50,035	2,252,728	16,672	2,885,723	616,423
Concrete products.....	6	20	119	13	524	69,832	110,283	435,140	8,701	779,840	335,018
Confectionery.....	10	23	138		53	62,867	116,336	327,402	9,843	654,008	316,793
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	7	16	81	35	19	34,702	125,192	147,077	768	357,772	209,927
Druggists' preparations.....	5	17	17		24	40,900	16,464	147,501	1,689	274,433	125,393
Electrotyping.....	3	3	14		54	7,991	24,092	9,575	2,100	40,112	37,437
Engraving, steel and copperplate, and plate printing.....	9	35	90		41	87,735	116,132	156,784	4,295	528,149	367,070
Foundry and machine-shop products, not elsewhere classified.....	7	23	76	216	62	53,032	124,788	122,732	5,276	475,070	347,062
Fur goods.....	9	23	85		28	86,249	157,471	514,794	4,811	976,055	450,450
Hand stamps and stencils and brands.....	4	17	31		15	35,134	41,617	75,446	1,568	213,333	130,310
Ice cream.....	19	78	316	1,000	4,063	226,075	566,457	1,487,504	95,857	3,663,333	2,079,972
Ice, manufactured.....	9	32	119	675	9,095	82,297	178,376	28,328	208,649	1,779,688	1,632,811
Jewelry.....	3	2	26		3	( <sup>4</sup> )	39,705	70,921	58	142,268	71,230
Lithographing.....	8	74	149		177	188,176	226,720	141,259	9,843	750,651	509,549
Marble, granite, slate, and other stone products.....	7	27	129		1,208	68,956	193,056	249,040	14,662	702,134	438,432
Mattresses and bed springs, not elsewhere classified.....	5	7	81		176	15,546	83,981	203,147	5,291	415,892	207,454
Meat packing, wholesale.....	8	85	389	375	993	179,814	569,992	6,422,662	56,438	7,585,831	1,106,731
Photo-engraving, not done in printing establishments.....	7	35	90		43	101,132	234,645	55,942	7,150	545,750	482,667
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	8	32	201	275	424	78,187	867,948	480,789	13,028	1,223,102	729,285
Printing and publishing, book and job.....	80	233	1,221		1,674	783,236	1,915,417	1,584,411	73,059	6,368,306	4,710,836
Printing and publishing, newspaper and periodical.....	98	2,645	1,338		2,797	5,399,341	2,747,454	4,974,603	128,822	23,491,505	18,390,080
Signs and advertising novelties.....	5	2	27		6	( <sup>4</sup> )	41,448	18,936	328	102,320	83,056
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	11	43	181	53	434	119,944	281,729	509,986	8,606	1,160,416	647,824
Surgical and orthopedic appliances, including artificial limbs.....	4	12	25		42	30,848	34,348	31,547	1,058	188,012	155,407
Other industries.....	70	516	3,027	9,461	6,382	1,441,277	4,268,645	7,402,413	2,083,930	20,735,787	11,249,444

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

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

<sup>3</sup> Not including 37 employees of central administrative offices, with salaries aggregating \$136,347. See GENERAL EXPLANATIONS—Persons Engaged.

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

# FLORIDA

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 OF PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	2,212	64,868	192,695	104,666	88,020	\$54,582,198	\$96,898,240	\$92,103,202	\$4,795,038	\$232,386,427	\$135,488,187
1927	1,912	61,219	177,580	101,940	75,640	56,671,574	91,715,524	86,355,278	5,360,246	218,790,162	127,074,628
1925	1,863	60,204	144,161	97,815	46,346	65,780,100	113,796,360	( <sup>5</sup> )	( <sup>5</sup> )	207,000,150	153,212,829
1923	1,090	65,047	138,269	113,627	24,642	62,356,618	83,187,541	( <sup>5</sup> )	( <sup>5</sup> )	188,258,384	106,070,848
1921	1,720	53,289	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	42,734,452	67,062,543	( <sup>5</sup> )	( <sup>5</sup> )	146,820,670	78,768,036
1919	2,582	74,415	139,091	110,436	22,655	67,433,220	92,080,224	88,448,851	4,231,373	213,326,811	120,640,687
1914	2,518	55,608	90,992	93,580	0,400	24,822,323	33,815,688	32,467,161	1,358,527	81,112,201	47,296,003
1909	2,150	57,473	89,729	86,376	3,353	22,981,572	26,128,279	25,404,092	723,587	72,889,659	46,761,880
1904	1,413	42,081	43,413	42,413	1,000	15,767,182	16,532,439	16,210,224	322,215	50,208,290	33,765,851
1899	1,275	35,471	36,356	36,194	162	10,916,443	12,847,187	( <sup>5</sup> )	( <sup>5</sup> )	34,183,509	21,336,322
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	15.7	6.0	8.5	2.7	16.4	-3.7	5.7	6.7	-10.6	6.2	6.6
1925-1927	2.6	-7.5	23.2	4.2	63.2	-13.9	-19.4			-18.1	-17.1
1923-1925	10.2	1.8	4.3	-13.9	88.1	25.0	36.8			41.8	46.5
1921-1923	-1.8	22.1				22.5	24.0			20.1	33.4
1919-1921	-33.4	-28.4				-36.0	-27.7			-31.7	-34.7
1910-1929	-14.3	-12.8	38.5	-10.1	288.6	-19.1	4.6	4.1	13.3	8.9	12.3
1909-1919	10.6	29.5	55.0	34.8	575.7	103.4	254.7	248.2	484.8	192.7	158.0
1899-1909	69.3	62.0	148.8	138.0	1,969.8	110.5	103.4			118.2	119.2

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

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

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

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

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

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

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	1,468,211	2,212	64,868	192,095	\$54,582,198	\$96,898,240	\$92,103,202	\$4,795,038	\$232,386,427	\$135,488,187
<i>Counties<sup>3</sup></i>										
Alachua	34,865	47	1,105	2,310	792,821	2,368,152	2,287,278	80,874	4,068,673	1,700,521
Baker	6,273	6	526	614	264,895	272,178	266,878	5,300	750,544	478,366
Bay	12,091	34	1,200	2,977	607,243	368,124	349,170	18,954	1,288,775	620,651
Bradford	9,406	15	365	191	142,727	107,480	105,151	2,329	376,228	268,748
Brevard	13,288	20	257	842	194,907	206,444	186,048	20,396	640,042	433,598
Broward	20,094	29	150	2,289	193,635	252,841	204,849	47,992	767,548	514,707
Calhoun	7,293	18	527	630	195,955	188,111	187,435	676	613,805	425,694
Charlotte	4,613	7	51	374	30,696	63,430	51,141	12,289	165,405	101,975
Citrus	5,518	12	92	353	44,710	38,096	38,096		126,759	86,663
Clay	6,859	14	287	204	122,170	66,127	62,823	3,304	264,405	198,278
Columbia	14,638	20	470	693	208,181	245,891	232,667	13,224	662,997	417,106
Dade <sup>4</sup>	142,955	210	2,398	13,094	3,318,501	4,979,624	4,456,493	523,131	14,708,222	9,728,598
De Soto	7,745	17	652	2,244	459,813	656,080	628,144	27,936	1,558,684	903,004
Duval	156,603	232	7,065	20,894	7,815,448	32,944,158	32,000,559	943,599	59,521,101	26,676,943
Escambia	53,594	75	2,355	11,314	2,481,901	4,354,368	3,987,213	367,155	10,375,898	6,021,530

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) <sup>1</sup>	Horse-power	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<sup>2</sup>—Continued</i>										
Flagler	2,466	12	413	174	\$195,277	\$119,354	\$118,429	\$925	\$435,945	\$316,591
Franklin	6,283	17	799	970	526,674	324,053	304,074	19,979	1,455,414	1,131,361
Gadsden	29,890	26	1,423	2,889	1,106,200	932,523	918,298	14,230	3,080,639	2,148,111
Glenn	4,137	11	143	115	59,799	70,966	70,052	914	179,157	108,191
Gulf	3,182	12	373	667	174,527	169,306	152,059	16,347	443,743	274,437
Hamilton	9,454	21	572	723	219,903	166,210	189,071	7,139	542,213	346,003
Hardee	10,348	7	64	354	47,203	42,982	38,050	4,926	160,662	117,680
Hernando	4,948	11	131	343	75,580	91,696	85,840	5,856	201,491	169,795
Highlands	9,192	19	681	2,008	502,863	456,185	450,029	6,120	1,558,123	1,101,968
Hillsborough	153,519	267	14,286	26,927	15,027,466	23,569,937	22,602,036	877,901	58,395,138	34,825,201
Holmes	12,924	10	333	309	143,375	179,147	176,990	2,157	548,140	368,993
Indian River	6,724	5	19	302	21,129	23,385	19,092	4,293	83,476	60,001
Jackson	31,969	42	635	1,354	270,317	924,006	915,726	8,280	1,517,724	593,718
Jefferson	13,408	18	705	980	333,957	258,846	245,795	13,051	824,713	565,867
Lafayette	4,361	7	169	26	60,680	30,153	29,893	260	120,338	89,985
Lake	23,161	35	619	3,377	568,133	619,738	590,596	29,142	1,789,513	1,169,775
Lee	14,990	15	214	1,679	208,193	270,577	213,068	56,600	780,027	515,460
Leon	23,476	43	905	46	589,098	811,780	765,159	46,621	2,049,974	1,238,194
Levy	12,456	28	1,147	2,277	527,343	467,905	430,973	36,932	1,538,085	1,070,780
Liberty	4,007	16	654	612	204,481	135,168	129,863	5,305	624,760	389,598
Madison	15,614	19	442	547	187,453	334,339	317,904	10,435	735,443	401,104
Manatee	22,502	30	844	2,692	530,473	828,336	758,465	69,871	2,437,088	1,605,752
Marion	29,578	52	913	2,773	515,673	788,850	738,458	50,392	2,027,639	1,238,689
Martin	5,111	9	182	1,053	137,679	104,412	101,933	2,470	333,916	229,504
Monroe	13,624	26	760	1,283	648,404	888,140	821,804	66,336	2,267,993	1,376,853
Nassau	9,375	21	661	873	272,873	323,506	302,836	20,670	910,974	596,468
Okaloosa	9,807	9	169	334	72,461	32,548	29,386	3,162	153,851	121,303
Orange	49,737	62	710	5,491	741,079	1,253,608	1,103,922	149,686	3,695,845	2,442,237
Osceola	10,699	10	202	2,314	686,476	724,442	718,138	6,304	2,144,696	1,420,263
Palm Beach	51,781	48	1,450	4,275	662,233	1,034,539	868,359	166,180	3,152,498	2,117,959
Pasco	10,574	16	1,013	2,283	793,979	427,627	420,002	7,625	1,821,823	1,394,196
Pinellas	62,149	92	871	7,751	967,783	1,792,558	1,522,896	269,662	5,207,096	3,414,538
Polk	72,291	96	2,115	6,096	1,848,549	3,154,739	2,965,926	188,813	7,685,423	4,580,684
Putnam	18,096	40	900	3,770	777,702	828,298	793,313	34,985	2,351,356	1,523,058
St. Johns	18,676	26	771	3,730	700,474	567,993	468,122	89,871	2,146,773	1,588,780
St. Lucie	7,057	10	107	1,176	144,223	311,690	273,887	37,803	697,628	385,938
Sarasota	12,440	15	176	1,004	168,110	163,616	139,414	24,202	537,388	373,772
Seminole	18,735	21	611	3,029	602,100	1,332,259	1,226,377	105,882	3,034,534	1,702,275
Sumter	10,644	11	284	1,022	262,640	202,467	181,971	20,496	594,181	391,714
Suwannee	15,731	21	536	887	326,285	242,914	229,169	13,755	884,183	641,269
Taylor	13,136	17	1,516	7,299	1,053,782	1,057,152	1,032,418	24,734	4,420,401	3,363,249
Union	7,428	11	370	360	156,511	259,030	258,240	790	661,374	402,344
Volusia	42,757	60	781	3,868	681,583	845,671	713,318	132,353	2,613,996	1,768,325
Wakulla	5,468	16	268	453	134,596	94,611	94,611	-----	373,278	278,007
Walton	14,576	27	1,274	1,849	670,537	476,293	463,389	12,904	1,663,180	1,186,837
Washington	12,180	21	1,104	1,561	762,344	371,210	364,367	6,843	1,673,427	1,302,217
All other counties <sup>3</sup>	33,768	39	4,030	8,428	2,284,149	1,662,796	1,613,737	49,059	5,966,777	4,303,981
<i>Cities having 10,000 inhabitants or more<sup>4</sup></i>										
Daytona Beach	16,598	23	179	1,567	239,000	510,096	407,064	103,032	1,358,984	848,888
Gainesville	10,465	21	196	1,191	206,544	499,809	462,025	37,784	1,179,163	679,354
Jacksonville	129,549	209	6,240	23,889	7,161,470	30,510,378	29,642,550	867,828	55,108,183	24,597,805
Key West	12,831	23	756	1,283	648,404	888,140	821,804	66,336	2,207,993	1,379,853
Lakeland	18,554	29	459	1,920	578,600	842,471	758,296	84,175	2,231,519	1,389,048
Miami <sup>5</sup>	110,637	170	1,905	10,721	2,614,244	3,944,315	3,495,440	448,875	12,896,642	8,452,327
Orlando	27,380	46	522	3,834	563,337	1,072,365	950,960	121,400	2,995,271	1,922,906
Pensacola	31,579	50	1,244	7,092	1,692,464	2,853,219	2,075,184	278,035	6,061,039	3,707,820
St. Augustine	12,111	13	357	3,393	499,321	436,270	358,700	80,570	1,520,410	1,084,140
St. Petersburg	40,425	65	502	6,044	692,421	1,173,634	962,613	211,021	3,370,883	2,197,249
Tallahassee	10,700	16	136	615	200,718	270,175	226,910	43,265	737,474	407,299
Tampa <sup>6</sup>	101,161	236	13,144	20,990	13,854,191	20,648,919	19,910,205	738,714	53,107,496	32,458,577
West Palm Beach	26,610	36	378	4,010	602,575	913,967	754,792	159,175	2,845,668	1,981,691

<sup>1</sup> Not including salaried employees.<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.<sup>3</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the counties shown separately.<sup>4</sup> For statistics by industries for this county, see Table 13.<sup>5</sup> Collier, Dixie, Glades, Hendry, Okeechobee, and Santa Rosa Counties. (See footnote 3.)<sup>6</sup> Not including Sanford, which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for this city from separate publication to avoid disclosing approximations of the data for individual establishments located outside the city but within Seminole County.<sup>7</sup> For statistics by industries for this city, see Table 14.

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	72,777	63,216	9,561	1,432	1,397	35	2,072	2,089	83	2,5405	2,4524	2,881	64,808	56,306	8,502
1919 <sup>1,4</sup>	82,986	76,351	6,635	2,616	2,532	84	762	749	13	6,193	4,402	791	74,415	68,668	5,747
1914 <sup>4</sup>	63,204	59,739	3,465	2,082	2,020	62	546	537	9	4,368	4,107	261	55,008	52,475	2,533
1909 <sup>1</sup>	64,810	61,500	3,310	2,712	2,652	60	460	462	7	4,156	3,966	190	57,473	54,420	3,053

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 36 (male). Other salaried officers and employees—total, 166; male, 131; female, 35. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	64,868	64,149	64,787	65,278	64,230	63,373	<b>62,266</b>	62,325	62,725	64,605	66,887	68,994	68,797	90.2
1919 <sup>1</sup>	74,415	74,029	73,007	73,427	71,888	73,014	72,900	75,135	<b>71,293</b>	75,326	77,708	77,108	78,140	91.2
1914 <sup>1</sup>	55,008	55,047	55,861	56,585	57,065	56,968	56,764	57,775	55,924	55,071	55,384	<b>52,087</b>	52,194	90.2
1909 <sup>1</sup>	57,473	<i>56,016</i>	56,414	56,596	56,371	56,898	56,195	56,182	56,276	58,035	56,487	60,601	60,637	92.3

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	2,212	64,868	45 and over but under 48.....	55	1,573
Not reported.....	533	3,591	48.....	396	15,191
Under 40.....	60	1,079	Over 48 but under 54.....	157	5,250
40.....	72	3,892	54.....	138	4,751
Over 40 but under 44.....	17	406	Over 54 but under 60.....	148	7,168
44 and over but under 45.....	158	1,785	60 and over.....	478	20,182

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.....	2,212	2,582	2,159	64,868	74,415	57,473	51 to 100.....	106	97	121	7,569	6,813	8,074
No wage earners.....	25	242	112				101 to 250.....	77	101	78	11,940	15,810	12,111
1 to 5.....	1,102	1,041	774	5,261	2,518	1,963	251 to 500.....	32	40	27	11,082	14,038	8,934
6 to 20.....	521	686	613	5,847	8,181	7,786	501 to 1,000.....	9	11	8	6,480	7,307	4,935
21 to 50.....	336	301	426	11,210	11,592	13,670	1,001 to 2,500.....	4	4		5,479	8,156	

CENSUS OF MANUFACTURES: 1929

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	2,212	2,582	2,159	64,868	74,415	57,473	\$232,386,427	\$213,326,811	\$72,889,659	\$135,488,187	\$120,646,587	\$46,761,380
Less than \$5,000.....	(2)	584	628	(2)	558	1,387	(2)	1,335,817	1,547,102	(2)	833,133	1,062,701
\$5,000 to \$19,999.....	949	825	871	5,666	4,152	11,393	11,161,206	9,101,052	9,318,056	7,361,611	5,638,901	7,255,477
\$20,000 to \$99,999.....	878	824	627	15,034	16,118	18,613	36,734,924	37,708,293	20,734,942	23,040,961	23,024,900	14,123,529
\$20,000 to \$49,999.....	627	(3)	(3)	9,476	(3)	(3)	19,636,138	(3)	(3)	12,527,280	(3)	(3)
\$50,000 to \$99,999.....	251	(3)	(3)	5,558	(3)	(3)	17,098,786	(3)	(3)	10,513,681	(3)	(3)
\$100,000 to \$499,999.....	295	268	(3)	17,572	21,585	(3)	65,203,319	63,667,326	(3)	38,186,061	34,648,907	(3)
\$100,000 to \$249,999.....	200	(3)	(3)	9,357	(3)	(3)	31,757,322	(3)	(3)	19,315,848	(3)	(3)
\$250,000 to \$499,999.....	95	(3)	134	8,215	(3)	23,500	33,446,997	(3)	36,332,890	18,870,213	(3)	21,369,589
\$500,000 to \$999,999.....	56	48	(3)	11,050	11,192	(3)	40,860,111	33,351,061	(3)	24,238,944	20,462,993	(3)
\$1,000,000 and over.....	34	33	4	15,616	20,840	2,571	78,426,867	68,167,362	4,456,669	42,720,610	36,037,573	2,950,084
\$1,000,000 to \$2,499,999.....	26	(3)	(3)	9,122	(3)	(3)	37,398,736	(3)	(3)	22,080,385	(3)	(3)
\$2,500,000 to \$4,999,999.....	5	(3)	(3)	3,054	(3)	(3)	16,907,191	(3)	(3)	7,966,193	(3)	(3)
\$5,000,000 and over.....	3	(3)	(3)	3,440	(3)	(3)	24,120,940	(3)	(3)	12,674,062	(3)	(3)

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	2,212	2,582	64,868	74,415	\$232,386,427	\$213,326,811	\$135,488,187	\$120,646,587
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	935	750	45,963	54,694	193,955,470	166,210,162	111,740,504	92,101,912
Other forms of ownership or control (individual, partnership, etc.).....	1,277	1,832	18,915	19,721	38,430,957	47,116,649	23,747,683	28,454,675
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	319	(1)	23,529	(1)	100,781,601	(1)	54,972,979	(1)
Independent (single-unit).....	1,893	(1)	41,339	(1)	131,604,826	(1)	80,515,208	(1)

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR IMPORTANT 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.....	192,695	104,666	930	71,813	55	22,121	264	10,732	14	765	11,085	88,029	1,494	28,077
1927.....	177,680	101,940	776	68,572	54	18,162	297	14,421	2	11	9,764	75,640	1,495	30,000
1925.....	144,161	97,815	949	80,036	35	9,101	413	11,687	15	243	6,005	46,346	700	13,153
1919 <sup>1</sup> .....	139,091	116,436	1,477	105,944	39	5,543	461	4,706	15	243	2,605	22,655	526	12,480
1914 <sup>1</sup> .....	99,992	93,586	<sup>2</sup> 1,433	<sup>2</sup> 88,939	(3)	(3)	521	4,464	12	183	1,200	6,406	323	6,482
Counties in which aggregate horsepower exceeded 25,000: 1929														
Duval.....	26,864	9,341	78	6,726	6	1,721	9	894			2,033	17,523	241	1,494
Hillsborough.....	26,927	12,416	44	4,374	13	7,847	8	195			1,874	14,511	188	8,694

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



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

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	102,695	104,606	88,020	28,077	Lake.....	3,377	2,004	1,373	25
Alachua.....	2,310	1,058	1,252		Lee.....	1,579	560	1,019	
Baker.....	614	614			Leon.....	2,011	1,421	500	14
Bay.....	2,977	2,875	102	1,300	Levy.....	2,277	2,250	27	80
Bradford.....	191	170	15	(?)	Liberty.....	612			
Brevard.....	842	285	557		Madison.....	547	366	181	
Broward.....	2,289	398	1,891		Manatee.....	2,602	2,200	402	172
Calhoun.....	630	617	13		Marion.....	2,778	1,936	837	
Charlotte.....	374	130	244		Martin.....	1,068	1,007	46	14
Citrus.....	353	315	38		Monroe.....	1,283	816	467	115
Clay.....	204	190	14	13	Nassau.....	878	725	148	
Columbia.....	693	457	236		Okaloosa.....	334	181	153	
Dade.....	13,604	2,754	10,850	98	Orange.....	5,401	1,701	3,700	60
De Soto.....	2,244	1,448	796	108	Osceola.....	2,314	2,127	187	2,256
Duval.....	26,864	9,341	17,523	1,494	Palm Beach.....	4,275	953	3,322	
Escambia.....	11,314	7,679	3,635	1,183	Pasco.....	2,283	2,045	238	3,163
Flagler.....	174	166	8		Pinellas.....	7,761	691	7,100	
Franklin.....	970	786	184	38	Polk.....	9,096	5,345	3,751	1,080
Gadsden.....	2,889	2,747	142	817	Putnam.....	3,770	3,154	616	3,302
Gilchrist.....	115	115			St. Johns.....	3,730	269	3,461	
Gulf.....	667	667			St. Lucie.....	1,176	30	1,146	
Hamilton.....	723	417	306		Sarasota.....	1,004	790	214	
Hardee.....	354	60	294		Seminole.....	3,029	1,120	1,909	
Hernando.....	343	237	106		Sumter.....	1,022	935	87	87
Highlands.....	2,003	1,913	90	33	Suwannee.....	887	817	70	
Hillsborough.....	26,927	12,416	14,511	8,694	Taylor.....	7,290	6,966	333	2,020
Holmes.....	309	309	(?)		Union.....	360	360		
Indian River.....	302	88	214		Volusia.....	3,868	1,756	2,112	50
Jackson.....	1,354	1,062	292		Wakulla.....	453	453		
Jefferson.....	980	913	67		Walton.....	1,849	1,832	17	18
Lafayette.....	25	25			Washington.....	1,561	1,447	114	1,250
					All other counties <sup>4</sup> .....	8,428	7,549	870	1,584

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.  
<sup>2</sup> The item for Bradford County is included in that for "All other counties" to avoid disclosing data for a single establishment.  
<sup>3</sup> The item for electric motors is included in that for prime movers to avoid disclosing data for a single establishment.  
<sup>4</sup> Collier, Dixie, Glades, Hendry, Okeechobee, and Santa Rosa Counties.

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	228,011	\$954,210	141,771	119,491	268,300	162,021	71,995
Anthracite (tons, 2,240 pounds).....	2,231	19,812	( <sup>3</sup> )	2,266	5,110	16,489	6,582
Bituminous (tons, 2,000 pounds).....	225,812	934,398	( <sup>3</sup> )	116,953	262,577	143,553	64,623
Coke (tons, 2,000 pounds).....	34,817	282,058	( <sup>4</sup> )	( <sup>4</sup> )	36,334	17,522	4,997
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	27,536,313	1,178,351	( <sup>4</sup> )	( <sup>4</sup> )	16,537,668	5,937,708	2,071,986
Gasoline and kerosene (gallons) <sup>5</sup> .....	224,333	41,801	( <sup>4</sup> )	( <sup>4</sup> )	1,200,192		
Gas, natural (M cubic feet).....			( <sup>4</sup> )	( <sup>4</sup> )			
Gas, manufactured (M cubic feet).....	82,594	77,339	( <sup>4</sup> )	( <sup>4</sup> )	20,725	9,560	37,291
Other fuels.....		220,783	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours).....	98,600,142	2,040,763	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Total cost of fuel and purchased energy.....		7,479,805	\$5,860,246	( <sup>6</sup> )	\$4,231,373	\$1,358,527	\$723,587

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

## CENSUS OF MANUFACTURES: 1929

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

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	2,212	6,477	64,868	104,660	88,029	\$14,068,356	\$54,582,198	\$92,103,202	\$4,795,038	\$232,386,427	\$135,488,187
Awnings, tents, sails, and canvas covers.....	19	38	104	-----	88	66,376	105,643	250,629	2,230	548,904	296,129
Baskets and rattan and willow ware, not including furniture.....	7	18	302	042	-----	26,013	155,339	284,216	-----	620,318	336,102
Beverages.....	130	137	485	53	1,766	295,202	586,585	1,911,035	75,189	4,579,640	2,598,416
Boxes, cigar, wooden.....	6	35	686	325	622	124,244	511,006	609,068	15,522	1,782,506	1,167,916
Boxes, wooden, except cigar boxes.....	12	44	1,030	2,365	407	124,410	636,669	1,102,904	13,528	2,626,975	1,410,543
Bread and other bakery products.....	187	178	1,724	2	3,443	363,831	1,986,169	4,853,542	262,172	10,656,284	5,540,570
Brooms.....	6	10	69	125	26	25,500	48,281	88,632	6,096	197,915	103,187
Butter.....	4	2	10	70	127	( <sup>3</sup> )	14,220	318,231	7,815	405,756	79,710
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	7	15	188	59	92	22,335	57,425	305,102	14,241	546,975	227,632
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	46	127	1,735	477	638	240,334	962,865	3,231,347	40,046	6,116,663	2,839,270
Car and general construction and repairs, electric-railroad repair shops.....	5	10	106	-----	304	23,445	124,780	95,882	2,379	246,486	148,225
Car and general construction and repairs, steam-railroad repair shops.....	22	256	3,157	2,830	10,921	718,107	4,992,961	3,052,132	422,830	9,186,089	5,711,008
Caskets, coffins, burial cases, and other morticians' goods.....	4	8	42	60	117	21,170	49,947	103,232	1,067	236,132	130,933
Cigars and cigarettes.....	70	543	12,072	10	435	1,359,794	12,164,810	15,057,832	40,715	41,086,735	25,088,188
Clay products (other than pottery) and nonclay refractories.....	7	14	123	495	73	25,822	91,645	12,833	63,377	278,849	202,639
Clothing (except work clothing, men's, youths', and boys', not elsewhere classified).....	3	-----	22	-----	4	-----	14,770	6,327	75	29,289	22,887
Clothing, women's, not elsewhere classified.....	7	13	100	-----	19	21,608	52,483	116,242	1,408	240,288	122,038
Coffee and spice, roasting and grinding.....	26	29	118	-----	519	102,701	126,758	3,918,166	25,344	5,268,464	1,314,934
Compressed and liquefied gases.....	4	19	16	22	494	37,700	20,101	18,209	19,696	208,021	170,116
Concrete products.....	30	41	239	5	981	310,809	344,793	13,262	945,625	587,570	
Confectionery.....	16	34	113	-----	142	43,492	74,208	191,443	6,320	483,025	285,202
Cooperage.....	17	30	375	940	33	49,114	221,303	516,350	936	965,345	448,059
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	16	31	132	-----	212	83,929	169,437	727,325	4,007	1,110,330	378,998
Electrical machinery, apparatus, and supplies.....	6	6	35	-----	27	19,940	35,272	73,890	6,483	186,715	106,342
Feeds, prepared, for animals and fowls.....	5	6	25	-----	240	8,400	28,240	143,140	6,268	319,050	160,642
Fertilizers.....	24	233	1,084	1,645	4,784	593,641	979,028	10,571,216	153,224	15,700,243	5,035,803
Flavoring extracts and flavoring sirups.....	5	8	6	2	22	12,480	0,139	28,104	405	61,000	32,551
Flour and other grain-mill products.....	4	1	5	76	75	( <sup>3</sup> )	3,464	29,947	1,088	42,490	11,456
Foundry and machine-shop products, not elsewhere classified.....	37	83	372	155	1,521	226,925	430,231	887,964	31,235	2,405,519	1,486,320
Furniture, including store and office fixtures.....	15	21	122	-----	539	50,085	160,480	174,096	4,600	444,831	266,135
Gas, manufactured, illuminating and heating.....	21	207	476	4,641	2,729	388,998	631,272	500,779	1,000,396	4,909,634	3,408,469
Ice cream.....	59	120	279	200	2,872	234,090	365,091	1,602,808	113,231	3,298,168	1,582,129
Ice, manufactured.....	108	352	1,461	15,982	26,236	635,403	1,723,106	615,762	1,347,914	8,745,720	6,782,044
Lumber and timber products, not elsewhere classified.....	302	785	17,438	56,138	1,872	2,014,450	12,666,872	9,862,003	109,775	36,912,873	26,941,095
Macaroni, spaghetti, vermicelli, and noodles.....	4	-----	15	-----	72	-----	11,570	41,312	2,616	84,266	40,338
Marble, granite, slate, and other stone products.....	6	12	60	-----	403	29,601	69,771	95,938	6,481	242,487	140,068
Mattresses and bed springs, not elsewhere classified.....	10	19	77	-----	405	33,539	88,909	223,349	4,290	456,597	228,968
Meat packing, wholesale.....	6	31	107	160	638	73,956	107,280	1,962,194	27,201	2,538,888	549,493
Paints and varnishes.....	8	26	34	-----	193	61,442	44,238	292,506	2,069	547,659	252,484
Patent or proprietary medicines and compounds.....	10	55	93	-----	289	112,542	82,587	461,446	4,585	1,090,794	634,763
Peanuts, walnuts, and other nuts, processed or shelled.....	3	11	73	245	157	17,748	31,193	655,853	1,645	763,841	106,343
Photo-engraving, not done in printing establishments.....	6	10	28	-----	54	35,882	70,364	19,900	2,154	188,873	166,819
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	95	205	878	2,908	8,115	552,480	1,084,965	2,498,337	70,403	5,130,618	2,570,878
Poultry killing, dressing, and packing, wholesale.....	3	4	19	-----	-----	4,100	13,800	231,151	798	283,893	51,944
Printing and publishing, book and job.....	116	163	652	28	930	403,428	902,846	1,508,052	36,635	3,794,512	2,249,825
Printing and publishing, newspaper and periodical.....	158	1,359	1,404	5	6,640	2,683,232	2,553,440	2,610,309	169,006	11,726,493	9,547,178
Sand-lime brick.....	3	6	14	386	110	8,267	7,405	9,125	3,141	39,937	27,671
Sausage, meat puddings, headcheese, etc., and sausage castings, not made in meat-packing establishments.....	3	3	13	-----	67	4,500	13,100	143,206	4,110	202,953	55,637
Ship and boat building, steel and wooden, including repair work.....	30	107	740	1,439	4,208	276,409	933,494	932,181	30,003	2,916,848	1,954,664
Signs and advertising novelties.....	13	101	203	-----	15	157,106	185,470	156,651	5,309	1,433,077	1,271,117
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	14	25	137	-----	379	89,704	198,295	251,206	6,195	739,953	482,492
Turpentine and rosin.....	325	521	13,788	653	2	635,448	5,090,444	3,307,932	66,491	11,727,809	8,353,386
Wood distillation and charcoal manufacture.....	9	76	509	1,564	320	136,522	476,369	630,326	112,963	2,241,928	1,448,649
Wood preserving.....	4	39	269	468	406	108,368	245,667	3,064,935	60,069	4,294,960	1,169,956
Other industries.....	74	229	1,504	8,902	2,144	600,288	1,882,679	11,962,002	359,095	20,588,634	8,267,537

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

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

<sup>3</sup> Not including data for 202 employees of central administrative offices, with salaries aggregating \$523,543. See GENERAL EXPLANATIONS—Persons Engaged.

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

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

[This table presents for each important industrial county in the State, except Duval 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>DADE COUNTY</b>											
All industries, total.....	210	841	2,398	2,754	10,850	\$1,064,619	\$3,318,501	\$4,456,493	\$523,131	\$14,708,222	\$9,728,598
Awnings, tents, sails, and canvas covers.....	7	26	64	-----	43	46,922	66,314	153,030	1,236	347,405	193,139
Beverages.....	5	9	40	-----	132	39,817	66,660	241,917	8,741	469,545	218,887
Bread and other bakery products.....	20	53	208	-----	540	80,500	320,265	672,750	49,632	1,766,949	1,044,667
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	9	17	109	-----	78	15,390	62,461	320,197	5,356	512,461	186,608
Clothing, women's, not elsewhere classified.....	4	7	59	-----	5	12,708	34,321	40,096	444	120,679	71,169
Coffee and spice, roasting and grinding.....	4	2	9	-----	28	( <sup>1</sup> )	10,847	158,724	2,361	204,142	43,057
Concrete products.....	8	11	72	-----	229	25,925	77,728	99,473	5,650	221,892	156,769
Foundry and machine-shop products, not elsewhere classified.....	5	2	24	-----	16	( <sup>1</sup> )	36,900	10,255	1,802	80,286	77,139
Furniture, including store and office fixtures.....	7	12	69	-----	366	27,060	88,816	79,190	2,986	223,738	141,662
Ice cream.....	9	22	53	-----	1,063	29,633	80,783	297,246	23,372	687,782	367,164
Ice, manufactured.....	16	44	223	1,460	3,286	99,042	313,084	73,160	186,008	1,147,365	888,197
Lumber and timber products, not elsewhere classified.....	3	-----	11	-----	180	-----	8,779	2,933	500	19,326	15,863
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	11	35	140	-----	1,742	92,483	199,606	284,417	14,260	758,585	459,608
Printing and publishing, book and job.....	21	32	129	-----	159	76,500	189,094	148,500	7,434	561,227	405,263
Printing and publishing, newspaper and periodical.....	16	354	230	-----	5	653,689	507,987	472,035	24,548	2,672,862	2,076,270
Ship and boat building, steel and wooden, including repair work.....	6	15	102	-----	18	43,118	176,594	143,104	2,802	547,849	401,943
Other industries.....	59	200	856	997	2,072	401,680	1,078,262	1,250,496	185,909	4,417,129	2,980,724
<b>DUVAL COUNTY</b>											
All industries, total.....	232	1,246	7,065	9,341	17,523	\$2,941,817	\$7,815,448	\$32,000,559	\$943,599	\$59,521,101	\$26,576,943
<b>HILLSBOROUGH COUNTY</b>											
All industries, total.....	287	1,222	14,286	12,416	14,511	\$2,962,490	\$15,027,406	\$22,692,036	\$877,901	\$58,395,138	\$34,825,201
Beverages.....	10	17	60	-----	222	42,402	78,125	217,861	8,994	576,825	349,970
Bread and other bakery products.....	43	20	320	-----	449	39,422	333,998	758,594	36,367	1,684,451	889,400
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	3	13	91	-----	91	25,238	56,327	332,353	5,269	707,073	369,451
Cigars and cigarettes.....	45	467	10,482	10	296	1,186,522	10,950,066	12,650,310	30,014	35,407,681	22,727,657
Clothing, women's, not elsewhere classified.....	3	6	41	-----	10	8,840	18,162	67,176	964	119,609	51,469
Coffee and spice, roasting and grinding.....	12	8	25	-----	160	35,255	30,152	536,666	4,298	737,933	196,069
Concrete products.....	4	4	15	-----	228	7,047	10,689	23,980	1,074	64,840	39,783
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	7	28	-----	19	26,527	30,794	88,818	284	124,000	89,807
Fertilizers.....	5	73	259	100	426	179,475	281,152	2,535,056	61,304	4,050,420	1,463,060
Ice cream.....	6	14	44	-----	255	39,249	56,411	319,207	11,180	570,406	240,019
Ice, manufactured.....	13	47	105	1,325	2,027	75,198	123,120	45,317	126,588	603,092	431,187
Lumber and timber products, not elsewhere classified.....	5	20	262	1,255	-----	43,866	202,104	307,421	5,854	791,719	478,444
Macaroni, spaghetti, vermicelli, and noodles.....	4	-----	15	-----	72	-----	11,670	41,312	2,616	84,206	40,338
Mattresses and bed springs, not elsewhere classified.....	3	5	18	-----	173	8,819	24,267	53,695	1,166	100,376	45,515
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	7	20	83	485	255	60,606	105,305	287,665	2,208	558,154	268,281
Printing and publishing, book and job.....	20	27	134	3	198	85,682	156,709	551,248	8,133	970,500	411,119
Printing and publishing, newspaper and periodical.....	12	194	197	-----	594	460,610	360,785	351,186	21,672	1,898,787	1,495,909
Other industries.....	68	280	2,107	9,238	9,066	668,232	2,197,670	3,529,171	549,916	9,395,717	5,286,630

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

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

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

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

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

## JACKSONVILLE

[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—"Car and general construction and repairs, steam-railroad repair shops," as measured by number of wage earners, and "Motor vehicles, not including motorcycles," as measured by value of products—without disclosing, exactly or approximately, 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.....	209	1,128	6,240	8,534	15,352	\$2,000,387	\$7,161,470	\$20,042,560	\$807,828	\$55,108,183	\$24,597,805
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## MIAMI

All industries, total.....	170	735	1,905	2,051	8,670	\$1,461,515	\$2,614,244	\$3,495,440	\$448,875	\$12,390,042	\$8,452,327
Awnings, tents, sails, and canvas covers.....	7	26	64		43	46,022	66,314	153,030	1,236	347,405	193,130
Beverages <sup>1</sup> .....	5	9	40		132	39,817	66,660	241,917	8,741	460,545	218,887
Bread and other bakery products.....	17	44	173		519	67,311	258,556	552,169	45,306	1,490,818	893,343
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	4	10	63		28	6,840	33,561	138,002	3,741	235,529	92,886
Clothing, women's, not elsewhere classified.....	4	7	59		9	12,708	34,321	40,006	444	120,679	71,169
Coffee and spice, roasting and grinding.....	4	2	9		28	(2)	10,847	158,724	2,361	204,142	43,087
Foundry and machine-shop products, not elsewhere classified.....	5	2	24	16	50	36,000	36,000	10,255	1,892	89,286	77,130
Ice cream <sup>1</sup> .....	9	22	83		1,063	49,716	80,783	267,246	23,372	687,782	367,164
Ice, manufactured.....	12	39	191	1,220	2,972	86,130	206,825	93,099	164,645	1,009,969	782,225
Printing and publishing, newspaper and periodical.....	10	331	208		386	637,199	480,356	461,033	23,637	2,471,440	1,086,770
Ship and boat building, steel and wooden, including repair work.....	6	15	102	18	200	43,118	176,594	143,104	2,802	547,849	401,643
Other industries <sup>2</sup> .....	87	228	910	797	2,731	471,694	1,108,527	1,226,895	170,698	4,722,198	3,324,605

## TAMPA

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

All industries, total.....	236	1,096	13,144	11,080	9,910	\$2,744,368	\$13,834,191	\$19,910,205	\$738,714	\$53,107,490	\$32,458,577
Beverages <sup>4</sup> .....	10	17	60		222	42,402	78,125	217,861	8,994	576,825	340,070
Bread and other bakery products.....	40	20	302		440	39,422	313,830	705,369	33,904	1,590,098	850,825
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	3	13	91		91	25,238	66,327	332,353	5,269	707,073	360,451
Cigars and cigarettes.....	45	407	10,482	10	206	1,186,522	10,950,066	12,650,310	30,014	35,407,981	22,727,657
Clothing, women's, not elsewhere classified.....	3	6	41		10	8,840	18,162	67,176	664	119,609	51,469
Coffee and spice, roasting and grinding.....	12	8	25		160	35,255	30,152	536,666	4,298	737,933	196,969
Concrete products.....	4	4	15		228	7,047	10,689	28,980	1,074	64,840	39,786
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	7	28		19	26,527	30,794	83,818	284	124,009	39,907
Ice cream.....	6	14	44		255	39,249	56,411	319,207	11,180	570,406	240,019
Macaroni, spaghetti, vermicelli, and noodles.....	4		15		72		11,670	41,312	2,616	84,266	40,338
Mattresses and bed springs, not elsewhere classified.....	3	5	18		173	8,819	24,267	53,695	1,166	100,376	45,515
Printing and publishing, book and job.....	20	27	134	3	168	85,682	156,709	551,248	8,133	970,500	411,119
Printing and publishing, newspaper and periodical <sup>1</sup> .....	12	194	197		594	460,610	360,785	351,186	21,672	1,868,787	1,495,000
Other industries.....	74	321	1,711	11,067	7,210	789,490	1,787,374	4,002,707	111,048	10,260,338	5,676,583

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

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

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

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

<sup>3</sup> See footnote 1.

<sup>4</sup> The items for each of the 2 industries covered by this footnote include data for 2 establishments located outside the city, to avoid disclosing the figures reported by the establishments in question.

# GEORGIA

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	4,179	158,774	641,899	253,523	388,376	\$110,435,015	\$427,805,088	\$412,632,095	\$15,172,393	\$722,453,803	\$294,648,715
1927	3,175	154,108	505,899	250,932	314,967	108,118,193	360,261,684	344,375,514	15,886,170	609,917,600	240,055,976
1925	2,876	141,173	523,334	272,028	251,306	99,210,003	399,351,258	( <sup>5</sup> )	( <sup>5</sup> )	648,852,294	249,501,036
1923	3,058	137,476	449,888	256,457	193,431	92,143,788	381,769,333	( <sup>5</sup> )	( <sup>5</sup> )	604,452,862	222,683,529
1921	2,809	98,264	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	69,915,971	243,939,104	( <sup>5</sup> )	( <sup>5</sup> )	381,296,506	137,357,402
1919	4,303	123,441	433,719	276,151	157,568	101,180,339	440,490,057	423,431,511	12,058,546	693,237,096	252,747,039
1914	4,639	104,461	357,130	280,072	76,468	38,128,407	160,088,009	154,553,903	5,529,706	253,270,511	93,181,902
1909	4,792	104,588	206,818	272,928	23,890	34,804,818	116,969,764	112,667,576	4,302,189	202,803,292	85,893,498
1904	3,219	92,749	219,121	212,657	0,464	27,392,442	83,624,504	80,752,937	2,871,567	151,040,455	67,415,051
1899	3,015	83,336	136,227	134,559	1,668	19,958,153	49,356,295	( <sup>5</sup> )	( <sup>5</sup> )	94,532,368	45,176,072
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	31.0	3.0	13.4	1.0	23.3	2.1	18.7	10.8	-4.5	18.5	18.0
1925-1927	10.4	9.2	8.1	-7.8	25.3	9.0	-9.8			-6.0	0.1
1923-1925	-6.0	2.7	10.3	6.1	29.9	7.7	4.6			7.3	12.0
1921-1923	8.9	39.9				31.8	56.5			58.5	62.1
1919-1921	-41.5	-20.4				-30.9	-44.6			-45.0	-45.7
1919-1929	-13.0	28.6	48.0	-8.2	146.5	9.1	-2.9	-3.7	25.8	4.2	16.6
1909-1919	0.2	18.0	46.1	1.2	559.6	190.7	276.6	280.3	180.3	241.7	194.3
1899-1909	58.9	25.5	117.9	2.8	1,352.3	74.4	137.0			114.6	90.1

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

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State, total	2,908,506	4,179	158,774	641,899	\$110,435,015	\$427,805,088	\$412,632,095	\$15,172,393	\$722,453,803	\$294,648,715
<i>Counties<sup>3</sup></i>										
Appling	13,314	49	786	531	319,655	274,552	271,707	2,845	870,941	605,389
Atkinson	6,894	23	547	380	212,520	147,304	144,044	2,360	547,450	400,155
Bacon	7,055	14	297	225	133,085	133,848	131,448	2,400	372,008	238,100
Baldwin	22,878	16	305	1,347	165,735	355,844	283,526	72,318	947,962	592,118
Barrow	12,401	20	681	1,221	289,031	1,416,542	1,374,496	42,046	2,150,641	734,090
Bartow	25,364	46	1,295	12,852	896,822	3,133,718	2,958,626	175,092	5,136,833	2,003,115
Ben Hill	13,047	13	633	2,527	504,565	825,010	708,904	116,106	1,500,073	735,063
Berrien	14,046	14	372	195	159,965	128,721	125,170	1,545	431,513	304,792
Bibb	77,042	114	7,468	39,519	6,193,008	23,686,117	22,536,204	1,049,913	37,735,344	14,149,227
Bleckley	9,133	8	161	568	83,761	268,097	249,325	8,772	429,896	171,789
Brantley	6,895	24	779	97	332,429	228,146	223,140	5,006	772,864	544,718
Brooks	21,330	22	537	1,854	297,657	645,417	612,136	33,281	1,325,748	680,331
Bryan	5,952	25	429	88	182,499	127,015	117,879	10,036	419,032	291,117
Bulloch	26,509	33	650	1,136	290,332	284,320	275,086	9,234	870,008	594,778
Burke	29,224	31	426	1,801	288,372	720,607	715,190	5,317	1,430,217	715,710
Calhoun	10,576	20	312	911	137,347	690,613	686,640	3,973	990,259	305,046
Camden	6,338	14	573	390	174,390	248,431	241,257	7,174	682,373	433,942
Candler	8,991	9	162	255	59,896	63,626	61,801	1,825	199,206	135,640
Carroll	34,272	40	1,524	5,018	788,970	3,615,184	3,495,468	119,716	5,450,340	1,835,156
Catoosa	9,421	5	30	163	19,575	12,657	12,657		39,649	26,992

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) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties</i> <sup>3</sup> —Continued										
Charlton.....	4,381	18	648	231	\$249,854	\$150,578	\$147,567	\$3,011	\$526,683	\$376,105
Chatham.....	105,431	140	5,757	30,321	4,893,999	37,238,776	36,280,068	958,708	51,454,433	14,215,657
Chattahoochee.....	8,894	5	19	160	8,637	32,488	32,488	—	60,314	27,826
Chattooga.....	15,407	12	1,968	8,642	1,163,007	4,810,468	4,579,719	230,749	7,271,744	2,461,276
Cherokee.....	20,003	46	1,361	5,861	958,947	3,402,651	3,280,151	122,500	6,000,424	2,603,773
Clarke.....	25,613	45	1,936	8,595	1,164,473	5,466,574	5,245,080	221,494	9,134,870	3,068,305
Clay.....	6,943	12	125	601	54,093	581,268	578,005	3,263	846,085	264,817
Clayton.....	10,260	3	22	60	15,524	38,687	38,361	326	75,280	36,593
Clinch.....	7,015	34	1,474	918	578,483	319,094	315,204	4,790	1,270,403	969,409
Cobb.....	35,408	35	2,003	5,495	1,369,125	2,760,529	2,603,460	157,069	6,050,397	3,205,898
Coffee.....	19,739	40	810	906	412,303	426,007	411,986	14,021	1,164,806	738,889
Colquitt.....	30,622	45	1,143	4,715	608,217	6,136,108	6,035,163	100,945	8,233,153	2,097,045
Columbia.....	8,793	13	359	1,497	216,523	228,420	190,733	37,687	513,844	285,424
Cook.....	11,311	14	245	286	102,743	74,230	69,924	4,306	247,176	172,946
Coweta.....	25,127	32	2,375	10,315	1,513,087	4,800,778	4,584,059	225,719	9,278,441	4,468,663
Crawford.....	7,020	20	170	752	69,092	78,776	78,776	—	212,132	133,356
Crisp.....	17,343	20	644	2,066	347,092	2,273,493	2,236,652	36,841	3,142,848	869,355
Dade.....	4,146	7	41	195	16,650	19,071	18,771	300	74,260	55,189
Dawson.....	3,502	7	26	132	14,480	9,300	9,300	—	38,600	20,300
Decatur.....	23,622	29	896	2,110	524,210	973,995	937,765	35,330	2,326,109	1,353,014
De Kalb.....	70,278	22	1,254	5,513	1,697,938	1,697,938	1,601,267	96,663	3,720,978	2,032,048
Dodge.....	21,599	19	865	1,082	382,580	742,369	607,011	45,358	1,476,552	734,183
Dooly.....	18,025	12	196	498	98,396	283,807	278,641	5,166	555,814	272,007
Dougherty.....	22,306	39	1,246	6,840	814,516	4,308,110	4,148,060	160,020	6,770,033	2,461,923
Douglas.....	9,461	13	305	1,621	174,626	463,004	443,665	19,409	845,959	382,955
Early.....	18,273	15	248	813	121,183	301,575	290,481	2,094	510,824	218,249
Echols.....	2,744	9	217	66	92,877	70,843	70,843	—	220,171	149,328
Effingham.....	10,104	26	699	789	315,933	181,143	174,262	6,881	605,614	514,471
Elbert.....	18,485	20	887	2,788	571,300	1,160,621	1,090,449	70,172	2,274,859	1,114,238
Emanuel.....	24,101	41	601	826	239,776	468,845	460,961	7,884	969,788	500,943
Evans.....	7,102	16	207	290	97,255	121,676	115,163	6,423	302,646	181,070
Fayette.....	8,665	7	31	258	16,347	40,835	40,610	325	75,938	35,103
Floyd.....	48,697	65	5,904	31,949	4,273,754	12,231,597	11,717,434	514,163	20,936,398	8,704,801
Forsyth.....	10,624	5	14	95	7,700	8,760	8,500	260	36,500	27,740
Franklin.....	15,902	8	187	958	139,248	725,107	700,048	25,059	1,022,835	297,728
Fulton.....	318,587	570	24,744	102,283	24,539,683	123,587,873	120,408,690	3,179,183	214,785,945	91,198,072
Gilmer.....	7,344	29	161	1,260	95,703	499,654	495,370	4,284	889,338	389,684
Glacock.....	4,388	7	48	215	30,800	35,550	35,550	—	90,200	54,650
Glynn.....	19,400	34	1,511	6,480	1,423,493	5,734,571	5,655,470	70,101	6,620,820	3,886,258
Gordon.....	16,840	33	623	2,739	432,185	1,136,150	1,047,544	88,606	2,048,820	912,670
Grady.....	19,200	22	331	388	163,320	273,192	265,057	7,535	593,717	320,625
Greene.....	12,616	14	802	2,140	404,039	1,092,463	1,026,919	65,544	1,938,004	845,631
Gwinnett.....	27,853	30	1,113	3,511	678,303	4,024,207	3,967,253	56,954	5,370,493	1,346,286
Hall.....	30,313	20	2,148	13,050	1,490,518	4,663,739	4,349,304	314,435	7,281,738	2,617,990
Hancock.....	13,070	33	333	1,857	145,244	370,224	357,474	12,750	680,119	309,895
Haralson.....	13,263	13	461	1,369	271,076	719,895	697,627	22,268	1,175,353	455,458
Harris.....	11,140	24	156	604	76,425	183,295	182,845	450	391,075	207,780
Heard.....	9,102	11	83	254	38,983	33,518	33,256	262	125,556	92,008
Henry.....	15,924	14	397	1,319	218,419	740,130	700,761	39,369	1,209,005	468,875
Houston.....	11,280	16	326	6,593	256,982	560,564	339,799	220,765	1,363,039	802,475
Irwin.....	12,199	12	274	821	109,711	299,210	282,945	13,265	547,316	251,100
Jackson.....	21,609	14	1,205	2,120	559,118	1,711,616	1,636,908	74,708	2,624,869	913,253
Jasper.....	8,594	16	199	1,020	77,019	256,926	249,275	7,651	433,669	176,743
Jeff Davis.....	8,115	29	487	1,165	877,165	149,009	140,642	8,367	503,898	354,889
Jefferson.....	20,727	57	404	1,886	185,342	432,595	422,028	10,567	955,336	522,741
Jenkins.....	12,908	21	400	1,415	217,261	464,094	448,439	15,655	937,943	473,939
Johnson.....	12,681	16	298	298	132,208	159,118	155,568	3,550	414,921	255,803
Lamar.....	9,745	10	748	2,486	482,070	2,136,181	2,057,859	78,322	3,114,664	978,483
Lanier.....	5,100	10	349	37	130,933	72,435	70,860	1,575	291,353	218,918
Laurens.....	32,693	34	765	2,655	345,437	1,112,838	1,079,308	33,530	1,969,516	856,078
Lee.....	8,328	4	53	295	23,340	83,548	83,548	—	144,244	60,606
Liberty.....	8,153	21	303	327	134,986	194,093	98,583	5,510	396,546	292,453
Lincoln.....	7,847	22	165	820	72,983	212,546	212,431	115	438,987	226,441
Long.....	4,180	12	153	2	63,948	57,045	54,551	2,494	187,143	130,098
Lowndes.....	29,994	45	1,351	4,370	665,297	2,288,561	2,139,912	98,649	3,995,467	1,756,606
Lumpkin.....	4,927	3	18	66	5,828	8,020	8,020	—	19,115	11,096
McDuffie.....	9,014	25	206	1,483	152,455	413,032	402,508	10,524	757,749	344,717
McIntosh.....	5,763	11	858	531	404,630	329,099	323,324	5,775	1,214,226	855,127
Macon.....	16,643	15	246	1,172	118,147	867,076	837,746	19,330	1,208,653	380,977
Madison.....	14,921	9	40	490	12,002	183,086	178,420	4,666	245,022	61,936
Miller.....	9,076	9	119	155	50,358	58,188	57,283	900	166,244	108,061
Milton.....	6,730	3	12	62	5,700	5,500	5,500	—	14,780	9,280
Mitchell.....	23,620	17	667	2,809	264,185	1,538,798	1,489,879	48,919	2,126,099	587,301
Monroe.....	11,606	33	655	3,374	330,220	2,423,982	2,361,274	62,708	3,322,834	898,842
Montgomery.....	10,020	14	421	438	282,085	136,134	131,513	6,621	470,685	338,551
Morgan.....	12,488	6	45	444	22,247	134,965	133,887	1,078	193,521	88,556
Murray.....	9,215	13	91	545	42,216	74,029	70,253	3,776	156,624	82,505
Muscogee.....	57,558	96	12,185	48,553	8,777,275	29,106,700	27,778,978	1,327,731	53,524,409	24,417,700
Oglethorpe.....	12,927	18	450	1,637	278,788	593,346	584,518	8,828	1,294,843	701,497
Paulding.....	12,327	14	293	705	138,765	344,904	327,544	17,360	623,822	278,018
Peach.....	10,268	19	234	2,359	134,571	382,936	367,004	15,932	812,048	429,112

See footnotes at end of table.

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

COUNTY OR CITY	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties <sup>3</sup>—Continued</i>										
Pierce	12,522	27	626	723	\$264,974	\$566,008	\$588,879	\$7,120	\$1,296,728	\$700,720
Pike	10,853	11	73	303	27,649	210,756	207,763	2,993	350,791	140,035
Polk	25,141	20	2,282	18,676	1,016,879	5,852,623	5,397,038	455,585	9,135,071	3,283,043
Pulaski	9,005	8	111	386	53,101	151,831	142,832	9,049	276,164	124,283
Putnam	8,307	20	353	1,528	228,614	758,721	721,223	37,498	1,338,720	579,999
Quitman	3,820	16	224	834	88,615	187,854	187,854	—	453,614	265,760
Randolph	17,174	18	192	797	104,441	277,066	276,259	807	513,137	236,071
Richmond	72,900	99	5,693	34,576	4,462,753	17,594,421	16,753,074	841,347	27,791,323	10,196,902
Schley	5,347	5	49	144	21,783	223,586	221,586	2,000	321,033	97,447
Screven	20,503	44	428	1,244	231,140	310,274	305,807	4,467	805,654	495,380
Seminole	7,389	7	223	434	80,404	682,511	670,625	2,886	842,399	159,883
Spalding	23,495	34	3,538	12,760	2,288,200	6,079,990	6,656,085	329,904	12,849,941	5,369,951
Stephens	11,740	12	595	1,188	311,377	1,028,066	999,983	28,103	1,703,289	675,173
Stewart	11,114	13	320	1,048	231,329	498,004	497,550	454	1,063,700	570,702
Sumter	26,800	28	471	3,630	355,373	1,201,675	1,252,967	38,698	2,087,097	795,522
Talbot	8,458	21	290	1,278	157,553	309,931	293,540	2,391	663,851	362,920
Taliaferro	6,172	11	117	258	49,762	71,475	70,150	1,325	137,215	125,748
Tattnall	15,411	34	622	344	171,030	195,563	172,202	23,271	473,711	278,149
Telfair	14,997	30	755	1,230	308,408	350,996	341,740	18,247	1,003,915	648,919
Terrell	18,290	22	239	1,621	116,455	1,219,452	1,192,720	26,732	1,611,699	392,147
Thomas	32,612	41	999	2,841	618,008	1,144,397	1,096,125	48,272	2,494,382	1,349,985
Tift	16,069	23	631	1,317	292,980	1,105,841	1,071,290	34,551	1,805,086	699,245
Toombs	17,165	29	434	927	209,638	471,260	455,189	16,071	957,872	486,612
Trautten	7,488	7	265	78	85,355	164,028	162,478	1,550	349,283	185,265
Troup	36,752	58	5,780	22,354	3,284,542	16,408,893	15,758,700	650,193	26,132,663	9,723,770
Turner	11,106	12	360	786	153,268	302,430	286,408	15,992	630,223	336,703
Twiggs	8,372	10	123	573	71,041	152,472	152,472	—	424,018	272,446
Union	6,340	31	65	415	38,414	179,126	179,126	—	294,800	115,674
Upson	19,509	34	3,855	21,132	2,028,008	7,563,805	7,170,328	393,567	11,691,931	4,128,036
Walker	26,206	32	3,482	9,153	2,715,433	10,441,810	10,109,389	332,427	16,500,898	6,068,682
Walton	21,118	22	939	4,145	554,960	2,515,722	2,403,331	112,391	4,048,240	1,532,518
Ware	26,558	72	2,673	9,833	2,304,966	4,623,834	4,483,479	140,355	7,846,049	3,222,215
Warren	11,181	13	99	363	40,133	306,030	306,035	995	427,731	120,701
Washington	25,030	43	934	2,862	485,427	700,561	692,041	8,520	1,620,284	919,673
Wayne	12,647	35	947	1,212	437,903	418,886	413,354	5,532	1,224,871	805,985
Webster	5,032	5	100	215	55,640	36,140	36,140	—	109,000	72,860
Wheeler	9,149	5	186	26	80,840	57,756	50,056	7,700	188,441	130,085
Whitfield	20,808	62	2,060	7,555	1,585,630	6,493,172	6,253,171	240,001	10,396,385	3,903,213
Wilcox	13,439	15	389	227	157,449	133,557	129,236	7,321	399,167	265,610
Wilkes	15,944	25	316	1,551	181,042	486,550	477,826	8,724	873,440	386,800
Wilkinson	10,844	14	304	761	167,768	112,243	109,520	2,723	413,925	301,682
Worth	21,094	17	482	591	219,585	420,853	414,045	15,808	855,173	425,320
Other counties <sup>4</sup>	185,713	136	6,592	32,720	4,424,364	15,499,682	14,992,775	536,907	26,617,160	11,017,478
<i>Cities having 10,000 inhabitants or more <sup>5</sup></i>										
Albany	14,507	28	720	2,804	496,540	2,208,133	2,137,953	70,180	3,630,541	1,431,408
Athens	18,192	37	1,582	6,402	997,043	4,512,968	4,313,813	199,155	7,613,063	3,100,695
Atlanta <sup>6</sup>	270,360	509	18,509	63,105	18,210,691	72,165,329	70,105,395	2,059,934	136,509,761	64,344,432
Augusta	60,342	84	5,218	13,740	4,166,635	16,763,811	16,170,242	593,569	26,309,117	9,545,308
Columbus	43,131	79	9,852	34,198	6,955,161	20,854,973	19,957,989	896,984	39,664,527	18,809,554
Decatur	13,276	8	55	297	76,996	118,301	109,276	9,025	303,363	185,062
Griffin	10,321	26	2,728	9,387	1,772,913	6,041,159	5,789,094	252,065	11,043,066	5,091,907
Lagrange	20,131	32	4,705	15,857	2,670,185	13,364,495	12,884,294	480,201	21,194,084	7,739,589
Macon	53,829	89	6,126	30,573	5,123,690	18,121,305	17,299,381	821,924	29,612,150	11,490,845
Savannah <sup>8</sup>	85,024	102	3,172	12,333	2,949,662	7,117,436	6,694,151	423,285	14,725,236	7,607,800
Thomasville	11,733	25	684	2,090	463,840	865,426	823,766	41,660	1,946,001	1,080,575
Valdosta	13,482	27	587	2,955	358,846	1,763,403	1,686,199	77,204	2,937,884	1,174,481

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

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

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

<sup>4</sup> Campbell and Milton Counties combined with Fulton County Jan. 1, 1932. Campbell is one of the "Other counties." The figures for Fulton County refer to that county as constituted Dec. 31, 1929.

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

<sup>6</sup> Baker, Butts, Campbell, Fannin, Habersham, Hart, Jones, Marion, Meriwether, Newton, Oconee, Pickens, Rookdale, Taylor, Towns, and White Counties. (See footnote 3.) No manufacturing reported from Banks and Rabun Counties.

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

<sup>8</sup> Because of the amount of manufacturing industry in Atlanta and Savannah, it had been planned to publish statistics by industries for them. It is found, however, that no figures can be given for the most important industries in these cities without disclosing, exactly or approximately, the data reported by individual establishments, and in each city 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. The most important industries in Atlanta were "Cotton goods," as measured by number of wage earners, and "Motor vehicles, not including motorcycles," as measured by value of products; those in Savannah were "Car and general construction and repairs, steam-railroad repair shops," as measured by number of wage earners, and "Bags, other than paper," as measured by value of products.

CENSUS OF MANUFACTURES: 1929

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	175,081	135,395	39,746	3,347	3,303	44	2,003	2,013	280	2,067	2,751	2,216	158,774	121,368	37,406
1919 <sup>1,2</sup>	141,012	114,801	26,211	4,776	4,654	122	1,943	1,901	42	10,852	8,964	1,888	123,441	99,282	24,159
1914 <sup>3</sup>	118,565	101,199	17,366	4,443	4,327	116	1,504	1,481	23	8,157	7,359	798	104,461	88,032	16,429
1909 <sup>4</sup>	118,036	100,245	17,791	5,141	5,026	115	1,385	1,372	13	6,922	6,210	712	104,588	87,637	16,951

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 230; male, 228; female, 2. Other salaried officers and employees—total, 2,285; male, 1,637; female, 648. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	158,774	157,822	159,728	162,585	161,519	156,882	157,022	157,138	158,753	159,602	160,022	158,132	<i>155,393</i>	95.6
1919 <sup>1</sup>	123,441	125,289	121,762	123,458	121,269	<i>116,543</i>	116,940	120,406	120,321	125,305	127,806	129,266	133,022	87.6
1914 <sup>1</sup>	104,461	109,508	113,257	115,286	109,439	103,590	101,939	101,703	100,898	100,934	100,423	98,749	<i>97,751</i>	84.8
1909 <sup>1</sup>	104,588	103,477	107,544	108,271	102,881	<i>98,622</i>	99,445	99,518	102,577	106,033	107,837	109,012	109,839	89.8

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	4,179	158,774	45 and over but under 48.....	100	4,286
Not reported.....	1,216	7,532	48.....	393	14,839
Under 40.....	120	2,204	Over 48 but under 54.....	383	19,138
40.....	216	7,654	54.....	136	3,585
Over 40 but under 44.....	13	222	Over 54 but under 60.....	604	52,714
44 and over but under 45.....	230	3,892	60 and over.....	768	42,708

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.....	4,179	4,803	4,792	158,774	123,441	104,588	51 to 100.....	269	218	210	18,948	15,713	15,331	
No wage earners.....	62	354	231				101 to 250.....	131	165	133	28,537	29,104	20,223	
1 to 5.....	1,976	2,388	2,163	9,876	5,203	5,543	251 to 500.....	84	62	42	27,896	21,974	14,225	
6 to 20.....	920	1,144	1,426	10,760	12,917	16,621	501 to 1,000.....	31	18	15	21,762	11,924	10,501	
21 to 50.....	641	445	569	20,792	14,643	18,099	1,001 to 2,500.....	15		3	20,303		4,045	
							2,501 and over.....		11			14,963		



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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	4,170	4,803	4,792	158,774	123,441	104,588	\$722,453,803	\$693,237,096	\$202,863,232	\$294,648,715	\$252,747,039	\$85,893,498
Less than \$5,000.....	( <sup>2</sup> )	1,394	1,918	( <sup>2</sup> )	1,492	5,303	( <sup>2</sup> )	3,395,058	4,355,414	( <sup>2</sup> )	2,170,588	3,100,327
\$5,000 to \$19,999.....	1,994	1,499	1,624	12,610	6,813	17,719	19,849,744	16,033,483	16,813,566	12,673,890	9,945,772	11,583,613
\$20,000 to \$99,999.....	1,274	1,055	799	24,809	15,586	20,431	56,236,414	45,941,137	34,954,524	32,817,309	24,940,047	17,613,878
\$20,000 to \$49,999.....	855	( <sup>3</sup> )	( <sup>3</sup> )	15,150	( <sup>3</sup> )	( <sup>3</sup> )	27,101,395	( <sup>3</sup> )	( <sup>3</sup> )	17,046,334	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	419	( <sup>3</sup> )	( <sup>3</sup> )	9,659	( <sup>3</sup> )	( <sup>3</sup> )	29,045,019	( <sup>3</sup> )	( <sup>3</sup> )	15,770,975	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	630	538		35,520	20,795		144,444,627	124,493,714		65,549,827	51,593,956	
\$100,000 to \$249,999.....	404	( <sup>3</sup> )	433	17,586	( <sup>3</sup> )	50,207	64,127,204	( <sup>3</sup> )	( <sup>3</sup> )	30,614,429	( <sup>3</sup> )	( <sup>3</sup> )
\$250,000 to \$499,999.....	226	( <sup>3</sup> )		17,934	( <sup>3</sup> )		80,317,363	( <sup>3</sup> )	112,684,673	34,935,398	( <sup>3</sup> )	43,539,772
\$500,000 to \$999,999.....	152	170		23,425	20,311		106,455,861	119,925,987		43,306,423	42,142,492	
\$1,000,000 and over.....	129	147	18	62,401	52,444	10,928	395,467,157	383,447,717	34,054,085	140,301,266	121,954,184	10,055,908
\$1,000,000 to \$2,499,999.....	81	( <sup>3</sup> )	( <sup>3</sup> )	23,006	( <sup>3</sup> )	( <sup>3</sup> )	126,608,718	( <sup>3</sup> )	( <sup>3</sup> )	50,538,376	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	33	( <sup>3</sup> )	( <sup>3</sup> )	27,599	( <sup>3</sup> )	( <sup>3</sup> )	117,280,186	( <sup>3</sup> )	( <sup>3</sup> )	45,369,658	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	15	( <sup>3</sup> )	( <sup>3</sup> )	10,896	( <sup>3</sup> )	( <sup>3</sup> )	151,488,253	( <sup>3</sup> )	( <sup>3</sup> )	44,363,232	( <sup>3</sup> )	( <sup>3</sup> )

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

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	4,170	4,803	158,774	123,441	\$722,453,803	\$693,237,096	\$294,648,715	\$252,747,039
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1,454	1,376	121,711	100,698	645,273,934	622,245,546	252,958,402	217,151,329
Other forms of ownership or control (individual, partnership, etc.).....	2,725	3,427	37,063	22,743	77,179,810	70,991,550	41,690,313	35,595,710
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	512	( <sup>1</sup> )	60,124	( <sup>1</sup> )	355,495,417	( <sup>1</sup> )	130,440,346	( <sup>1</sup> )
Independent (single-unit).....	3,657	( <sup>1</sup> )	98,650	( <sup>1</sup> )	366,958,386	( <sup>1</sup> )	164,208,369	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

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

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy			
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horsepower
The State:			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower
1929.....	641,899	253,523	2,267	158,766	95	53,978	470	10,273	93	30,566	40,521	388,376	3,398	50,727
1927.....	565,890	250,932	1,968	159,678	75	52,691	452	9,421	90	20,142	30,645	314,907	3,711	64,234
1925.....	523,334	272,023	1,900	182,961	75	55,593	509	6,121	89	27,363	22,150	251,306	3,916	62,986
1919 <sup>1</sup> .....	433,719	276,151	2,877	222,296	154	21,346	607	5,603	125	26,906	9,951	167,568	2,008	36,695
1914 <sup>1</sup> .....	357,130	280,672	3,439	245,811	( <sup>2</sup> )	( <sup>2</sup> )	695	7,032	795	27,829	4,315	76,468	1,110	26,682
Counties in which aggregate horsepower exceeded 25,000: 1929														
Bibb.....	30,519	11,378	51	8,240	5	3,026	4	112			1,774	28,141	286	3,486
Chatham.....	30,321	9,084	46	5,967	8	3,062	2	55			1,419	21,237	325	3,038
Floyd.....	31,949	14,310	11	870	9	13,305	5	135			2,047	17,439	483	3,900
Fulton.....	102,283	27,898	104	14,739	21	13,107	6	50			7,358	74,387	366	6,881
Muscogee.....	48,553	10,640	23	2,050			4	135	20	8,455	5,468	37,913	233	4,174
Richmond.....	34,575	12,831	24	3,363	2	38	9	161	16	9,269	949	21,744	27	543

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

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

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

## CENSUS OF MANUFACTURES: 1929

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

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	641,899	253,523	388,376	50,727	Irwin.....	821	663	168	12
Appling.....	531	439	92		Jackson.....	2,120	932	1,188	
Atkinson.....	380	380			Jasper.....	1,020	650	370	
Bacon.....	225	197	28		Jeff Davis.....	434	362	72	
Baldwin.....	1,347	830	517		Jefferson.....	1,866	1,705	91	
Barrow.....	1,221	114	1,107		Jenkins.....	1,415	1,361	54	
Bartow.....	12,852	4,119	8,733	180	Johnson.....	293	248	45	
Ben Hill.....	2,527	377	160	349	Lamar.....	2,486	525	1,961	
Berrien.....	195	187	8		Lanier.....	37	37		
Bibb.....	39,519	11,378	28,141	3,486	Laurens.....	2,655	2,111	544	20
Bleckley.....	558	429	120		Lee.....	295	255	40	
Brantley.....	97	97			Liberty.....	327	327		
Brooks.....	1,884	1,585	299	34	Lincoln.....	820	805	15	
Bryan.....	88	88			Lowndes.....	4,370	2,711	1,659	(?)
Bulloch.....	1,136	979	157		Lumpkin.....	65	65		
Burke.....	1,801	1,468	333	180	McDuffie.....	1,483	1,425	58	
Calhoun.....	911	762	149	50	McIntosh.....	531	525	6	
Camden.....	390	390			Macon.....	1,172	1,015	157	
Candler.....	255	250	5		Madison.....	490	235	255	
Carroll.....	5,018	2,680	2,338		Miller.....	155	155		
Catoosa.....	163	128	35		Milton.....	62	62		
Charlton.....	231	231		(?)	Mitchell.....	2,809	1,915	894	30
Chatham.....	30,321	9,084	21,237	3,038	Monroe.....	3,374	1,566	1,808	292
Chattahoochee.....	160	160			Montgomery.....	438	438		
Chattooga.....	8,642	3,600	5,042		Morgan.....	444	435	9	
Cherokee.....	5,861	1,583	4,278	16	Murray.....	545	401	144	
Clarke.....	8,595	1,928	6,667	915	Muscogee.....	48,553	10,640	37,913	4,174
Clay.....	601	577	24	35	Oglethorpe.....	1,637	1,637		425
Clayton.....	60	57	3		Paulding.....	705	300	405	
Clinch.....	918	876	42		Peach.....	2,359	2,193	166	120
Cobb.....	5,495	2,089	3,406	1,305	Pierce.....	723	360	363	
Coffee.....	906	845	61		Pike.....	303	274	29	
Colquitt.....	4,715	3,657	1,058	165	Polk.....	18,676	3,295	15,381	2,750
Columbia.....	1,497	1,497			Pulaski.....	386	329	57	
Cook.....	286	250	27		Putnam.....	1,528	541	987	
Coweta.....	10,315	3,732	6,583		Quitman.....	834	834		
Crawford.....	752	752			Randolph.....	797	749	48	
Crisp.....	2,606	2,104	502		Richmond.....	34,875	12,831	21,744	543
Dade.....	195	195			Schley.....	144	108	36	
Dawson.....	132	132			Screven.....	1,244	1,219	25	
Decatur.....	2,110	1,300	810	18	Seminole.....	434	428	6	
De Kalb.....	5,513	1,085	4,427	(?)	Spalding.....	12,760	3,497	9,263	580
Dodge.....	1,082	182	900		Stephens.....	1,188	888	320	300
Dooly.....	498	430	68		Stewart.....	1,048	1,036	13	
Dougherty.....	6,840	2,021	4,819	40	Sumter.....	3,630	2,708	922	25
Douglas.....	1,621	1,535	85	168	Talbot.....	1,278	1,142	136	
Early.....	818	711	107		Taliaferro.....	258	258	(?)	
Echols.....	66	66			Tattall.....	344	277	67	
Effingham.....	789	789			Telfair.....	1,230	924	306	
Elbert.....	2,788	652	2,136		Terrell.....	1,621	1,591	30	15
Emanuel.....	828	758	68		Thomas.....	2,841	1,674	1,167	
Evans.....	200	282	8		Tift.....	1,317	753	564	
Fayette.....	258	232	26		Toombs.....	937	845	282	
Floyd.....	31,949	14,310	17,639	3,000	Trautman.....	78	73	(?)	
Forsyth.....	95	95			Troup.....	22,354	2,621	19,733	
Franklin.....	958	384	574		Turner.....	786	748	38	
Fulton.....	102,283	27,896	74,387	6,881	Twiggs.....	573	573		
Gilmer.....	1,290	1,162	98	50	Union.....	415	415		
Glascock.....	215	215			Upson.....	21,132	1,245	19,887	
Glynn.....	6,430	5,752	723	5,519	Walker.....	9,153	6,833	3,320	3,811
Gordon.....	2,739	1,984	755		Walton.....	4,145	605	3,540	
Grady.....	388	360	28		Ware.....	9,833	4,368	5,465	
Greene.....	2,140	740	1,400		Warren.....	363	360	3	
Gwinnett.....	3,511	459	3,052		Washington.....	2,862	2,800	62	402
Hall.....	13,050	4,650	8,400		Wayne.....	1,212	1,186	26	
Hancock.....	1,357	1,200	157		Webster.....	215	215		
Haralson.....	1,369	1,355	14		Wheeler.....	26	26		
Harris.....	604	584	20		Whitfield.....	7,555	1,550	6,005	750
Heard.....	254	254			Wilcox.....	227	227		
Henry.....	1,319	172	1,147		Wilkes.....	1,551	1,494	57	
Houston.....	6,593	6,564	29	6,155	Wilkinson.....	761	761		
					Worth.....	591	230	361	
					Other counties.....	32,731	15,674	17,057	3,024

<sup>1</sup> Horsepower of electric motors driven by energy generated in establishments reporting.<sup>2</sup> Included in total for State but not shown separately, to avoid disclosing data for a single establishment.<sup>3</sup> Campbell and Milton Counties combined with Fulton County Jan. 1, 1932. Campbell is one of the "Other counties." The figures for Fulton County refer to that county as constituted Dec. 31, 1929.<sup>4</sup> The item for electric motors is included in that for prime movers, to avoid disclosing data for a single establishment.<sup>5</sup> Baker, Butts, Campbell, Fannin, Habersham, Hart, Jones, Long, Marion, Meriwether, Newton, Oconee, Pickens, Rockdale, Taylor, Towns, and White Counties. No manufacturing reported from Banks and Rabun Counties.

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.)	1, 180, 049	\$4, 812, 968	1, 277, 840	1, 536, 450	1, 456, 226	1, 423, 083	1, 316, 408
Anthracite (tons, 2,240 lbs.)	24, 228	152, 026	( <sup>3</sup> )	34, 174	3, 368	3, 433	10, 762
Bituminous (tons, 2,000 lbs.)	1, 155, 821	4, 660, 942	( <sup>3</sup> )	1, 402, 276	1, 452, 858	1, 419, 650	1, 305, 646
Coke (tons, 2,000 lbs.)	34, 942	246, 474	( <sup>3</sup> )	( <sup>3</sup> )	45, 215	30, 315	34, 628
Fuel oils, including crude oils and gas oils (gallons) <sup>4</sup>	32, 167, 801	1, 236, 304	( <sup>3</sup> )	( <sup>3</sup> )	8, 488, 620	3, 470, 796	2, 256, 324
Gasoline and kerosene (gallons) <sup>5</sup>	835, 897	157, 148	( <sup>3</sup> )	( <sup>3</sup> )	2, 228, 088		
Gas, natural (M cu. ft.)			( <sup>3</sup> )	( <sup>3</sup> )			
Gas, manufactured (M cu. ft.)	521, 626	226, 734	( <sup>3</sup> )	( <sup>3</sup> )	81, 168	35, 150	40, 568
Other fuels		292, 290	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Electric energy purchased (kilowatt-hours)	646, 917, 748	8, 441, 119	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Total cost of fuel and purchased energy		7 15, 413, 037	Cost \$15, 886, 170	Cost ( <sup>3</sup> )	Cost \$12, 058, 546	Cost \$5, 529, 706	Cost \$4, 302, 189

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

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

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

INDUSTRY	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	HORSEPOWER (RATED CAPAC- ITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and con- tainers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufac- ture <sup>2</sup>
				Prime movers	Elec- tric motors driven by pur- chased energy						
All industries, total	4, 179	12, 960	158, 774	253, 523	388, 376	\$30, 238, 560	\$110, 435, 015	\$412, 632, 095	\$15, 172, 393	\$722, 453, 803	\$294, 048, 715
Agricultural implements	7	62	515	80	1, 019	109, 089	310, 064	554, 883	38, 940	1, 834, 283	1, 240, 451
Awnings, tents, sails, and canvas covers	6	29	84	250	118	59, 955	60, 633	324, 644	5, 034	533, 058	203, 480
Baskets and rattan and willow ware, not includ- ing furniture	4	13	147	124	95	19, 663	63, 699	60, 584	1, 066	155, 055	92, 605
Beverages	168	238	843	688	2, 315	622, 058	896, 563	3, 320, 802	110, 500	8, 517, 517	5, 074, 206
Bookbinding and blank-book making	5	12	34	24	22	22, 381	30, 308	21, 286	1, 496	102, 818	80, 636
Boxes, paper, not elsewhere classified	10	48	304	40	264	128, 987	224, 882	693, 399	27, 220	1, 143, 936	626, 317
Boxes, wooden, except cigar boxes	14	62	1, 231	2, 275	670	212, 685	741, 021	1, 742, 279	14, 063	3, 739, 373	1, 883, 241
Bread and other bakery products	104	231	1, 908	25	3, 888	470, 007	1, 830, 748	6, 790, 649	239, 679	12, 085, 546	6, 061, 318
Brooms	7	6	69	4	31	8, 700	40, 795	109, 827	1, 391	207, 246	96, 028
Butter	13	22	62	80	450	41, 841	51, 303	362, 485	18, 358	1, 051, 475	170, 632
Canning and preserving: Fish, crabs, shrimps, oysters, and clams	10	24	456	397	46	37, 770	111, 568	493, 282	14, 995	802, 099	293, 822
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	20	50	491	502	435	61, 041	204, 409	1, 101, 621	28, 324	1, 834, 148	704, 203
Car and general construction and repairs, steam- railroad repair shops	31	391	6, 782	6, 554	21, 265	1, 076, 592	9, 138, 693	8, 354, 244	490, 834	10, 124, 942	10, 279, 804
Carriages, wagons, sleighs, and sleds	3	6	53	250	68	14, 689	34, 887	47, 763	3, 035	114, 015	63, 817
Cars, electric and steam railroad, not built in railroad repair shops	3	50	511	194	1, 682	121, 987	606, 100	965, 020	25, 775	1, 734, 908	744, 113
Caskets, coffins, burial cases, and other mortu- cians' goods	16	45	222	421	543	114, 052	196, 989	527, 533	9, 248	1, 099, 507	562, 786
Cigars and cigarettes	13	7	319		53	11, 022	174, 305	338, 269	2, 717	647, 937	306, 961
Clay products (other than pottery) and nonclay refractories	27	138	1, 880	3, 080	8, 308	399, 009	1, 237, 094	396, 084	959, 801	3, 687, 941	2, 332, 056
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	7	37	428		103	67, 188	218, 433	851, 638	10, 336	1, 665, 144	803, 770
Clothing, women's, not elsewhere classified	11	47	705		149	173, 726	346, 679	1, 071, 994	15, 118	2, 021, 830	934, 718
Clothing, work (including sheep-lined and blan- ket-lined work coats but not including shirts), men's	20	151	2, 642		715	355, 633	1, 450, 700	3, 874, 205	39, 306	6, 753, 302	2, 839, 791
Coffee and spice, roasting and grinding	13	32	44	15	208	69, 434	32, 396	656, 337	7, 854	884, 976	220, 785
Compressed and liquefied gases	10	59	99	122	1, 217	125, 954	78, 205	187, 507	65, 106	868, 878	616, 265
Concrete products	17	35	141		322	77, 017	136, 066	223, 101	7, 389	701, 861	471, 371
Confectionery	30	284	1, 543		1, 551	767, 507	860, 440	2, 762, 121	70, 222	7, 005, 726	4, 173, 343
Copperage	13	19	134	70	259	80, 830	109, 535	684, 691	5, 139	860, 016	260, 186
Copper, tin, and sheet-iron work, including gal- vanized-iron work, not elsewhere classified	17	44	216		269	125, 776	193, 011	1, 184, 627	7, 902	2, 001, 540	809, 111
Cordage and twine	7	46	819	90	2, 814	152, 841	409, 785	2, 887, 123	93, 668	3, 505, 145	1, 024, 354
Cotton goods	137	1, 698	55, 808	91, 212	176, 860	4, 290, 055	35, 346, 064	129, 798, 117	5, 905, 036	212, 851, 829	77, 148, 676
Dyeing and finishing textiles	7	19	25		8	26, 674	21, 868	148, 403	673	298, 826	129, 610
Druggists' preparations	19	70	1, 145	3, 776	1, 443	187, 622	856, 150	5, 086, 842	183, 931	8, 199, 386	2, 928, 753
Electrical machinery, apparatus, and supplies	6	50	98		177	61, 271	133, 569	333, 895	8, 655	943, 372	600, 822
Feeds, prepared, for animals and fowls	8	34	99	35	1, 278	92, 880	62, 045	2, 335, 318	18, 396	2, 727, 742	374, 028

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Fertilizers	125	566	2,809	2,267	21,231	\$1,187,993	\$1,723,024	\$20,388,516	\$280,752	\$29,252,800	\$8,583,532
Flavoring extracts and flavoring sirups	8	59	93	—	340	102,936	62,083	2,515,227	9,734	8,481,460	5,950,499
Flour and other grain-mill products	140	68	244	4,220	3,566	204,724	191,715	5,354,984	54,989	6,654,404	1,244,491
Food preparations, not elsewhere classified	12	57	149	30	390	62,234	92,735	1,042,635	11,409	1,484,615	430,571
Foundry and machine-shop products, not elsewhere classified	74	440	3,030	651	8,409	1,195,979	3,229,075	5,102,881	307,412	12,580,965	7,170,672
Furnishing goods, men's, not elsewhere classified	4	16	80	—	11	30,064	44,802	201,323	1,345	855,291	152,024
Furniture, including store and office fixtures	43	199	2,307	2,032	3,986	523,462	1,824,235	3,714,112	102,185	7,011,210	3,794,922
Gas, manufactured, illuminating and heating	15	209	711	3,555	1,755	407,233	845,117	601,093	1,075,437	5,179,226	3,502,606
Grease and tallow, not including lubricating greases	3	5	10	40	45	4,715	11,344	19,220	3,751	49,127	26,156
Hand stamps and stencils and brands	5	2	26	—	14	(4)	41,017	34,055	554	124,261	89,702
House-furnishing goods, not elsewhere classified	7	10	40	25	62	15,610	20,881	728,623	3,909	973,480	239,888
Ice cream	32	92	238	25	2,554	187,217	262,500	1,172,903	90,252	2,584,242	1,321,087
Ice, manufactured	135	263	1,196	12,075	17,108	500,243	1,086,786	275,851	829,389	5,193,538	4,088,298
Jewelry	4	6	32	—	5	6,745	34,727	62,451	292	149,302	90,619
Knit goods	44	325	6,018	760	5,050	739,695	3,632,232	10,578,512	262,532	19,377,923	8,536,879
Lumber and timber products, not elsewhere classified	1,158	585	15,464	57,702	3,110	1,391,141	8,911,692	11,974,737	150,649	31,180,101	19,054,805
Marble, granite, slate, and other stone products	59	230	2,303	2,192	9,028	518,047	2,301,110	1,790,124	180,832	8,196,276	6,240,320
Mattresses and bed springs, not elsewhere classified	21	96	663	—	1,810	275,756	670,183	2,342,370	32,673	4,599,630	2,224,587
Meat packing, wholesale	12	145	612	2,195	1,231	248,992	588,302	9,922,087	141,593	12,550,986	2,487,336
Millinery	6	60	554	75	130	192,466	427,264	975,150	15,197	1,974,252	983,905
Nonferrous-metal alloys and products, not including aluminum products	5	13	44	—	363	24,903	42,667	560,550	10,195	725,722	154,977
Oil, cake, and meal, cottonseed	61	310	1,519	13,120	23,674	670,695	912,410	20,336,431	614,988	24,894,917	3,943,498
Oils, not elsewhere classified	5	21	62	250	339	81,124	39,479	672,406	12,642	1,107,390	422,342
Paints and varnishes	13	67	212	700	1,214	145,140	191,006	626,533	50,748	1,480,497	812,166
Patent or proprietary medicines and compounds	30	123	188	250	530	327,486	125,067	1,030,907	13,053	4,904,004	3,860,104
Peanuts, walnuts, and other nuts, processed or shelled	23	76	377	2,688	1,275	137,612	267,094	5,400,276	36,320	6,381,231	854,635
Perfumes, cosmetics, and other toilet preparations	8	23	50	—	18	75,469	29,504	180,054	1,008	518,637	336,975
Photo-engraving, not done in printing establishments	10	47	125	—	112	150,811	281,615	85,192	8,378	755,772	662,202
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	101	443	2,788	14,870	4,820	986,698	2,170,421	9,295,507	92,183	15,067,699	5,680,009
Printing and publishing, book and job	124	483	1,302	—	1,760	971,525	1,875,534	2,103,408	81,031	7,032,882	4,848,443
Printing and publishing, newspaper and periodical	184	1,376	1,416	10	2,741	2,958,623	2,382,718	3,017,448	130,753	14,656,932	11,508,731
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	5	10	42	20	142	33,900	40,009	478,253	8,298	649,766	103,215
Shortenings (not including lard) and vegetable cooking oils	4	92	346	186	2,107	171,776	283,208	17,173,801	152,330	18,939,923	1,613,742
Signs and advertising novelties	10	27	55	—	18	27,916	56,957	31,360	2,766	231,071	196,945
Stoves and ranges (other than electric) and warm-air furnaces	6	53	536	100	550	126,044	573,612	471,406	25,064	1,787,567	1,291,007
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	6	22	180	—	588	71,726	249,557	423,238	7,466	940,374	509,670
Tanning materials, natural dyestuffs, mordants and assistants, and sizes	4	12	29	60	69	46,323	17,071	201,825	6,274	360,770	152,671
Textile machinery and parts	15	39	237	235	374	116,525	246,738	346,349	15,933	979,929	617,047
Turpentine and rosin	662	725	19,912	1,123	12	865,660	7,415,084	5,046,183	165,061	18,076,489	12,864,355
Waste	5	47	482	538	1,755	135,295	259,567	2,733,076	26,353	3,541,207	781,778
Wood preserving	7	62	521	1,837	877	215,298	431,586	3,042,956	82,816	4,890,633	1,704,801
Wood turned and shaped and other wooden goods, not elsewhere classified	6	18	228	325	90	29,506	88,206	183,293	5,441	353,790	195,056
Other industries	148	1,394	11,084	18,467	35,856	3,946,191	10,154,319	83,239,637	1,628,671	125,947,986	41,079,678

<sup>1</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>3</sup> Not including data for 2,515 employees of central administrative offices, with salaries aggregating \$4,727,873. See GENERAL EXPLANATIONS—Persons Engaged.<sup>4</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

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

[This table presents, for each important industrial county 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 those shown separately]

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

FULTON COUNTY

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

All industries, total.....	570	4,400	24,744	27,896	74,387	\$11,136,177	\$24,539,083	\$120,408,699	\$8,179,183	\$214,785,945	\$91,198,072
Beverages.....	10	43	166	619	557	119,093	200,837	760,050	39,279	2,000,518	1,201,189
Bookbinding and blank-book making.....	5	12	84	-----	24	22,381	30,303	21,286	1,496	102,818	80,036
Boxes, paper, not elsewhere classified.....	7	43	267	40	234	120,593	199,736	540,689	26,265	1,025,471	460,620
Bread and other bakery products.....	35	106	990	20	2,336	253,073	973,018	3,828,738	120,166	7,008,632	3,564,790
Brooms.....	4	3	52	-----	27	4,400	34,276	75,600	1,019	143,390	60,871
Car and general construction and repairs, steam-railroad repair shops.....	5	62	1,459	380	4,203	143,951	2,283,028	1,373,392	87,203	3,887,674	2,420,979
Caskets, coffins, burial cases, and other morticians' goods.....	4	24	100	150	272	75,268	110,998	327,931	5,255	651,650	318,764
Clothing, women's, not elsewhere classified.....	8	42	593	-----	120	106,398	307,577	1,030,355	13,214	1,901,640	851,671
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	4	36	600	-----	201	121,760	551,403	1,418,199	13,801	2,358,845	926,755
Coffee and spice, roasting and grinding.....	7	20	30	-----	163	44,342	23,594	391,831	4,715	524,896	128,350
Compressed and liquefied gases <sup>1</sup> .....	10	59	80	122	1,217	125,954	78,205	187,507	65,106	868,878	616,265
Concrete products.....	10	25	84	-----	251	61,246	82,002	100,537	6,170	508,483	336,767
Confectionery.....	13	185	805	-----	897	511,588	513,826	1,469,178	43,161	3,644,492	2,132,153
Cooperage.....	3	3	33	-----	207	4,260	38,463	162,871	3,934	237,191	70,386
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	8	35	111	-----	177	106,840	107,042	434,111	5,258	880,082	449,713
Cotton goods.....	7	104	3,440	14,133	6,048	312,700	2,333,030	7,725,640	320,130	12,541,341	4,495,512
Druggists' preparations <sup>2</sup> .....	7	19	26	-----	8	26,674	21,868	148,403	673	238,326	149,750
Electrical machinery, apparatus, and supplies <sup>1</sup> .....	5	50	98	-----	177	61,271	133,680	333,895	8,655	643,372	600,323
Fertilizers.....	12	140	525	85	5,317	330,190	403,183	4,018,960	57,816	5,924,018	1,847,233
Flour and other grain-mill products.....	4	9	10	-----	160	13,230	9,490	136,017	3,378	224,156	54,761
Food preparations, not elsewhere classified.....	7	49	122	-----	369	50,820	77,840	917,077	0,148	1,287,329	361,104
Foundry and machine-shop products, not elsewhere classified.....	23	119	369	8	2,140	349,690	944,337	1,233,206	90,385	3,357,796	2,033,705
Furniture, including store and office fixtures.....	19	104	960	555	1,488	291,884	928,377	1,890,853	43,780	3,857,439	1,943,705
Hand stamps and stencils and brands <sup>1</sup> .....	5	2	26	-----	14	(3)	41,017	34,005	554	124,261	39,702
Ice cream.....	8	34	76	-----	873	74,179	95,153	403,204	29,995	882,536	449,337
Ice, manufactured.....	8	34	144	1,580	5,735	97,005	192,783	43,507	103,622	1,442,274	1,205,135
Jewelry.....	4	6	32	-----	5	6,745	34,727	52,451	262	140,362	96,619
Knit goods.....	3	23	337	-----	635	66,171	230,713	521,837	23,220	1,048,104	503,047
Marble, granite, slate, and other stone products.....	5	24	144	-----	978	66,936	212,960	174,419	12,900	738,079	552,230
Millinery.....	6	69	554	75	130	192,466	427,264	975,150	15,197	1,974,262	983,905
Nonferrous-metal alloys and products, not including aluminum products.....	5	13	44	-----	363	24,903	42,967	560,550	10,195	725,722	154,977
Oil, cake, and meal, cottonseed.....	6	37	257	1,103	4,225	113,249	182,738	5,297,316	120,690	6,255,255	837,850
Paints and varnishes.....	4	34	33	-----	137	67,372	20,677	330,951	4,614	515,594	180,029
Patent or proprietary medicines and compounds.....	15	92	135	100	388	243,962	86,743	796,433	10,622	3,672,285	2,865,230
Perfumes, cosmetics, and other toilet preparations <sup>1</sup> .....	8	23	50	-----	18	75,469	29,504	180,054	1,008	518,937	336,975
Planing-mill products (including general millwork) not made in planing mills connected with sawmills.....	17	103	582	1,870	807	255,244	571,323	1,677,654	24,409	2,331,623	1,229,560
Printing and publishing, book and job.....	68	370	1,016	-----	1,110	763,211	1,414,903	1,617,698	59,462	5,465,231	3,783,161
Printing and publishing, newspaper and periodical.....	38	810	635	-----	1,133	1,805,977	1,258,445	2,082,468	54,636	9,453,021	7,816,021
Signs and advertising novelties.....	10	27	55	-----	18	27,916	56,957	31,360	2,766	231,071	106,945
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	3	15	114	-----	268	45,771	170,466	263,274	4,602	600,615	302,730
Other industries.....	146	1,411	9,027	7,056	31,232	3,929,670	9,092,846	77,243,867	1,657,414	124,028,555	45,127,274

MUSCOGEE COUNTY

All industries, total.....	96	776	12,185	10,640	37,913	\$1,933,979	\$8,777,275	\$27,778,978	\$1,327,731	\$53,524,409	\$24,417,700
Beverages.....	4	20	29	15	110	71,537	28,350	196,992	3,930	500,819	359,897
Bread and other bakery products.....	6	18	62	5	199	30,688	66,606	104,045	5,015	361,738	189,678
Cotton goods.....	9	237	8,718	7,400	26,013	596,069	5,879,908	18,070,732	915,250	82,177,375	13,191,308
Fertilizers.....	5	14	119	160	1,281	27,286	83,689	984,836	18,661	1,345,688	342,191
Foundry and machine-shop products, not elsewhere classified.....	7	99	759	85	2,149	333,245	765,504	1,554,910	54,238	3,503,650	1,804,503
Ice, manufactured.....	4	12	59	750	902	28,880	44,702	6,215	43,516	228,439	178,652
Lumber and timber products, not elsewhere classified.....	5	1	164	363	-----	(3)	106,800	41,000	250	171,300	130,050
Planing-mill products (including general millwork) not made in planing mills connected with sawmills.....	5	22	139	260	640	61,172	118,340	348,500	7,849	674,242	317,893
Printing and publishing, book and job.....	6	29	79	-----	122	52,146	82,280	110,553	4,301	333,097	212,243
Textile machinery and parts.....	3	10	28	-----	52	27,841	35,988	80,671	1,923	162,369	79,775
Other industries.....	42	314	2,029	1,602	6,445	705,615	1,565,208	6,214,424	269,798	14,005,642	7,521,420

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

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

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

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

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

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

# IDAHO

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

[Data for the "Automobile repairing" industry are included in the figures for 1919 but not in those for other years. This industry was also canvassed at the census for 1914, but no automobile-repair shops were reported for Idaho. The figures for 1919 and prior years cover all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding limit for 1921 and subsequent years was \$5,000. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	582	15,648	105,787	50,163	55,624	\$22,451,545	\$51,803,505	\$50,225,704	\$1,637,801	\$90,352,026	\$44,488,521
1927	470	13,513	89,830	48,189	41,641	18,970,643	47,927,463	46,875,197	1,052,266	80,250,399	38,328,930
1925	400	15,794	82,552	55,284	24,298	20,708,725	53,151,610	( <sup>5</sup> )	( <sup>5</sup> )	90,989,661	43,838,051
1923	510	16,347	72,146	48,870	23,276	22,880,215	48,133,993	( <sup>5</sup> )	( <sup>5</sup> )	87,428,909	44,204,918
1921	485	10,783	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	15,183,270	36,057,495	( <sup>5</sup> )	( <sup>5</sup> )	57,067,462	21,009,907
1919	922	13,917	73,840	55,633	18,207	18,548,272	43,948,505	42,345,546	1,602,959	80,510,749	36,582,244
1914	698	8,910	50,207	40,369	9,028	7,490,521	14,862,094	14,420,162	471,932	28,453,797	13,591,793
1909	725	8,220	42,784	38,178	4,606	5,497,647	9,620,017	9,439,169	480,848	22,398,800	12,479,843
1904	364	3,061	16,887	16,350	537	2,050,391	4,068,523	3,820,448	248,075	5,788,743	4,700,220
1899	287	1,552	5,640	5,643	6	818,239	1,438,808	( <sup>5</sup> )	( <sup>5</sup> )	3,001,442	1,562,574
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929	19.6	15.8	17.8	4.1	33.6	18.3	8.2	7.1	55.6	11.7	16.1
1925-1927	-4.1	-14.4	8.8	-17.3	71.4	-8.4	-9.8			-11.1	-12.6
1923-1925	-3.9	-3.4	14.4	10.2	4.4	-9.5	23.2			10.9	-1.0
1921-1923	5.2	51.6				50.7	19.6			53.2	110.8
1919-1921	-47.4	-22.5				-18.1	-18.0			-29.1	-42.5
1919-1929	-39.0	12.4	43.3	-9.8	205.5	21.0	18.0	18.6	2.2	19.7	21.7
1909-1919	27.2	69.3	72.6	45.7	295.3	237.4	343.0	348.6	233.4	269.4	193.0
1899-1909	152.6	429.6	667.4	576.6	( <sup>7</sup> )	571.9	589.4			646.3	698.7

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> The aggregates for cost of materials, etc., and value of products include considerable amounts of duplication due to the use of the products of certain industries as materials in others. See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>3</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>4</sup> Not reported separately.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> No comparable data.  
<sup>7</sup> Per cent not computed where base is less than 100.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

[This table gives statistics for each county reporting 10 wage earners or more, for which it is possible to publish separate figures without disclosing an approximation of the data supplied by individual establishments. In the cases of Lemhi and Teton 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. Certain of the counties for which separate figures could not be published without disclosing data for individual establishments—i. e., the "Other counties"—reported larger numbers of wage earners or larger values of products than some of the counties shown separately.]

COUNTY OR CITY	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manu- facture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	445,032	502	15,048	105,787	\$22,451,545	\$51,803,505	\$50,225,704	\$1,637,801	\$96,352,026	\$44,488,521
<i>Counties</i>										
Ada.....	37,025	54	1,052	4,107	1,272,541	2,594,539	2,463,482	131,057	5,301,706	2,707,167
Adams.....	2,867	4	13	178	12,010	12,287	9,707	2,580	62,438	50,151
Bannock.....	31,266	33	1,047	10,090	1,701,478	5,210,462	5,072,595	137,867	7,816,018	2,605,556
Bear Lake.....	7,872	10	46	604	73,431	220,797	212,728	8,069	345,005	124,208
Benewah.....	6,371	17	504	2,015	911,342	489,128	476,258	12,870	2,088,805	1,599,677
Bingham.....	18,461	16	128	3,108	199,744	1,461,831	1,391,403	70,338	1,958,577	496,746
Bonner.....	13,152	24	1,764	7,450	2,447,082	3,134,162	3,083,874	50,288	8,177,050	5,042,888
Bonneville.....	19,004	21	171	2,097	264,568	1,228,743	1,143,853	84,890	2,138,358	900,615
Boundary.....	4,552	13	120	308	177,375	158,535	130,439	8,096	470,132	345,597
Canyon.....	30,930	30	408	3,118	733,933	5,703,224	5,580,423	116,801	7,619,229	1,810,005
Cassia.....	13,110	13	81	1,332	98,406	760,326	744,013	25,813	1,152,523	382,697
Clearwater.....	6,569	13	674	4,836	867,524	577,015	541,575	35,440	2,124,991	1,647,876
Franklin.....	9,379	7	137	1,432	114,885	1,083,902	1,044,185	39,717	1,869,831	285,929
Fremont.....	9,024	9	82	430	118,122	344,200	338,818	5,382	711,836	367,650
Gooding.....	7,580	8	26	144	31,495	617,136	511,393	5,773	650,910	133,780
Idaho.....	10,107	14	71	408	95,376	170,665	165,030	5,635	340,538	175,873
Jefferson.....	9,171	7	52	1,074	68,496	493,472	475,765	17,677	635,948	142,476
Kootenai.....	19,469	34	2,865	15,051	3,781,926	3,127,867	3,111,164	16,703	10,150,338	7,022,471
Latah.....	17,798	33	1,564	7,433	2,796,063	1,105,056	995,683	109,373	4,709,431	3,004,375
Lemhi.....	4,643	6	7	223	11,552	150,217	146,845	3,372	186,774	30,557
Lewis.....	5,238	5	267	1,119	411,304	212,787	212,017	170	834,296	621,609
Madison.....	3,316	10	98	1,787	137,808	673,065	617,263	56,402	1,373,279	399,014
Minidoka.....	3,408	9	23	302	25,831	375,658	369,589	6,069	473,198	97,540
Nez Perce.....	17,591	27	1,899	22,422	3,040,363	2,387,092	2,284,218	103,774	7,601,224	5,109,292
Oneida.....	6,870	4	17	312	23,935	362,979	355,010	7,969	498,009	135,030
Payette.....	7,318	21	234	703	165,885	1,707,863	1,765,048	32,816	2,315,778	517,015
Teton.....	3,573	5	6	81	6,943	111,943	107,905	3,048	135,419	23,476
Twin Falls.....	29,828	31	170	1,040	243,421	2,082,032	2,031,038	50,994	3,015,988	931,656
Valley.....	3,488	6	228	1,188	265,737	114,048	100,798	7,250	687,637	673,589
Washington.....	7,962	11	39	428	50,591	426,469	410,414	16,055	613,608	192,189
All other counties <sup>3</sup> .....	66,406	61	1,726	10,707	2,296,498	14,540,005	14,070,081	469,924	20,975,146	6,435,141
<i>Cities having 10,000 inhabitants or more</i>										
Boise.....	21,544	45	344	1,212	474,127	1,636,288	1,555,220	81,068	3,200,057	1,563,760
Pocatello.....	16,471	21	957	7,027	1,566,414	3,326,172	3,222,781	103,391	5,726,774	2,400,002

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

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

<sup>3</sup> Blaine, Boise, Butte, Camas, Caribou, Clark, Custer, Elmore, Gem, Jerome, Lincoln, Power, and Shoshone Counties; combined in order to avoid disclosing approximations of the data for individual establishments. No manufacturing was reported in Owyhee County.

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup> .....	17,358	10,630	719	335	323	12	2180	2177	12	21,186	2051	2235	15,648	15,188	3460
1919 <sup>1,4</sup> .....	16,208	15,483	725	351	317	34	145	142	3	1,366	1,079	279	13,917	13,445	472
1914 <sup>4</sup> .....	10,529	10,220	309	644	604	20	83	80	3	863	798	65	8,919	8,728	191
1909.....	9,909	9,640	263	331	311	20	108	104	4	750	606	84	8,220	8,065	155

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1910 and 1920.

<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 13 (male). Other salaried officers and employees—total, 16; male, 9; female, 7. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.

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

<sup>4</sup> Data for the "Automobile repairing" industry are included in the figures for 1919 but not in those for other years. This industry was also canvassed at the census for 1914, but no automobile-repair shops were reported for Idaho.

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	15,648	12,702	<i>12,233</i>	12,702	14,386	13,120	17,145	17,275	17,543	17,260	18,378	17,493	14,451	66.6
1919	13,917	11,248	<i>11,173</i>	11,323	12,849	14,020	14,637	14,555	14,568	15,552	16,252	16,342	14,480	68.4
1914	8,919	6,915	<i>6,414</i>	7,577	8,738	9,853	10,583	10,368	10,069	10,091	9,831	8,783	7,806	60.6
1909	8,220	6,145	<i>6,033</i>	7,270	8,279	8,664	8,920	8,939	8,696	8,690	9,525	8,971	8,507	63.3

<sup>1</sup> Data for the "Automobile repairing" industry are included in the figures for 1919 but not in those for other years. This industry was also canvassed at the census for 1914, but no automobile-repair shops were reported for Idaho.

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	562	15,648	45 and over but under 48	6	1,130
Not reported	43	87	48	209	6,128
Under 40	9	18	Over 48 but under 54	15	145
40	1	1	54	78	4,005
Over 40 but under 44	16	1,718	Over 54 but under 60	32	704
44 and over but under 45	19	1,594	60 and over	145	1,059

<sup>1</sup> 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	562	922	725	15,648	13,917	8,220	51 to 100	13	12	13	888	834	857
No wage earners	20	137	50				101 to 250	10	16	5	1,491	2,370	601
1 to 5	351	579	494	835	1,100	1,098	251 to 500	4	10	3	1,388	3,005	953
6 to 20	105	133	123	1,087	1,408	1,304	501 to 1,000	6	3	3	4,290	2,208	2,418
21 to 50	50	31	28	1,553	966	920	1,001 to 2,500	3	1		4,116	1,426	

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments	562	922	725	15,648	13,917	8,220	\$96,352,026	\$80,510,740	\$22,309,860	\$44,438,521	\$36,562,244	\$12,479,843
Less than \$5,000	( <sup>2</sup> )	300	279	( <sup>2</sup> )	184	354	( <sup>2</sup> )	870,035	743,265	( <sup>2</sup> )	602,448	523,268
\$5,000 to \$19,999	240	514	281	470	760	1,184	2,583,958	3,427,719	2,854,751	1,543,595	1,960,795	1,750,615
\$20,000 to \$99,999	193	195	129	1,232	1,371	1,751	9,065,088	8,410,814	5,735,475	3,959,663	3,638,704	2,771,134
\$100,000 to \$499,999	113	( <sup>2</sup> )	( <sup>2</sup> )	504	( <sup>2</sup> )	( <sup>2</sup> )	3,579,285	( <sup>2</sup> )	( <sup>2</sup> )	1,659,386	( <sup>2</sup> )	( <sup>2</sup> )
\$500,000 to \$999,999	80	( <sup>2</sup> )	( <sup>2</sup> )	758	( <sup>2</sup> )	( <sup>2</sup> )	5,485,803	( <sup>2</sup> )	( <sup>2</sup> )	2,300,277	( <sup>2</sup> )	( <sup>2</sup> )
\$100,000 to \$499,999	92	74		2,511	2,138		20,778,369	16,288,813		9,159,250	5,931,287	
\$100,000 to \$249,999	59	( <sup>2</sup> )		1,426	( <sup>2</sup> )		9,369,843	( <sup>2</sup> )		4,114,639	( <sup>2</sup> )	
\$250,000 to \$499,999	33	( <sup>2</sup> )	36	1,385	( <sup>2</sup> )	4,931	11,408,526	( <sup>2</sup> )	13,016,369	5,044,561	( <sup>2</sup> )	7,428,836
\$500,000 to \$999,999	17	21		1,480	2,545		12,175,070	14,624,616		4,678,966	0,535,775	
\$1,000,000 and over	20	18		9,916	6,919		51,749,541	36,888,755		25,147,047	17,805,205	
\$1,000,000 to \$2,499,999	15	( <sup>2</sup> )	( <sup>2</sup> )	4,684	( <sup>2</sup> )	( <sup>2</sup> )	22,689,987	( <sup>2</sup> )	( <sup>2</sup> )	11,101,529	( <sup>2</sup> )	( <sup>2</sup> )
\$2,500,000 to \$4,999,999	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4,282	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
\$5,000,000 and over	5	( <sup>2</sup> )	( <sup>2</sup> )	5,232	( <sup>2</sup> )	( <sup>2</sup> )	29,059,554	( <sup>2</sup> )	( <sup>2</sup> )	14,045,518	( <sup>2</sup> )	( <sup>2</sup> )

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

<sup>2</sup> No data.

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

<sup>4</sup> 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.....	502	922	15,048	13,917	\$96,352,026	\$80,510,749	\$44,488,521	\$36,562,244
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	267	284	14,288	12,084	87,105,194	70,230,098	40,351,599	31,830,993
Other forms of ownership or control (individual, partnership, etc.).....	295	638	1,300	1,833	9,156,832	10,280,681	4,136,922	4,731,251
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	127	(1)	9,274	(1)	60,068,058	(1)	24,746,882	(1)
Independent (single-unit).....	435	(1)	6,374	(1)	36,283,968	(1)	19,741,689	(1)

<sup>1</sup> Not tabulated.

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

CENSUS YEAR	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY												ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING		
	Aggregate 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	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number				Horsepower
1929.....	105,787	50,163	209	30,857	33	18,403	31	738	4	165	4,437	55,624	651	14,917	
1927.....	89,530	48,189	201	30,375	48	17,238	24	299	7	277	3,514	41,641	589	16,479	
1925.....	82,552	58,254	237	41,639	21	15,328	32	604	24	683	2,174	24,298	578	18,294	
1919 <sup>1</sup> .....	73,840	55,633	392	42,240	17	11,064	60	578	34	1,751	1,636	18,207	369	11,682	
1914 <sup>2</sup> .....	50,297	40,369	<sup>3</sup> 353	<sup>3</sup> 38,264	( <sup>4</sup> )	( <sup>4</sup> )	55	431	32	1,674	874	9,928	195	6,192	

<sup>1</sup> Data for the "Automobile repairing" industry are included in the figures for 1919 but not in those for other years. This industry was also canvassed at the census for 1914, but no automobile-repair shops were reported for Idaho.

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

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

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

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—Plant Energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—Plant Energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	105,787	50,163	55,624	14,917	Idaho.....	408	220	188	-----
Ada.....	4,107	748	3,359	-----	Jefferson.....	1,074	965	109	-----
Adams.....	178	25	153	-----	Kootenai.....	15,051	14,700	351	4,691
Bannock.....	10,090	1,410	8,680	-----	Latah.....	7,463	6,414	1,049	4,412
Bear Lake.....	664	335	329	-----	Lemhi.....	223	160	63	-----
Benewah.....	2,018	1,752	266	220	Lewis.....	1,119	1,085	34	-----
Bingham.....	3,108	2,190	918	-----	Madison.....	1,787	1,411	376	53
Bonner.....	7,459	6,655	804	-----	Minidoka.....	302	-----	302	-----
Bonneville.....	2,097	1,179	918	15	Nez Perce.....	22,422	85	22,337	-----
Boundary.....	368	343	20	-----	Oneida.....	312	85	227	-----
Canyon.....	3,118	195	2,923	110	Payette.....	703	135	568	-----
Cassia.....	1,332	686	646	419	Teton.....	81	20	61	-----
Clearwater.....	4,886	4,716	170	2,233	Twin Falls.....	1,040	55	985	-----
Franklin.....	1,482	1,132	300	1,500	Valley.....	1,186	1,090	96	130
Fremont.....	430	215	215	-----	Washington.....	428	105	323	-----
Gooding.....	144	16	128	-----	All other counties <sup>2</sup> .....	10,707	1,981	8,726	1,134

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

<sup>2</sup> See footnote 3, Table 2.

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.).....	139,458	\$671,680	141,028	141,380	152,409	88,418	65,095
Anthracite (tons, 2,240 lbs.).....	1,648	15,348	(3)	532	853	175	451
Bituminous (tons, 2,000 lbs.).....	137,612	656,632	(3)	140,784	152,014	88,222	64,590
Coke (tons, 2,000 lbs.).....	23,755	279,955	(4)	(4)	24,429	2,482	3,066
Fuel oils, including crude oils and gas oils (gallons) <sup>3</sup> .....	1,193,677	59,341	(4)	(4)	991,998	95,469	117,180
Gasoline and kerosene (gallons) <sup>4</sup> .....	97,191	18,860	(4)	(4)	35,514		
Gas, natural (M cu. ft.).....					3,761	2,250	615
Gas, manufactured (M cu. ft.).....	3,400	3,853	(4)	(4)			
Other fuels.....		23,903	(4)	(4)			
Electric energy purchased (kilowatt-hours).....	61,855,526	580,096	(6)	(4)			
Total cost of fuel and purchased energy.....		\$1,638,048	Cost \$1,052,266	Cost (5)	Cost \$1,602,950	Cost \$471,032	Cost \$480,848

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

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

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

<sup>4</sup> No data.

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

<sup>6</sup> Data incomplete.

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

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

TABLE 12.—GENERAL STATISTICS, BY INDUSTRIES: 1929

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	562	1,375	15,648	50,163	55,624	\$3,036,272	\$22,451,545	\$50,225,704	\$1,037,801	\$96,352,026	\$44,488,521
Awnings, tents, sails, and canvas covers.....	4	7	23		14	15,022	27,735	73,815	922	123,016	48,270
Beverages.....	15	3	24		77	6,718	27,806	67,610	2,000	178,190	108,481
Bread and other bakery products.....	56	23	267	5	474	41,404	336,028	1,086,025	80,294	2,024,603	857,584
Butter.....	34	88	309	190	1,980	171,475	356,064	6,324,678	91,067	11,127,108	1,711,403
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	14	27	222	55	307	39,330	136,963	533,118	30,052	917,872	354,702
Car and general construction and repairs, steam-railroad repair shops.....	9	94	1,039	822	7,456	256,848	1,775,425	1,441,605	104,795	3,550,368	2,012,958
Cheese.....	34	12	62	61	137	10,341	79,020	1,405,876	23,936	1,604,054	234,243
Clay products (other than pottery) and nonclay refractories.....	6	9	52	50	523	16,880	53,618	15,452	28,560	168,476	114,455
Coffee and spice, roasting and grinding.....	3	5	4		25	9,660	5,428	111,430	1,464	153,030	40,706
Concrete products.....	3	4	9		32	3,180	8,969	16,285	806	44,088	26,997
Feeds, prepared, for animals and fowls.....	11	7	15	40	740	2,678	18,324	262,898	6,540	330,577	61,133
Flour and other grain-mill products.....	61	49	227	347	4,084	75,193	294,564	5,165,402	108,593	6,889,112	1,625,057
Food preparations, not elsewhere classified.....	3	4	19		82	6,086	17,789	42,511	4,370	96,917	50,036
Foundry and machine-shop products, not elsewhere classified.....	14	16	111	45	593	40,901	162,603	176,732	16,287	505,313	372,294
Ice cream.....	8	11	27	45	171	27,040	34,485	133,569	7,758	296,175	154,848
Ice, manufactured.....	16	20	81		2,061	47,534	109,201	20,558	57,298	420,843	342,092
Lumber and timber products, not elsewhere classified.....	101	502	11,228	39,468	25,925	1,301,806	16,051,860	6,906,271	231,004	33,886,402	26,749,127
Meat packing, wholesale.....	14	21	111	25	458	40,551	154,175	1,814,339	20,236	2,274,431	430,857
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	9		24	24	153		30,893	43,990	3,344	103,588	56,204
Printing and publishing, book and job.....	16	25	99		126	69,533	145,685	116,303	6,803	467,147	344,041
Printing and publishing, newspaper and periodical.....	80	240	379	2	768	443,228	647,515	394,870	40,537	2,521,811	2,086,404
Wood preserving.....	6	20	143	720	426	43,851	227,193	3,002,571	19,050	3,768,781	776,574
Other industries.....	45	188	1,173	8,264	9,013	377,863	1,750,604	18,079,236	742,452	24,750,634	5,923,966

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

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

<sup>3</sup> Not including data for 29 employees of central administrative offices, with salaries aggregating \$71,433. See GENERAL EXPLANATIONS—Persons Engaged.

# ILLINOIS

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929.....	15,333	691,555	2,807,001	1,222,555	1,584,446	\$1,024,870,235	\$3,352,054,479	\$3,198,957,624	\$153,096,855	\$6,282,092,240	\$2,930,037,701
1927.....	14,711	623,468	2,456,997	1,205,018	1,251,079	914,102,612	2,921,092,107	2,766,719,071	154,373,036	5,380,003,295	2,464,011,128
1925.....	14,117	622,368	2,247,408	1,171,050	1,076,352	897,070,455	2,926,064,176	( <sup>5</sup> )	( <sup>5</sup> )	5,321,837,868	2,395,773,690
1923.....	14,845	645,627	1,942,516	1,031,446	911,070	913,220,186	2,704,612,564	( <sup>5</sup> )	( <sup>5</sup> )	5,041,113,314	2,246,500,750
1921.....	13,952	513,876	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	701,529,581	2,098,750,009	( <sup>5</sup> )	( <sup>5</sup> )	3,795,379,092	1,600,629,653
1919.....	18,593	653,114	1,654,947	1,064,706	590,241	801,037,359	3,488,270,446	3,362,381,054	125,889,392	5,425,244,694	1,936,074,248
1914.....	18,388	506,943	1,294,421	1,021,750	272,662	840,910,325	1,340,183,407	1,288,755,811	51,427,596	2,247,322,819	907,139,412
1909.....	18,026	465,764	1,006,355	889,348	117,007	273,319,005	1,160,926,690	1,112,732,260	48,194,400	1,919,276,594	758,349,004
1904.....	14,921	379,436	730,014	688,036	41,978	208,405,468	840,057,316	811,436,902	28,620,414	1,410,842,120	570,284,813
1899.....	14,374	332,871	544,722	532,251	12,471	150,104,170	681,450,122	( <sup>5</sup> )	( <sup>5</sup> )	1,120,868,308	439,418,186
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	4.2	10.9	14.2	1.4	20.6	12.1	14.8	15.6	-0.8	16.0	18.9
1925-1927.....	4.2	0.2	9.3	3.0	16.2	1.8	-0.2			1.2	2.9
1923-1925.....	-1.6	-3.6	15.7	13.5	18.1	-1.7	4.7			5.6	6.6
1921-1923.....	2.8	25.0				30.2	33.2			36.0	39.8
1919-1921.....	-25.0	-21.3				-12.4	-39.8			-31.7	-17.1
1919-1929.....	-17.5	5.9	69.6	14.8	168.4	27.9	-3.9	-4.9	21.6	15.8	51.3
1909-1919.....	3.1	40.2	64.4	19.7	404.4	193.1	200.5	202.2	161.2	182.7	155.4
1899-1909.....	25.4	39.9	84.7	67.1	838.2	71.8	70.4			71.2	72.6

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

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

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

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

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

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

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

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	7,630,654	15,333	691,555	2,807,001	\$1,024,870,235	\$3,352,054,479	\$3,198,957,624	\$153,096,855	\$6,282,092,240	\$2,930,037,701
<i>Industrial Areas</i>										
Chicago Area, <sup>3</sup> total.....	4,675,877	11,774	550,903	2,729,674	869,218,189	3,009,840,883	2,814,605,897	195,234,986	5,558,331,242	2,548,490,369
Portion in Illinois.....	4,414,567	11,484	500,575	1,855,925	780,539,035	2,501,584,001	2,389,573,797	112,011,104	4,754,460,056	2,262,875,155
Portion in Indiana.....	261,310	290	50,328	873,749	88,679,154	508,255,982	425,032,100	83,223,882	803,871,186	295,615,204
St. Louis Area, <sup>4</sup> total.....	1,335,168	3,287	154,321	624,756	198,007,887	918,872,403	890,700,208	28,172,195	1,541,953,054	623,081,251
Portion in Illinois.....	301,605	480	39,450	280,472	55,520,872	315,517,231	302,071,770	13,445,461	473,797,987	158,280,736
Portion in Missouri.....	1,033,563	2,807	114,871	335,284	142,487,015	603,355,172	588,628,438	14,726,734	1,068,155,087	464,800,515
<i>Counties in Illinois <sup>5</sup></i>										
Adams.....	62,784	139	5,027	25,232	5,763,693	13,813,416	12,938,847	874,568	32,587,921	18,774,506
Alexander.....	22,542	44	1,125	3,488	1,178,251	6,349,558	6,234,925	114,632	8,818,488	2,468,930
Bond.....	14,406	15	815	1,164	317,064	1,237,646	1,165,999	71,647	2,151,107	618,461
Boone.....	15,078	19	1,388	2,700	1,593,100	3,776,447	3,639,399	137,048	7,742,607	3,966,060
Brown.....	7,892	3	11	11	11,071	14,923	13,951	972	44,704	29,751
Bureau.....	38,845	31	865	8,352	1,127,519	2,070,337	1,522,528	547,809	6,722,408	4,652,071
Calhoun.....	8,034	3	11	11	10,112	12,660	12,580	80	33,399	25,789
Carroll.....	18,433	23	341	1,183	517,622	1,335,844	1,266,976	68,868	2,111,511	775,667
Cass.....	16,537	11	543	732	776,693	3,203,620	3,111,629	91,991	4,848,487	1,144,867
Champaign.....	64,273	74	1,117	6,468	1,658,539	4,453,092	4,144,253	308,839	8,653,534	4,200,442

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) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties in Illinois—Continued</i>										
Christian.....	37,538	35	647	2,804	\$706,813	\$3,318,523	\$3,194,850	\$123,673	\$5,200,827	\$1,882,304
Clark.....	17,872	14	110	198	86,460	185,654	176,108	9,546	480,031	294,377
Clinton.....	21,369	20	417	2,748	417,336	2,599,810	2,480,988	115,822	3,713,247	1,116,437
Coles.....	37,315	44	2,220	4,285	2,155,247	5,693,881	5,531,301	162,580	10,561,068	4,867,387
Cook <sup>3</sup> .....	3,982,123	10,871	462,750	1,643,698	727,953,161	2,309,197,731	2,272,383,606	96,814,125	4,482,159,689	2,112,961,058
Crawford.....	21,085	31	664	5,276	932,613	6,840,471	6,629,498	210,973	10,124,836	3,284,365
Cumberland.....	10,419	7	93	61	156,532	166,295	156,295	2,287	365,473	200,801
De Kalb.....	32,644	52	2,150	8,654	2,802,690	10,034,491	18,634,180	400,311	27,532,598	8,498,107
De Witt.....	18,598	11	502	1,527	653,672	686,978	622,692	64,286	1,620,269	933,291
Douglas.....	17,914	15	167	814	197,451	574,422	551,063	23,359	1,075,368	500,946
Du Page.....	91,998	56	1,303	4,125	1,712,830	4,472,170	4,280,082	192,088	10,752,883	6,280,713
Edgar.....	24,966	27	760	1,599	695,944	2,363,624	2,311,097	52,527	4,466,644	2,103,020
Edwards.....	8,303	9	297	805	275,013	255,357	188,381	66,976	714,841	459,484
Effingham.....	19,013	25	674	2,202	577,395	1,172,328	1,104,865	67,963	2,328,379	1,150,051
Fayette.....	23,487	17	927	1,471	755,257	2,614,377	2,544,310	70,067	4,039,434	1,425,057
Ford.....	15,489	18	208	984	190,709	1,087,741	1,050,042	37,699	1,633,767	546,026
Franklin.....	59,442	38	129	1,078	177,692	301,314	331,489	29,825	940,005	578,601
Gallatin.....	10,091	4	39	171	32,340	39,549	38,669	880	112,815	73,260
Greene.....	20,417	16	394	2,001	441,299	518,800	390,605	128,195	1,222,625	703,825
Grundy.....	18,678	20	1,176	3,428	1,393,742	3,112,164	2,906,831	205,333	7,182,873	4,070,709
Hamilton.....	12,995	9	200	439	117,201	377,823	359,945	17,878	661,093	284,175
Hancock.....	20,420	29	309	521	270,814	923,811	906,533	17,228	1,608,782	744,671
Henderson.....	8,773	5	25	79	14,644	46,180	44,738	1,442	93,787	52,007
Henry.....	43,851	40	2,551	7,003	3,261,508	5,357,372	5,022,675	334,697	14,600,010	9,242,638
Iroquois.....	32,913	29	361	1,640	294,702	1,509,545	1,443,876	65,669	2,524,373	1,014,828
Jackson.....	35,680	33	1,504	3,600	1,439,032	5,554,200	5,411,038	143,162	9,054,548	3,500,348
Jasper.....	12,809	7	16	334	10,842	85,940	84,337	1,603	145,676	59,736
Jefferson.....	31,034	27	2,719	6,189	2,648,626	13,656,947	13,424,699	232,248	19,460,647	8,812,700
Jo Daviess.....	20,235	60	423	1,595	485,070	1,984,786	1,910,023	74,760	2,867,657	882,870
Johnson.....	10,203	4	7	62	7,850	12,348	11,900	448	34,470	22,122
Kane <sup>4</sup> .....	123,327	264	16,201	39,724	21,080,070	36,361,116	35,057,574	1,303,542	89,875,977	53,514,861
Kankakee.....	50,095	73	4,046	10,801	4,408,811	9,388,469	8,805,463	582,956	18,867,731	9,479,522
Kendall.....	10,555	7	286	495	303,245	366,963	336,573	30,390	1,036,197	668,234
Knox.....	51,339	66	3,694	12,319	3,901,776	13,470,814	12,815,540	655,274	23,248,834	9,778,020
Lake.....	104,337	142	8,577	50,822	13,467,126	38,828,931	36,011,861	2,817,120	74,865,824	30,036,843
LaSalle <sup>5</sup> .....	97,695	140	11,250	99,888	13,998,648	20,915,863	22,168,611	4,747,252	63,873,437	36,967,574
Lee.....	32,329	33	1,649	18,603	1,980,003	7,737,180	7,214,721	522,459	14,868,117	7,130,937
Livingston.....	39,092	39	979	1,913	1,047,432	1,555,090	1,299,958	255,132	3,535,499	1,980,409
Logan.....	28,863	22	412	729	389,281	906,316	832,474	73,842	1,740,548	840,232
McDonough.....	27,329	38	983	4,083	949,322	3,215,817	2,974,748	241,069	5,337,449	2,121,632
McHenry.....	35,079	46	1,719	4,674	2,212,198	4,120,028	3,904,294	215,734	9,321,664	5,201,636
MacLean.....	73,117	75	3,115	12,508	4,115,898	7,473,020	7,133,725	339,301	17,350,897	9,377,871
Macomb.....	51,731	101	8,014	30,238	10,444,307	29,139,195	27,765,471	1,383,724	53,963,191	24,323,969
Macoupin.....	48,703	47	263	1,257	340,350	702,828	670,365	32,463	1,322,297	619,466
Madison <sup>4</sup> .....	143,830	193	22,089	179,187	32,885,462	165,871,606	156,416,817	9,454,789	268,804,982	92,933,376
Marion.....	35,635	36	1,002	4,400	2,169,755	4,117,176	3,964,386	152,790	7,950,869	3,833,693
Mason.....	15,115	12	213	1,543	237,523	369,365	328,923	40,442	899,325	529,960
Massac.....	14,051	15	734	1,866	589,291	1,900,994	1,846,730	54,264	3,162,626	1,261,632
Menard.....	10,575	6	55	262	42,477	306,931	297,503	12,428	395,644	85,713
Mercer.....	16,641	9	145	524	181,772	332,440	251,909	80,471	678,990	346,559
Monroe.....	12,369	11	163	893	134,068	853,163	834,241	18,922	1,211,611	358,448
Montgomery.....	35,278	36	1,398	6,013	1,545,369	5,402,094	4,954,222	448,872	8,532,815	3,429,111
Morgan.....	34,240	42	912	2,712	909,240	4,244,856	4,133,065	111,191	6,631,940	2,387,084
Moultrie.....	13,247	9	35	117	36,810	54,392	49,508	4,884	212,418	128,026
Ogle.....	28,118	41	1,237	4,867	1,729,329	6,010,448	5,808,114	201,934	11,031,921	5,021,873
Peoria <sup>6</sup> .....	141,344	202	8,473	62,342	11,433,051	60,054,247	57,265,940	2,788,807	101,952,589	41,898,112
Perry.....	22,707	27	274	1,640	266,604	1,408,856	1,300,119	108,737	2,250,032	847,176
Pike.....	24,357	13	64	769	58,116	486,136	474,546	11,587	671,680	185,456
Pulaski.....	14,834	16	702	1,944	656,813	732,001	734,039	47,912	1,904,041	1,122,040
Putnam.....	5,235	3	13	179	11,187	5,751	5,443	308	22,603	10,752
Randolph.....	29,313	28	1,300	3,637	1,117,379	7,018,871	6,937,020	81,851	10,506,179	3,487,308
Rock Island <sup>6</sup> .....	93,191	150	15,994	61,996	22,620,099	47,450,695	45,477,093	1,972,992	112,784,519	65,334,434
St Clair <sup>4</sup> .....	157,775	282	17,361	110,285	22,035,410	149,645,625	145,664,953	3,980,672	214,092,985	65,347,360
Saline.....	37,100	18	188	1,106	239,837	896,112	861,192	34,920	1,432,022	589,810
Sangamon.....	111,733	121	5,244	14,635	6,594,847	13,427,120	12,804,070	622,150	33,441,676	20,014,450
Schuyler.....	11,676	7	105	263	155,087	323,757	317,947	5,810	672,301	248,544
Shelby.....	25,471	15	216	660	164,995	732,755	707,310	25,460	1,237,366	504,611
Stark.....	9,184	11	49	332	57,618	232,214	224,080	7,234	405,235	173,021
Stephenson.....	40,064	86	3,241	10,714	4,060,153	12,857,557	12,450,822	406,735	25,557,513	12,099,956
Tazewell.....	46,082	66	6,300	31,876	8,710,141	40,098,066	38,960,559	1,138,406	80,225,197	40,120,232
Union.....	19,883	19	294	1,605	206,382	390,569	363,379	27,190	993,047	602,478
Vermillion.....	89,339	94	4,674	17,473	5,795,162	15,871,151	14,700,882	1,170,269	28,420,375	12,549,224
Wabash.....	13,197	19	590	4,124	583,077	2,100,175	2,016,344	83,831	3,436,818	1,356,043
Warren.....	21,745	19	428	1,034	512,129	699,051	499,120	99,225	1,642,282	1,043,231
Washington.....	16,286	11	61	544	45,990	364,153	350,889	13,264	502,502	138,349
White.....	18,149	13	435	832	311,732	673,612	656,129	17,483	1,232,568	555,956
Whiteside.....	39,019	64	2,931	10,836	3,656,700	11,145,649	10,650,158	495,491	21,471,684	10,320,035
Will.....	110,732	151	11,744	111,536	16,325,842	52,724,903	41,840,674	10,884,229	96,805,683	44,080,780
Williamson.....	53,880	33	194	1,172	265,354	790,277	749,455	40,820	1,492,988	702,711
Winnebago <sup>6</sup> .....	117,373	283	19,916	64,750	28,291,371	45,807,433	43,178,716	2,628,737	115,812,461	70,005,008
Woodford.....	18,792	14	182	1,598	138,182	534,368	517,310	17,028	1,042,125	507,787
All other counties <sup>7</sup> .....	179,863	125	6,574	18,111	7,019,160	25,893,331	25,182,817	710,514	41,678,393	15,785,662

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) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Cities in Illinois having 10,000 inhabitants or more<sup>3</sup></i>										
Alton.....	30,151	50	2,716	14,276	\$3,272,725	\$10,429,809	\$9,658,526	\$741,283	\$20,052,724	\$9,622,915
Aurora.....	46,689	104	5,138	13,808	6,958,778	12,103,807	11,587,930	515,877	30,939,749	18,836,442
Bellville.....	28,425	83	3,422	7,222	4,047,020	10,657,260	10,349,190	308,070	20,386,694	9,679,434
Berwyn.....	47,027	27	64	54	105,076	228,726	221,784	6,942	481,074	252,348
Bloomington.....	30,930	62	2,937	12,050	3,972,917	7,039,677	6,710,944	328,733	16,644,122	9,604,445
Blue Island.....	16,534	27	1,155	7,220	1,165,611	4,760,185	4,440,374	319,811	9,766,563	4,996,368
Brookfield.....	10,035	4	23	30	36,585	53,846	49,784	4,062	238,015	170,160
Cairo.....	13,532	37	913	7,067	974,054	4,602,252	4,508,604	93,648	6,680,899	2,078,647
Calumet City.....	12,288	15	814	4,967	1,193,964	6,407,834	6,200,381	207,453	8,951,867	2,544,033
Centralia.....	12,583	16	259	1,983	287,563	528,116	450,567	77,549	1,240,505	718,389
Champaign.....	20,348	44	459	2,248	644,760	3,044,537	2,873,795	170,742	5,312,647	2,268,110
Chicago.....	3,376,438	10,201	405,399	1,393,553	626,466,054	2,100,935,460	2,014,019,354	86,916,106	3,915,052,959	1,814,117,499
Chicago Heights.....	22,321	63	4,422	33,751	6,994,910	24,657,100	23,146,465	1,510,635	44,025,879	19,368,779
Cicero.....	66,002	118	32,386	95,623	61,460,717	120,504,532	117,895,247	2,609,285	295,184,824	174,680,292
Danville.....	36,765	61	2,395	7,132	3,048,598	7,859,302	7,500,542	358,760	14,421,547	6,562,245
Decatur.....	57,510	95	7,586	37,522	9,698,688	27,861,102	26,547,367	1,313,735	51,633,868	23,772,760
East St. Louis.....	74,347	113	6,063	54,795	9,257,670	50,566,407	54,336,175	2,230,232	88,762,693	32,196,286
Elgin.....	35,929	82	6,996	11,860	8,576,160	13,012,075	12,662,532	349,543	32,052,503	19,040,422
Elmhurst.....	14,055	7	88	277	132,953	213,122	199,010	13,512	505,170	292,048
Evanston.....	63,338	71	1,108	5,119	1,930,769	3,930,921	3,709,512	221,109	11,484,315	7,553,394
Forest Park.....	14,555	42	486	1,929	758,493	2,114,608	2,058,936	60,672	4,340,321	2,225,713
Freeport.....	22,045	46	3,166	10,166	3,959,194	11,807,075	11,419,846	387,229	24,200,222	12,303,147
Galesburg.....	28,330	50	2,072	8,981	2,702,396	10,051,364	9,711,345	340,019	15,944,908	5,898,544
Granite City.....	25,130	33	8,157	37,651	13,891,736	25,864,429	23,886,909	1,977,520	58,064,853	32,140,424
Harvey.....	16,374	22	4,124	15,322	6,887,167	15,151,279	14,361,500	789,779	33,295,181	18,143,002
Highland Park.....	12,203	6	40	660	82,610	78,202	61,360	16,932	255,955	177,663
Jacksonville.....	17,747	38	895	2,700	897,787	4,234,437	4,124,113	110,324	6,597,890	2,363,459
Joliet.....	42,963	94	4,928	19,559	6,712,830	19,029,391	11,891,494	7,137,897	30,045,462	20,010,071
Kankakee.....	20,620	49	2,610	5,977	2,663,140	6,270,948	6,021,874	249,074	12,063,451	5,822,508
Kewanee.....	17,093	20	2,274	6,464	2,919,975	4,343,321	4,051,410	291,911	12,478,857	8,135,536
La Grange.....	10,103	14	191	1,511	325,104	703,437	652,754	50,683	1,443,918	740,481
La Salle.....	13,149	14	1,121	3,659	1,448,462	3,896,454	3,460,364	436,090	6,670,672	2,774,218
Lincoln.....	12,855	16	398	689	376,170	820,570	749,903	70,667	1,012,090	701,520
Mattoon.....	14,631	30	1,130	3,448	1,358,666	2,728,226	2,584,244	143,982	5,235,801	2,507,575
Maywood.....	25,820	25	1,374	5,545	1,917,247	12,364,883	12,197,203	167,680	20,100,409	7,735,526
Melrose Park.....	10,741	11	1,259	9,120	2,270,857	4,208,141	3,888,146	319,995	10,715,013	6,506,872
Moline.....	32,236	66	5,499	23,619	7,920,899	17,115,833	16,141,546	974,287	44,846,631	27,720,708
Onk Park.....	63,982	46	432	1,012	939,855	1,023,007	959,033	63,974	3,118,841	2,095,834
Ottawa.....	15,094	25	1,694	18,146	2,402,081	2,878,120	2,171,420	706,700	7,934,456	5,056,336
Park Ridge.....	10,417	6	16	101	26,589	60,593	55,916	3,677	128,286	67,043
Pekin.....	16,129	31	1,304	12,656	1,813,526	18,143,024	17,034,044	508,980	31,604,231	13,851,207
Peoria.....	104,969	185	6,738	36,401	8,372,091	36,727,152	35,141,594	1,585,558	67,266,317	30,530,165
Quincy.....	39,241	124	3,156	13,016	3,451,779	8,273,535	7,625,673	647,862	18,563,172	10,279,637
Rockford.....	85,864	245	17,526	54,748	24,586,585	37,221,899	34,860,883	2,361,016	96,656,100	59,434,201
Rock Island.....	37,953	63	5,916	25,274	7,665,525	18,856,112	18,281,514	574,598	39,362,709	20,506,597
Springfield.....	71,864	101	4,410	9,433	5,510,429	10,478,122	10,173,439	304,683	25,302,825	14,824,703
Storling.....	10,012	35	1,465	5,437	1,750,101	4,475,951	4,170,105	305,846	9,733,268	5,267,317
Streator.....	14,728	35	1,317	4,758	1,601,937	2,324,761	1,569,088	755,673	6,171,776	3,847,015
Urbana.....	13,060	21	329	1,163	497,394	559,615	526,558	33,057	1,472,136	912,521
Waukegan.....	33,490	60	3,323	36,333	5,624,467	17,880,871	16,082,640	1,798,231	32,531,510	14,650,639
West Frankfort.....	14,683	13	47	361	68,049	185,265	169,282	15,983	436,819	251,554
Wilmette.....	15,233	7	78	272	175,306	185,572	165,003	20,569	634,404	448,922
Winnetka.....	12,166	4	10	20	41,095	70,211	67,381	2,830	167,334	97,123

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

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

<sup>3</sup> The Chicago Industrial Area comprises Cook, Du Page, Kane, Lake, and Will Counties in Illinois, together with Lake County, Ind. For statistics by industries for the area and for Cook and Kane Counties, see Table 13.

<sup>4</sup> The St. Louis Industrial Area comprises Madison and St. Clair Counties in Illinois, together with St. Louis city and St. Louis County, Mo. For statistics by industries for Madison and St. Clair Counties, see Table 13.

<sup>5</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the counties shown separately. In the case of Johnson County, in which fewer than 10 wage earners were employed, statistics are here presented in order that comparison may be made with the corresponding figures for 1927 (published in mimeographed form).

<sup>6</sup> For statistics by industries for this county, see Table 13.

<sup>7</sup> Clay, Fulton, Hardin, Jersey, Lawrence, Marshall, Platt, Pope, Richland, Scott, and Wayne Counties. (See footnote 5.)

<sup>8</sup> Not including Canton, Mount Vernon, East Moline, and Harrisburg, 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. No manufacturing was reported from Elmwood Park.

<sup>9</sup> 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 <sup>1</sup>	836,347	657,092	179,255	8,840	8,430	410	13,839	13,047	792	122,113	81,719	40,394	691,555	553,896	137,659
1919 <sup>1,4</sup>	804,505	639,101	165,404	15,282	14,609	673	11,024	10,485	539	125,385	89,802	35,583	653,114	527,205	125,909
1914 <sup>4</sup>	617,927	510,833	107,094	15,854	15,180	674	7,950	7,714	236	87,150	63,874	23,276	506,943	421,065	85,878
1909 <sup>1</sup>	561,044	465,139	95,905	17,357	16,725	632	6,764	6,548	216	71,159	55,684	15,475	465,704	386,182	79,522

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 1,730; male, 1,688; female, 42. Other salaried officers and employees—total, 27,829; male, 17,655; female, 10,171. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for December 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	691,555	<i>654,929</i>	609,575	680,093	681,903	685,323	697,124	699,081	712,511	729,779	724,572	698,293	665,477	89.7
1919 <sup>1</sup>	653,114	<b>650,664</b>	643,541	636,041	620,500	<i>618,701</i>	625,740	638,982	658,478	681,270	681,015	689,945	689,491	89.7
1914 <sup>1</sup>	506,943	<i>517,634</i>	518,292	521,752	514,505	508,665	512,246	505,982	502,603	504,543	505,655	488,164	<i>488,275</i>	92.6
1909 <sup>1</sup>	465,704	<i>438,694</i>	442,881	452,563	455,145	454,965	450,375	454,410	460,414	481,796	493,928	490,452	498,640	88.0

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes.....	15,333	691,555	45 and over but under 48.....	1,003	41,392
Not reported.....	1,505	3,395	48.....	2,622	196,636
Under 40.....	246	3,858	Over 48 but under 54.....	2,654	201,197
40.....	384	13,612	54.....	893	28,626
Over 40 but under 44.....	147	2,755	Over 54 but under 60.....	744	66,493
44 and over but under 45.....	4,149	109,932	60 and over.....	986	23,059

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..	15,333	18,593	18,026	691,555	653,114	465,764	51 to 100.....	949	921	709	68,293	66,033	50,856
No wage earners.....	772	2,845	2,518				101 to 250.....	776	718	541	119,846	110,471	82,889
1 to 5.....	6,544	8,277	8,801	17,240	18,770	20,079	251 to 500.....	271	236	194	96,192	81,846	66,781
6 to 20.....	3,913	3,874	3,560	43,787	40,614	40,022	501 to 1,000.....	129	144	86	89,551	98,326	57,742
21 to 50.....	1,908	1,808	1,578	62,624	59,187	51,490	1,001 to 2,500.....	52			77,895		
							2,501 and over.....	24	70	39	116,127	177,867	95,905

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	15,333	13,693	13,026	691,555	653,114	405,704	\$0,282,092,240	\$5,425,244,694	\$1,919,276,594	\$2,930,037,761	\$1,936,974,248	\$768,349,904
Less than \$5,000.....	( <sup>2</sup> )	3,725	6,181	( <sup>3</sup> )	1,968	7,000	( <sup>3</sup> )	9,757,963	15,040,868	( <sup>3</sup> )	5,979,405	9,864,314
\$5,000 to \$19,999.....	4,516	5,360	5,823	10,094	12,639	27,327	52,695,243	55,637,492	59,794,517	32,782,719	32,751,003	36,175,677
\$20,000 to \$99,999.....	5,477	6,104	3,773	42,361	49,521	65,907	259,074,728	233,014,448	170,400,943	156,955,504	124,132,828	91,858,229
\$20,000 to \$49,999.....	3,383	( <sup>3</sup> )	( <sup>3</sup> )	18,389	( <sup>3</sup> )	( <sup>3</sup> )	109,460,505	( <sup>3</sup> )	( <sup>3</sup> )	67,088,107	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	2,094	( <sup>3</sup> )	( <sup>3</sup> )	23,972	( <sup>3</sup> )	( <sup>3</sup> )	149,614,223	( <sup>3</sup> )	( <sup>3</sup> )	89,207,307	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	3,519	2,916		120,615	122,637		803,376,484	678,032,686		462,704,871	340,751,214	
\$100,000 to \$249,999.....	2,275	( <sup>3</sup> )		53,994	( <sup>3</sup> )		362,990,246	( <sup>3</sup> )		213,614,061	( <sup>3</sup> )	
\$250,000 to \$499,999.....	1,244	( <sup>3</sup> )	1,976	66,621	( <sup>3</sup> )	185,743	440,386,238	( <sup>3</sup> )	595,294,165	249,090,810	( <sup>3</sup> )	280,112,954
\$500,000 to \$999,999.....	811	680		79,280	76,663		570,467,941	488,266,611		300,332,149	234,198,879	
\$1,000,000 and over.....	1,010	799	273	430,205	389,686	179,787	4,596,477,844	3,957,535,494	1,078,746,101	1,977,262,518	1,199,160,914	340,338,700
\$1,000,000 to \$2,499,999.....	593	( <sup>3</sup> )	( <sup>3</sup> )	114,009	( <sup>3</sup> )	( <sup>3</sup> )	918,119,640	( <sup>3</sup> )	( <sup>3</sup> )	459,487,224	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	240	( <sup>3</sup> )	( <sup>3</sup> )	90,550	( <sup>3</sup> )	( <sup>3</sup> )	823,786,748	( <sup>3</sup> )	( <sup>3</sup> )	391,680,605	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	177	( <sup>3</sup> )	( <sup>3</sup> )	234,536	( <sup>3</sup> )	( <sup>3</sup> )	2,854,571,450	( <sup>3</sup> )	( <sup>3</sup> )	1,126,188,689	( <sup>3</sup> )	( <sup>3</sup> )

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	15,333	13,693	691,555	653,114	\$0,282,092,240	\$5,425,244,694	\$2,930,037,761	\$1,936,974,248
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	8,041	6,895	644,427	589,978	5,957,684,508	5,004,523,563	2,756,277,406	1,754,099,526
Other forms of ownership or control (individual, partnership, etc.).....	7,292	11,698	47,128	63,136	324,407,732	420,721,131	173,760,265	182,274,722
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	1,623	( <sup>1</sup> )	337,030	( <sup>1</sup> )	3,203,282,910	( <sup>1</sup> )	1,381,749,005	( <sup>1</sup> )
Independent (single-unit).....	13,710	( <sup>1</sup> )	353,625	( <sup>1</sup> )	3,078,809,330	( <sup>1</sup> )	1,548,288,756	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

## CENSUS OF MANUFACTURES: 1929

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR INDUSTRIAL AREAS AND 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
		Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	
The State:														
1929.....	2,807,001	1,222,555	3,220	675,770	621	429,732	429	105,652	99	11,401	207,973	1,584,446	63,613	851,644
1927.....	2,456,997	1,205,918	3,373	736,398	650	370,449	473	87,019	177	12,032	161,810	1,251,079	63,253	884,664
1925.....	2,247,408	1,171,056	3,908	778,972	651	304,464	507	77,768	110	9,872	130,941	1,076,352	59,901	724,385
1919 <sup>1</sup> .....	1,654,947	1,064,706	4,884	779,156	410	218,182	1,195	55,782	149	11,636	79,263	690,241	43,506	684,326
1914 <sup>1</sup> .....	1,294,421	1,021,759	6,142	947,949	( <sup>2</sup> )	( <sup>2</sup> )	1,672	61,500	189	12,310	48,481	272,662	28,613	408,812
<i>Industrial Areas</i>														
Chicago Area, total.....	2,729,674	1,292,677	1,974	493,594	430	542,442	307	252,647	48	3,994	167,365	1,436,997	49,405	1,116,899
Portion in Illinois (Cook, Du Page, Kane, Lake, and Will Counties).....	1,855,925	751,997	1,727	446,242	315	205,559	213	96,172	48	3,994	153,872	1,103,928	38,048	465,863
Portion in Indiana (Lake County).....	873,749	540,680	247	47,352	115	336,893	94	156,475	-----	-----	13,493	333,069	11,367	651,036
St. Louis Area, total.....	624,756	259,343	784	145,214	204	105,561	86	7,506	43	1,062	44,254	365,413	10,866	212,991
Portion in Illinois (Madison and St. Clair Counties).....	289,472	164,251	337	72,734	143	89,736	41	1,781	-----	-----	9,570	125,221	5,639	153,004
Portion in Missouri (St. Louis city and St. Louis County).....	335,284	95,092	447	72,480	61	15,825	45	5,725	43	1,062	34,684	240,192	5,217	59,887
<i>Counties in which aggregate horsepower exceeded \$5,000: 1929</i>														
Adams.....	26,232	5,918	34	5,817	6	90	3	11	-----	-----	1,753	20,314	53	798
Cook.....	1,643,668	621,548	1,462	359,652	228	177,482	178	83,839	4	575	144,201	1,022,120	32,257	391,568
Kane.....	39,724	17,802	57	10,951	7	3,710	8	622	41	2,519	3,418	21,622	1,543	10,929
Lake.....	56,822	33,354	48	22,252	32	10,718	15	384	-----	-----	3,488	23,468	1,662	27,542
La Salle.....	99,888	77,039	85	20,308	32	51,543	3	33	29	5,065	2,011	22,849	4,083	70,057
Macon.....	39,238	22,183	33	6,008	12	15,575	-----	-----	-----	-----	1,801	17,055	1,553	25,772
Madison.....	179,187	115,314	252	41,227	122	72,761	25	1,326	-----	-----	4,947	63,873	4,340	99,908
Peoria.....	62,342	27,234	92	15,893	20	11,215	11	176	-----	-----	2,014	35,058	649	11,240
Rock Island.....	61,996	10,650	39	7,822	8	2,584	3	244	-----	-----	5,479	51,346	1,188	11,009
St. Clair.....	110,285	48,937	85	31,507	21	16,075	16	455	-----	-----	4,623	61,848	1,269	53,696
Tazewell.....	31,876	11,963	20	4,024	3	7,870	6	69	-----	-----	3,046	19,613	728	13,342
Will.....	111,586	78,090	147	52,187	48	13,679	11	11,324	3	900	2,313	33,496	2,327	34,693
Winnebago.....	64,760	22,440	53	14,147	10	6,636	7	425	16	1,232	7,402	42,310	3,311	18,091

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

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

<sup>3</sup> Not tabulated 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 footnote 5 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State	2,807,001	1,222,555	1,584,446	861,644	La Salle	99,888	77,039	22,849	70,057
Adams	26,232	5,918	20,314	768	Lee	18,603	18,805	4,798	11,285
Alexander	8,488	4,063	4,423	2,200	Livingston	1,913	435	1,473	—
Bond	1,154	705	443	369	Logan	729	143	586	—
Boone	2,700	2,075	625	1,612	McDonough	4,088	1,885	2,203	64
Brown	11	2	9	—	McHenry	4,674	1,824	2,850	1,639
Bureau	8,552	4,549	3,803	3,752	McLean	12,605	3,375	9,130	—
Calhoun	11	11	( <sup>2</sup> )	—	Macon	39,238	22,133	17,055	25,772
Carroll	1,183	428	755	155	Macoupin	1,257	793	464	80
Cass	732	90	642	—	Madison	179,187	115,314	63,873	99,908
Champaign	6,468	2,738	3,730	472	Marion	4,400	2,335	2,065	2,298
Christian	2,864	984	1,880	( <sup>3</sup> )	Mason	1,543	300	1,243	—
Clark	198	—	198	—	Massac	1,866	1,223	643	375
Clinton	2,748	1,939	809	164	Menard	262	140	122	—
Coles	4,285	1,727	2,558	1,057	Mercer	524	243	281	22
Cook	1,643,668	621,548	1,022,120	391,569	Monroe	803	377	426	—
Crawford	5,276	3,662	1,614	2,663	Montgomery	6,013	2,640	3,373	1,309
Cumberland	61	—	61	—	Morgan	2,712	853	1,859	—
De Kalb	8,654	3,985	4,669	1,274	Moultrie	117	—	117	—
De Witt	1,527	200	1,327	55	Ogle	4,867	1,615	3,252	954
Douglas	814	505	309	—	Peoria	62,242	27,284	35,068	11,240
Du Page	4,125	1,203	2,922	1,131	Perry	1,640	640	1,000	—
Edgar	1,590	651	948	152	Pike	759	527	232	36
Edwards	805	374	431	—	Pulaski	1,044	1,273	671	85
Efingham	2,202	542	1,660	65	Putnam	179	75	104	—
Fayette	1,471	330	1,141	—	Randolph	3,087	2,638	1,049	710
Ford	984	110	874	—	Rock Island	61,996	10,650	51,346	11,009
Franklin	1,078	250	828	—	St. Clair	110,285	48,937	61,348	53,696
Gallatin	171	135	36	—	Saline	1,106	427	679	—
Greene	2,001	75	1,926	—	Sangamon	14,685	1,447	13,238	—
Grundy	3,428	2,600	868	2,145	Schuyler	263	155	98	—
Hamilton	439	322	117	—	Shelby	660	403	267	30
Hancock	521	62	459	40	Stark	382	185	197	—
Henderson	79	60	19	—	Stephenson	10,714	5,072	5,642	2,550
Henry	7,603	4,933	2,670	5,865	Tazewell	31,876	11,963	19,913	13,342
Iroquois	1,640	366	1,274	—	Union	1,605	534	1,071	—
Jackson	3,696	1,095	2,601	579	Vermillion	17,473	6,791	10,682	5,180
Jasper	334	220	114	—	Wabash	4,124	3,398	726	1,272
Jefferson	6,189	3,914	2,275	6,950	Warren	1,034	566	460	124
Jo Daviess	1,595	947	648	291	Washington	504	385	170	12
Johnson	62	18	44	—	White	832	430	402	—
Kane	39,724	17,802	21,922	10,929	Whiteside	10,836	7,605	3,231	5,711
Kankakee	10,801	4,752	6,049	2,415	Will	111,680	78,090	33,496	34,693
Kendall	495	—	495	—	Williamson	1,172	480	692	535
Knox	12,319	1,078	11,241	676	Winnebago	64,750	22,440	42,310	18,091
Lake	56,822	33,354	23,468	27,542	Woodford	1,598	1,065	533	35
					All other counties	18,111	12,280	5,831	14,595

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

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds)	20,315,068	\$70,953,505	18,053,799	19,122,421	16,769,792	14,745,250	14,242,284
Anthracite (tons, 2,240 pounds)	353,536	1,803,083	( <sup>3</sup> )	214,506	238,451	219,614	155,482
Bituminous (tons, 2,000 pounds)	19,919,108	69,150,422	( <sup>3</sup> )	18,882,174	16,502,727	14,499,282	14,068,094
Coke (tons, 2,000 pounds)	5,018,738	27,583,690	( <sup>4</sup> )	( <sup>4</sup> )	3,903,043	2,689,250	3,982,844
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup>	468,362,543	15,835,739	( <sup>4</sup> )	( <sup>4</sup> )	204,813,042	172,677,372	118,915,776
Gasoline and kerosene (gallons) <sup>5</sup>	3,621,010	459,104	( <sup>4</sup> )	( <sup>4</sup> )	4,798,710	—	—
Gas, natural (M cubic feet)	472,866	181,845	( <sup>4</sup> )	( <sup>4</sup> )	—	—	—
Gas, manufactured (M cubic feet)	55,061,887	14,858,343	( <sup>4</sup> )	( <sup>4</sup> )	3,557,698	1,831,684	12,045,341
Other fuels	—	1,059,806	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours)	2,120,376,599	32,993,252	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Total cost of fuel and purchased energy		\$163,925,284	Cost \$154,373,036	Cost ( <sup>4</sup> )	Cost \$125,889,392	Cost \$61,427,596	Cost \$48,194,400

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

CENSUS OF MANUFACTURES: 1929

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

[This table gives 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 contractors for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	15,333	135,952	691,556	1,222,556	1,584,446	\$368,721,898	1,024,870,235	\$108,957,624	163,090,855	6,282,092,240	2,930,037,761
Agricultural implements.....	42	2,578	22,748	31,504	30,081	5,484,860	33,740,527	61,113,509	2,692,532	143,678,378	70,872,337
Aircraft and parts.....	7	48	194	50	410	134,717	285,643	618,156	16,507	1,120,920	495,257
Aluminum manufactures.....	15	109	812	-----	2,552	371,306	1,294,176	2,672,556	104,519	6,097,453	3,320,278
Artificial and preserved flowers and plants.....	26	107	487	-----	140	338,436	497,298	1,218,930	14,041	2,826,038	1,593,078
Asbestos products, other than steam packing or pipe and boiler covering.....	7	89	980	300	1,150	269,958	1,365,806	3,810,019	431,804	8,025,390	3,774,567
Awnings, tents, sails, and canvas covers.....	63	142	583	-----	276	878,712	784,074	2,277,230	25,220	4,228,007	1,925,557
Bags, other than paper, not made in textile mills.....	17	55	484	-----	584	189,298	425,400	4,719,768	23,019	5,759,903	1,017,120
Bags, paper, exclusive of those made in paper mills.....	5	67	405	-----	738	152,599	513,249	2,287,813	84,369	3,470,530	1,164,348
Baking powders, yeast, and other leavening compounds.....	10	287	1,135	7,161	5,528	1,110,086	1,978,344	9,183,956	418,895	24,902,842	15,290,991
Baskets and rattan and willow ware, not including furniture.....	13	20	126	170	118	28,789	116,502	200,985	6,110	450,050	243,005
Belting, leather.....	12	106	379	200	507	250,030	498,353	1,801,570	20,745	3,778,501	1,050,180
Beverages.....	267	552	1,742	3,396	4,656	1,437,240	2,608,437	6,723,914	379,964	19,160,999	12,067,121
Billiard and pool tables, bowling alleys, and accessories.....	3	7	21	-----	19	15,687	22,710	29,037	1,577	90,608	69,084
Blacking, stains, and dressings.....	15	43	40	-----	52	114,295	67,294	295,492	6,108	833,816	532,216
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	16	199	1,457	1,300	2,227	658,420	1,860,424	4,248,673	183,186	10,605,959	6,174,100
Bookbinding and blank-book making.....	120	557	3,193	-----	2,869	1,617,680	4,117,641	3,895,537	125,194	13,003,477	9,042,740
Boot and shoe cut stock, not made in boot and shoe factories.....	5	43	283	325	165	146,298	277,315	3,220,700	17,467	3,979,496	732,320
Boots and shoes, other than rubber.....	65	1,091	14,725	5,693	5,760	3,144,466	13,433,889	39,045,362	300,205	73,775,876	34,450,249
Boxes, cigar, wooden.....	5	10	90	-----	115	55,503	82,243	80,297	4,348	280,914	187,269
Boxes, paper, not elsewhere classified.....	108	874	5,382	2,473	4,661	2,000,870	6,080,344	17,244,621	179,697	31,885,633	14,361,315
Boxes, wooden, except cigar boxes.....	49	263	2,175	4,040	5,432	579,364	2,419,112	5,351,667	125,696	10,238,876	4,761,512
Bread and other bakery products.....	2,208	2,032	10,929	4,044	22,603	4,573,865	25,921,879	63,638,879	2,446,000	138,591,365	72,500,426
Brooms.....	32	34	389	155	319	81,292	407,444	1,018,968	12,170	1,065,040	924,502
Brushes, other than rubber.....	26	63	280	125	367	212,450	373,009	866,838	19,399	1,904,551	1,018,314
Butter.....	113	363	829	1,500	5,969	733,232	1,068,583	27,740,603	259,327	33,384,457	5,373,527
Buttons.....	14	15	312	60	125	19,429	201,604	174,171	6,652	472,406	291,583
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	7	11	34	-----	9	38,847	69,332	707,669	8,272	903,917	187,976
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces.....	114	755	4,475	6,201	8,330	1,657,757	4,245,317	24,912,363	394,651	41,890,685	16,583,671
Car and general construction and repairs, electric-railroad repair shops.....	26	286	3,181	-----	7,852	584,926	5,656,763	3,078,578	130,321	10,351,416	6,242,517
Car and general construction and repairs, steam-railroad repair shops.....	146	2,336	31,217	34,865	50,112	6,229,560	50,909,538	39,278,437	3,127,563	99,622,310	57,216,307
Carbon paper and inked ribbons.....	9	76	141	-----	334	154,686	156,282	815,060	10,843	1,805,703	979,794
Carriages and sleds, children's.....	6	46	269	-----	291	150,145	323,222	701,391	15,061	1,366,296	609,844
Carriages, wagons, sleighs, and sleds.....	7	140	696	3,051	2,818	208,758	868,835	2,288,424	82,620	4,107,978	1,780,928
Cars, electric and steam railroad, not built in railroad repair shops.....	25	1,471	9,091	35,262	14,194	3,361,422	16,226,157	56,881,788	968,332	82,470,979	24,629,859
Cash registers, and adding, calculating, and card-tabulating machines.....	6	330	1,051	280	900	764,128	1,540,000	730,162	77,903	9,096,631	8,288,576
Caskets, coffins, burial cases, and other morticians' goods.....	29	213	1,385	685	1,797	654,987	2,175,984	4,193,376	100,419	9,720,604	5,435,800
Cereal preparations.....	11	62	234	290	640	158,490	313,362	2,584,533	81,877	4,245,130	1,578,720
Cheese.....	77	27	137	466	628	49,508	105,808	2,580,656	42,588	3,194,381	1,671,137
Chemicals, not elsewhere classified.....	36	823	3,626	43,822	13,489	1,685,793	5,714,261	20,199,514	2,063,447	60,395,800	28,593,030
China firing and decorating, not done in potteries.....	7	37	142	-----	3	76,163	194,792	297,069	13,216	725,360	414,535
Chocolate and cocoa products, not including confectionery.....	3	3	77	900	1,224	6,807	111,615	2,261,236	50,708	4,980,627	2,068,593
Cigars and cigarettes.....	137	104	808	-----	43	210,184	927,128	1,269,560	8,840	3,273,600	1,995,260
Clay products (other than pottery) and nonclay refractories.....	101	732	6,506	25,958	29,420	2,178,243	9,346,829	2,080,305	3,813,632	23,684,673	17,781,736
Cleaning and polishing preparations.....	55	205	316	10	795	671,079	412,471	2,689,892	35,759	7,496,774	4,871,123
Clocks, clock movements, time-recording devices, and time stamps.....	9	485	3,015	3,401	498	1,314,826	3,280,841	2,923,062	80,356	13,323,491	10,320,078
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	319	3,254	20,304	1,335	5,545	8,257,034	28,678,113	48,611,260	453,684	118,475,388	69,410,344
Clothing, women's, not elsewhere classified.....	402	1,414	13,802	-----	2,259	4,340,017	14,924,007	39,880,897	287,617	76,649,695	35,481,181
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	35	98	1,795	-----	415	196,512	1,242,622	3,728,496	35,958	6,572,716	2,808,262
Coffee and spice, roasting and grinding.....	50	470	911	1,350	3,535	1,281,795	1,217,411	39,771,277	240,340	48,721,155	8,709,538
Coke, not including gas-house coke.....	6	277	1,723	19,368	15,628	844,727	2,698,042	841,561	21,516,779	34,305,030	11,946,440
Compressed and liquefied gases.....	17	151	213	1,259	6,165	294,733	364,066	542,266	254,698	3,768,833	2,072,089
Concrete products.....	174	238	1,108	692	4,015	688,323	1,714,124	2,121,480	139,419	7,140,765	4,876,797
Condensed and evaporated milk.....	33	86	455	3,590	1,402	190,286	535,081	10,211,004	239,434	13,293,798	2,843,358
Confectionery.....	156	1,658	11,242	3,641	12,086	4,609,398	11,429,426	54,905,321	773,457	91,116,763	35,432,085
Cooperage.....	32	112	1,135	2,760	903	420,074	1,518,487	5,490,423	90,315	8,407,839	2,887,101
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	256	749	3,297	221	5,996	2,265,638	5,537,547	9,586,405	183,138	23,702,526	13,032,933
Corn sirup, corn sugar, corn oil, and starch.....	4	808	3,265	49,063	180	2,080,420	5,093,178	55,183,133	1,723,163	94,773,487	37,865,141
Corsets and allied garments.....	21	281	1,572	50	408	801,900	1,635,207	5,085,255	32,077	11,428,777	6,311,445
Cotton goods.....	12	90	1,237	2,768	1,821	307,330	1,197,316	3,176,945	105,834	5,596,178	2,313,399
Cutlery (not including silver and plated cutlery) and edge tools.....	19	84	449	-----	1,308	225,897	766,433	440,367	43,911	2,200,745	1,707,467
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and aparlants' supplies.....	19	195	680	80	2,167	591,166	1,099,795	2,379,713	80,644	6,218,918	3,758,561
Dental goods and equipment.....	10	33	138	-----	180	104,180	158,898	1,456,069	7,454	2,008,504	544,981

See footnotes at end of table, p. 149.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Doors, shutters, and window sash and frames, metal	13	90	406	100	857	356,274	744,417	1,060,094	24,630	2,717,325	1,022,692
Druggists' preparations	36	491	547	8	3,660	1,326,786	674,216	2,128,471	56,981	7,601,290	5,415,847
Dyeing and finishing textiles	21	315	1,638	5,545	1,010	850,660	2,026,986	6,082,668	233,180	17,137,218	7,821,874
Electrical machinery, apparatus, and supplies	245	15,035	57,347	59,075	36,664	35,080,541	95,440,817	163,161,014	2,504,201	436,021,917	269,296,702
Electroplating	83	167	1,161	4,039	4,039	486,721	1,970,008	1,325,461	180,851	5,615,393	4,109,051
Embroideries	43	70	570	109	109	179,402	659,447	570,707	15,677	1,897,117	1,805,293
Emery wheels and other abrasive and polishing appliances	8	46	139	222	222	241,927	227,099	858,787	16,730	1,760,866	825,340
Engines, turbines, tractors, and water wheels	16	2,100	13,419	2,240	49,817	4,466,274	20,838,442	51,196,467	1,694,531	112,622,154	59,731,156
Engravers' materials	4	17	75	306	306	100,851	131,490	585,828	13,370	1,041,453	442,285
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking	24	130	630	871	871	533,675	900,331	734,802	36,087	3,356,017	2,015,128
Engraving, steel and copperplate, and plate printing	50	235	1,105	208	913	864,088	1,546,607	1,445,975	46,320	6,110,197	4,617,002
Engraving, wood	8	11	72	10	10	39,196	208,034	39,303	1,734	405,537	364,600
Envelopes	20	241	1,123	229	1,573	750,364	1,465,328	2,720,462	57,041	7,116,213	4,337,810
Explosives	9	62	384	1,254	1,900	164,140	499,675	1,817,947	122,161	4,116,612	2,170,514
Fancy and miscellaneous articles, not elsewhere classified	90	287	1,604	739	739	738,716	1,688,263	3,676,355	50,352	8,216,494	4,489,787
Feeds, prepared, for animals and fowls	41	460	1,270	2,232	22,066	1,239,949	1,894,213	48,591,563	371,642	58,068,467	10,005,272
Fertilizers	12	120	454	342	5,408	231,305	536,000	4,043,628	122,010	8,101,734	3,036,096
Fireworks	3	6	92	49	49	11,136	107,895	116,025	3,053	415,719	315,741
Flags and banners	6	20	97	32	32	64,317	77,130	198,000	2,324	440,143	244,810
Flavoring extracts and flavoring sirups	73	398	849	2,400	3,566	1,474,090	1,271,761	11,049,718	220,465	27,346,826	15,170,043
Flour and other grain-mill products	81	318	1,144	14,921	9,002	817,193	1,621,914	37,005,904	450,877	44,282,154	9,750,373
Food preparations, not elsewhere classified	66	338	1,350	970	3,207	977,648	1,621,624	14,931,253	214,026	23,213,627	8,008,348
Forgings, iron and steel, not made in plants operated in connection with rolling mills	24	433	3,526	4,460	23,677	1,415,702	6,490,003	13,665,461	1,435,160	33,417,940	18,317,310
Foundry and machine-shop products, not elsewhere classified	750	10,025	45,064	22,032	113,964	30,418,372	73,200,939	100,546,684	5,055,335	317,485,560	202,283,550
Foundry supplies	13	50	104	2,250	2,250	162,005	248,833	1,305,270	82,839	2,523,710	1,140,001
Fur goods	234	246	954	408	408	988,322	2,065,594	7,789,438	54,488	14,070,620	6,226,093
Furnishing goods, men's, not elsewhere classified	36	294	2,036	280	469	606,231	1,411,950	4,905,407	42,021	8,242,251	3,294,823
Furniture, including store and office fixtures	375	2,630	23,707	17,598	33,132	8,409,643	32,453,307	57,331,575	1,440,451	130,535,112	71,754,086
Galvanizing and other coating, not done in plants operated in connection with rolling mills	11	41	150	288	288	148,224	223,877	452,752	38,243	1,072,007	581,612
Gas and electric fixtures; lamps, lanterns, and reflectors	82	1,144	4,502	562	6,569	3,242,771	6,492,183	10,727,872	425,645	30,325,851	10,172,334
Gas machines, gas meters, and water and other liquid meters	8	45	194	232	232	250,023	325,552	523,614	15,442	1,768,125	1,220,069
Gas, manufactured, illuminating and heating	46	3,007	2,944	42,701	25,489	5,802,490	4,697,771	9,040,647	10,355,712	57,309,312	37,012,953
Glass	13	359	4,658	21,997	8,343	854,342	6,290,708	5,321,949	2,319,239	22,938,002	15,206,814
Glass products (except mirrors) made from purchased glass	33	69	257	178	178	184,271	375,600	534,510	14,192	1,391,175	842,473
Gloves and mittens, cloth or leather and leather combined, made from purchased fabrics	10	64	1,330	245	208	125,579	803,033	2,700,967	25,683	4,673,780	1,047,136
Gloves and mittens, leather	16	59	548	120	120	145,530	570,506	1,160,573	13,901	2,197,033	1,022,529
Glue and gelatin	17	120	609	5,480	1,273	317,068	849,395	2,963,670	300,610	6,632,134	3,358,336
Gold leaf and foil	7	6	129	23	23	16,264	152,373	118,381	1,782	326,055	206,492
Grease and tallow, not including lubricating greases	19	113	822	4,377	1,751	361,355	1,257,549	8,540,435	284,174	13,044,859	4,220,250
Hair work	6	6	15	1	1	16,543	17,663	32,074	269	62,710	59,773
Hand stamps and stencils and brands	36	147	456	30	359	399,504	623,885	635,785	28,130	2,394,271	1,730,356
Hardware not elsewhere classified	84	948	5,141	3,308	8,871	2,535,850	6,870,204	8,908,352	847,494	27,072,415	17,726,569
Hat and cap materials, men's	5	9	55	8	8	16,099	62,853	105,188	773	1,017,970	80,015
Hats and caps, except felt and straw, men's	48	90	570	131	131	362,483	735,196	1,527,210	17,148	3,545,418	2,001,051
House-furnishing goods, not elsewhere classified	109	339	1,744	1,982	1,982	1,129,424	1,005,481	6,299,590	70,148	11,757,929	5,418,182
Ice cream	186	565	1,401	307	15,372	1,630,501	2,773,327	11,839,122	507,876	28,227,975	15,741,477
Ice, manufactured	215	426	1,579	10,374	70,750	1,178,250	3,332,007	545,825	2,103,394	14,820,113	12,170,804
Ink, printing	30	134	328	33	2,970	562,340	437,759	2,941,592	91,768	6,305,207	3,271,877
Instruments, professional and scientific	39	762	3,952	6,355	1,927,228	5,985,176	4,819,097	206,166	18,331,006	13,304,343	
Iron and steel: Blast furnaces	6	355	2,547	8	921,249	4,224,127	40,401,502	23,156,440	82,566,913	10,008,971	
Iron and steel: Steel works and rolling mills	36	3,771	30,416	247,356	184,712	10,840,015	55,359,031	127,888,721	16,772,481	268,077,085	123,415,833
Iron and steel, processed	6	27	90	202	202	72,166	153,290	150,289	58,594	623,094	419,681
Jewelry	78	316	1,155	612	856,363	1,052,010	3,258,105	30,305	8,446,220	5,148,750	
Jewelry and instrument cases	6	24	104	101	101	106,217	220,524	294,088	7,821	741,241	439,332
Knit goods	47	396	4,137	1,982	2,201	1,057,042	3,839,514	8,481,863	200,557	16,048,041	8,265,621
Labels and tags	15	108	353	43	525	283,201	442,005	901,249	24,385	2,512,606	1,587,022
Leather goods, not elsewhere classified	37	92	539	323	286,005	619,629	1,704,497	17,005	3,570,585	1,797,483	
Leather: Tanned, curried, and finished	26	289	3,031	7,800	12,603	1,177,063	4,046,166	23,885,629	494,085	37,478,835	13,000,121
Lime	9	21	223	115	2,894	55,304	305,450	295,456	240,624	1,205,003	728,923
Lithographing	47	570	2,501	1	3,769	2,130,863	4,314,284	4,461,043	138,902	10,239,192	11,639,247
Lubricating oils and greases, not made in petroleum refineries	16	99	121	110	494	254,992	100,734	4,482,503	37,414	6,617,018	2,097,101
Lumber and timber products, not elsewhere classified	52	103	1,280	4,285	2,089	344,708	1,233,476	2,765,738	62,306	5,799,736	2,971,692
Macaroni, spaghetti, vermicelli, and noodles	30	94	688	1,213	2,348	288,521	717,517	3,854,152	133,724	6,408,120	2,415,244
Machine-tool accessories and small metal-working tools, not elsewhere classified	88	434	2,234	24	3,927	1,418,257	4,094,277	2,239,238	174,556	12,283,823	9,870,019
Machine tools	80	769	3,653	970	11,346	5,025,514	5,847,554	5,847,554	301,452	22,690,628	16,690,922
Malt	4	24	125	3,000	844	94,368	248,960	2,702,610	154,183	3,868,244	921,442
Marble, granite, slate, and other stone products	110	288	1,189	157	11,139	1,149,528	2,519,466	2,935,953	100,840	8,905,745	5,769,062
Mattresses and bed springs, not elsewhere classified	54	159	1,487	350	2,003	537,198	1,882,332	5,493,506	97,915	10,329,810	4,738,389
Meat packing, wholesale	79	3,341	20,618	64,228	66,442	8,584,522	40,382,248	600,141,105	4,377,183	760,872,847	96,354,559
Military	110	491	3,598	775	797	1,542,630	4,588,851	10,170,127	90,680	16,647,859	9,687,052
Minerals and earths, ground or otherwise treated	6	20	71	165	2,238	76,381	111,926	211,350	68,942	699,948	419,656
Mirror and picture frames	30	264	2,098	500	3,391	1,016,745	2,642,506	2,895,532	104,427	8,170,742	5,479,733

See footnotes at end of table, p. 149.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Mirrors, framed and unframed.....	24	101	492	150	482	279, 738	898, 039	1, 227, 007	36, 061	2, 944, 958	1, 081, 890
Models and patterns, not including paper patterns.....	86	90	699	-----	1, 167	274, 085	1, 169, 428	433, 348	31, 858	2, 700, 587	2, 235, 381
Motion pictures, not including projection in theaters.....	8	120	82	-----	106	374, 080	216, 145	402, 479	10, 262	1, 154, 148	681, 407
Motor-vehicle bodies and motor-vehicle parts.....	98	779	5, 273	332	19, 666	2, 297, 170	8, 403, 054	14, 716, 070	577, 911	35, 340, 749	20, 040, 168
Motor vehicles, not including motor cycles.....	19	574	3, 234	4, 025	2, 423	1, 671, 296	5, 023, 684	42, 158, 997	191, 003	62, 405, 791	20, 055, 791
Mucilage, paste, and other adhesives, except glue and rubber cement.....	10	51	83	-----	263	159, 152	102, 957	785, 281	10, 008	1, 337, 515	533, 231
Musical-instrument parts and materials: Piano and organ.....	12	89	638	765	523	302, 172	815, 365	1, 054, 892	68, 808	2, 956, 459	1, 832, 750
Musical instruments and parts and materials, not elsewhere classified.....	20	128	596	-----	1, 479	363, 640	924, 577	1, 043, 336	49, 773	3, 078, 813	1, 985, 704
Musical instruments: Organs.....	8	21	201	-----	526	51, 871	246, 632	8, 400	709, 001	478, 558	478, 558
Musical instruments: Pianos.....	17	243	2, 780	4, 525	1, 500	757, 114	3, 838, 016	5, 373, 871	197, 590	12, 460, 131	6, 888, 670
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	6	25	54	70	213	70, 362	84, 485	237, 440	8, 354	530, 988	285, 188
Nonferrous-metal alloys and products, not including aluminum products.....	115	895	5, 406	1, 695	20, 429	2, 443, 105	8, 592, 591	44, 353, 173	1, 220, 745	68, 716, 404	23, 142, 486
Oil, cake, and meal, cottonseed.....	4	18	101	1, 150	621	32, 400	32, 400	74, 060	27, 510	2, 516, 581	217, 955
Oil, cake, and meal, linseed.....	5	31	223	1, 075	2, 487	64, 243	355, 444	6, 701, 800	95, 293	8, 730, 426	1, 873, 327
Oils, not elsewhere classified.....	5	22	54	65	278	52, 319	67, 093	676, 510	20, 269	1, 064, 488	367, 709
Oleomargarine, not made in meat-packing establishments.....	6	250	598	610	1, 196	613, 083	977, 387	13, 037, 068	134, 788	19, 636, 149	6, 464, 293
Optical goods.....	8	28	67	42	42	75, 457	103, 816	198, 855	3, 976	591, 263	388, 432
Paints and varnishes.....	110	1, 510	4, 199	6, 752	22, 987	4, 553, 086	5, 974, 418	55, 078, 543	1, 313, 551	90, 399, 091	33, 406, 997
Paper.....	29	354	3, 675	48, 885	9, 419	1, 118, 686	5, 266, 787	17, 868, 320	2, 108, 891	34, 438, 372	14, 461, 152
Paper goods, not elsewhere classified.....	30	393	1, 475	150	3, 554	1, 293, 965	2, 158, 958	8, 743, 073	140, 808	18, 232, 378	9, 338, 892
Patent or proprietary medicines and compounds.....	134	1, 233	1, 832	2, 473	4, 804	3, 014, 780	2, 058, 308	13, 949, 760	241, 432	42, 902, 440	28, 711, 257
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	10	80	190	710	1, 445	168, 022	293, 773	807, 549	91, 969	2, 618, 247	1, 718, 729
Pens, fountain and stylographic; pen points, gold, steel, and brass.....	5	30	248	-----	164	68, 353	340, 536	715, 990	9, 149	1, 428, 601	708, 462
Perfumes, cosmetics, and other toilet preparations.....	94	628	1, 051	-----	997	1, 725, 400	1, 016, 146	4, 332, 264	44, 716	15, 398, 746	11, 021, 770
Petroleum refining.....	12	740	4, 008	26, 673	12, 873	1, 713, 968	6, 420, 625	78, 274, 281	1, 172, 413	104, 130, 272	24, 683, 678
Phonographs.....	11	54	299	-----	459	201, 254	437, 345	1, 298, 842	17, 822	3, 420, 115	2, 103, 451
Photo-engraving, not done in printing establishments.....	67	771	2, 173	-----	1, 784	2, 633, 959	5, 706, 438	2, 273, 771	144, 718	14, 539, 928	12, 121, 439
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	279	1, 306	6, 179	13, 145	24, 245	4, 168, 473	10, 439, 051	19, 300, 849	512, 202	41, 009, 959	21, 196, 998
Plated ware.....	5	32	134	-----	367	65, 455	184, 326	148, 285	11, 600	685, 231	525, 340
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	29	523	3, 574	1, 915	6, 502	1, 550, 643	4, 638, 549	4, 719, 202	380, 204	15, 911, 126	10, 831, 720
Pocketbooks, purses, and cardcases.....	10	61	264	20	29	1, 307, 073	367, 298	748, 994	2, 934	1, 552, 203	800, 275
Pottery, including porcelain ware.....	10	114	1, 447	1, 028	2, 276	335, 347	1, 733, 473	773, 873	439, 819	5, 937, 739	4, 724, 096
Poultry killing, dressing, and packing, wholesale.....	40	109	742	98	1, 031	208, 336	656, 914	9, 864, 018	59, 929	12, 074, 193	2, 153, 244
Printing and publishing, book and job.....	1, 251	7, 693	20, 331	2, 035	36, 631	22, 233, 753	46, 044, 755	41, 040, 446	1, 574, 731	170, 222, 985	133, 601, 809
Printing and publishing, music.....	25	127	94	-----	99	161, 515	220, 613	5, 895	-----	1, 509, 808	1, 283, 400
Printing and publishing, newspaper and periodical.....	944	13, 626	11, 660	2, 803	30, 206	35, 036, 512	25, 079, 074	40, 883, 679	907, 139	178, 015, 526	136, 724, 708
Printing materials, not including type or ink.....	13	109	471	-----	1, 116	340, 056	783, 974	929, 858	43, 284	3, 512, 302	2, 539, 210
Pumps (hand and power) and pumping equipment.....	28	517	1, 829	285	10, 250	1, 219, 349	2, 385, 918	4, 949, 409	133, 463	12, 188, 854	7, 105, 932
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	12	82	423	560	622	224, 691	696, 731	1, 188, 488	34, 310	2, 940, 150	1, 717, 352
Regalia, badges, and emblems.....	9	42	99	-----	89	84, 366	132, 751	206, 218	5, 022	533, 274	322, 034
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	21	417	2, 162	5, 297	9, 156	1, 096, 980	3, 306, 696	21, 882, 852	745, 252	35, 344, 006	12, 716, 802
Rubber goods other than tires, inner tubes, and boots and shoes.....	23	184	1, 496	180	12, 606	581, 109	1, 956, 824	3, 156, 479	311, 400	8, 555, 337	5, 087, 458
Saddlery and harness.....	19	46	303	125	271	113, 267	434, 437	1, 483, 022	12, 131	2, 447, 768	982, 615
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	68	203	1, 136	280	3, 238	744, 839	1, 600, 417	14, 093, 857	157, 346	19, 352, 401	5, 101, 288
Scales and balances.....	13	127	569	240	557	367, 007	803, 626	1, 172, 474	41, 170	3, 590, 834	2, 377, 190
Screw-machine products and wood screws.....	44	406	2, 707	875	5, 257	1, 426, 035	4, 010, 989	6, 027, 300	241, 903	16, 866, 687	10, 697, 455
Sewing machines and attachments.....	4	328	1, 444	1, 225	1, 474	847, 697	1, 855, 237	2, 958, 401	92, 724	8, 783, 941	5, 732, 810
Ship and boat building, steel and wooden, including repair work.....	12	27	302	1, 202	2, 634	62, 284	508, 069	678, 345	27, 104	1, 284, 995	879, 546
Shirts.....	22	64	1, 118	-----	224	190, 738	744, 088	1, 280, 761	20, 951	2, 597, 558	1, 285, 840
Signs and advertising novelties.....	149	995	3, 321	625	2, 723	2, 903, 085	5, 006, 250	6, 417, 014	201, 636	22, 228, 903	15, 010, 233
Silversmithing and silverware.....	4	2	16	-----	16	( <sup>1</sup> )	32, 622	38, 659	1, 081	95, 278	55, 538
Smelting and refining metals other than gold, silver, or platinum, not from the ore.....	25	199	1, 153	335	2, 670	1, 026, 147	1, 041, 041	29, 190, 122	381, 392	37, 205, 967	7, 634, 453
Smelting and refining, zinc.....	8	321	3, 098	11, 150	18, 262	904, 771	4, 308, 839	10, 986, 648	1, 895, 727	21, 854, 222	8, 971, 847
Soap.....	32	502	1, 513	316	5, 261	1, 298, 441	1, 953, 913	17, 540, 484	422, 695	28, 243, 426	10, 271, 427
Soda-water apparatus.....	8	226	1, 053	450	2, 078	575, 430	1, 979, 770	4, 118, 948	106, 657	11, 009, 991	6, 775, 386
Sporting and athletic goods, not including firearms or ammunition.....	34	203	1, 477	80	2, 055	642, 582	2, 253, 531	4, 292, 039	87, 985	9, 224, 077	4, 844, 053
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	11	84	369	830	956	232, 294	555, 849	1, 220, 768	95, 943	2, 812, 937	1, 460, 226
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	84	679	4, 760	713	9, 896	2, 504, 100	6, 252, 915	11, 141, 750	583, 129	28, 396, 852	16, 671, 967
Stationery goods, not elsewhere classified.....	31	367	1, 636	600	1, 816	1, 330, 824	2, 127, 205	4, 570, 425	108, 413	13, 831, 516	9, 152, 678
Statuary and art goods, factory product.....	21	105	417	150	202	344, 212	831, 223	302, 431	20, 525	2, 068, 741	1, 685, 735

See footnotes at end of table, p. 149.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Sal- aried officers and em- ployees	Wage earn- ers (aver- age for the year)	HORSEPOWER (RATED CAPAC- ITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and con- tainers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>2</sup>	Value added by manufac- ture <sup>3</sup>
				Prime movers	Elec- tric motors driven by pur- chased energy						
Steam and other packing, pipe and boiler cover- ing, and gaskets, not elsewhere classified.....	22	325	1,200	60	1,001	Dollars 989,387	Dollars 1,447,187	Dollars 3,396,713	Dollars 74,674	Dollars 7,466,498	Dollars 3,095,111
Steam fittings and steam and hot-water heating apparatus.....	31	1,468	10,331	10,103	31,698	3,955,176	17,313,440	18,778,884	1,595,322	65,468,354	45,124,198
Stereotyping and electrotyping, not done in printing establishments.....	33	233	924	-----	3,368	846,332	2,415,155	684,758	107,325	5,690,862	4,904,779
Stoves and ranges (other than electric) and warm-air furnaces.....	79	1,300	6,734	2,700	12,133	3,948,351	9,710,041	14,063,058	760,081	41,560,190	26,736,451
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	137	1,129	4,843	3,372	27,082	3,475,921	8,167,070	21,248,210	504,243	44,356,927	22,604,474
Surgical and orthopedic appliances, including artificial limbs.....	32	349	1,199	425	1,401	1,083,338	1,528,633	3,870,190	59,956	10,126,295	6,196,143
Theatrical scenery and stage equipment.....	5	15	43	-----	31	44,119	88,740	249,734	3,161	659,286	406,391
Tin cans and other tinware, not elsewhere classified.....	32	758	6,085	1,210	16,635	1,733,777	7,968,814	41,875,830	628,313	65,001,674	22,587,531
Tools, not including edge tools, machine tools, files, or saws.....	65	271	1,354	36	4,041	989,842	1,865,554	2,190,783	200,209	7,817,159	5,426,167
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	81	295	1,699	750	1,492	716,869	1,825,526	2,238,250	80,636	7,231,068	4,912,176
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	33	112	717	-----	144	414,810	811,132	2,213,785	15,533	4,410,333	2,181,015
Trunks, suitcases, and bags.....	47	188	1,132	150	569	557,637	1,574,521	3,005,965	35,180	6,861,687	3,100,542
Type founding.....	5	2	17	-----	19	(4)	17,841	20,956	688	82,414	51,770
Typewriters and parts.....	3	61	604	435	102	145,242	324,697	583,358	18,645	1,982,774	1,380,771
Umbrellas, parasols, and canes.....	4	6	47	-----	6	13,251	51,488	259,304	1,000	373,359	112,555
Vinegar and cider.....	8	15	28	288	278	34,355	28,675	318,634	6,929	470,436	150,873
Wall paper.....	13	125	1,186	2,393	2,205	452,189	1,472,208	4,475,444	160,454	9,327,899	4,692,601
Wall plaster, wall board, insulating board, and floor composition.....	22	92	177	790	1,577	258,385	301,696	760,505	54,187	2,097,111	1,270,419
Washing machines, wringers, driers, and ironing machines, for household use.....	12	548	1,725	-----	4,092	1,614,406	2,379,098	9,597,007	131,607	19,310,486	9,581,872
Waste.....	10	42	278	125	925	247,701	314,554	2,069,365	45,986	3,095,858	977,507
Window and door screens and weather strip.....	40	110	318	150	710	335,383	482,107	1,600,146	21,010	3,493,383	1,872,227
Window shades and fixtures.....	88	116	459	-----	304	350,018	689,084	1,723,308	24,859	3,888,254	2,139,587
Wire, drawn from purchased bars or rods.....	11	490	3,322	11,268	22,614	1,229,109	5,896,932	45,430,324	1,141,594	63,882,641	17,310,723
Wirework, not elsewhere classified.....	56	366	1,989	481	4,425	1,130,612	2,595,642	6,935,746	171,114	14,344,480	7,537,620
Wood preserving.....	11	84	1,130	1,842	1,616	227,650	1,088,663	14,344,159	155,754	17,302,714	2,802,801
Wood turned and shaped and other wooden goods, not elsewhere classified.....	48	160	1,046	1,530	1,902	457,132	1,284,924	1,549,200	61,635	4,458,849	2,848,014
Woolen goods.....	3	33	340	1,018	425	130,281	361,442	855,281	39,001	1,561,028	667,046
Other industries.....	224	4,092	27,091	76,751	39,221	11,239,359	34,416,248	132,008,434	4,103,938	262,860,337	126,145,516

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

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

<sup>3</sup> Not including data for 29,559 employees of central administrative offices, with salaries aggregating \$37,168,428. See GENERAL EXPLANATIONS—Persons Engaged.

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

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

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

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

CHICAGO INDUSTRIAL AREA

[This area comprises Cook, Lake, Kane, Du Page, and Will Counties in Illinois and Lake County in Indiana. The totals for all industries do not include data for a few establishments located outside the industrial area (see footnotes, 1, 2, and 4), and therefore are slightly smaller than the sums of the items for the individual industries]

All industries, total	11,774	118,040	550,903	1,292,677	1,436,907	Dollars 317,180,327	Dollars 869,218,189	Dollars 2,814,605,897	Dollars 195,234,936	Dollars 5,558,331,242	Dollars 2,548,490,359
Aluminum manufactures	11	96	725		2,338	358,847	1,194,148	2,512,021	95,162	5,683,837	3,070,054
Artificial and preserved flowers and plants	26	107	487		140	338,436	497,298	1,218,939	14,041	2,826,058	1,593,078
Asbestos products, other than steam packing or pipe and boiler covering	7	89	980	300	1,150	269,058	1,365,806	3,819,019	481,804	8,025,390	3,774,507
Awnings, tents, sails, and canvas covers	52	115	506		222	310,623	704,148	2,091,730	21,000	3,819,009	1,708,219
Bags, other than paper, not made in textile mills	17	55	454		584	189,238	425,400	4,719,758	23,019	5,769,903	1,017,126
Bags, paper, exclusive of those made in paper mills	5	67	405		733	152,599	613,249	2,287,813	34,360	3,476,530	1,154,348
Baskets and rattan and willow ware, not including furniture	10	11	55		45	15,429	62,844	130,016	2,050	255,000	122,034
Belting, leather	12	106	379	200	607	286,030	493,353	1,801,570	20,745	3,778,501	1,950,186
Beverages	133	455	1,398	3,232	3,487	1,301,200	2,258,110	5,738,704	315,072	16,409,432	10,355,650
Billiard and pool tables, bowling alleys, and accessories	3	7	21		19	15,687	22,710	29,037	1,577	99,698	69,084
Blackings, stains, and dressings	16	43	46		52	114,295	67,294	295,492	6,108	833,816	532,216
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills	19	250	1,761	500	5,422	800,806	2,422,374	5,939,126	284,168	13,414,207	7,191,003
Bookbinding and blank-book making	114	540	3,023		2,845	1,568,189	4,019,001	3,850,676	121,619	13,211,048	9,239,353
Boot and shoe cut stock, not made in boot and shoe factories	5	43	283	325	165	146,298	277,315	3,229,700	17,467	3,970,496	732,320
Boots and shoes, other than rubber	34	647	4,185	1,390	2,591	1,670,331	5,430,765	10,373,070	121,082	24,011,909	13,517,757
Boxes, cigar, wooden	5	10	30		115	35,508	82,243	39,297	4,348	280,014	187,269
Boxes, paper, not elsewhere classified	97	780	4,603	1,575	4,415	2,351,245	5,300,346	13,045,357	249,303	26,167,037	12,202,407
Boxes, wooden, except cigar boxes	33	162	1,752	3,000	4,152	484,711	2,112,456	4,548,009	109,687	6,993,182	4,035,486
Bread and other bakery products	1,739	1,674	13,824	3,708	21,021	3,843,360	22,123,220	53,845,528	1,030,728	118,756,059	62,079,503
Brooms	20	13	145		222	17,696	207,829	425,727	6,955	846,051	413,300
Brushes, other than rubber	24	42	267	125	370	189,650	365,198	863,877	20,770	1,851,910	907,263
Butter	16	57	189	853	1,398	134,769	178,557	4,218,788	36,897	5,128,537	872,852
Canning and preserving: Fish, crabs, shrimps, oysters, and clams	7	11	34		9	38,847	69,332	707,669	8,272	903,917	187,070
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces	57	528	2,341	2,792	2,617	1,093,415	2,640,558	16,494,667	232,824	27,709,459	10,981,968
Car and general construction and repairs, electric-railroad repair shops	12	237	2,605		6,527	520,536	4,794,668	3,169,640	106,499	8,591,343	5,315,204
Car and general construction and repairs, steam-railroad repair shops	52	1,293	18,275	10,821	34,521	3,558,714	30,316,964	21,982,345	2,174,822	68,045,899	33,888,732
Carbon paper and inked ribbons	9	76	141		334	154,586	156,262	816,066	10,343	1,805,793	979,794
Carriages and sleds, children's	6	46	269		201	150,145	323,222	761,391	15,061	1,380,296	600,844
Carriages, wagons, sleighs, and sleds	3	28	133	2,527	26	49,116	156,746	119,962	33,435	338,865	185,468
Cars, electric and steam railroad, not built in railroad repair shops	20	1,625	11,071	33,243	23,709	3,699,885	18,800,563	50,608,200	1,067,126	80,608,282	28,092,950
Caskets, coffins, burial cases, and other morticians' goods	21	172	1,188	425	1,477	528,182	1,970,014	3,620,431	84,909	8,393,052	4,687,712
Cereal preparations	7	67	217		862	149,490	295,751	3,078,938	74,104	3,973,649	1,620,607
Cheese	4	7	23	15	621	27,678	32,910	257,278	4,928	415,129	152,923
Chemicals, not elsewhere classified	29	391	2,010	5,105	16,269	1,234,653	3,213,427	15,027,333	1,089,556	26,462,453	10,348,564
China firing and decorating, not done in potteries	7	37	142		3	76,163	194,792	297,609	13,216	725,390	414,535
Chocolate and cocoa products, not including confectionery	3	3	77	900	1,224	6,807	111,615	2,261,236	50,798	4,980,627	2,668,593
Cigars and cigarettes	100	72	561		29	139,939	684,560	824,334	5,839	2,273,826	1,443,653
Clay products (other than pottery) and nonclay refractories	33	372	3,301	18,564	10,736	1,077,558	5,417,837	1,316,607	1,858,881	13,958,470	10,782,082
Cleaning and polishing preparations	49	192	292		767	640,561	385,761	2,468,044	33,717	7,151,061	4,649,300
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	593	3,075	18,163	1,000	4,552	7,761,371	27,056,367	45,684,790	402,944	111,623,530	65,635,805
Clothing, women's, not elsewhere classified	379	1,304	11,890		1,909	4,099,360	13,880,775	37,441,194	250,215	71,039,359	33,347,950
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	20	33	520		188	70,330	558,790	1,179,772	14,968	2,318,614	1,123,874
Coffee and spice, roasting and grinding	40	450	853	1,350	3,329	1,231,093	1,169,645	35,182,268	233,180	46,751,513	8,330,005
Compressed and liquefied gases	16	176	224	759	5,736	328,339	381,114	816,937	247,195	4,047,598	2,083,460
Concrete products	107	528	905	306	3,531	656,582	1,600,145	1,733,451	116,121	6,063,260	4,214,715
Confectionery	139	1,563	11,110	3,461	12,277	4,566,683	11,337,269	54,194,057	752,296	89,692,627	34,740,274
Cooperage	24	95	911	2,365	670	363,478	1,290,534	4,442,445	73,885	6,915,009	2,399,170
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	236	681	2,924	161	5,721	2,145,585	5,154,274	8,664,378	169,326	21,965,965	13,132,206
Cutlery (not including silver and plated cutlery) and edge tools	12	27	207		448	113,554	357,686	171,199	16,875	890,774	708,700
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies	8	86	357		499	338,985	530,597	984,715	33,099	3,032,715	2,014,001
Dental goods and equipment	10	33	138		160	104,180	158,898	1,456,069	7,454	2,008,504	544,081
Druggists' preparations	29	450	480		3,592	1,186,140	605,951	1,601,145	50,440	6,578,510	4,027,225
Dyeing and finishing textiles	21	316	1,638	5,545	1,010	850,590	2,026,986	9,882,658	233,186	17,137,218	7,821,374
Electrical machinery, apparatus, and supplies	220	15,804	55,453	50,050	33,400	34,359,786	93,398,308	159,805,534	2,427,141	422,405,602	263,172,027
Electroplating	30	142	1,027		3,654	438,818	1,840,813	641,623	153,088	4,413,390	3,018,679

See footnotes at end of this section, p. 152.

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 employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>CHICAGO INDUSTRIAL AREA—Continued</b>											
Emery wheels and other abrasive and polishing appliances.....	8	46	139	-----	222	Dollars 241,927	Dollars 227,089	Dollars 858,787	Dollars 19,730	Dollars 1,700,806	Dollars 825,349
Engines, turbines, tractors, and water wheels.....	10	871	6,253	1,040	16,799	2,364,644	11,073,849	22,697,988	943,123	48,485,228	24,844,217
Engraving materials.....	4	17	75	-----	396	100,361	131,490	585,828	13,370	1,041,483	442,285
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking.....	24	130	630	-----	871	533,675	900,331	734,802	36,087	3,386,017	2,615,128
Engraving, steel and copperplate, and plate printing.....	50	235	1,105	208	913	864,088	1,546,607	1,445,975	49,320	6,110,197	4,017,902
Engraving, wood.....	8	11	72	-----	10	39,196	208,634	39,303	1,734	405,537	304,500
Envelopes.....	17	230	997	95	1,541	720,406	1,349,302	2,477,262	53,944	6,650,055	4,118,849
Fancy and miscellaneous articles, not elsewhere classified.....	85	278	1,500	-----	656	723,652	1,640,632	3,598,411	47,102	8,002,720	4,367,207
Feeds, prepared, for animals and fowls.....	18	286	613	1,210	14,947	840,691	948,612	24,070,872	208,007	30,734,488	5,855,609
Food preparations, not elsewhere classified.....	68	329	1,289	970	3,047	954,199	1,540,701	13,443,733	196,408	21,420,763	7,780,622
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	21	413	3,814	3,055	23,322	1,450,910	7,392,250	14,693,765	1,662,321	35,427,732	10,071,090
Foundry and machine-shop products, not elsewhere classified.....	577	8,313	35,117	16,224	98,021	26,241,446	59,670,634	102,449,439	4,238,020	280,675,077	173,987,618
Fur goods.....	234	296	951	-----	408	987,448	2,064,574	7,810,667	64,820	14,106,884	6,285,397
Furnishing goods, men's, not elsewhere classified.....	27	118	645	-----	81	448,811	608,409	2,950,224	10,381	4,760,088	1,788,983
Furniture, including store and office fixtures.....	316	2,097	18,370	11,312	23,034	7,092,095	25,791,459	46,818,980	1,103,342	105,493,388	57,571,060
Gas machines, gas meters, and water and other liquid meters.....	8	45	194	-----	232	259,028	325,562	523,614	15,442	1,708,125	1,229,069
Glass products (except mirrors) made from purchased glass.....	33	69	257	-----	178	134,271	375,800	534,510	14,192	1,391,175	842,473
Glue and gelatin.....	17	129	609	5,480	1,273	317,666	846,395	2,963,079	309,610	6,632,134	3,354,836
Gold leaf and foil.....	7	0	129	-----	23	16,264	-----	152,373	1,782	820,655	206,492
Grease and tallow, not including lubricating greases.....	7	105	783	4,005	1,213	344,547	1,163,675	3,378,257	261,937	12,007,548	3,967,354
Hair work.....	6	0	18	-----	1	10,543	17,963	32,674	269	92,716	69,773
Hand stamps and stencils and brands.....	33	146	448	30	355	308,570	613,680	624,874	27,788	2,350,195	1,697,533
Hardware not elsewhere classified.....	70	585	2,689	203	6,077	1,734,877	3,725,301	5,399,325	107,719	16,209,292	10,012,248
Hat and cap materials, men's.....	5	9	55	-----	8	16,099	62,863	105,188	773	191,976	86,015
House-furnishing goods, not elsewhere classified.....	101	316	1,645	100	1,900	1,060,168	1,809,740	5,965,794	64,484	11,103,702	5,083,484
Ice cream.....	64	325	952	75	11,129	1,141,709	1,957,615	8,550,745	3,227,284	21,193,003	12,920,574
Ice, manufactured.....	93	212	1,009	2,624	52,209	769,998	2,210,518	288,504	1,305,704	10,124,348	8,440,140
Ink, printing.....	30	134	328	33	2,979	582,340	437,759	2,941,502	91,768	6,305,207	3,271,877
Instruments, professional and scientific.....	39	762	3,982	6,855	1,927,228	5,985,176	4,379,769	4,810,027	208,106	18,331,606	13,304,943
Iron and steel: Steel works and rolling mills.....	30	4,560	45,300	3726,719	3364,670	12,765,103	34,086,243	259,221,563	32,808,613	605,719,052	213,088,876
Jewelry.....	78	316	1,155	-----	612	866,393	1,952,010	3,255,165	7,821	741,241	439,332
Jewelry and instrument cases.....	6	24	194	-----	101	106,217	220,524	3,264,088	7,821	741,241	439,332
Knit goods.....	28	174	1,292	660	581	472,697	1,391,741	2,072,227	46,795	6,561,253	3,542,221
Labels and tags.....	15	106	358	43	525	283,201	442,005	901,249	24,385	2,512,056	1,687,022
Lithographing.....	47	570	2,501	1	3,769	2,130,803	4,314,234	4,461,043	138,902	16,239,162	11,039,247
Lumber and timber products, not elsewhere classified.....	3	27	220	-----	1,424	155,252	333,900	1,006,216	44,657	1,921,195	870,322
Macaroni, spaghetti, vermicelli, and noodles.....	27	85	680	1,213	2,293	278,134	709,979	3,809,203	180,101	6,325,746	2,386,382
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	77	405	2,069	24	3,698	1,367,618	3,791,190	2,093,156	164,160	11,581,931	9,324,615
Machine tools.....	17	246	1,332	610	3,362	895,205	2,127,755	2,568,886	121,115	9,036,474	6,340,473
Marble, granite, slate, and other stone products.....	93	278	1,039	163	9,830	1,112,329	2,270,825	2,749,563	180,854	8,215,132	5,284,725
Mattresses and bed springs, not elsewhere classified.....	44	137	1,407	360	2,436	472,259	1,790,877	5,188,870	94,157	9,782,050	4,400,020
Meat packing, wholesale.....	57	2,541	25,993	52,783	66,416	6,802,260	35,304,212	670,179,179	3,828,887	654,957,891	80,049,825
Millinery.....	110	491	3,598	775	797	1,542,639	4,583,851	10,170,127	10,080	19,047,859	9,087,052
Mirror and picture frames.....	39	264	2,098	500	3,801	1,018,745	2,642,508	2,595,632	104,427	8,179,742	5,479,783
Mirrors, framed and unframed.....	21	88	438	150	354	249,585	805,354	1,060,964	30,323	2,576,609	1,485,382
Models and patterns, not including paper patterns.....	70	59	431	-----	925	185,391	879,039	345,195	24,510	2,075,769	1,700,004
Motion pictures, not including projection in theaters.....	8	120	82	-----	106	374,080	216,145	462,470	10,262	1,154,148	681,407
Motor-vehicle bodies and motor-vehicle parts.....	75	499	2,789	132	10,142	1,531,989	4,895,832	8,493,144	340,890	22,204,823	13,370,780
Motor vehicles, not including motorcycles.....	16	460	2,002	4,025	1,898	1,343,754	4,525,711	40,027,164	172,831	58,869,043	18,169,048
Mucilage, paste, and other adhesives except glue and rubber cement.....	10	51	83	-----	263	159,152	102,957	785,281	19,003	1,937,615	533,231
Musical-instrument parts and materials: Piano and organ.....	12	89	633	705	523	302,172	815,365	1,054,892	68,808	2,956,450	1,832,759
Musical instruments and parts and materials, not elsewhere classified.....	20	128	596	-----	1,479	363,440	924,577	1,043,336	40,773	3,078,813	1,985,704
Musical instruments: Pianos.....	13	204	2,349	4,175	1,200	634,118	3,217,644	4,625,878	158,467	10,281,516	5,497,171
Nonferrous-metal alloys and products, not including aluminum products.....	100	748	3,808	150	14,830	2,157,906	6,530,228	32,597,553	631,249	51,305,296	17,876,494
Oil, cake, and meal, linseed.....	5	31	223	1,075	2,487	64,243	355,444	6,761,806	95,293	8,730,426	1,873,327
Optical goods.....	8	28	67	-----	42	75,457	103,816	198,855	3,976	591,263	388,432
Paints and varnishes.....	90	1,332	3,590	6,002	17,670	4,105,106	5,952,254	51,628,426	975,243	82,550,707	20,047,038
Paper.....	11	143	1,198	14,443	6,417	421,952	1,840,513	7,191,084	820,878	14,259,250	6,247,288
Paper goods, not elsewhere classified.....	27	378	1,427	150	8,406	1,252,285	2,121,622	8,124,515	145,220	17,431,034	9,161,200
Patent or proprietary medicines and compounds.....	105	774	987	240	3,093	2,009,608	1,169,904	8,020,801	172,877	26,129,910	17,936,732
Pens, fountain and stylographic; pen points, gold, steel, and brass.....	5	30	248	-----	164	68,533	340,636	715,990	9,149	1,428,601	703,402
Perfumes, cosmetics, and other toilet preparations.....	94	623	1,051	-----	997	1,725,400	1,016,146	4,332,254	44,716	15,398,746	11,021,776
Petroleum refining.....	8	851	5,503	34,484	18,550	2,237,115	9,707,839	128,129,703	1,679,725	191,730,639	61,921,211
Photographs.....	11	54	299	-----	450	201,254	437,345	1,208,342	17,822	8,420,115	2,103,451
Photo-engraving, not done in printing establishments.....	49	741	2,051	-----	1,584	2,526,683	5,425,196	2,201,078	187,313	13,853,002	11,514,610
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	206	1,016	4,599	0,515	18,116	3,502,773	8,499,429	14,310,698	416,903	32,075,130	17,347,529

See footnotes at end of this section, p. 152.

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	Sal- aried officers and em- ployees	Wage earners (av- erage for the year)	HORSEPOWER (RATED CAPAC- ITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and con- tainers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manu- facture <sup>b</sup>
				Prime movers	Elec- tric motors driven by pur- chased energy						
<b>CHICAGO INDUSTRIAL AREA—Continued</b>											
Plumbers' supplies, not including pipe or vitreous- china sanitary ware.....	21	289	1,631	440	4,863	909,631	2,481,802	2,273,870	206,422	7,871,092	5,390,800
Pocketbooks, purses, and card cases <sup>1</sup> .....	10	61	264		29	129,073	367,298	748,994	2,934	1,552,203	800,275
Pottery, including porcelain ware.....	5	23	208	200	322	105,964	273,739	93,915	60,603	739,737	585,219
Printing and publishing, book and job.....	1,075	7,354	25,322	2,560	34,067	21,438,981	44,675,886	39,165,891	1,493,615	170,350,547	129,691,041
Printing and publishing, music.....	25	127	94		99	330,922	161,515	220,513	5,895	1,509,808	1,283,400
Printing and publishing, newspaper and periodical.....	530	11,267	8,559	2,439	23,028	30,045,911	19,948,632	35,646,210	642,034	154,677,868	118,389,614
Printing materials, not including type or ink.....	13	109	471		1,110	340,056	783,974	929,858	43,234	3,512,302	2,539,210
Pumps (hand and power) and pumping equip- ment.....	18	343	556	120	1,062	849,823	988,785	2,326,123	55,104	5,628,972	3,247,680
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	15	311	1,547	812	8,133	866,139	2,531,130	17,013,990	614,130	27,225,975	9,597,855
Saddlery and harness.....	7	7	40		70	10,761	62,417	225,161	2,234	410,626	183,231
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing es- tablishments.....	63	198	1,131	280	3,349	718,412	1,587,802	14,011,100	156,173	19,233,102	5,065,829
Shirts.....	16	46	514	250	59	174,348	511,806	910,557	21,685	1,975,073	1,042,831
Signs and advertising novelties.....	147	966	3,182	625	2,593	2,815,201	4,868,237	6,234,758	195,585	21,595,960	15,165,617
Silversmithing and silverware.....	4	2	16		16	3,838	32,622	38,669	1,081	95,278	55,638
Smelting and refining, metals other than gold, silver, or platinum, not from the ore <sup>1</sup> .....	27	230	975	335	3,176	1,132,814	1,558,461	31,346,665	360,147	38,796,205	7,089,483
Sporting and athletic goods, not including fire- arms or ammunition.....	29	195	1,415	80	1,957	633,882	2,204,468	4,220,506	83,335	9,028,288	4,724,447
Stamped ware, enameled ware, and metal stamp- ing, enameling, japanning, and lacquering.....	75	528	3,505	335	6,293	2,196,912	4,872,490	8,803,371	392,826	22,116,361	12,920,164
Stationery goods, not elsewhere classified <sup>2</sup> .....	31	867	1,636	600	1,318	1,330,824	2,127,205	4,570,425	108,413	18,831,516	9,152,678
Statuary and art goods, factory product.....	21	105	417	160	202	344,212	331,223	362,481	20,525	2,068,741	1,686,785
Steam and other packing, pipe and boiler cover- ing, and gaskets, not elsewhere classified <sup>1</sup> .....	22	325	1,200	60	1,601	939,387	1,447,187	3,396,713	74,674	7,466,498	3,995,111
Stereotyping and electrotyping, not done in print- ing establishments <sup>1</sup> .....	33	233	924		3,368	846,332	2,415,155	684,758	107,325	5,696,862	4,904,779
Stoves and ranges (other than electric) and warm- air furnaces.....	40	519	2,268	1,275	2,739	1,781,228	3,607,956	5,610,738	284,333	16,917,739	11,022,668
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	123	1,203	5,125	3,192	37,405	3,560,587	9,211,970	23,705,523	563,195	48,070,798	23,802,080
Surgical and orthopedic appliances, including artificial limbs <sup>1</sup> .....	32	349	1,199	425	1,401	1,083,338	1,628,633	3,870,196	59,956	10,126,295	6,196,143
Theatrical scenery and stage equipment.....	5	15	43		31	44,119	88,746	249,734	3,161	659,286	406,391
Tin cans and other tinware, not elsewhere classi- fied.....	27	641	5,239	1,230	14,671	1,411,847	7,061,423	36,086,578	567,267	56,475,581	19,821,736
Tools, not including edge tools, machine tools, files, or saws.....	61	208	1,054	20	2,918	846,026	1,538,982	1,731,338	167,135	6,324,726	4,426,253
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	23	210	1,075		1,116	497,593	1,116,754	1,496,413	41,815	4,829,473	3,291,245
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	33	112	717		144	414,810	811,132	2,213,785	15,533	4,410,333	2,181,015
Trunks, suitcases, and bags <sup>1</sup> .....	47	188	1,132	150	566	557,637	1,574,521	3,665,968	35,180	6,861,637	3,160,542
Type founding.....	5	2	17		19	1,565	17,841	29,856	63	52,417	51,770
Umbrellas, parasols, and canes.....	4	6	47		6	13,251	51,488	259,804	1,000	373,359	112,555
Wall paper.....	12	111	1,146	2,093	2,133	455,595	1,448,905	4,303,041	161,088	9,140,069	4,675,940
Wall plaster, wall board, insulating board, and floor composition.....	20	98	229	790	7,749	247,576	399,563	868,315	130,400	2,470,298	1,471,574
Waste.....	10	42	278	125	926	247,701	314,554	2,069,365	48,956	8,005,858	977,507
Wire, drawn from purchased bars or rods.....	7	327	2,110	4,970	18,422	822,133	3,512,910	29,532,204	735,220	41,110,747	10,843,323
Wirework, not elsewhere classified.....	44	294	1,738	400	3,620	1,018,203	2,295,313	6,383,510	142,520	12,023,014	6,496,984
Wood turned and shaped and other wooden goods, not elsewhere classified.....	34	101	663	880	1,361	335,285	941,995	1,063,687	43,073	3,076,652	1,060,887
Other industries.....	1,012	15,970	79,669	188,823	192,512	42,922,750	118,858,803	418,162,279	116,148,054	968,566,353	434,256,020

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GEN- ERAL EXPLANATIONS—Profits and Production Costs.  
<sup>1</sup> The items for each of the industries covered by this footnote include data for 1 establishment located outside the industrial area, to avoid disclosing the figures reported by the establishments in question.  
<sup>2</sup> The items for each of the industries covered by this footnote include data for 2 establishments located outside the industrial area, to avoid disclosing the figures reported by the establishments in question.  
<sup>3</sup> 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.  
<sup>4</sup> The items for each of the industries covered by this footnote include data for 3 establishments located outside the industrial area, to avoid disclosing approximations of the figures reported by the establishments in question.

ST. LOUIS INDUSTRIAL AREA

[This area comprises Madison and St. Clair Counties in Illinois and St. Louis city and St. Louis County in Missouri. For statistics by industries for the area as a whole, see report for Missouri]

All industries, total.....	3,287	28,276	154,321	259,343	365,413	Dollars 72,037,263	Dollars 193,007,837	Dollars 890,700,208	Dollars 28,172,195	Dollars 1,541,953,654	Dollars 623,081,251
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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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

COOK COUNTY

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

All industries, total	10,871	101,028	462,750	621,548	1,022,120	Dollars 284,766,296	Dollars 727,953,161	Dollars 2,272,883,606	Dollars 96,814,125	Dollars 4,452,159,689	Dollars 2,112,961,958
Aluminum manufactures	11	96	725	-----	2,338	358,847	1,194,148	2,512,021	95,162	5,683,837	3,076,654
Artificial and preserved flowers and plants <sup>b</sup>	20	107	487	-----	140	388,456	497,298	1,213,959	14,041	2,826,068	1,693,078
Awnings, tents, sails, and canvas covers	45	110	470	-----	203	294,766	642,630	1,983,681	10,644	3,579,743	1,670,618
Baskets and rattan and willow ware, not including furniture	10	11	55	-----	45	15,420	62,344	130,916	2,050	255,000	122,034
Belting, leather	12	106	379	200	507	286,030	498,353	1,801,670	20,745	3,773,501	1,950,186
Beverages	107	419	1,293	3,228	3,272	1,231,445	2,094,322	5,411,070	301,948	15,927,657	6,014,489
Billiard and pool tables, bowling alleys, and accessories	3	7	21	-----	19	15,687	22,710	29,037	1,577	99,698	60,084
Blacking, stains, and dressings	15	43	46	-----	52	114,295	67,294	295,492	6,108	833,819	532,216
Bookbinding and blank-book making <sup>c</sup>	114	540	3,023	-----	2,845	1,568,189	4,019,001	3,550,676	121,619	13,211,648	9,280,353
Boot and shoe cut stock, not made in boot and shoe factories	5	43	283	325	165	146,298	277,315	3,229,700	17,467	3,979,496	732,329
Boots and shoes, other than rubber <sup>c</sup>	34	647	4,185	1,890	2,591	1,670,331	5,430,765	10,373,070	121,082	24,011,909	13,617,757
Boxes, cigar, wooden <sup>c</sup>	5	10	90	-----	115	35,508	82,243	89,297	4,348	280,914	187,269
Boxes, paper, not elsewhere classified	92	703	3,927	625	4,183	2,221,824	4,578,577	11,637,602	218,368	22,008,857	10,862,887
Boxes, wooden, except cigar boxes <sup>c</sup>	38	162	1,752	3,000	4,152	484,711	2,112,456	4,548,009	109,087	8,093,182	4,036,486
Bread and other bakery products	1,615	1,695	12,970	3,756	15,148	3,077,065	20,864,683	50,419,478	1,778,180	112,104,541	58,906,883
Brooms <sup>c</sup>	20	13	145	-----	222	17,696	207,829	426,727	6,955	840,051	413,369
Butter	9	52	128	744	921	127,941	165,368	4,010,947	30,414	4,804,377	757,016
Canning and preserving: Fish, crabs, shrimps, oysters, and clams	7	11	34	-----	9	38,847	69,332	707,669	3,272	903,917	187,976
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	54	517	2,268	2,717	2,390	1,067,818	2,560,540	15,927,612	284,098	26,888,910	10,737,200
Car and general construction and repairs, steam-railroad repair shops	37	1,094	14,635	10,311	22,405	2,896,268	24,175,643	16,617,443	1,870,845	45,573,253	27,084,665
Carriages and sleds, children's	6	46	269	-----	291	160,145	323,222	761,391	15,061	1,980,296	609,844
Caskets, coffins, burial cases, and other morticians' goods	21	172	1,188	425	1,477	528,182	1,970,014	3,620,431	84,909	8,303,052	4,687,712
Cheese <sup>c</sup>	4	7	23	15	521	27,873	32,910	257,278	4,928	415,129	152,023
Chemicals, not elsewhere classified	21	267	968	1,543	6,850	838,430	1,490,219	10,233,131	549,120	16,604,920	5,825,689
China firing and decorating, not done in potteries	7	37	142	-----	3	76,163	194,792	297,609	13,216	725,360	414,685
Chocolate and cocoa products, not including confectionery	3	3	77	900	1,224	6,807	111,615	2,261,239	50,798	2,080,627	2,688,693
Cigars and cigarettes	92	64	517	-----	26	127,304	640,383	764,456	5,035	2,114,805	1,845,311
Clay products (other than pottery) and nonclay refractories	26	320	2,339	15,549	5,798	970,297	4,082,095	888,034	1,245,268	9,855,950	7,752,714
Cleaning and polishing preparations <sup>c</sup>	49	192	292	-----	757	640,590	385,701	2,408,044	33,717	7,151,061	4,640,300
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	283	3,040	17,703	1,000	4,902	7,697,346	26,692,591	44,961,090	386,938	110,364,302	65,015,404
Clothing, women's, not elsewhere classified	373	1,261	11,590	-----	1,874	3,990,168	13,724,162	36,885,139	244,975	69,967,774	32,837,060
Coffee and spice, roasting and grinding <sup>c</sup>	40	450	853	1,360	3,329	1,231,698	1,160,645	38,182,203	233,130	46,751,513	8,339,095
Concrete products	72	172	603	216	2,608	520,725	1,046,577	1,032,213	77,020	4,122,070	3,013,037
Confectionery	133	1,405	10,939	3,461	11,743	4,429,253	10,909,926	52,928,886	729,904	87,130,718	33,471,928
Cooperage	20	83	789	1,950	673	325,034	1,143,190	3,648,655	66,759	5,812,887	2,098,473
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	217	617	2,543	161	3,420	1,964,170	4,596,828	7,639,943	142,056	10,515,951	11,633,952
Corsets and allied garments	17	236	1,203	-----	280	715,097	1,357,376	4,236,036	22,299	3,021,685	5,093,600
Dental goods and equipment	10	33	138	-----	160	104,180	158,898	1,450,969	7,454	2,003,504	544,981
Electrical machinery, apparatus, and supplies	200	15,136	54,707	68,625	31,707	33,858,818	92,333,780	154,474,433	2,342,780	417,473,777	260,656,114
Electroplating <sup>c</sup>	80	142	1,027	-----	3,664	438,813	1,840,813	641,623	1,533,088	4,413,390	3,618,979
Emery wheels and other abrasive and polishing appliances	8	46	139	-----	222	241,927	227,099	858,787	16,730	1,700,866	825,349
Engravers' materials	4	17	75	-----	396	100,851	131,400	685,828	13,370	1,041,433	442,285
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking	24	130	630	-----	871	533,675	900,331	734,802	36,087	3,486,017	2,615,128
Engraving, steel and copperplate, and plate printing	50	235	1,105	208	913	864,088	1,546,607	1,445,075	40,320	6,110,197	4,617,902
Engraving, wood	8	11	72	-----	10	39,190	208,934	39,303	1,784	405,537	304,560
Envelopes	17	230	997	95	1,541	720,405	1,340,302	2,477,262	53,644	6,050,055	4,118,649
Feeds, prepared, for animals and fowls <sup>c</sup>	15	214	496	1,210	12,047	260,937	753,570	19,567,045	162,214	24,189,957	4,400,958
Foundry and machine-shop products, not elsewhere classified	503	6,946	27,618	11,589	72,201	22,032,709	48,036,785	76,799,356	3,062,049	222,650,596	142,789,191
Furnishing goods, men's, not elsewhere classified	27	113	645	-----	81	448,811	608,409	2,950,224	10,881	4,760,088	1,785,833
Furniture, including store and office fixtures	204	1,829	15,895	10,460	20,906	6,336,301	22,521,281	39,668,587	959,899	80,226,171	48,590,686
Gold leaf and foil	7	6	129	23	2	16,284	152,373	118,881	1,782	320,055	206,492
Hair work	6	6	18	-----	1	16,543	17,663	32,774	269	92,710	59,773
Hand stamps and stencils and brands	33	146	448	30	355	398,570	613,680	624,874	27,783	2,350,195	1,097,533
Hardware not elsewhere classified	65	386	1,804	150	3,207	1,319,685	2,541,063	3,748,701	137,961	11,175,307	7,280,655
Hat and cap materials, men's	5	9	55	-----	8	16,099	62,863	106,188	773	191,076	86,015
House-furnishing goods, not elsewhere classified <sup>c</sup>	101	816	1,645	150	1,900	1,060,153	1,809,740	5,956,734	84,484	11,103,702	5,083,484
Ice cream	46	200	820	-----	9,778	1,037,925	1,744,097	7,717,570	299,153	10,412,512	11,426,689
Ice, manufactured <sup>c</sup>	76	187	924	1,695	48,258	677,164	2,049,379	267,093	1,277,193	6,922,790	8,378,510
Ink, printing	30	134	328	33	2,979	582,340	437,769	2,941,562	61,768	6,305,267	3,271,877
Instruments, professional and scientific <sup>c</sup>	39	762	3,982	-----	6,856	1,927,228	5,885,176	4,819,097	208,166	18,331,606	13,304,343
Jewelry	78	316	1,155	-----	612	850,363	1,962,010	3,258,165	39,305	8,449,220	5,148,750
Jewelry and instrument cases	6	24	194	-----	101	106,217	220,524	294,083	7,821	741,241	430,332
Knit goods <sup>c</sup>	28	174	1,292	650	531	472,607	1,391,741	2,972,237	40,795	6,561,253	3,492,022
Labels and tags <sup>c</sup>	15	106	358	43	526	283,201	442,005	601,249	24,385	2,512,656	1,537,022
Leather goods, not elsewhere classified	33	83	453	-----	290	256,183	580,726	1,097,634	16,197	3,892,059	1,678,178
Lithographing	47	870	2,501	1	3,789	2,130,893	4,314,234	4,461,043	138,992	16,239,192	11,639,247

See footnotes at end of this section, p. 154.

CENSUS OF MANUFACTURES: 1929

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

(See note at head of this table)

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>	
				Prime movers	Electric motors driven by purchased energy							
COOK COUNTY—Continued												
Lumber and timber products, not elsewhere classified	3	27	229			1,424	Dollars 155,252	Dollars 333,900	Dollars 1,066,216	Dollars 44,657	Dollars 1,921,195	Dollars 870,322
Macaroni, spaghetti, vermicelli, and noodles	24	48	463	1,213		1,344	160,972	486,677	2,230,036	91,087	3,712,219	1,391,096
Machine-tool accessories and small metal-working tools, not elsewhere classified <sup>c</sup>	77	405	2,069	24	3,698	3,698	1,357,613	3,791,190	2,093,156	104,160	11,581,931	9,324,615
Marble, granite, slate, and other stone products	87	231	923	153	8,780	8,780	976,927	2,063,910	2,508,387	102,062	7,413,211	4,742,702
Mattresses and bed springs, not elsewhere classified	41	132	1,382	350	2,353	2,353	400,835	1,762,243	5,076,568	92,261	9,598,734	4,429,905
Meat packing, wholesale	54	2,520	25,491	52,558	56,131	56,131	6,733,290	35,157,648	568,500,331	3,813,695	652,813,610	80,490,584
Millinery	110	401	3,598	775	797	797	1,542,630	4,588,851	10,170,127	90,680	19,947,859	9,687,052
Minerals and earths, ground or otherwise treated	3	8	27	165	113	113	35,387	54,127	141,171	7,966	346,078	196,941
Mirror and picture frames	30	264	2,098	500	3,861	3,861	1,016,745	2,042,506	2,595,532	104,427	8,179,742	5,479,783
Mirrors, framed and unframed	21	88	438	150	354	354	249,558	805,354	1,000,904	30,323	2,576,600	1,486,382
Models and patterns, not including paper patterns	65	59	390		856	856	180,073	792,578	331,225	22,164	1,914,570	1,501,190
Motion pictures, not including projection in theaters	8	120	82		106	106	374,980	216,145	402,470	10,262	1,154,148	681,407
Mucilage, paste, and other adhesives, except glue and rubber cement <sup>d</sup>	10	51	33		263	263	159,152	102,957	785,281	19,003	1,337,515	533,231
Musical-instrument parts and materials: Piano and organ <sup>e</sup>	12	80	638	765	523	523	302,172	815,365	1,054,892	63,808	2,956,459	1,832,750
Musical instruments and parts and materials, not elsewhere classified <sup>f</sup>	20	128	596		1,470	1,470	363,640	924,577	1,043,336	49,773	3,078,813	1,985,704
Musical instruments: Organs	4	5	11		65	65	7,500	18,525	20,851	1,029	67,200	45,320
Musical instruments: Pianos	10	179	2,048	3,775	694	694	570,801	2,817,418	4,103,754	137,409	9,027,619	4,786,456
Oil, cake, and meal, linseed	5	31	223	1,075	2,487	2,487	64,243	365,444	6,761,800	95,293	8,730,426	1,373,327
Optical goods <sup>g</sup>	8	28	67		42	42	75,457	103,816	198,855	3,076	591,263	388,432
Paints and varnishes	86	1,272	3,473	6,002	15,401	15,401	3,952,268	5,127,815	48,635,091	849,255	78,404,723	29,010,377
Paper	6	118	783	9,290	5,617	5,617	354,399	1,253,002	4,065,343	596,123	8,016,141	3,954,675
Paper goods, not elsewhere classified <sup>h</sup>	27	378	1,427	150	3,406	3,406	1,252,295	2,121,622	8,124,515	145,220	17,431,034	9,161,299
Patent or proprietary medicines and compounds	97	692	817	230	1,678	1,678	1,747,154	932,351	6,555,292	109,520	21,364,613	14,699,801
Photographs	11	54	299		459	459	201,254	437,345	1,208,842	17,822	3,420,115	2,103,451
Photo-engraving, not done in printing establishments	46	720	2,023		1,567	1,567	2,487,883	5,371,876	2,179,908	134,537	13,708,414	11,393,969
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills	171	925	4,228	9,000	15,693	15,693	3,235,146	7,879,087	13,467,991	370,318	29,982,981	16,144,672
Pocketbooks, purses, and cardcases <sup>i</sup>	10	61	204		29	29	129,073	367,293	748,994	2,994	1,552,293	800,275
Printing and publishing, book and job	1,034	7,120	24,225	2,000	33,131	33,131	20,990,667	43,027,859	37,711,836	1,444,149	164,817,863	125,601,818
Printing and publishing, music	25	127	94		99	99	330,922	161,515	220,513	5,895	1,500,808	1,283,400
Printing and publishing, newspaper and periodical	473	10,624	7,924	1,859	22,613	22,613	29,051,104	18,799,704	34,510,061	549,776	147,706,769	112,706,932
Printing materials, not including type or ink	13	109	471		1,116	1,116	340,056	783,974	929,858	43,234	3,512,302	2,639,210
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	60	188	1,006	290	2,999	2,999	689,224	1,539,995	13,509,168	146,233	18,537,720	4,882,319
Silversmithing and silverware	4	2	10		16	16	( <sup>j</sup> )	32,622	38,659	1,081	95,278	55,638
Smelting and refining, metals other than gold, silver, or platinum, not from the ore	20	149	727	235	1,886	1,886	794,510	1,205,629	23,619,923	237,496	20,407,311	5,549,892
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	70	517	3,444	335	6,212	6,212	2,156,632	4,807,768	8,731,025	388,070	21,885,248	12,766,153
Statuary and art goods, factory product <sup>k</sup>	21	105	417	150	202	202	344,212	831,223	362,451	20,525	2,093,741	1,686,735
Stereotyping and electrotyping, not done in printing establishments <sup>l</sup>	33	233	924		3,368	3,368	846,332	2,415,155	684,758	107,325	5,096,862	4,904,779
Stoves and ranges (other than electric) and warm-air furnaces	36	416	1,848	1,025	2,199	2,199	1,450,629	2,980,525	4,808,584	217,718	14,463,436	9,437,134
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	111	858	3,771	2,627	23,749	23,749	2,756,462	6,760,893	10,425,603	408,390	35,466,097	18,632,104
Surgical and orthopedic appliances, including artificial limbs <sup>m</sup>	32	340	1,200	425	1,401	1,401	1,083,338	1,528,033	3,870,196	59,956	10,126,295	6,190,143
Theatrical scenery and stage equipment	5	15	43		31	31	44,119	88,746	249,734	3,161	659,286	406,391
Tools, not including edge tools, machine tools, files, or saws	47	206	1,030	20	2,711	2,711	845,720	1,505,783	1,706,902	182,261	6,217,353	4,348,190
Toys (not including children's wheel goods or sleds), games, and playground equipment	23	210	1,075		1,116	1,116	497,693	1,115,754	1,496,413	41,815	4,829,473	3,291,245
Trunks, suitcases, and bags <sup>n</sup>	47	188	1,132	150	59	59	557,637	1,574,521	3,665,965	35,180	6,861,687	3,160,542
Type founding	5	2	17		6	6	( <sup>j</sup> )	17,841	29,956	688	82,414	51,770
Umbrellas, parasols, and canes	4	6	47		6	6	13,251	51,488	259,804	1,000	373,359	112,555
Wall paper	5	42	399	1,143	1,225	1,225	103,783	593,616	1,513,037	66,144	3,746,026	2,169,845
Wall plaster, wall board, insulating board, and floor composition	13	56	123	760	1,065	1,065	140,894	217,887	610,260	41,321	1,098,621	1,047,040
Wood turned and shaped and other wooden goods, not elsewhere classified	34	101	663	880	1,361	1,361	335,285	941,995	1,063,687	43,078	3,076,652	1,969,857
Other industries	2,239	27,066	140,293	376,104	456,547	456,547	75,190,686	222,150,458	734,971,557	67,559,966	1,470,937,127	677,465,614

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.  
<sup>c</sup> The figures for a few establishments located outside Cook County have been included in those for the county, as specified in footnotes 5, 6, and 7, to avoid disclosing, exactly or approximately, the data reported by individual establishments.  
<sup>d</sup> Includes data for 1 establishment located outside Cook County.  
<sup>e</sup> Includes data for 2 establishments located outside Cook County.  
<sup>f</sup> Includes data for 3 establishments located outside Cook County.  
<sup>g</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."

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

[See note at head of this table]

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

## DU PAGE 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, "Furniture, including store and office fixtures"—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.....	56	188	1,303	1,203	2,922	Dollars 416,449	Dollars 1,712,836	Dollars 4,240,082	Dollars 192,088	Dollars 10,752,883	Dollars 6,280,713
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## KANE COUNTY

All industries, total.....	264	2,743	16,201	17,802	21,922	Dollars 6,928,016	Dollars 21,080,070	Dollars 35,057,574	Dollars 1,303,542	Dollars 80,875,977	Dollars 53,514,861
Beverages.....	6	4	20	53	53	9,909	32,155	60,131	2,019	153,666	91,516
Bread and other bakery products.....	33	18	104	10	225	43,414	219,947	524,055	29,375	1,074,663	521,233
Clothing (except work clothing, men's, youths' and boys', not elsewhere classified).....	5	12	125	24	24	18,950	97,297	86,694	2,170	255,887	167,023
Concrete products.....	5	4	10	139	139	7,027	27,265	45,655	1,663	110,892	72,674
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	4	15	30	91	91	29,445	43,498	88,682	5,191	253,784	159,911
Foundry and machine-shop products, not elsewhere classified.....	28	501	2,728	3,431	4,725	1,743,604	3,901,566	5,673,860	343,111	16,281,899	10,204,928
Furniture, including store and office fixtures.....	15	184	1,652	152	1,060	638,189	2,288,957	4,606,030	107,573	11,578,580	6,774,921
Ice cream.....	7	15	63	442	442	52,519	80,043	252,603	19,763	646,746	374,380
Ice, manufactured.....	4	6	27	780	650	12,934	49,900	6,304	24,715	182,439	151,420
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	8	34	142	216	580	110,568	215,097	237,992	13,099	728,559	477,468
Printing and publishing, book and job.....	15	36	125	186	186	99,009	187,585	208,020	9,313	683,224	405,885
Printing and publishing, newspaper and periodical.....	17	351	306	575	470	754,200	439,058	513,052	32,575	3,284,410	2,738,783
Other industries <sup>c</sup> .....	117	1,473	10,808	12,689	12,368	3,508,038	13,497,637	22,664,484	712,976	54,632,278	31,254,819

## LAKE 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 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.....	142	1,473	8,577	33,354	23,468	Dollars 4,110,593	Dollars 13,467,126	Dollars 36,011,861	Dollars 2,817,120	Dollars 74,855,824	Dollars 36,036,843
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## LA SALLE COUNTY

All industries, total.....	140	1,405	11,259	77,039	22,849	Dollars 3,479,603	Dollars 13,998,643	Dollars 22,168,611	Dollars 4,747,252	Dollars 63,873,437	Dollars 36,937,574
Beverages.....	7	7	25	80	33	9,784	34,922	52,507	3,830	161,761	100,424
Bread and other bakery products.....	20	33	222	2	382	41,410	310,399	716,704	36,383	1,516,970	793,883
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	3	12	66	75	335	30,686	45,027	208,073	3,205	409,693	198,415
Clay products (other than pottery) and nonclay refractories.....	6	62	583	1,050	2,619	168,327	709,930	134,973	390,948	1,888,611	1,362,690
Foundry and machine-shop products, not elsewhere classified.....	10	73	274	752	128,087	349,110	596,864	37,496	1,505,959	871,599	
Gas, manufactured, illuminating and heating.....	4	40	41	681	453	78,123	62,464	108,223	165,776	570,002	296,003
Ice cream.....	5	77	2,003	17,747	2,591	197,229	3,092,636	2,505,647	1,393,138	10,604,596	6,756,811
Ice, manufactured.....	4	9	20	10	236	10,575	30,537	62,207	17,923	195,708	115,518
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	3	23	93	100	304	54,176	108,408	132,061	2,142	350,759	216,556
Printing and publishing, book and job.....	11	16	64	110	110	62,493	87,437	110,710	5,446	357,205	241,049
Printing and publishing, newspaper and periodical.....	9	75	85	188	188	208,919	144,015	89,697	6,763	715,138	618,726
Other industries <sup>d</sup> .....	58	978	7,733	57,294	14,780	2,480,794	9,063,683	17,466,885	2,739,202	45,596,987	25,406,900

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

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

<sup>c</sup> The figures for this item include data for the "Watches and watch movements" industry, which reported a larger number of wage earners than any other industry in the county, but for which separate figures can not be given without disclosing data for individual establishments. The "Foundry and machine-shop products, not elsewhere classified" industry outranks all others in respect of value of products.

<sup>d</sup> The figures for this item include data for the "Clocks, clock movements, time-recording devices, and time stamps" industry, which reported a larger number of wage earners than any other industry in the county, but for which separate figures can not be given without disclosing data for individual establishments.

CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>MADISON COUNTY</b>											
All industries, total.....	198	2,096	22,089	115,314	63,873	Dollars 7,281,689	Dollars 32,885,462	Dollars 156,416,817	Dollars 9,454,789	Dollars 258,804,982	Dollars 102,933,376
Beverages.....	12	7	34	-----	71	16,045	45,388	101,270	3,825	261,702	156,607
Bread and other bakery products.....	29	20	191	75	870	72,272	240,823	644,046	28,522	1,238,098	565,530
Car and general construction and repairs, steam-railroad repair shops.....	10	33	402	100	485	78,505	705,102	444,986	23,081	1,251,675	783,608
Clay products (other than pottery) and nonclay refractories.....	6	41	284	554	2,635	113,665	299,742	99,712	116,430	791,522	575,880
Concrete products.....	7	4	18	-----	94	5,340	25,704	54,364	2,391	122,113	65,418
Ice cream.....	7	13	19	31	224	27,127	23,947	114,090	10,642	271,092	146,450
Ice, manufactured.....	8	16	40	870	1,025	36,173	55,717	17,694	38,478	269,773	213,601
Iron and steel: Steel works and rolling mills.....	5	916	7,364	11 66,725	11 16,781	2,298,097	13,353,341	16,481,722	2,183,792	47,609,017	28,943,503
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	9	17	78	-----	125	39,100	119,791	220,544	11,824	441,869	200,501
Printing and publishing, newspaper and periodical.....	13	64	90	-----	200	166,468	162,969	115,187	9,131	721,672	597,354
Other industries.....	92	1,895	13,569	47,134	40,771	4,428,877	17,852,940	138,123,292	7,026,793	205,826,449	60,676,424
<b>PEORIA COUNTY</b>											
All industries, total.....	202	1,920	8,473	27,284	35,058	Dollars 4,749,874	Dollars 11,433,051	Dollars 57,265,940	Dollars 2,788,307	Dollars 101,952,359	Dollars 41,898,112
Agricultural implements.....	4	156	598	203	1,378	285,498	793,557	1,517,986	51,850	3,725,902	2,156,060
Beverages.....	6	11	39	-----	73	18,916	44,796	122,908	4,714	293,120	185,438
Bread and other bakery products.....	28	49	389	-----	651	111,902	454,020	993,194	52,391	2,286,589	1,241,004
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	4	20	165	305	50	67,585	106,013	973,691	11,431	1,448,307	463,185
Concrete products.....	5	12	82	50	117	20,938	90,137	218,972	4,268	542,490	319,250
Foundry and machine-shop products, not elsewhere classified.....	6	43	447	-----	644	114,937	686,522	338,174	78,885	1,615,171	1,153,112
Marble, granite, slate, and other stone products.....	3	12	60	-----	549	39,955	93,976	79,370	7,463	293,710	206,877
Meat packing, wholesale.....	3	58	254	800	320	108,127	319,997	4,510,256	87,832	5,208,822	700,084
Paper.....	3	27	490	7,470	-----	382	74,872	652,289	2,046,352	3,555,470	1,294,192
Patent or proprietary medicines and compounds.....	5	26	68	-----	842	56,250	356,253	450,293	16,885	837,600	420,482
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	7	30	192	375	582	85,952	267,702	324,682	7,687	904,612	572,243
Printing and publishing, book and job.....	18	40	163	-----	174	100,877	224,960	280,878	9,270	879,897	589,740
Printing and publishing, newspaper and periodical.....	15	376	159	-----	583	522,200	484,539	411,517	19,684	2,243,862	1,912,661
Other industries.....	95	1,051	5,371	18,081	28,208	3,141,759	7,131,094	44,952,607	2,240,962	77,996,747	30,803,178
<b>ROCK ISLAND COUNTY</b>											
All industries, total.....	150	2,240	15,994	10,650	51,346	Dollars 5,227,524	Dollars 22,620,099	Dollars 45,477,093	Dollars 1,972,992	Dollars 112,784,519	Dollars 65,334,434
Agricultural implements.....	6	720	4,963	2,280	15,717	1,892,306	7,197,472	16,670,212	535,687	47,072,432	29,866,533
Beverages.....	5	9	20	-----	99	23,307	23,660	54,822	3,105	169,630	111,703
Bread and other bakery products.....	13	16	120	-----	103	19,324	163,847	362,208	21,664	750,921	367,049
Concrete products.....	4	4	13	-----	58	5,950	17,212	30,730	1,187	73,023	41,106
Electrical machinery, apparatus, and supplies.....	4	67	93	-----	324	111,489	138,319	395,865	14,787	815,940	405,297
Foundry and machine-shop products, not elsewhere classified.....	18	350	2,264	1,326	3,306	995,651	3,302,055	4,940,014	317,741	13,193,532	7,935,777
Ice cream.....	5	10	31	-----	466	19,328	53,846	203,362	21,291	477,116	252,463
Ice, manufactured.....	3	2	30	-----	526	(1) <sup>c</sup>	42,530	6,376	21,482	144,249	116,391
Models and patterns, not including paper patterns.....	4	4	30	-----	30	13,166	45,060	10,439	1,467	105,484	87,578
Printing and publishing, book and job.....	10	26	220	-----	180	71,285	313,766	437,768	10,644	967,898	519,496
Printing and publishing, newspaper and periodical.....	12	201	236	-----	509	374,373	380,886	434,060	21,681	1,875,016	1,419,275
Other industries.....	66	825	7,974	7,034	30,028	2,001,345	10,941,446	21,925,247	1,002,256	47,139,269	24,211,766

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

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

[See note at head of this table]

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

## ST. CLAIR COUNTY

						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	282	2,738	17,361	48,937	61,348	6,322,894	22,635,410	145,654,953	3,990,672	214,992,985	65,347,360
Bread and other bakery products.....	43	23	178	-----	531	72,685	254,272	586,653	20,303	1,240,901	626,946
Car and general construction and repairs, steam-railroad repair shops.....	12	108	1,658	998	2,147	294,057	2,681,589	1,910,787	141,217	5,027,650	2,975,640
Concrete products.....	6	5	32	22	69	9,655	43,493	48,921	10,625	143,540	83,800
Fertilizers <sup>13</sup> .....	6	45	264	202	2,535	79,936	291,678	2,970,438	50,677	4,833,475	1,812,960
Ice cream.....	6	17	51	40	340	44,266	83,955	173,977	31,938	674,068	368,153
Ice, manufactured.....	8	22	77	1,270	1,310	46,704	128,508	20,346	83,351	629,489	419,792
Marble, granite, slate, and other stone products.....	4	-----	51	-----	378	-----	89,757	44,204	5,471	198,883	149,298
Meat packing, wholesale.....	5	652	3,357	9,035	8,259	1,429,351	4,212,307	78,136,737	405,355	91,631,376	13,039,284
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	6	34	65	175	203	67,459	100,099	117,498	5,066	328,900	205,736
Printing and publishing, book and job.....	11	9	31	-----	76	14,577	59,567	56,309	4,535	216,997	155,153
Printing and publishing, newspaper and periodical.....	12	75	97	-----	351	219,598	212,905	128,257	14,876	896,685	753,552
Stoves and ranges (other than electric and warm-air furnaces.....	14	182	1,821	475	2,979	580,258	2,388,067	3,312,934	192,147	8,972,435	5,437,354
Other industries <sup>14</sup> .....	149	1,566	9,679	36,720	42,170	3,464,348	12,068,013	58,142,892	3,015,511	100,449,780	39,291,377

## TAZEWELL 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, "Engines, turbines, tractors, and water wheels"—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.]

						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	66	1,374	6,300	11,963	19,913	2,946,819	8,710,141	33,960,559	1,138,406	80,225,197	40,120,232

## WILL 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.]

						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	151	1,449	11,744	78,090	33,496	4,234,726	16,325,842	41,840,674	10,884,220	96,805,683	44,080,780

## WINNEBAGO COUNTY

						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	283	3,332	19,016	22,440	42,310	8,460,005	28,291,371	43,176,716	2,628,737	115,812,461	70,005,008
Beverages.....	5	8	22	-----	40	19,530	31,272	60,965	2,760	166,254	102,529
Bread and other bakery products.....	36	17	195	-----	178	36,490	248,676	627,691	34,080	1,276,716	614,036
Butter.....	4	11	18	15	52	23,139	33,078	367,880	3,770	510,763	159,107
Concrete products.....	10	12	96	65	218	27,550	133,861	224,727	11,901	683,153	446,466
Cutlery (not including silver and plated cutlery) and edge tools.....	5	57	232	-----	836	112,343	399,739	268,937	25,221	1,270,736	976,578
Foundry and machine-shop products, not elsewhere classified.....	25	495	2,610	1,993	7,093	1,250,379	3,987,282	4,766,163	461,761	15,376,110	10,148,186
Furniture, including store and office fixtures.....	38	309	3,369	3,931	6,386	841,518	4,079,896	6,226,876	235,642	15,407,318	8,944,800
Knit goods.....	7	172	1,410	1,200	1,213	482,589	1,482,218	2,668,607	91,640	5,961,960	2,901,704
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	4	11	61	-----	98	21,496	121,439	31,421	4,369	277,529	241,739
Machine tools.....	9	460	1,968	300	5,791	1,394,033	3,300,463	2,544,695	145,141	12,040,017	9,360,081
Models and patterns, not including paper patterns.....	4	7	53	-----	130	31,323	102,868	35,658	3,796	231,887	192,433
Nonferrous-metal alloys and products, not including aluminum products.....	3	10	49	-----	214	16,220	53,048	154,948	6,936	281,378	119,404
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	6	10	45	-----	505	42,383	78,485	158,521	6,544	392,805	227,740
Printing and publishing, book and job.....	24	75	174	-----	238	182,248	270,997	233,515	12,782	1,113,750	867,453
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4	15	77	-----	438	44,342	105,424	234,570	7,067	512,930	221,293
Other industries.....	101	1,657	9,547	14,376	18,281	3,934,474	13,292,665	24,223,242	1,574,643	60,299,255	34,501,370

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

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

<sup>13</sup> The figures for the "Fertilizers" industry include data for 1 establishment located outside the county. These adjustments have been made to avoid disclosing the data for the establishment in question. Amounts equivalent to the figures for this establishment have been subtracted from the "Other industries" items, and therefore the totals for the county are not affected by these counterbalancing adjustments.

<sup>14</sup> See footnote 13.

CENSUS OF MANUFACTURES: 1929

TABLE 14.—GENERAL STATISTICS FOR CHICAGO, 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. The totals for all industries do not include data for a few establishments located outside the city (see footnote 1, 2, and 4), 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	10, 201	85, 702	405, 899	498, 661	894, 892	250, 425, 847	626, 466, 054	2, 014, 010, 354	86, 916, 106	8, 915, 052, 959	1, 814, 117, 499
Artificial and preserved flowers and plants <sup>1</sup> .....	26	107	487	.....	140	338, 430	497, 298	1, 218, 939	14, 041	2, 826, 058	1, 593, 078
Awnings, tents, sails, and canvas covers <sup>1</sup> .....	45	110	470	.....	203	294, 766	642, 536	1, 983, 581	19, 644	3, 679, 743	1, 576, 518
Baskets and rattan and willow ware, not including furniture.....	10	11	55	.....	45	15, 429	62, 344	130, 913	2, 050	255, 000	122, 034
Belting, leather.....	12	103	379	200	507	286, 030	498, 353	1, 801, 970	20, 745	3, 778, 501	1, 966, 186
Beverages.....	94	409	1, 162	3, 228	2, 493	1, 173, 955	1, 896, 321	3, 568, 589	270, 340	10, 871, 969	7, 083, 030
Billiard and pool tables, bowling alleys, and accessories.....	8	7	21	.....	19	15, 687	22, 710	29, 037	1, 577	99, 698	69, 084
Blacking, stains, and dressings.....	15	43	46	.....	62	114, 295	67, 294	295, 492	6, 108	833, 816	532, 216
Bookbinding and blank-book making.....	109	534	2, 980	.....	2, 797	1, 537, 051	3, 949, 364	3, 706, 084	110, 193	13, 013, 014	9, 007, 737
Boot and shoe cut stock, not made in boot and shoe factories.....	5	43	283	325	165	146, 298	277, 315	3, 229, 700	17, 467	3, 979, 496	732, 320
Boots and shoes, other than rubber <sup>1</sup> .....	34	947	4, 185	1, 800	2, 501	1, 070, 331	5, 430, 765	10, 373, 070	121, 082	24, 011, 909	13, 517, 757
Boxes, cigar, wooden <sup>1</sup> .....	5	10	90	.....	115	35, 508	82, 243	89, 297	4, 348	280, 914	187, 209
Boxes, paper, not elsewhere classified <sup>1</sup> .....	92	703	3, 927	625	4, 133	2, 221, 824	4, 578, 577	11, 637, 662	218, 368	22, 608, 857	10, 882, 887
Boxes, wooden, except cigar boxes.....	31	144	1, 654	3, 000	3, 900	437, 157	1, 943, 802	4, 188, 586	100, 920	7, 991, 608	3, 702, 102
Bread and other bakery products.....	1, 448	1, 527	12, 359	3, 766	14, 430	3, 680, 279	10, 845, 399	48, 018, 915	1, 676, 131	107, 050, 110	57, 365, 004
Brooms.....	20	13	145	.....	222	17, 695	207, 829	428, 727	6, 955	840, 051	413, 399
Butter.....	9	52	128	744	921	127, 941	166, 358	4, 016, 947	30, 414	4, 804, 377	787, 016
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	7	11	34	.....	9	38, 847	69, 332	707, 669	8, 272	903, 917	187, 076
Car and general construction and repairs, steam-railroad repair shops.....	26	929	12, 662	16, 320	20, 205	2, 516, 592	20, 841, 879	13, 404, 976	1, 085, 794	38, 462, 295	23, 371, 626
Caskets, coffins, burial cases, and other morticians' goods.....	21	172	1, 188	425	1, 477	528, 182	1, 970, 014	3, 620, 431	84, 900	8, 393, 052	4, 687, 712
Cheese <sup>1</sup> .....	4	7	23	16	521	27, 878	32, 910	257, 278	4, 928	415, 129	152, 023
Chemicals, not elsewhere classified.....	13	150	510	191	5, 107	470, 845	882, 874	6, 985, 066	278, 122	10, 453, 885	3, 194, 597
China firing and decorating, not done in potteries.....	7	37	142	.....	3	76, 163	194, 792	297, 699	13, 216	725, 360	414, 635
Chocolate and cocoa products, not including confectionery.....	3	3	77	900	1, 224	0, 807	111, 615	2, 261, 236	50, 798	4, 980, 627	2, 663, 593
Cigars and cigarettes.....	88	64	507	.....	20	127, 304	631, 275	761, 478	4, 903	2, 070, 459	1, 328, 078
Clay products (other than pottery) and nonclay refractories.....	8	209	1, 060	2, 200	2, 040	539, 557	2, 000, 133	736, 832	292, 273	4, 230, 197	3, 201, 092
Cleaning and polishing preparations.....	45	170	282	685	.....	585, 415	399, 372	2, 320, 711	32, 534	6, 789, 213	4, 420, 918
Clothing (except work clothing), men's, youths' and boys', not elsewhere classified <sup>2</sup> .....	283	3, 040	17, 706	1, 000	4, 902	7, 697, 340	26, 692, 591	44, 961, 960	386, 938	110, 364, 302	65, 015, 404
Clothing, women's, not elsewhere classified.....	373	1, 231	11, 990	.....	1, 874	3, 090, 168	13, 724, 162	36, 885, 139	244, 975	69, 967, 774	32, 837, 600
Boxes, paper, not elsewhere classified <sup>1</sup> .....	40	450	853	1, 350	3, 329	1, 231, 698	1, 160, 645	38, 182, 268	233, 180	46, 751, 513	8, 336, 065
Concrete products.....	40	106	402	5	1, 668	3, 320, 293	7, 118, 814	543, 380	43, 223	2, 436, 933	1, 350, 330
Confectionery.....	128	1, 462	10, 523	3, 461	11, 683	4, 340, 005	10, 700, 436	52, 298, 860	717, 311	85, 838, 060	32, 821, 889
Cooperage <sup>1</sup> .....	20	83	789	1, 950	573	325, 084	1, 143, 190	3, 648, 655	65, 759	8, 812, 887	2, 008, 473
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	210	558	2, 346	11	2, 794	1, 815, 842	4, 313, 240	6, 820, 644	119, 062	17, 555, 317	10, 606, 611
Corsets and allied garments.....	17	280	1, 203	.....	280	715, 067	1, 357, 376	4, 236, 086	22, 269	9, 321, 955	5, 063, 000
Dental goods and equipment <sup>1</sup> .....	10	35	138	.....	160	104, 180	158, 898	1, 456, 069	7, 454	2, 008, 504	544, 981
Electroplating <sup>2</sup> .....	80	142	1, 027	3, 654	.....	438, 818	1, 840, 813	641, 623	153, 088	4, 413, 390	3, 618, 079
Emery wheels and other abrasive and polishing appliances.....	8	46	139	.....	222	241, 927	227, 009	858, 787	16, 730	1, 700, 866	825, 349
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	24	180	630	.....	871	533, 075	900, 331	734, 802	36, 087	3, 856, 017	2, 615, 128
Engraving, steel and copperplate, and plate printing.....	50	235	1, 165	208	913	864, 088	1, 546, 607	1, 445, 975	46, 320	6, 110, 197	4, 617, 902
Engraving, wood.....	8	11	72	.....	10	30, 196	208, 934	39, 303	1, 734	405, 537	364, 500
Envelopes.....	17	230	997	95	1, 541	720, 406	1, 349, 302	2, 477, 262	53, 944	6, 650, 055	4, 118, 849
Feeds, prepared, for animals and fowls.....	8	127	261	.....	0, 606	390, 166	386, 022	8, 283, 954	76, 532	10, 934, 831	2, 574, 345
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	10	156	1, 228	375	10, 834	557, 822	2, 357, 702	5, 255, 143	514, 623	11, 860, 727	6, 097, 961
Foundry and machine-shop products, not elsewhere classified.....	465	6, 254	24, 845	9, 827	60, 003	10, 551, 485	42, 784, 375	64, 246, 453	2, 591, 771	105, 274, 573	128, 436, 349
Furnishing goods, men's, not elsewhere classified.....	27	118	645	81	.....	448, 811	608, 409	2, 950, 224	10, 881	4, 750, 088	1, 788, 983
Furniture, including store and office fixtures.....	286	1, 770	15, 084	10, 160	20, 112	6, 157, 872	21, 356, 220	37, 111, 000	918, 323	83, 483, 529	45, 453, 297
Gold leaf and foil.....	7	6	129	.....	23	16, 264	162, 373	118, 331	1, 782	320, 655	206, 492
Hair work.....	6	0	18	.....	1	16, 543	17, 663	32, 674	269	92, 716	59, 773
Hand stamps and stencils and brands.....	33	146	448	30	355	398, 570	613, 680	624, 874	27, 788	2, 350, 195	1, 697, 633
Hat and cap materials, men's.....	5	9	55	.....	8	16, 099	62, 853	105, 188	773	191, 976	86, 015
House-furnishing goods, not elsewhere classified <sup>2</sup> .....	101	316	1, 645	190	1, 900	1, 060, 158	1, 809, 740	5, 955, 734	64, 484	11, 103, 702	5, 083, 484
Ice cream.....	38	273	779	.....	9, 489	983, 329	1, 656, 487	7, 420, 530	248, 432	18, 765, 800	11, 000, 937
Ice, manufactured.....	58	144	603	1, 430	39, 436	562, 329	1, 484, 159	1, 183, 081	992, 131	7, 474, 648	6, 209, 436
Ink, printing.....	30	134	328	33	2, 979	532, 340	437, 759	2, 941, 562	91, 768	6, 305, 207	3, 271, 877
Instruments, professional and scientific <sup>2</sup> .....	39	762	3, 982	6, 855	1, 927, 228	5, 985, 176	4, 819, 097	208, 166	18, 331, 606	13, 204, 343	
Iron and steel: Steel works and rolling mills.....	14	1, 610	14, 306	197, 314	312, 662	4, 029, 068	27, 543, 443	82, 972, 934	9, 848, 609	150, 514, 917	57, 699, 287
Jewelry.....	78	316	1, 155	.....	612	556, 363	1, 952, 010	3, 258, 165	39, 305	8, 446, 220	5, 148, 750
Jewelry and instrument cases.....	6	24	194	.....	101	106, 217	220, 524	294, 088	7, 821	741, 241	439, 332
Knit goods <sup>1</sup> .....	28	174	1, 292	650	581	472, 697	1, 391, 741	2, 972, 237	46, 796	6, 501, 253	3, 542, 221
Labels and tags <sup>2</sup> .....	15	106	358	43	525	283, 201	442, 005	901, 249	24, 385	2, 512, 656	1, 587, 022
Leather goods, not elsewhere classified.....	33	83	483	.....	290	256, 183	680, 720	1, 697, 684	16, 107	3, 392, 059	1, 678, 178
Lithographing.....	47	570	2, 501	1	3, 789	2, 130, 863	4, 314, 234	4, 461, 043	138, 902	16, 230, 192	11, 639, 247
Lumber and timber products, not elsewhere classified.....	3	27	229	.....	1, 424	155, 252	333, 900	1, 006, 216	44, 657	1, 921, 195	870, 322
Machine tools.....	11	127	434	610	1, 532	437, 851	891, 862	1, 566, 250	47, 113	3, 620, 654	2, 007, 291
Marble, granite, slate, and other stone products.....	64	193	720	153	7, 111	800, 939	1, 638, 639	1, 939, 598	121, 362	5, 818, 989	3, 758, 029
Mattresses and bed springs, not elsewhere classified <sup>1</sup> .....	41	132	1, 382	.....	360	2, 353	460, 835	5, 076, 568	92, 261	9, 598, 734	4, 420, 905
Meat packing, wholesale.....	54	2, 520	25, 491	52, 568	56, 131	6, 733, 280	35, 157, 648	568, 500, 331	3, 813, 605	652, 813, 610	80, 490, 584
Millinery <sup>1</sup> .....	110	491	3, 598	775	797	1, 542, 630	4, 583, 851	10, 170, 127	90, 680	19, 947, 859	9, 687, 052

See footnotes at end of table.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Mirror and picture frames.....	39	264	2,098	500	3,861	1,016,745	2,642,506	2,595,532	104,427	8,179,742	5,479,783
Mirrors, framed and unframed.....	21	88	438	150	354	249,558	805,354	1,060,904	30,323	2,576,608	1,486,882
Models and patterns, not including paper patterns.....	58	50	343	-----	743	170,030	681,601	299,131	19,466	1,729,748	1,411,151
Mudlage, paste, and other adhesives, except glue and rubber cement <sup>1</sup> .....	10	51	83	-----	203	150,152	102,957	785,281	10,003	1,337,515	533,231
Musical-instrument parts and materials: Piano and organ <sup>4</sup> .....	12	80	638	765	523	302,172	815,365	1,054,892	68,808	2,056,450	1,832,759
Musical instruments and parts and materials, not elsewhere classified <sup>2</sup> .....	20	128	596	-----	1,470	363,640	924,577	1,043,336	40,778	3,078,813	1,985,704
Musical instruments: Organs.....	4	5	11	-----	65	7,509	15,525	20,851	1,029	67,200	45,320
Optical goods <sup>1</sup> .....	8	28	67	-----	42	75,457	103,816	198,855	3,976	501,263	388,432
Paints and varnishes.....	82	1,218	3,284	6,002	14,132	3,790,313	4,892,864	40,029,337	772,709	74,615,856	27,813,310
Paper.....	6	118	785	0,290	5,917	354,399	1,253,002	4,065,343	506,123	8,616,141	3,954,675
Paper goods, not elsewhere classified <sup>1</sup> .....	27	378	1,427	150	3,406	1,252,285	2,121,622	8,124,515	145,220	17,431,034	9,161,299
Photographs.....	11	54	299	-----	459	201,254	437,345	1,298,842	17,822	3,420,115	2,103,451
Photo-engraving, not done in printing establishments.....	46	720	2,023	-----	1,507	2,487,883	5,371,870	2,170,908	134,537	13,708,414	11,303,069
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	144	809	3,858	8,800	13,544	2,900,124	7,225,421	11,528,533	322,766	26,290,904	14,448,555
Pocketbooks, purses, and cardcases <sup>1</sup> .....	10	61	204	-----	29	120,073	367,268	748,094	2,934	1,552,203	800,275
Printing and publishing, book and job.....	1,008	7,060	24,043	2,000	32,432	20,819,863	42,671,095	37,135,766	1,400,447	162,834,821	124,289,608
Printing and publishing, music.....	25	127	94	-----	99	330,922	161,515	220,513	5,895	1,500,808	1,233,400
Printing and publishing, newspaper and periodical.....	432	10,281	7,472	1,850	21,920	28,236,801	17,866,920	34,056,502	605,570	144,325,632	109,793,554
Printing materials, not including type or ink.....	13	109	471	-----	1,110	340,056	783,074	929,858	43,234	3,512,302	2,639,210
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	9	227	842	512	4,134	623,248	1,369,155	10,214,085	340,478	10,440,525	5,882,902
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments <sup>1</sup> .....	60	186	1,096	280	2,909	689,224	1,539,905	13,509,168	146,233	18,537,720	4,882,319
Signs and advertising novelties.....	134	855	2,301	125	1,984	2,352,250	3,809,381	4,863,023	149,408	16,994,817	11,982,486
Silversmithing and silverware.....	4	2	16	-----	15	32,622	38,659	1,081	1,081	95,278	55,538
Stationery goods, not elsewhere classified.....	25	265	823	-----	978	766,606	1,144,675	3,450,259	59,277	9,675,352	6,165,810
Statuary and art goods, factory product <sup>1</sup> .....	21	105	417	150	202	344,212	831,223	862,481	20,525	2,065,741	1,685,735
Stereotyping and electrotyping, not done in printing establishments <sup>2</sup> .....	38	233	924	-----	3,368	846,332	2,415,155	684,758	107,325	5,606,862	4,904,779
Stoves and ranges (other than electric) and warm-air furnaces.....	32	320	1,457	675	1,753	1,330,988	2,470,284	3,708,454	146,250	11,400,730	7,546,026
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	100	751	3,468	2,627	21,866	2,305,669	6,289,414	13,072,905	373,991	29,930,211	10,483,225
Surgical and orthopedic appliances, including artificial limbs <sup>1</sup> .....	32	349	1,200	425	1,401	1,083,338	1,528,633	3,870,106	59,956	10,126,295	6,196,143
Theatrical scenery and stage equipment.....	5	15	43	-----	31	44,110	88,746	249,734	3,161	650,286	400,301
Tin cans and other tinware, not elsewhere classified.....	21	407	2,082	1,210	5,246	879,422	3,838,014	14,417,737	210,499	26,604,558	12,030,322
Trunks, suitcases, and bags <sup>1</sup> .....	47	188	1,132	150	569	557,637	1,574,521	3,665,905	35,180	6,861,687	3,180,542
Type founding.....	5	2	17	-----	19	( <sup>3</sup> )	17,841	20,956	688	82,414	51,770
Umbrellas, parasols, and canes.....	4	6	47	-----	6	13,251	51,488	250,804	1,000	373,359	112,555
Wall paper.....	5	42	309	1,143	1,225	103,783	593,616	1,513,037	66,144	3,749,028	2,160,845
Wood turned and shaped and other wooden goods, not elsewhere classified <sup>1</sup> .....	34	101	663	880	1,361	335,285	941,995	1,093,687	43,078	3,076,652	1,960,887
Other industries <sup>5</sup> .....	2,588	29,411	144,168	144,830	288,073	83,034,942	216,084,072	642,190,505	53,600,636	1,369,715,198	673,864,057

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>1</sup> The 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.<sup>2</sup> The items for each of the industries covered by this footnote include data for 2 establishments located outside the city, to avoid disclosing the figures reported by the establishments in question.<sup>3</sup> 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.<sup>4</sup> The items for each of the industries covered by this footnote include data for 3 establishments located outside the city, to avoid disclosing approximations of the figures reported by the establishments in question.<sup>5</sup> Withheld to avoid disclosing compensation of individual officers or employees; included in item for "Other industries."<sup>6</sup> The figures for this item include data for the "Electrical machinery, apparatus, and supplies" industry, which reported a larger number of wage earners than any other industry in the city, but for which separate figures can not be given without disclosing approximations of the data for individual establishments.

# INDIANA

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929.....	5,091	314,698	1,858,735	882,248	976,487	\$418,771,100	\$1,403,431,157	\$1,280,124,322	\$123,306,836	\$2,539,893,849	\$1,136,462,692
1927.....	4,726	280,717	1,602,113	850,368	751,745	375,217,514	1,227,188,557	1,100,891,504	126,807,053	2,153,479,432	926,310,875
1925.....	4,772	280,854	1,420,889	775,091	645,898	395,003,314	1,257,930,017	(*)	(*)	2,125,023,109	867,062,492
1923.....	4,909	291,131	1,372,007	862,810	599,197	374,509,629	1,190,070,192	(*)	(*)	2,031,674,993	841,604,801
1921.....	5,109	206,534	(*)	(*)	(*)	251,455,927	825,397,556	(*)	(*)	1,377,772,071	551,374,515
1919.....	7,916	277,580	1,094,568	720,879	373,689	317,042,997	1,174,950,568	1,084,756,375	90,194,193	1,898,753,387	723,802,819
1914.....	8,022	197,503	707,982	507,100	200,882	119,268,329	423,537,157	391,162,386	32,694,771	739,795,021	306,937,864
1909.....	7,909	186,984	631,073	566,125	65,548	95,510,616	334,374,753	316,997,908	17,376,845	579,075,046	244,700,293
1904.....	7,044	154,174	378,791	369,709	9,082	72,058,099	220,507,007	211,277,000	9,230,007	593,954,405	173,447,388
1899.....	7,128	139,017	324,239	321,475	2,764	59,280,131	195,162,566	(*)	(*)	337,071,630	141,906,064
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	7.7	12.1	16.0	3.7	29.9	11.0	14.4	16.3	-2.4	17.9	22.7
1925-1927.....	-1.0	(?)	12.7	9.7	16.4	2.8	-2.4			1.3	6.8
1923-1925.....	-2.8	-3.5	3.6	-10.2	20.8	-2.5	5.7			4.0	3.0
1921-1923.....	-3.9	41.0				48.9	44.0			47.5	52.6
1919-1921.....	-35.5	-25.6				-20.7	-29.7			-27.4	-23.8
1919-1929.....	-35.7	13.4	69.8	22.4	161.3	32.1	19.4	13.0	36.7	33.8	57.0
1909-1919.....	-0.7	48.5	73.3	27.3	470.1	231.9	251.4	242.2	419.0	227.9	195.8
1899-1909.....	11.8	34.5	94.8	76.1	2,271.5	61.1	71.3			71.8	72.4

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



# CENSUS OF MANUFACTURES: 1929

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

	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PROD- UCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manu- facture
						Total	Materials and containers	Fuel and purchased energy		
The State	3, 238, 503	5, 091	314, 698	1, 858, 735	\$418, 771, 109	\$1, 408, 431, 157	\$1, 280, 124, 322	\$123, 306, 835	\$2, 539, 893, 840	\$1, 136, 462, 602
<i>Industrial Areas</i>										
Chicago Area, <sup>3</sup> total	4, 675, 877	11, 774	550, 903	2, 720, 674	869, 218, 189	3, 009, 840, 883	2, 814, 605, 307	195, 234, 986	5, 558, 331, 242	2, 548, 490, 359
Portion in Indiana (Lake County)	261, 310	260	50, 328	873, 749	88, 670, 154	508, 255, 982	425, 032, 100	83, 223, 882	803, 871, 186	295, 615, 204
Portion in Illinois	4, 414, 567	11, 484	500, 575	1, 855, 925	780, 539, 035	2, 501, 584, 901	2, 389, 573, 797	112, 011, 104	4, 754, 460, 056	2, 252, 875, 155
Indianapolis Area (coextensive with Marion County) <sup>4</sup>	422, 666	917	51, 117	154, 110	67, 712, 913	238, 443, 585	230, 491, 039	7, 052, 546	428, 362, 004	189, 918, 419
<i>Counties in Indiana<sup>5</sup></i>										
Adams	19, 967	42	1, 808	4, 813	1, 540, 259	4, 787, 920	4, 572, 275	215, 645	8, 907, 194	4, 119, 274
Allen	146, 743	209	23, 306	77, 523	32, 908, 378	70, 715, 215	67, 917, 215	2, 798, 000	140, 855, 693	70, 139, 878
Bartholomew	24, 864	50	2, 035	5, 339	1, 936, 129	5, 834, 359	5, 650, 131	184, 228	12, 006, 624	6, 772, 265
Benton	11, 886	7	60	246	62, 019	106, 172	101, 054	5, 118	295, 106	189, 024
Blackford	13, 617	25	1, 317	7, 362	1, 440, 855	5, 421, 072	4, 992, 105	428, 907	9, 337, 452	3, 916, 380
Boone	22, 290	32	618	2, 032	574, 592	2, 070, 205	2, 003, 209	66, 996	3, 282, 950	1, 212, 745
Carroll	15, 049	18	134	798	186, 574	4, 323, 714	807, 142	16, 572	365, 309	292, 461
Cass	34, 518	55	1, 405	5, 997	1, 720, 943	4, 682, 402	4, 546, 415	136, 077	8, 841, 790	4, 107, 304
Clark	30, 764	35	1, 950	15, 244	2, 404, 614	8, 487, 374	7, 886, 895	600, 679	19, 008, 203	10, 516, 629
Clay	26, 479	37	1, 775	6, 813	2, 040, 475	1, 793, 078	1, 146, 264	646, 814	6, 982, 098	4, 189, 020
Clinton	27, 329	39	1, 355	5, 079	1, 542, 995	5, 053, 539	4, 839, 219	224, 320	8, 878, 986	3, 515, 447
Crawford	10, 160	13	90	731	199, 837	2, 177	197, 710	2, 177	365, 809	108, 422
Daviess	25, 832	33	1, 274	2, 798	1, 484, 150	2, 574, 606	2, 487, 900	86, 700	4, 894, 178	2, 319, 572
Dearborn	21, 056	41	1, 040	6, 414	1, 858, 143	7, 848, 218	7, 614, 101	234, 117	13, 137, 740	5, 289, 522
Decatur	17, 308	19	825	1, 565	335, 276	979, 482	951, 929	47, 553	1, 699, 889	719, 007
Delaware <sup>6</sup>	67, 270	123	10, 720	56, 226	13, 963, 454	34, 388, 724	32, 105, 815	2, 228, 409	70, 581, 563	36, 192, 839
Dubois	20, 553	54	1, 500	5, 231	1, 421, 533	4, 005, 815	3, 882, 671	113, 144	7, 097, 714	3, 091, 899
Elkhart <sup>6</sup>	68, 875	163	8, 578	25, 467	11, 436, 591	20, 966, 078	20, 078, 093	887, 983	47, 712, 375	29, 746, 299
Fayette	19, 243	35	2, 898	8, 030	3, 698, 124	6, 738, 328	6, 486, 964	301, 364	14, 150, 071	7, 411, 743
Floyd	34, 655	72	3, 493	14, 309	3, 622, 595	12, 141, 050	11, 823, 170	318, 490	21, 402, 362	9, 200, 702
Fountain	17, 071	23	628	4, 045	767, 996	899, 593	696, 558	203, 035	2, 444, 462	1, 544, 869
Franklin	14, 498	12	166	1, 267	152, 638	315, 820	274, 430	41, 384	657, 631	367, 311
Fulton	15, 938	25	297	1, 556	328, 371	2, 353, 990	2, 297, 625	56, 365	3, 405, 975	1, 051, 685
Gibson	29, 202	25	992	5, 882	1, 372, 879	2, 300, 202	2, 272, 196	94, 006	4, 685, 159	2, 318, 957
Grant	51, 089	117	6, 173	20, 412	6, 270, 393	23, 815, 342	22, 647, 686	1, 167, 656	42, 855, 137	19, 039, 795
Greene	31, 481	32	530	1, 430	553, 983	1, 113, 662	1, 062, 344	51, 318	2, 247, 440	1, 133, 778
Hamilton	23, 444	30	920	6, 097	901, 644	4, 704, 306	4, 492, 207	212, 099	6, 675, 778	1, 071, 472
Hancock	16, 695	20	231	951	192, 831	394, 078	365, 504	88, 574	3, 505, 248	401, 170
Harrison	17, 254	23	435	3, 285	398, 187	837, 091	746, 176	90, 915	1, 688, 201	851, 110
Hendricks	19, 725	12	43	716	41, 364	125, 490	119, 103	6, 387	240, 637	115, 147
Henry	35, 238	49	4, 004	20, 246	4, 903, 171	10, 104, 458	9, 286, 037	818, 421	20, 720, 511	10, 616, 053
Howard	46, 696	84	6, 608	56, 031	8, 733, 780	16, 398, 953	14, 005, 507	2, 393, 446	35, 092, 305	19, 593, 042
Huntington	29, 073	59	2, 032	6, 267	2, 271, 701	5, 182, 738	4, 983, 626	199, 112	6, 224, 771	3, 024, 771
Jackson	23, 731	52	1, 665	5, 281	1, 224, 257	4, 638, 468	4, 470, 937	167, 531	8, 027, 063	3, 389, 196
Jasper	13, 883	10	24	204	26, 429	171, 416	167, 417	3, 999	254, 277	82, 861
Jay	20, 846	28	1, 589	5, 102	1, 507, 752	3, 526, 360	3, 097, 973	428, 387	7, 000, 993	3, 474, 633
Jefferson	19, 182	35	407	2, 894	371, 699	1, 600, 847	1, 535, 323	65, 524	2, 684, 847	984, 000
Jennings	11, 800	22	298	1, 043	254, 480	925, 029	901, 030	24, 500	1, 608, 927	581, 298
Johnson	21, 768	38	1, 128	4, 196	1, 121, 994	2, 056, 201	2, 854, 064	101, 237	5, 875, 994	2, 919, 793
Knox	43, 813	55	1, 680	5, 599	1, 535, 371	6, 395, 970	6, 395, 233	238, 737	11, 130, 120	4, 406, 150
Kosciusko	27, 488	38	894	2, 733	370, 828	2, 198, 557	2, 063, 505	135, 052	4, 183, 459	1, 984, 902
Lagrange	13, 780	12	91	5, 111	146, 574	285, 358	114, 613	170, 745	853, 077	567, 719
Lake <sup>6</sup>	261, 310	260	50, 328	873, 749	88, 670, 154	508, 255, 982	425, 032, 100	83, 223, 882	803, 871, 186	295, 615, 204
La Porte	60, 490	104	7, 204	30, 933	10, 412, 935	31, 697, 024	30, 805, 632	891, 362	57, 718, 420	29, 021, 390
Lawrence	35, 683	38	3, 064	26, 144	4, 603, 493	4, 408, 457	3, 750, 502	657, 955	16, 882, 106	11, 473, 649
Madison	82, 888	140	15, 962	50, 010	18, 731, 429	43, 405, 659	41, 379, 434	2, 026, 225	102, 708, 881	50, 303, 222
Marion (coextensive with Indian- apolis Area) <sup>4</sup>	422, 666	917	51, 117	154, 110	67, 712, 913	238, 443, 585	230, 491, 039	7, 052, 546	428, 362, 004	189, 918, 419
Marshall	26, 077	38	951	2, 950	970, 056	3, 121, 425	3, 000, 512	120, 913	5, 233, 029	2, 111, 004
Martin	10, 103	13	273	610	236, 460	485, 211	466, 378	18, 838	1, 000, 353	515, 142
Miami	29, 032	48	1, 973	5, 076	2, 206, 961	4, 268, 193	4, 122, 414	145, 779	8, 592, 763	4, 324, 570
Monroe	35, 974	46	3, 229	19, 196	4, 272, 988	7, 140, 550	6, 697, 001	443, 559	17, 324, 781	10, 184, 131
Montgomery	20, 080	40	1, 277	5, 036	1, 277, 685	3, 352, 955	3, 094, 893	258, 102	6, 436, 513	3, 083, 518
Morgan	19, 424	32	732	3, 090	748, 174	1, 931, 498	1, 776, 904	154, 594	3, 856, 850	1, 925, 352
Newton	9, 841	9	39	103	41, 621	522, 899	517, 122	5, 747	3, 733, 434	210, 565
Noble	22, 404	42	980	2, 918	1, 205, 821	2, 695, 838	2, 613, 187	82, 651	7, 145, 808	4, 449, 970
Ohio	3, 747	6	95	365	61, 593	107, 506	103, 940	3, 566	215, 795	108, 289
Orange	17, 459	20	340	2, 285	300, 082	1, 021, 230	987, 936	33, 295	1, 866, 547	845, 817
Owen	11, 351	9	84	380	79, 988	72, 734	71, 254	1, 480	195, 952	123, 218
Park	16, 561	17	457	2, 275	499, 165	492, 741	306, 587	186, 164	1, 278, 335	785, 594
Perry	16, 625	27	1, 474	5, 029	1, 211, 791	2, 424, 564	2, 304, 601	119, 963	4, 968, 131	2, 543, 597
Pike	16, 361	12	47	321	39, 047	103, 099	96, 813	6, 286	211, 382	108, 233
Porter	22, 821	32	767	2, 307	993, 314	1, 979, 102	1, 888, 772	90, 330	4, 710, 165	2, 731, 063
Posey	17, 853	18	338	4, 951	376, 536	2, 761, 178	2, 673, 884	87, 294	3, 857, 532	1, 096, 354
Pulaski	11, 195	14	198	419	151, 195	574, 600	564, 122	10, 478	1, 278, 802	398, 202
Putnam	20, 448	21	587	14, 575	732, 801	1, 843, 653	1, 291, 404	552, 159	3, 984, 089	2, 140, 436
Randolph	24, 859	37	1, 143	2, 028	1, 197, 789	2, 968, 065	2, 731, 267	236, 798	5, 799, 864	2, 831, 799
Ripley	18, 078	38	967	3, 354	1, 017, 288	2, 338, 067	2, 278, 982	59, 085	4, 708, 188	2, 370, 121
Rush	19, 412	37	823	5, 525	900, 299	2, 769, 684	2, 598, 823	170, 856	4, 514, 118	1, 744, 434
St. Joseph	160, 033	236	31, 400	73, 652	43, 690, 795	93, 150, 654	90, 047, 891	3, 102, 163	191, 530, 370	98, 430, 316
Shelby	20, 552	53	2, 146	7, 245	1, 960, 406	4, 586, 592	4, 403, 785	182, 807	9, 409, 885	4, 823, 293

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) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties in Indiana</i> <sup>3</sup> —Continued										
Spencer.....	16,713	18	241	1,884	\$212,011	\$808,359	\$827,022	\$41,337	\$1,377,557	\$509,198
Starke.....	10,620	11	105	108	90,887	176,936	169,297	7,639	409,975	233,039
Steuben.....	13,389	20	95	620	109,840	856,843	829,078	27,765	1,193,650	330,807
Sullivan.....	28,133	13	91	743	119,307	300,480	372,510	17,970	779,678	389,198
Switzerland.....	8,432	5	20	97	18,945	33,360	31,082	2,278	70,864	37,504
Tippecanoe.....	47,535	57	2,852	10,128	3,692,177	8,904,011	8,344,180	559,831	18,030,061	9,120,050
Tipton.....	15,208	25	798	2,003	862,488	1,724,391	1,659,486	64,905	3,257,160	1,532,760
Union.....	5,830	10	37	382	34,693	183,410	175,999	7,411	344,563	161,153
Vanderburg <sup>4</sup> .....	113,320	223	15,917	47,962	17,780,260	52,614,338	51,294,678	1,319,660	99,040,166	47,025,828
Vermillion.....	23,238	23	573	2,778	636,343	856,270	754,646	101,624	1,863,325	1,007,055
Vigo.....	68,861	142	6,985	35,177	8,090,706	27,280,182	24,524,485	2,755,697	48,809,567	21,529,385
Wabash.....	25,170	47	1,584	9,861	1,078,128	5,062,662	4,754,391	308,271	9,280,233	4,217,571
Warrick.....	18,230	20	221	767	126,963	525,790	515,150	10,640	961,435	435,045
Washington.....	16,285	20	603	1,415	595,590	1,747,703	1,704,891	42,812	3,573,507	1,825,804
Wayne.....	54,809	98	6,765	17,912	8,203,808	17,014,550	16,361,671	652,879	37,384,128	20,360,578
Wells.....	18,411	20	353	1,417	339,075	1,067,607	1,026,830	40,777	1,878,810	811,203
White.....	15,831	21	259	849	199,231	979,439	943,408	36,031	1,480,285	606,846
Whitley.....	16,931	26	603	1,839	653,510	2,168,904	2,116,390	52,514	3,887,345	1,718,441
All other counties (Brown, De Kalb, Scott, and Warren)	45,910	49	1,985	4,029	2,196,906	23,377,002	23,192,013	184,989	33,913,140	10,530,147
<i>Cities in Indiana having 10,000 inhabitants or more</i> <sup>5</sup>										
Anderson.....	30,804	90	12,895	42,325	15,053,908	34,527,392	33,385,037	1,142,355	85,995,631	51,468,239
Bardonia.....	13,208	22	2,218	10,250	3,540,312	3,039,823	3,298,800	341,023	12,633,201	8,993,378
Bloomington.....	18,227	26	2,190	11,073	2,579,825	5,125,495	4,877,070	248,425	10,857,771	5,732,276
Cannonsville.....	12,735	32	2,870	7,838	3,682,440	6,723,356	6,426,064	297,292	14,104,094	7,380,738
Crawfordsville.....	10,355	34	1,101	3,869	1,099,364	3,174,491	2,998,655	175,836	6,016,286	2,841,795
East Chicago.....	54,784	76	12,409	122,201	22,115,540	132,907,801	121,923,196	10,984,605	213,987,668	81,070,807
Elkhart.....	32,949	88	5,854	16,100	8,263,113	11,594,985	10,984,173	610,812	31,437,931	10,842,995
Elwood.....	10,685	20	1,933	10,599	2,453,373	6,663,970	6,177,043	486,927	12,106,231	5,442,261
Evansville <sup>6</sup> .....	102,249	212	13,981	42,504	14,858,892	49,233,290	48,087,134	1,146,156	90,866,491	41,633,192
Fort Wayne.....	114,940	180	21,311	64,409	29,849,868	60,010,799	57,559,466	2,451,333	121,567,104	61,556,395
Frankfort.....	12,106	30	931	3,462	1,111,179	4,137,376	3,990,618	146,758	6,294,160	2,156,790
Goshen.....	10,397	48	1,800	6,024	1,098,070	4,370,149	4,691,890	178,259	9,077,017	4,206,868
Hammond.....	64,560	85	6,817	44,386	10,640,318	44,607,933	43,047,043	1,560,790	20,859,589	20,859,750
Huntington.....	13,420	40	1,840	4,820	2,078,748	4,622,844	4,406,610	156,228	10,331,075	5,705,231
Indianapolis <sup>7</sup> .....	364,161	897	47,603	140,464	62,331,906	227,894,007	220,455,626	7,438,381	408,335,696	180,441,689
Jeffersonville.....	11,946	20	910	4,712	1,295,849	2,438,571	2,302,970	135,601	4,890,403	2,451,832
Kokomo.....	32,843	73	6,304	55,237	8,223,103	15,751,055	13,445,518	2,305,537	34,454,210	18,703,155
La Fayette.....	26,240	50	1,007	6,218	2,022,094	6,111,759	5,670,437	435,322	12,276,960	6,165,267
La Porte.....	15,755	53	3,033	7,432	4,017,866	7,360,619	6,994,929	365,690	18,820,071	11,460,052
Logansport.....	18,508	46	1,062	3,360	1,317,180	3,301,222	3,218,820	82,393	6,565,365	3,264,143
Marion.....	24,496	79	4,833	13,089	4,920,375	20,158,730	19,594,747	653,983	35,209,425	15,050,695
Michigan City.....	26,735	42	3,951	22,651	6,068,985	23,493,581	23,010,080	483,501	37,042,285	13,548,704
Mishawaka.....	28,630	30	5,595	16,820	7,477,658	10,523,453	9,980,099	537,354	27,640,080	17,116,627
Muncie.....	46,548	105	10,269	51,166	13,456,011	30,930,891	28,960,040	1,979,851	65,751,613	34,811,722
New Albany.....	25,819	62	2,705	10,517	2,665,168	6,958,371	6,084,433	273,838	12,002,530	5,044,150
New Castle.....	14,027	26	3,061	14,941	3,783,043	6,980,113	6,411,371	574,747	15,345,987	8,359,869
Peru.....	12,730	34	1,139	2,702	1,133,741	2,640,694	2,558,265	88,429	5,104,135	2,547,441
Richmond.....	32,493	78	5,431	14,695	6,933,095	14,362,418	13,833,132	529,236	30,419,970	10,057,552
Shelbyville.....	10,618	38	1,365	5,390	1,350,271	2,776,632	2,637,145	139,484	5,877,362	3,100,730
South Bend.....	104,193	193	25,720	58,483	36,116,226	82,420,915	79,873,331	2,547,584	163,378,462	80,957,547
Terre Haute.....	62,810	116	3,224	22,981	3,800,404	13,443,786	17,713,093	720,793	80,337,473	11,888,087
Vincennes.....	17,564	42	997	3,667	884,736	4,523,637	4,080,072	143,615	7,500,865	2,671,178

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

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

<sup>3</sup> The Chicago Industrial Area comprises Cook, Du Page, Kane, Lake, and Will Counties, Ill., and Lake County, Ind.

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

<sup>5</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately.

<sup>6</sup> For statistics by industries for this county, see Table 13.

<sup>7</sup> Not including Gary and Whiting, 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 in order to avoid disclosing approximations of the data for individual establishments.

<sup>8</sup> 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 <sup>1</sup>	362,453	298,668	63,785	2,565	2,463	102	2,391	2,175	216	240,799	29,144	11,655	314,698	262,886	51,812
1919 <sup>1,2</sup>	330,145	276,294	53,851	6,768	6,506	262	4,015	3,848	167	41,782	30,135	11,647	277,580	235,805	41,775
1914 <sup>3</sup>	233,270	201,481	31,789	7,229	6,941	288	3,072	2,985	87	25,466	19,819	5,647	197,503	171,736	25,767
1909 <sup>4</sup>	218,263	190,684	27,579	7,674	7,425	249	2,621	2,577	44	20,984	16,984	4,000	186,984	163,698	23,286

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any year between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 197; male, 187; female, 10. Other salaried officers and employees—total, 1,613; male, 918; female, 695. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.

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

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

CENSUS YEAR	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
1929 <sup>1</sup>	314,698	296,740	305,424	316,351	318,875	322,256	324,378	322,986	325,728	334,493	326,907	299,224	<b>283,010</b>	84.6
1919 <sup>1</sup>	277,580	266,959	284,261	<b>261,725</b>	282,973	267,312	272,593	273,232	285,726	294,892	288,486	293,484	294,317	88.8
1914 <sup>1</sup>	197,503	196,936	198,650	203,312	205,317	203,442	203,167	199,301	201,206	208,040	195,460	180,266	<b>176,959</b>	85.9
1909 <sup>1</sup>	186,984	<i>172,475</i>	177,371	181,151	182,641	182,228	183,107	175,838	188,311	188,293	201,481	199,037	200,015	85.6

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	5,091	314,698	45 and over but under 48	250	12,624
Not reported	454	1,378	48	593	64,048
Under 40	115	1,350	Over 48 but under 54	1,147	122,797
40	94	9,170	54	424	15,939
Over 40 but under 44	20	235	Over 54 but under 60	659	53,468
44 and over but under 45	593	14,047	60 and over	832	19,142

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

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

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments	5,091	7,916	7,909	314,698	277,580	186,984	51 to 100	376	378	332	27,014	27,240	23,846
No wage earners	118	858	692				101 to 250	848	831	231	53,546	51,531	36,520
1 to 5	2,064	4,115	4,421	5,997	8,745	9,840	251 to 500	122	110	68	42,180	38,380	23,072
6 to 20	1,298	1,381	1,545	14,362	15,438	16,841	501 to 1,000	62	51	40	41,249	36,666	27,242
21 to 50	680	653	624	22,147	21,353	20,588	1,001 to 2,500	32	30	16	46,594	78,221	28,136
							2,501 and over	11					

TABLE 7.—ESTABLISHMENTS CLASSIFIED AS TO SIZE BY VALUE OF PRODUCTS: 1929, 1919, AND 1909  
[The figures for 1919 include data for the "Automobile repairing" industry, which was not canvassed in either the 1929 or the 1909 census of manufactures]

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
	All establishments.....	5,091	7,916	7,969	314,698	277,580	186,084	\$2,539,893,849	\$1,898,753,887	\$579,075,046	\$1,136,462,692	\$723,802,819
Less than \$5,000.....	( <sup>2</sup> )	1,964	3,086	( <sup>2</sup> )	1,520	4,335	( <sup>2</sup> )	5,008,992	7,339,368	( <sup>2</sup> )	3,077,614	4,513,557
\$5,000 to \$19,999.....	1,495	2,346	2,400	4,067	6,419	11,806	17,209,471	25,007,804	24,495,478	10,423,931	13,137,505	13,033,825
\$20,000 to \$99,999.....	1,778	1,963	1,627	16,412	20,425	30,944	85,928,481	91,904,578	73,582,168	48,000,459	41,922,190	33,797,243
\$20,000 to \$49,999.....	1,051	( <sup>3</sup> )	( <sup>3</sup> )	6,726	( <sup>3</sup> )	( <sup>3</sup> )	34,232,349	( <sup>3</sup> )	( <sup>3</sup> )	19,036,830	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	727	( <sup>3</sup> )	( <sup>3</sup> )	9,686	( <sup>3</sup> )	( <sup>3</sup> )	51,046,132	( <sup>3</sup> )	( <sup>3</sup> )	28,913,629	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	1,130	1,086	( <sup>3</sup> )	50,428	53,434	( <sup>3</sup> )	265,498,893	245,150,178	( <sup>3</sup> )	137,672,656	111,847,257	( <sup>3</sup> )
\$100,000 to \$249,999.....	606	( <sup>3</sup> )	( <sup>3</sup> )	20,538	( <sup>3</sup> )	( <sup>3</sup> )	109,475,877	( <sup>3</sup> )	( <sup>3</sup> )	58,372,596	( <sup>3</sup> )	( <sup>3</sup> )
\$250,000 to \$499,999.....	434	( <sup>3</sup> )	764	29,890	( <sup>3</sup> )	83,346	156,022,986	( <sup>3</sup> )	200,978,938	79,300,059	( <sup>3</sup> )	92,184,074
\$500,000 to \$999,999.....	330	255	( <sup>3</sup> )	30,202	34,373	( <sup>3</sup> )	230,270,864	174,838,472	( <sup>3</sup> )	114,054,313	77,126,780	( <sup>3</sup> )
\$1,000,000 and over.....	358	302	92	204,589	161,409	50,553	1,040,956,170	1,356,843,363	272,679,094	826,302,334	476,091,472	101,170,694
\$1,000,000 to \$249,999.....	210	( <sup>3</sup> )	( <sup>3</sup> )	49,587	( <sup>3</sup> )	( <sup>3</sup> )	319,932,730	( <sup>3</sup> )	( <sup>3</sup> )	151,868,643	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	77	( <sup>3</sup> )	( <sup>3</sup> )	35,849	( <sup>3</sup> )	( <sup>3</sup> )	265,397,555	( <sup>3</sup> )	( <sup>3</sup> )	131,033,088	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	71	( <sup>3</sup> )	( <sup>3</sup> )	119,153	( <sup>3</sup> )	( <sup>3</sup> )	1,365,665,535	( <sup>3</sup> )	( <sup>3</sup> )	643,400,603	( <sup>3</sup> )	( <sup>3</sup> )

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
	Total.....	5,091	7,916	314,698	277,580	\$2,539,893,849	\$1,898,753,887	\$1,136,402,692
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	2,950	2,063	298,806	254,627	2,448,805,641	1,774,635,258	1,002,683,421	671,500,850
Other forms of ownership or control (individual, partnership, etc.).....	2,141	4,953	15,892	22,953	91,088,208	124,118,129	43,770,271	52,301,969
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	830	( <sup>1</sup> )	182,135	( <sup>1</sup> )	1,658,594,410	( <sup>1</sup> )	694,853,824	( <sup>1</sup> )
Independent (single-unit).....	4,261	( <sup>1</sup> )	132,563	( <sup>1</sup> )	881,299,439	( <sup>1</sup> )	441,608,868	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

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

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS, DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING			
	Aggregate horse-power	Total horse-power of prime movers	Prime movers						Electric motors driven by purchased energy						
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horse-power	
			Number	Horse-power	Number	Horse-power	Number	Horse-power	Number	Horse-power					
The State:															
1929.....	1,858,785	882,248	2,000	255,126	300	457,346	250	163,456	58	6,320	107,862	970,487	31,403	880,156	
1927.....	1,602,113	850,368	2,084	267,725	296	411,331	349	104,329	90	6,983	77,271	751,745	32,051	822,553	
1925.....	1,420,989	775,091	2,399	311,718	209	292,361	339	103,210	132	7,802	62,590	645,808	32,742	633,770	
1919.....	1,094,568	720,879	3,402	367,321	207	154,125	1,003	189,271	158	10,162	36,392	378,680	16,581	279,065	
1914.....	707,982	507,100	4,463	430,504	( <sup>3</sup> )	( <sup>2</sup> )	1,132	66,691	182	9,905	10,935	200,882	10,554	249,476	
Industrial Areas															
Chicago Area, total.....	2,729,674	1,292,677	1,974	493,594	430	542,442	307	252,647	48	3,994	167,365	1,436,997	40,405	1,116,899	
Portion in Indiana (Lake County).....	873,749	540,680	247	47,352	115	336,853	94	150,475	-----	-----	18,493	333,060	11,357	651,036	
Portion in Illinois (Cook, Du Page, Kane, Lake, and Will Counties).....	1,855,925	751,997	1,727	446,242	315	205,589	213	96,172	48	3,994	153,872	1,103,928	38,048	465,803	
Indianapolis Area (coextensive with Marion County).....	154,110	36,473	165	25,237	21	10,642	7	594	-----	-----	18,173	117,637	2,217	21,527	
Counties in which aggregate horse-power exceeded \$5,000: 1929															
Allen.....	77,523	8,801	34	3,246	13	5,428	3	127	-----	-----	15,970	68,722	539	5,537	
Delaware.....	59,225	7,558	48	5,594	5	1,714	4	250	-----	-----	7,111	48,607	408	5,849	
Elkhart.....	25,457	6,781	36	3,930	2	2,066	3	135	-----	-----	3,494	18,878	363	3,574	
Howard.....	56,931	10,392	17	2,024	3	10,500	4	258	-----	-----	1,830	37,549	521	12,174	
Lake.....	873,749	540,680	247	47,352	115	336,853	94	150,475	-----	-----	13,493	333,060	11,357	651,036	
La Porte.....	30,933	9,198	20	4,814	6	3,825	13	559	-----	-----	2,430	21,735	835	7,165	
Lawrence.....	26,144	4,832	17	4,662	2	170	-----	-----	-----	-----	899	21,312	126	4,243	
Madison.....	56,010	27,066	82	21,631	8	5,120	4	415	-----	-----	7,955	23,944	814	9,072	
Marion.....	154,110	36,473	165	25,237	21	10,642	7	594	-----	-----	18,173	117,637	2,217	21,527	
St. Joseph.....	73,652	47,433	48	9,045	7	33,484	2	44	-----	-----	4,532	26,219	4,883	63,448	
Vanderburg.....	47,932	19,472	89	12,929	7	3,377	5	166	-----	-----	3,509	31,490	1,501	12,483	
Vigo.....	36,177	22,123	85	14,733	17	7,354	1	( <sup>4</sup> )	-----	-----	2	56	1,718	9,947	

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

CENSUS OF MANUFACTURES: 1929

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

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

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State.....	1,858,735	882,248	976,487	880,156	Madison.....	56,010	27,066	28,944	0,672
Adams.....	4,813	2,096	2,717	478	Marion.....	154,110	36,473	117,637	21,527
Allen.....	77,523	8,801	68,722	5,537	Marshall.....	2,950	833	2,117	280
Bartholomew.....	5,330	1,155	4,175	235	Martin.....	610	320	290	243
Benton.....	246	83	163	.....	Miami.....	5,076	1,387	3,689	.....
Blackford.....	7,352	4,779	2,573	4,119	Monroe.....	19,196	1,920	17,276	2,418
Boone.....	2,032	1,098	934	142	Montgomery.....	5,036	754	4,282	83
Carroll.....	798	472	326	200	Morgan.....	3,090	1,344	1,746	61
Cass.....	5,997	1,630	4,367	1,242	Newton.....	103	33	70	.....
Clark.....	15,244	9,416	5,828	13,240	Noble.....	2,918	1,297	1,621	1,273
Clay.....	6,813	2,535	4,278	466	Ohio.....	365	195	170	314
Clinton.....	5,079	372	4,707	.....	Orange.....	2,285	1,011	374	980
Crawford.....	731	.....	49	62	Owen.....	380	332	48	.....
Daviess.....	2,798	900	1,898	40	Parke.....	2,275	2,152	123	50
Dearborn.....	6,414	4,430	1,984	2,104	Perry.....	5,020	3,534	1,495	1,049
Decatur.....	1,565	945	620	.....	Pike.....	321	140	181	.....
Delaware.....	56,225	7,558	48,667	5,349	Porter.....	2,367	122	2,245	(?)
Dubois.....	5,231	2,518	2,713	673	Posey.....	4,951	4,790	161	1,182
Elkhart.....	25,457	6,781	18,676	3,574	Pulaski.....	419	36	383	.....
Fayette.....	8,030	2,008	6,022	3,234	Putnam.....	14,575	636	13,939	.....
Floyd.....	14,309	8,841	5,468	3,687	Randolph.....	2,923	1,061	1,867	300
Fountain.....	4,045	294	3,751	.....	Ripley.....	3,354	1,512	1,842	1,120
Franklin.....	1,297	1,221	76	375	Rush.....	5,525	4,050	1,475	2,845
Fulton.....	1,556	850	1,206	.....	St. Joseph.....	73,652	47,433	26,219	63,448
Grant.....	5,332	1,446	3,936	850	Shelby.....	2,745	2,916	4,329	1,195
Greene.....	20,412	4,849	15,563	639	Spencer.....	1,384	1,157	227	288
Hamilton.....	1,430	866	564	.....	Starke.....	108	21	87	.....
Hamilton.....	6,997	5,685	1,312	2,435	Stenben.....	620	189	431	60
Hancock.....	951	613	338	90	Sullivan.....	743	551	192	680
Harrison.....	3,285	701	2,584	425	Switzerland.....	97	88	0	.....
Hendricks.....	716	450	266	.....	Tiptecanoe.....	10,128	1,418	8,710	110
Henry.....	20,246	6,455	13,791	3,973	Tipton.....	2,003	818	1,185	.....
Howard.....	56,931	19,382	37,549	12,174	Union.....	382	336	46	.....
Huntington.....	6,297	1,885	4,382	657	Vanderburg.....	47,962	16,472	31,490	12,483
Jackson.....	5,281	3,028	2,253	679	Vermillion.....	2,778	1,470	1,308	347
Jasper.....	204	27	177	.....	Vigo.....	35,177	22,123	13,054	9,047
Jay.....	5,102	1,395	3,707	114	Wabash.....	9,861	3,509	6,352	(?)
Jefferson.....	2,894	1,964	930	.....	Warrick.....	787	224	543	.....
Jennings.....	1,043	475	568	300	Washington.....	1,415	866	549	200
Johnson.....	4,199	682	3,517	513	Wayne.....	17,912	4,801	13,111	13,336
Knox.....	5,599	3,912	1,687	1,206	Wells.....	1,417	192	1,225	.....
Kosciusko.....	2,733	681	2,052	282	White.....	849	441	408	.....
Lagrange.....	5,111	4,987	124	2,550	Whitley.....	1,839	847	992	501
Lake.....	873,740	540,680	333,069	651,039	All other counties (Brown, De Kalb, Scott, and Warren).....	4,029	1,320	2,709	85
Lake.....	30,933	9,198	21,735	7,155					
La Porte.....	30,933	9,198	21,735	7,155					
Lawrence.....	26,144	4,832	21,312	4,243					

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

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.).....	10,841,908	\$67,664,637	16,740,185	17,120,843	13,612,411	10,203,600	6,375,641
Anthracite (tons, 2,240 lbs.).....	105,178	554,294	(?)	85,724	31,099	16,761	16,800
Bituminous (tons, 2,000 lbs.).....	10,724,109	67,110,343	(?)	17,024,832	13,577,580	10,274,828	6,356,825
Coke (tons, 2,000 lbs.).....	4,420,219	22,095,619	(?)	(?)	2,683,061	1,172,542	930,397
Fuel oils, including crude oils and gas oils (gallons) <sup>3</sup> .....	308,154,975	10,042,998	(?)	(?)	114,307,032	32,437,272	31,214,190
Gasoline and kerosene (gallons) <sup>4</sup> .....	999,490	155,608	(?)	(?)	2,907,450	1,489,430	1,247,053
Gas, natural (M cu. ft.).....	3,161,102	1,206,405	(?)	(?)	(?)	(?)	(?)
Gas, manufactured (M cu. ft.).....	204,679,000	12,530,978	(?)	(?)	(?)	(?)	(?)
Other fuels.....	.....	2,240,001	(?)	(?)	(?)	(?)	(?)
Electric energy purchased (kilowatt-hours).....	1,063,583,055	15,258,635	(?)	(?)	(?)	(?)	(?)
Total cost of fuel and purchased energy.....	.....	\$131,904,881	Cost \$126,307,053	Cost (?)	Cost \$90,194,193	Cost \$32,694,771	Cost \$17,376,845

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.  
<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.  
<sup>3</sup> Not tabulated separately.  
<sup>4</sup> Revised.  
<sup>5</sup> No data.  
<sup>6</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.  
<sup>7</sup> Data incomplete.  
<sup>8</sup> The difference between this total and the corresponding one given in Tables 1, 2, and 12 is due to the inclusion here of the cost of fuel produced and consumed in the same establishments.  
<sup>9</sup> Not reported separately.

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

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	5,091	45,190	314,698	882,248	976,487	115,415,151	418,771,109	1,280,124,322	123,306,835	2,639,893,840	1,136,462,692
Agricultural implements.....	18	549	3,670	4,492	3,553	1,335,303	5,074,203	7,163,509	342,936	22,766,953	15,260,508
Awning, tents, sails, and canvas covers.....	21	64	205		125	180,432	237,951	706,120	8,231	1,388,808	674,457
Baskets and rattan and willow ware, not including furniture.....	14	60	957	1,345	446	159,430	626,849	501,289	23,582	1,962,578	1,437,707
Belt, leather.....	6	33	66		191	53,553	69,780	343,993	4,489	508,045	249,563
Beverages.....	132	176	579	450	1,767	402,694	769,722	1,814,371	109,644	4,766,998	2,842,983
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	8	106	1,012	612	4,240	312,232	1,441,813	3,644,398	220,679	7,470,012	3,604,935
Bookbinding and blank-book making.....	13	26	110		139	51,502	147,858	156,035	5,103	469,968	308,830
Boots and shoes, other than rubber.....	7	156	1,591	760	511	306,055	1,332,527	4,084,154	54,582	7,658,292	3,519,556
Boxes, paper, not elsewhere classified.....	26	406	2,198	450	2,988	810,060	2,305,769	8,478,212	143,021	14,491,474	5,870,241
Boxes, wooden, except cigar boxes.....	23	63	614	923	1,391	143,700	583,376	1,613,432	28,579	2,853,985	1,211,974
Bread and other bakery products.....	496	501	5,055	946	15,473	1,269,778	6,343,609	17,035,720	781,483	34,502,346	10,685,148
Brooms.....	14	48	314	191	207	94,564	251,315	591,007	13,362	1,255,565	651,136
Brushes, other than rubber.....	5	31	145		198	119,978	132,110	356,224	4,730	804,606	503,111
Butter.....	98	301	875	1,274	4,999	513,685	1,049,465	22,438,337	239,914	26,982,733	4,309,482
Buttons.....	5	7	191		76	10,528	141,538	77,679	3,098	347,478	260,860
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	156	529	4,877	8,810	6,284	785,153	3,241,397	22,948,559	369,025	33,708,690	10,391,106
Car and general construction and repairs, electric-railroad repair shops.....	25	81	983		1,246	151,310	1,209,434	770,065	31,045	2,168,531	1,367,421
Car and general construction and repairs, steam-railroad repair shops.....	92	1,350	15,001	8,767	23,867	3,487,906	25,146,021	20,236,226	1,138,466	50,009,319	28,634,627
Carriage, wagon, sleigh, and sled materials.....	4	6	48	330	297	18,300	37,818	42,953	4,257	150,065	103,455
Carriages and sleds, children's.....	6	51	424	300	1,006	125,796	440,400	791,456	34,793	1,620,089	794,470
Carriages, wagons, sleighs, and sleds.....	7	36	252	475	309	78,847	270,870	710,126	10,014	1,305,143	585,003
Cars, electric and steam railroad, not built in railroad repair shops.....	9	805	5,438	11,558	29,686	1,663,210	9,125,127	33,301,620	733,919	55,211,532	16,175,993
Caskets, coffins, burial cases, and other morticians' goods.....	22	119	659	750	1,047	360,034	649,258	1,685,355	39,017	3,347,509	1,623,137
Cheese.....	22	19	80	34	432	30,707	79,001	2,002,117	22,708	2,365,789	340,969
Chemicals, not elsewhere classified.....	9	277	1,174	3,905	6,125	582,355	1,901,379	7,412,562	627,983	13,798,041	5,757,856
Cigars and cigarettes.....	31	96	3,238	600	126	346,685	1,924,500	3,928,165	20,057	8,653,304	4,705,082
Clay products (other than pottery) and non-clay refractories.....	77	437	4,985	10,105	16,269	1,121,707	5,765,872	1,876,451	2,230,173	15,947,525	11,840,901
Cleaning and polishing preparations.....	7	22	54	75	154	42,332	80,734	280,179	7,311	647,125	379,635
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	25	209	2,236		677	411,375	1,946,270	3,283,344	36,309	7,465,434	4,145,781
Clothing, women's, not elsewhere classified.....	18	249	1,524		273	445,490	1,020,274	2,682,793	22,394	5,121,191	2,430,009
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	29	193	2,954	150	760	595,260	2,164,932	5,960,317	59,343	9,647,993	3,028,333
Coffee and spice, roasting and grinding.....	19	36	75	120	287	88,212	78,230	1,870,913	17,001	2,630,557	942,441
Coke, not including gas-house coke.....	4	160	1,601	7,795	7,016	444,891	2,745,824	775,128	37,711,636	53,291,243	14,774,580
Compressed and liquefied gases.....	9	128	97	122	2,091	251,151	156,309	677,741	90,063	1,750,879	853,045
Concrete products.....	100	118	532	279	1,780	245,946	713,912	1,161,880	59,521	3,264,175	1,052,474
Condensed and evaporated milk.....	16	36	233	1,245	1,175	73,412	256,218	6,195,839	110,516	6,271,681	1,025,282
Confectionery.....	45	201	1,139	120	1,290	403,302	902,657	2,781,359	79,703	5,248,122	2,387,060
Cooperage.....	14	12	121	360	162	15,664	152,594	572,674	12,077	858,443	278,692
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	46	104	614		970	338,529	856,193	1,616,092	31,572	3,696,810	2,048,636
Corsets and allied garments.....	5	40	463		102	81,943	427,950	1,097,584	9,055	2,756,898	1,050,279
Cotton goods.....	3	24	698	3,213		82,991	502,832	1,506,726	47,155	2,351,528	797,647
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.....	6	35	199		214	82,085	162,014	421,702	8,480	918,409	488,227
Electrical machinery, apparatus, and supplies.....	57	2,855	20,787	6,305	48,508	6,522,986	25,782,978	55,463,432	1,402,798	133,352,540	76,486,321
Electroplating.....	19	37	283		1,069	143,510	408,336	122,646	40,815	1,013,758	530,797
Engines, turbines, tractors, and water wheels.....	7	160	830	2,436	299	291,457	1,137,436	1,488,866	136,383	3,514,627	1,889,375
Engraving, steel and copperplate, and plate printing.....	9	31	154		93	51,884	141,206	187,167	3,833	520,196	335,156
Fancy and miscellaneous articles, not elsewhere classified.....	5	11	40		121	25,732	84,847	32,928	2,356	143,633	108,349
Feeds, prepared, for animals and fowls.....	22	189	291	545	4,783	415,296	336,637	10,740,172	92,517	13,865,049	3,022,300
Fertilizers.....	11	80	259	45	2,438	201,297	273,214	3,328,197	23,891	4,092,676	1,640,618
Flavoring extracts and flavoring sirups.....	6	28	49		35	44,407	77,109	445,598	1,644	1,209,869	762,627
Flour and other grain-mill products.....	165	332	963	11,787	11,715	760,742	1,208,917	24,748,024	320,921	30,116,049	5,047,104
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	6	111	1,395	75	8,799	391,461	2,512,556	5,845,591	714,527	11,499,923	4,939,805
Foundry and machine-shop products, not elsewhere classified.....	392	4,272	26,222	9,876	77,880	12,668,451	36,878,323	50,973,443	3,469,299	153,406,243	93,593,601
Fur goods.....	10	31	70		19	85,888	88,685	247,516	3,598	543,144	292,030
Furnishing goods, men's, not elsewhere classified.....	8	121	1,778	800	217	213,860	1,285,332	3,218,483	30,691	5,829,397	2,580,223
Furniture, including store and office fixtures.....	199	2,009	18,700	27,286	37,049	5,790,993	20,344,735	40,042,063	1,125,420	83,495,716	42,328,233
Gas and electric fixtures; lamps, lanterns, and reflectors.....	14	338	1,825	180	4,148	774,576	2,088,055	4,118,687	156,921	10,826,411	6,550,893
Gas machines, gas meters, and water and other liquid meters.....	4	27	108		176	67,500	120,102	257,494	4,564	707,225	445,167
Gas, manufactured, illuminating and heating.....	36	498	1,306	8,461	8,461	761,586	1,714,179	2,582,485	4,775,479	16,060,539	9,302,575
Glass.....	26	689	7,315	23,463	16,738	2,000,823	8,971,125	9,872,455	3,190,023	34,490,483	21,428,005
Glass products (except mirrors) made from purchased glass.....	10	22	176		240	52,184	207,538	421,600	15,635	966,952	529,717
Gloves and mittens, cloth or leather and leather combined, made from purchased fabrics.....	23	132	2,684		991	298,234	1,530,601	5,730,328	42,177	7,807,397	2,034,892
Grease and tallow, not including lubricating greases.....	24	18	104	601	1,108	51,226	130,811	236,072	40,461	632,954	356,421
Hardware not elsewhere classified.....	18	128	836	145	1,407	358,163	969,885	2,401,494	57,108	4,748,781	2,260,179

See footnotes at end of this table, p. 169.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Hats and caps, except felt and straw, men's.....	5	10	65	-----	16	Dollars 38,344	Dollars 75,759	Dollars 161,052	Dollars 1,692	Dollars 368,256	Dollars 205,512
House-furnishing goods, not elsewhere classified.....	9	26	88	-----	66	22,662	51,849	158,386	2,969	351,031	189,676
Ice cream.....	120	219	641	708	6,715	489,189	910,117	3,981,063	269,460	7,902,662	3,702,169
Ice, manufactured.....	121	276	1,016	11,659	11,593	597,263	1,345,538	255,127	785,093	5,270,245	4,280,025
Iron and steel: Blast furnaces.....	3	136	1,674	-----	-----	414,902	2,609,147	36,297,828	19,942,758	74,180,193	17,940,107
Iron and steel: Steel works and rolling mills.....	20	2,520	29,169	472,886	245,065	6,697,540	52,844,790	169,407,524	21,750,691	334,127,376	142,969,161
Jewelry.....	11	48	178	-----	99	186,547	270,066	392,848	5,540	1,334,357	935,999
Knit goods.....	11	553	5,953	-----	3,082	1,143,870	7,486,854	13,567,505	197,848	32,163,951	18,385,568
Leather goods, not elsewhere classified.....	4	10	40	-----	33	20,422	29,593	53,371	3,125	167,029	100,533
Leather: Tanned, curried, and finished.....	6	33	262	360	734	124,836	284,476	1,979,484	40,355	3,313,287	1,293,448
Lime.....	7	18	384	220	3,512	46,460	355,145	112,437	183,021	904,078	608,620
Lumber and timber products, not elsewhere classified.....	207	316	3,254	12,334	9,287	933,988	3,273,144	7,763,708	186,142	16,929,622	8,970,777
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	23	61	335	-----	479	133,065	595,470	190,685	20,348	1,815,872	1,104,830
Machine tools.....	14	469	1,245	-----	4,321	994,083	1,935,605	2,239,730	105,284	7,614,344	5,260,330
Marble, granite, slate, and other stone products.....	59	891	3,342	825	32,944	2,917,973	5,839,072	4,309,814	596,536	20,603,933	15,697,583
Mattresses and bed springs, not elsewhere classified.....	16	54	386	90	801	168,381	438,488	1,308,981	31,488	2,363,590	1,028,121
Meat packing, wholesale.....	57	964	4,976	9,023	13,230	1,809,384	5,756,224	84,880,930	801,108	99,906,829	14,224,701
Millinery.....	3	23	189	-----	25	61,538	117,026	251,880	3,581	487,972	232,511
Mirrors, framed and unframed.....	11	39	414	100	611	114,532	401,920	1,097,507	21,811	2,212,816	1,093,498
Models and patterns, not including paper patterns.....	25	30	160	-----	427	70,894	299,272	104,309	11,296	668,597	552,902
Motor-vehicle bodies and motor-vehicle parts.....	67	1,201	13,653	4,620	46,887	3,585,771	19,199,892	44,106,536	1,505,846	90,128,727	44,516,345
Motor vehicles, not including motorcycles.....	15	2,220	20,573	30,694	16,688	7,218,763	30,642,398	129,538,776	1,836,616	208,247,058	76,871,806
Mucilage, paste, and other adhesives, except glue and rubber cement.....	4	6	7	-----	880	1,970	7,046	45,628	4,186	71,968	22,154
Musical instruments and parts and materials, not elsewhere classified.....	11	346	1,156	-----	1,600	714,678	1,672,405	1,066,950	70,229	5,107,888	3,970,709
Musical instruments: Pianos.....	5	76	593	1,105	764	191,888	736,361	1,132,219	53,112	2,414,774	1,229,443
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	4	17	153	200	333	32,037	141,011	537,887	18,566	923,367	366,914
Nonferrous-metal alloys and products, not including aluminum products.....	34	166	1,056	-----	5,575	476,730	1,414,123	4,752,848	234,263	8,341,305	3,354,194
Paints and varnishes.....	27	394	572	10	4,851	920,685	771,242	6,988,629	194,246	11,089,829	4,506,954
Paper.....	24	192	2,130	44,892	4,910	2,722,209	2,722,209	9,703,371	1,423,082	18,120,354	6,993,301
Paper goods, not elsewhere classified.....	14	61	593	16	977	135,064	356,116	1,727,924	27,260	2,783,534	1,028,350
Patent or proprietary medicines and compounds.....	45	360	450	100	787	990,568	507,762	1,797,180	29,931	7,204,889	5,377,778
Perfumes, cosmetics, and other toilet preparations.....	13	78	233	-----	120	239,522	222,154	562,571	8,537	1,748,710	1,187,602
Photo-engraving, not done in printing establishments.....	11	96	282	-----	266	320,782	664,644	197,487	14,735	1,497,208	1,284,986
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	148	501	2,598	3,640	15,100	1,546,811	3,376,446	10,468,934	236,856	19,843,605	9,147,815
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	8	64	586	766	636	200,969	621,968	840,194	97,511	2,083,472	1,145,767
Pottery, including porcelain ware.....	7	87	926	275	1,076	226,612	1,067,265	764,336	261,998	3,744,368	2,728,034
Poultry killing, dressing, and packing, wholesale.....	22	74	384	5	713	133,396	362,370	5,052,544	36,065	6,081,492	992,883
Printing and publishing, book and job.....	282	1,180	3,928	541	4,832	2,852,096	5,476,122	5,841,401	207,823	20,781,776	14,732,562
Printing and publishing, newspaper and periodical.....	331	3,157	3,410	163	7,360	5,821,763	5,623,323	0,391,302	362,180	32,578,912	26,825,421
Pumps (hand and power) and pumping equipment.....	20	785	2,276	1,255	9,300	2,022,008	3,080,884	6,331,840	185,382	16,538,387	10,021,165
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	5	190	571	710	491	419,895	782,950	1,709,678	43,569	5,311,868	3,498,621
Rubber goods other than tires, inner tubes, and boots and shoes.....	11	130	1,333	675	10,959	394,262	1,526,190	2,477,294	366,380	5,823,612	2,979,938
Saddlery and harness.....	7	32	130	-----	195	46,114	100,881	390,878	5,132	653,662	267,652
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	10	17	66	-----	549	56,217	87,600	1,050,869	15,514	1,377,871	311,488
Screw-machine products and wood screws.....	11	28	351	-----	868	65,623	416,700	461,084	47,524	1,441,643	933,035
Ship and boat building, steel and wooden, including repair work.....	7	30	191	368	265	80,997	254,166	341,111	10,744	673,293	321,438
Shirts.....	14	66	2,926	250	533	195,726	1,951,526	6,090,139	63,606	10,734,050	4,506,255
Signs and advertising novelties.....	25	109	316	-----	247	269,819	353,730	463,370	42,718	1,824,131	1,318,043
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	4	61	177	-----	1,017	210,267	265,982	6,237,838	91,966	7,574,298	1,244,494
Sporting and athletic goods, not including firearms or ammunition.....	5	51	204	-----	106	121,030	202,547	261,248	9,371	793,015	522,396
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	5	52	222	-----	1,565	128,164	286,495	627,473	63,180	1,556,722	866,069
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	19	187	1,867	1,215	2,334	537,057	2,130,467	3,079,294	265,448	7,831,123	4,486,381
Stationary goods, not elsewhere classified.....	7	41	342	-----	313	139,214	819,692	1,225,863	12,877	2,213,500	974,770
Steam fittings and steam and hot-water heating apparatus.....	10	309	1,580	50	3,898	798,330	2,113,086	2,485,953	203,979	8,240,797	5,550,865
Stereotyping and electrotyping, not done in printing establishments.....	7	24	123	-----	405	78,201	227,099	78,679	12,905	555,590	463,916
Stoves and ranges (other than electric) and warm-air furnaces.....	23	258	1,422	350	4,187	720,420	1,963,948	3,128,254	143,374	8,070,267	4,798,639
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	39	615	2,136	905	16,748	1,378,373	3,604,073	10,218,915	228,194	19,142,291	8,695,182
Tobacco: Chewing and smoking, and snuff.....	9	3	24	11	16	3,400	17,980	65,957	728	178,555	111,500

See footnotes at end of this table, p. 169.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Tools, not including edge tools, machine tools, files, or saws.....	23	93	647	165	2,007	Dollars 180,868	Dollars 740,192	Dollars 1,036,685	Dollars 82,945	Dollars 2,567,580	Dollars 1,447,950
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	13	93	747	900	313	216,527	688,539	1,219,677	27,460	2,633,138	1,886,001
Trunks, suitcases, and bags.....	8	18	195	267	267	37,425	155,107	391,278	12,981	775,105	370,846
Window and door screens and weather strip.....	9	5	22	76	76	8,830	26,550	51,086	504	121,632	70,042
Window shades and fixtures.....	12	31	144	111	111	41,566	132,839	415,284	5,995	774,409	353,130
Wire, drawn from purchased bars or rods.....	4	357	4,881	1,974	10,430	467,523	6,796,040	15,392,427	681,086	31,037,566	14,904,063
Wirework, not elsewhere classified.....	18	100	868	100	1,914	364,028	925,703	2,606,365	99,999	4,888,108	2,211,724
Wood preserving.....	6	23	275	510	400	64,569	347,239	2,942,565	55,957	3,784,709	786,187
Wood turned and shaped and other wooden goods, not elsewhere classified.....	28	111	848	1,940	1,545	266,254	809,685	1,635,058	33,704	3,510,704	1,847,942
Woolen goods.....	7	62	635	1,165	722	202,157	663,321	1,054,264	75,864	3,479,841	1,449,713
Other industries.....	219	4,383	28,924	112,712	84,337	12,536,945	38,506,267	218,354,245	7,715,657	387,134,810	161,064,908

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

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

<sup>3</sup> Not including data for 1,810 employees of central administrative offices, with salaries aggregating \$4,530,276. See GENERAL EXPLANATIONS—Persons Engaged.

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

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

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

CHICAGO INDUSTRIAL AREA

[This area comprises Cook, Du Page, Kane, Lake, and Will Counties in Illinois, together with Lako County, Indiana. For statistics by industries for the area as a whole, see report for Illinois]

All industries, total.....	11,774	113,040	550,903	1,292,677	1,436,997	\$317,180,327	\$860,218,189	\$2,814,605,897	\$195,234,980	\$5,553,331,242	\$2,548,490,359
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.

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

INDIANAPOLIS INDUSTRIAL AREA

[This area is coextensive with Marion County]

All industries, total.....	917	9,862	51,117	36,473	117,637	\$25,964,751	\$67,712,913	\$230,491,030	\$7,952,546	\$423,362,004	\$189,918,419
Awnings, tents, sails, and canvas covers.....	7	28	61	8	32	57,355	80,934	166,862	3,922	346,786	175,992
Beverages.....	12	27	109	8	287	84,561	169,313	373,821	10,311	965,130	530,998
Boxes, paper, not elsewhere classified.....	7	127	616	846	846	276,002	618,829	1,743,046	31,619	3,234,065	1,459,400
Boxes, wooden, except cigar boxes.....	6	22	135	100	439	45,714	140,919	347,635	6,301	732,733	378,797
Bread and other bakery products.....	58	127	1,451	210	2,102	491,644	1,709,756	4,701,071	191,600	10,046,375	5,153,704
Butter.....	7	53	146	150	666	101,214	204,347	3,882,099	27,776	4,638,640	728,765
Car and general construction and repairs, steam-railroad repair shops.....	11	467	3,884	6,087	2,652	1,158,984	6,342,096	4,358,942	303,122	12,163,144	7,501,080
Cleaning and polishing preparations.....	7	22	54	75	154	42,332	50,734	260,179	7,311	647,125	379,635
Clothing, women's, not elsewhere classified.....	8	41	280	56	98	98,421	205,491	433,930	4,811	962,186	523,480
Coffee and spice, roasting and grinding.....	7	19	27	148	148	63,088	26,850	837,242	4,003	1,150,981	309,730
Concrete products.....	14	20	86	4	436	50,341	109,538	267,054	10,695	649,497	371,813
Condensed and evaporated milk.....	8	1	8	33	(?)	9,009	62,973	62,973	1,897	120,953	50,083
Confectionery.....	12	78	481	734	734	177,254	372,578	1,462,630	42,854	2,689,788	1,184,293
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	11	26	143	94	94	80,874	256,635	308,377	3,490	751,183	439,316
Electrical machinery, apparatus, and supplies.....	17	448	1,961	9,068	9,068	1,274,214	2,944,388	8,240,597	225,965	16,146,749	7,680,187
Electroplating.....	8	14	33	244	244	46,209	110,831	44,250	13,490	331,693	273,953
Foundry and machine-shop products, not elsewhere classified.....	76	1,405	8,016	4,210	19,629	4,130,187	11,146,440	13,715,722	915,338	44,947,898	30,316,838

See footnotes at end of this section, p. 170.



## CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>INDIANAPOLIS INDUSTRIAL AREA—Continued</b>											
Furniture, including store and office fixtures, gas and electric fixtures; lamps, lanterns, and reflectors.....	27	217	1,592	1,250	4,904	\$641,549	\$1,931,088	\$3,843,435	\$102,315	\$7,787,742	\$3,841,992
Ice cream.....	3	1	2	—	4	( <sup>c</sup> )	( <sup>d</sup> )	12,674	248	27,612	14,600
Ice, manufactured.....	12	52	151	200	2,017	129,919	289,390	1,172,836	90,948	2,157,119	893,335
Lumber and timber products, not elsewhere classified.....	13	60	337	1,910	1,437	84,352	470,982	68,068	192,748	1,444,236	1,192,520
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	8	46	460	166	2,417	259,196	549,634	1,529,524	30,702	3,889,790	2,320,540
Marble, granite, slate, and other stone products.....	5	14	75	—	90	39,647	119,865	56,647	2,342	292,033	233,044
Mattresses and bed springs, not elsewhere classified.....	8	21	97	—	780	93,321	170,181	210,445	13,109	616,041	392,487
Meat packing, wholesale.....	5	19	115	—	455	51,308	134,331	450,190	10,026	820,237	300,021
Mirrors, framed and unframed.....	11	662	3,411	5,382	8,322	1,211,942	3,760,235	57,285,931	468,903	66,453,333	8,703,499
Models and patterns, not including paper patterns.....	4	14	102	—	175	40,679	93,670	119,984	6,982	337,832	210,806
Motor-vehicle bodies and motor-vehicle parts.....	8	7	37	—	137	19,690	69,320	40,706	2,366	170,570	127,504
Motor vehicles, not including motorcycles.....	16	223	2,360	650	3,097	569,668	3,008,062	8,612,269	129,981	14,221,295	5,479,045
Nonferrous-metal alloys and products, not including aluminum products.....	4	420	3,254	—	5,894	1,916,121	4,657,477	37,611,543	285,479	56,602,370	18,705,848
Paints and varnishes.....	11	57	396	—	1,700	171,856	534,548	1,745,083	73,809	2,877,105	1,057,613
Patent or proprietary medicines and compounds.....	13	188	307	—	1,593	613,055	343,429	3,100,227	36,440	5,837,376	2,700,799
Photo-engraving, not done in printing establishments.....	14	148	128	—	164	413,313	125,409	367,304	7,107	616,767	1,242,356
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	4	65	101	—	97	220,395	300,021	139,708	6,437	896,238	750,093
Printing and publishing, book and job.....	32	127	301	420	3,331	333,396	538,300	1,139,968	52,575	2,448,292	1,255,719
Printing and publishing, newspaper and periodical.....	102	556	1,311	1	1,762	1,450,601	1,960,157	1,953,248	65,751	8,664,937	6,645,938
Screw-machine products and wood screws.....	40	940	657	—	1,773	1,657,382	1,356,913	2,418,091	57,580	10,762,050	8,285,488
Signs and advertising novelties.....	6	12	134	—	528	35,861	224,692	222,512	15,435	727,028	489,031
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	7	38	78	—	20	85,519	109,118	130,308	19,714	580,760	430,744
Stoves and ranges (other than electric) and warm-air furnaces.....	5	28	178	—	342	93,087	226,412	174,542	25,425	574,515	374,548
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	8	50	264	250	339	123,005	435,145	337,065	29,771	1,165,536	748,700
Tools, not including edge tools, machine tools, files, or saws.....	14	65	243	—	923	165,065	403,230	770,493	18,091	1,716,065	919,081
Window shades and fixtures.....	6	12	24	—	114	16,629	20,593	34,392	1,951	117,067	81,024
Wirework, not elsewhere classified.....	3	9	23	—	3	9,317	24,807	38,100	1,080	156,753	67,673
Other industries <sup>c</sup> .....	7	21	174	—	339	87,581	122,553	291,126	8,392	639,053	340,435
<b>Total.....</b>	<b>250</b>	<b>2,761</b>	<b>17,051</b>	<b>15,400</b>	<b>37,300</b>	<b>7,244,103</b>	<b>20,469,164</b>	<b>65,306,775</b>	<b>4,383,424</b>	<b>134,229,489</b>	<b>64,639,290</b>

<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.<sup>c</sup> The items for the "Cleaning and polishing preparations" industry include data for 1 establishment located outside the area, 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 area are not affected by these counterbalancing adjustments.<sup>d</sup> Withheld to avoid disclosing compensation of an individual employee; included in item for "Other industries."<sup>e</sup> Withheld to avoid disclosing compensation of individual wage earners; included in item for "Other industries."<sup>f</sup> See footnote 1.**ALLEN 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.....	209	4,169	23,306	8,801	68,722	\$3,368,332	\$32,060,378	\$67,917,215	\$2,798,000	\$140,855,093	\$70,139,878
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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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

DELAWARE COUNTY

All industries, total.....	123	1,204	10,720	7,558	48,607	\$3,554,133	\$13,903,454	\$32,105,315	\$2,223,409	\$70,581,563	\$36,192,839
Beverages.....	3	8	10		30	13,216	13,764	30,200	1,004	85,812	48,608
Bread and other bakery products.....	15	31	192		208	41,795	220,090	732,486	21,193	1,187,044	403,965
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	3	12	65		167	15,348	23,290	113,422	4,574	195,097	77,101
Confectionery.....	4	3	20		23	3,420	12,790	38,636	1,243	69,374	20,495
Foundry and machine-shop products, not elsewhere classified.....	14	128	1,191	560	5,863	302,949	1,564,244	1,612,454	222,475	4,920,182	3,085,253
Ice, manufactured.....	4	7	17	485	26	17,513	25,012	7,838	17,215	114,855	80,802
Motor-vehicle bodies and motor-vehicle parts.....	7	316	3,711	00	21,252	901,027	5,429,435	11,230,564	456,958	25,485,725	13,798,203
Nonferrous-metal alloys and products, not including aluminum products.....	3	6	33		129	23,093	42,059	129,051	6,857	252,580	116,678
Paper.....	4	18	135	2,300	1,762	35,904	150,691	658,428	161,070	1,108,786	289,288
Printing and publishing, book and job.....	6	11	65		69	18,865	75,468	82,683	4,504	297,703	210,516
Other industries.....	60	684	5,281	4,144	19,138	2,000,493	6,394,006	17,523,553	1,326,316	36,893,799	18,043,930

ELKHART COUNTY

All industries, total.....	163	1,663	8,573	6,781	18,676	\$4,048,002	\$11,436,501	\$20,078,093	\$887,983	\$47,712,375	\$26,746,290
Beverages.....	4		6		17		8,406	17,261	966	44,140	25,913
Bread and other bakery products.....	10	18	122		256	32,488	169,584	500,966	22,008	916,705	393,671
Concrete products.....	6		14		215		16,391	32,838	1,274	79,304	46,282
Electrical machinery, apparatus, and supplies.....	5	40	460		324	193,710	436,168	499,824	16,295	1,581,811	1,065,692
Foundry and machine-shop products, not elsewhere classified.....	17	277	1,044	70	2,240	737,735	1,463,400	2,303,792	104,534	6,081,872	3,623,496
Furniture, including store and office fixtures.....	10	95	720	1,250	1,035	248,024	824,820	1,778,661	48,471	3,894,684	2,067,652
Ice cream.....	5	4	13		225	9,740	24,132	75,392	9,080	185,984	101,512
Ice, manufactured.....	3	5	9	235	113	7,800	12,707	3,585	12,230	45,082	29,817
Lumber and timber products, not elsewhere classified.....	3	19	325	450	777	67,863	377,313	878,431	15,572	1,481,092	587,089
Nonferrous-metal alloys and products, not including aluminum products.....	4	23	171		100	73,265	220,819	367,095	26,034	831,074	437,045
Printing and publishing, book and job.....	8	6	56		65	7,647	71,706	108,008	5,182	284,953	171,163
Printing and publishing, newspaper and periodical.....	8	62	65		184	125,179	116,205	109,848	9,548	539,421	420,025
Stationary goods, not elsewhere classified.....	3	13	46		47	24,440	53,527	105,038	4,137	236,125	129,900
Other industries <sup>c</sup> .....	77	1,095	5,527	4,776	12,988	2,519,505	7,051,223	13,290,354	612,442	31,558,838	17,040,542

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

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

<sup>c</sup> The figures for "Other industries" include data for the "Car and general construction and repairs, steam-railroad repair shops" 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 data for individual establishments. The "Foundry and machine-shop products, not elsewhere classified" industry outranks all others in respect of value of products.

LAKE COUNTY

All industries, total.....	290	6,159	50,328	540,680	333,009	\$16,734,247	\$88,679,154	\$425,032,100	\$83,223,882	\$803,871,186	\$295,615,204
Awnings, tents, sails, and canvas covers.....	4	3	16		7	12,737	26,820	65,343	762	124,000	57,900
Beverages.....	10	22	58		89	40,959	81,335	170,977	6,569	403,458	219,912
Bread and other bakery products.....	46	25	304		0,017	55,454	492,425	1,022,416	61,827	2,277,804	1,193,621
Butter.....	3	2	8		317	(6)	8,276	109,443	2,258	188,453	76,752
Car and general construction and repairs, steam-railroad repair shops.....	8	117	1,489	480	4,020	373,493	2,677,821	1,809,931	144,747	5,005,992	3,051,314
Cigars and cigarettes.....	3	6	23		1	8,035	19,311	31,414	652	78,585	40,519
Feeds, prepared, for animals and fowls.....	3	72	118		2,000	228,754	195,042	5,103,827	46,393	6,544,531	1,394,311
Foundry and machine-shop products, not elsewhere classified.....	24	436	2,411		16,963	1,505,358	3,920,420	16,613,143	531,997	31,571,564	14,426,424
Ice cream.....	4	5	30		294	5,272	58,477	206,232	12,206	417,018	193,550
Ice, manufactured.....	5	12	33	4	1,914	61,120	64,578	8,009	49,713	427,344	338,622
Iron and steel: Blast furnaces.....	3	136	1,574		206,877	414,902	2,609,147	36,297,328	19,942,758	74,180,193	17,940,107
Iron and steel: Steel works and rolling mills.....	9	2,119	24,404	449,263	206,877	5,574,917	45,645,927	152,036,914	19,468,222	301,013,473	128,903,837
Marble, granite, slate, and other stone products.....	7	9	22		344	21,344	39,229	67,594	4,034	183,332	111,704
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	10	23	44		954	60,130	97,186	198,865	9,466	411,277	202,946
Printing and publishing, newspaper and periodical.....	14	120	129	5	392	299,891	306,505	230,293	25,742	1,582,503	1,326,468
Signs and advertising novelties.....	6	9	19		10	10,793	26,111	33,280	743	189,549	105,626
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	4	61	177		1,017	210,267	265,982	6,237,838	91,966	7,574,293	1,244,494
Other industries <sup>d</sup> .....	128	2,982	19,406	90,928	90,953	7,850,771	32,144,562	204,183,218	42,823,837	371,747,752	124,740,697

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

<sup>e</sup> The items for the "Smelting and refining, metals other than gold, silver, or platinum, not from the ore" industry include data for 1 establishment located outside the county, to avoid disclosing the data for the establishment in question. Amounts equivalent to the figures for this establishment have been subtracted from the "Other industries" items, and therefore the totals for the county are not affected by these counterbalancing adjustments.

<sup>f</sup> See footnote 7.

CENSUS OF MANUFACTURES: 1929

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

[See note at head of this table]

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

MADISON 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.....	140	1,920	15,962	27,066	28,944	\$4,349,107	\$18,731,429	\$41,379,434	\$2,026,225	\$102,708,881	\$59,303,222
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MARION COUNTY (SEE INDIANAPOLIS INDUSTRIAL AREA)

ST. JOSEPH 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.....	236	3,632	31,400	47,433	26,219	\$9,224,690	\$43,690,795	\$90,047,891	\$3,102,163	\$191,580,370	\$98,430,316
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<sup>a</sup> See GENERAL EXPLANATIONS—Duplication in Cost of Materials and Value of Products.  
<sup>b</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy. This item does not represent manufacturers' profits. See GENERAL EXPLANATIONS—Profits and Production Costs.

VANDEBURG COUNTY

All industries, total.....	223	2,124	15,917	16,472	31,490	\$6,318,018	\$17,780,290	\$51,294,873	\$1,319,660	\$99,640,166	\$47,025,828
Beverages.....	5	12	34	-----	89	40,059	48,330	166,241	2,454	413,623	244,028
Bread and other bakery products.....	21	24	275	-----	1,054	79,949	380,521	811,404	87,425	1,786,665	907,776
Butter.....	3	14	52	57	259	43,856	107,313	1,673,630	10,515	1,891,798	207,644
Cigars and cigarettes.....	4	40	2,457	600	25	251,326	1,510,817	2,974,901	11,708	6,637,187	3,650,558
Coffee and spice, roasting and grinding.....	5	8	13	30	28	11,720	12,624	260,078	2,710	330,539	76,751
Concrete products.....	6	2	13	4	36	( <sup>c</sup> )	17,094	20,592	626	62,329	41,111
Confectionery.....	5	4	28	-----	27	9,356	25,705	60,010	4,349	128,660	64,301
Electroplating.....	3	3	15	-----	110	5,172	18,191	4,892	1,747	44,257	37,618
Flour and other grain-mill products.....	5	13	124	75	1,540	25,765	161,233	4,377,248	40,529	5,122,539	704,762
Furniture, including store and office fixtures.....	17	213	2,267	3,235	3,255	571,162	2,455,114	4,097,065	112,809	9,469,459	5,259,585
Ice, manufactured.....	3	21	70	2,465	1,449	72,468	92,696	11,009	46,088	325,026	268,829
Marble, granite, slate, and other stone products.....	3	12	33	-----	232	42,205	48,725	64,669	4,271	256,814	187,874
Mirrors, framed and unframed.....	3	12	56	100	58	29,752	69,134	192,077	4,108	380,582	184,307
Patent or proprietary medicines and compounds.....	3	6	7	-----	7	12,859	5,648	39,931	513	85,207	44,763
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	9	25	77	280	668	51,783	108,816	227,225	9,683	453,867	216,959
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	3	16	158	191	326	56,115	175,272	302,920	15,484	602,259	233,855
Printing and publishing, book and job.....	13	52	137	-----	203	128,923	197,240	232,181	6,877	730,342	491,284
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	3	31	284	115	395	91,850	236,171	620,130	35,916	1,191,593	535,547
Stoves and ranges (other than electric) and warm-air furnaces.....	4	36	204	100	490	88,406	231,520	671,860	15,235	1,367,441	680,346
Other industries.....	105	1,574	9,607	220	21,239	4,705,302	11,877,196	34,486,606	956,553	68,380,099	32,934,940

<sup>c</sup> 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 Evansville and Indianapolis, 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 cities of Fort Wayne, Gary, and South Bend are also industrially important, but no statistics by industries can be given for these cities. In the cases of Fort Wayne and South Bend, combined figures for all industries are given, and the reasons for withholding figures for individual industries are stated in explanatory notes. For Gary, it is impossible to publish even the combined totals for all industries without disclosing approximations of the data for an individual establishment.]

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

EVANSVILLE

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

All industries, total.....	212	1,031	13,091	15,538	27,028	\$5,547,748	\$14,858,802	\$48,087,184	\$1,146,105	\$90,866,401	\$41,033,192
Beverages.....	5	12	34	-----	89	40,059	48,330	166,241	2,454	413,623	244,928
Bread and other bakery products.....	21	24	275	-----	1,054	79,949	380,521	811,464	37,425	1,756,065	907,770
Butter.....	3	14	52	57	259	43,856	107,313	1,673,639	10,515	1,891,798	207,044
Cigars and cigarettes.....	4	46	2,457	800	25	251,326	1,510,317	2,974,901	11,708	6,637,167	3,650,568
Coffee and spice, roasting and grinding.....	5	8	13	80	28	11,720	12,624	260,078	2,710	339,539	76,751
Concrete products.....	6	2	13	4	36	(1)	17,994	20,592	626	65,329	41,111
Confectionery.....	5	4	28	-----	27	9,356	25,705	60,010	4,349	123,660	64,301
Electroplating.....	3	3	15	-----	110	5,172	18,191	4,892	1,747	44,257	37,618
Flour and other grain-mill products <sup>2</sup> .....	5	13	124	75	1,540	25,765	161,233	4,377,248	40,529	5,122,839	704,762
Furniture, including store and office fixtures <sup>3</sup> .....	17	213	2,267	3,235	3,255	571,162	2,455,114	4,007,005	112,899	9,469,459	5,259,585
Ice, manufactured.....	3	21	76	2,465	1,449	72,468	92,696	11,609	46,088	325,924	259,829
Marble, granite, slate, and other stone products.....	3	12	33	-----	232	42,205	48,725	64,669	4,271	256,814	187,874
Mirrors, framed and unframed.....	3	12	56	100	58	20,752	69,134	192,077	4,108	380,582	134,397
Patent or proprietary medicines and compounds.....	3	6	7	-----	7	12,859	5,643	39,931	518	85,207	44,763
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	9	25	77	280	668	51,783	108,816	227,225	9,683	453,867	216,959
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	3	16	158	191	326	56,115	175,272	302,920	15,484	602,259	233,855
Printing and publishing, book and job.....	13	52	137	-----	203	128,923	197,240	232,181	6,877	730,342	401,284
Stoves and ranges (other than electric) and warm-air furnaces.....	4	36	204	100	490	38,406	231,520	671,860	15,235	1,267,441	680,346
Other industries.....	100	1,417	8,028	8,401	17,370	4,037,590	9,264,270	32,107,039	823,624	61,120,640	28,189,877

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

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

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

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

<sup>2</sup> Includes data for 1 establishment located outside Evansville.

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

FORT WAYNE

[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, "Wire, drawn from purchased bars or rods"—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.....	180	3,687	21,311	7,684	56,825	\$7,509,864	\$29,849,868	\$57,559,466	\$2,451,333	\$121,567,164	\$61,556,365
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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 employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

INDIANAPOLIS

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

All industries, total.....	897	9,423	47,603	31,002	109,462	\$24,851,023	\$62,331,906	\$220,455,626	\$7,438,381	\$408,335,696	\$180,441,089
Awnings, tents, sails, and canvas covers.....	7	28	01	---	32	57,355	60,934	166,862	3,932	346,786	175,092
Beverages.....	12	27	109	8	287	84,561	169,313	373,821	10,311	965,130	580,998
Boxes, paper, not elsewhere classified.....	7	127	616	---	846	276,002	618,829	1,743,046	31,619	3,234,065	1,459,400
Boxes, wooden, except cigar boxes.....	6	22	135	100	439	45,714	140,919	347,685	6,301	732,733	378,797
Bread and other bakery products.....	58	127	1,451	210	2,102	491,644	1,780,756	4,701,071	191,600	10,046,375	5,153,704
Butter <sup>1</sup> .....	7	53	146	160	666	101,214	204,347	3,882,099	27,776	4,638,040	728,705
Cleaning and polishing preparations <sup>1</sup> .....	7	22	54	75	154	42,332	50,734	260,179	7,311	647,125	379,035
Clothing, women's, not elsewhere classified.....	8	41	280	---	56	98,421	205,491	433,939	4,811	962,186	523,430
Coffee and spice, roasting and grinding.....	7	19	27	---	148	63,088	26,850	837,242	4,003	1,150,981	300,736
Condensed and evaporated milk.....	3	1	8	---	33	( <sup>2</sup> )	9,609	62,973	1,897	120,953	56,083
Confectionery.....	12	78	481	---	734	177,254	372,578	1,462,636	42,854	2,689,788	1,184,293
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	11	26	148	---	94	89,874	256,635	308,377	3,490	751,183	439,316
Electroplating.....	8	14	83	---	244	46,209	110,831	44,260	13,490	331,693	273,953
Foundry and machine-shop products, not elsewhere classified <sup>1</sup> .....	76	1,495	8,015	4,210	19,629	4,130,187	11,145,440	13,715,722	915,338	44,947,898	30,316,838
Furniture, including store and office fixtures.....	27	217	1,592	1,250	4,004	641,549	1,931,086	3,843,435	102,315	7,787,742	3,841,992
Ice cream.....	12	52	151	200	2,017	129,919	239,390	1,172,830	90,948	2,157,110	893,335
Ice, manufactured.....	13	60	337	1,910	1,437	84,352	470,982	58,968	192,748	1,444,236	1,192,520
Lumber and timber products, not elsewhere classified.....	8	46	460	100	2,417	259,106	549,534	1,520,524	39,702	3,889,766	2,320,540
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	5	14	75	---	90	39,647	119,865	56,047	2,342	292,033	233,044
Marble, granite, slate, and other stone products.....	8	21	97	---	780	93,321	170,181	210,445	13,109	616,041	392,487
Mattresses and bed springs, not elsewhere classified.....	5	19	115	---	455	51,308	134,331	450,190	10,026	820,237	360,021
Meat packing, wholesale.....	11	662	3,411	5,382	8,322	1,211,942	3,760,235	57,285,931	468,993	66,458,333	8,703,499
Mirrors, framed and unframed.....	4	14	102	---	175	40,579	93,670	119,084	6,982	337,832	210,866
Models and patterns, not including paper patterns.....	8	7	37	---	137	10,090	69,320	40,700	2,366	170,576	127,504
Motor-vehicle bodies and motor-vehicle parts.....	16	228	2,360	650	3,097	599,698	3,698,062	8,612,269	129,981	14,221,295	5,479,045
Motor vehicles, not including motorcycles.....	4	420	3,254	---	5,894	1,916,121	4,657,477	37,611,543	285,470	56,602,870	18,705,848
Nonferrous-metal alloys and products, not including aluminum products.....	11	57	395	---	1,700	171,856	534,548	1,745,683	73,809	2,877,105	1,057,613
Paints and varnishes.....	13	188	307	---	1,503	613,055	348,429	3,100,227	36,440	5,837,370	2,700,709
Patent or proprietary medicines and compounds <sup>1</sup> .....	14	148	128	---	164	413,313	125,409	367,304	7,107	1,616,767	1,242,358
Photo-engraving, not done in printing establishments.....	4	65	161	---	97	220,395	366,021	139,708	6,437	896,238	750,093
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills <sup>1</sup> .....	32	127	391	420	3,331	333,396	538,300	1,139,968	52,575	2,448,262	1,255,719
Printing and publishing, book and job.....	102	559	1,311	1	1,762	1,450,001	1,966,157	1,053,248	65,751	8,064,937	6,045,938
Printing and publishing, newspaper and periodical.....	40	940	657	---	1,773	1,657,382	1,350,913	2,418,991	57,580	10,762,059	8,285,488
Screw-machine products and wood screws.....	6	12	184	---	528	35,861	224,692	222,512	15,435	727,028	489,081
Signs and advertising novelties.....	7	33	78	---	20	89,519	109,113	130,308	19,714	580,760	430,744
Stoves and ranges (other than electric) and warm-air furnaces.....	8	50	264	250	389	123,005	435,145	387,065	29,771	1,165,536	748,700
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	14	65	248	---	923	165,065	403,236	779,493	18,091	1,710,665	919,081
Tools, not including edge tools, machine tools, files, or saws.....	6	12	24	---	114	16,629	29,593	34,392	1,951	117,967	81,624
Window shades and fixtures.....	3	9	25	---	3	9,817	24,807	88,100	1,080	150,753	67,573
Wirework, not elsewhere classified.....	7	21	174	---	339	87,581	122,553	291,126	8,392	639,953	340,435
Other industries.....	286	3,326	19,805	10,095	42,294	8,802,668	24,947,387	68,683,953	4,463,277	144,773,503	71,636,273

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

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

<sup>1</sup> The figures for the following numbers of establishments located outside the city have been included in the items for the city, to avoid disclosing data reported by those establishments: Butter, 1; cleaning and polishing preparations, 1; foundry and machine-shop products, not elsewhere classified, 1; patent or proprietary medicines and compounds, 1; planing-mill products (including general millwork), not made in planing mills connected with sawmills.

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

SOUTH BEND

[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.....	193	2,749	25,726	42,215	14,268	\$7,534,507	\$36,116,226	\$79,873,831	\$2,547,584	\$163,378,462	\$80,957,547
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# IOWA

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929.....	3,317	81,678	366,760	145,916	220,844	\$102,326,738	\$574,393,729	\$556,592,882	\$17,800,847	\$898,213,272	\$323,819,543
1927.....	3,061	78,692	330,702	143,563	187,139	91,248,664	496,939,635	480,095,664	16,843,971	769,340,610	272,400,975
1925.....	3,270	74,976	308,016	143,291	104,725	92,232,591	499,586,023	(*)	(*)	757,771,477	258,185,464
1923.....	3,420	77,847	282,333	131,479	150,854	94,206,205	434,335,536	(*)	(*)	690,032,306	255,696,860
1921.....	3,527	62,274	(*)	(*)	(*)	78,546,489	338,703,998	(*)	(*)	521,446,176	182,742,178
1919.....	5,683	80,551	242,820	130,334	112,486	90,117,169	520,240,807	506,034,871	14,205,936	745,472,067	225,231,890
1914.....	5,614	63,113	189,800	139,746	50,054	39,859,510	205,451,339	197,670,079	7,781,260	310,740,947	105,298,635
1909.....	5,528	61,635	154,928	136,465	18,463	32,541,931	170,707,048	165,432,906	5,244,142	259,237,637	88,530,589
1904.....	4,785	49,481	117,542	112,435	5,107	22,997,053	102,843,892	100,065,304	2,778,588	160,572,313	57,728,421
1899.....	4,828	44,420	106,022	103,409	2,613	18,020,653	85,778,807	(*)	(*)	132,870,865	47,091,998
PER CENT OF INCREASE OR DECREASE (—)											
1927-1929.....	8.4	10.8	10.9	1.6	18.0	12.1	15.6	15.9	5.7	16.8	18.9
1925-1927.....	-6.4	-1.7	7.4	0.2	13.6	-1.1	-0.5			1.5	5.5
1923-1925.....	-4.4	-3.7	9.1	9.0	9.2	-2.1	15.0			9.8	1.0
1921-1923.....	-3.0	25.0				10.9	28.2			32.3	39.9
1919-1921.....	-37.9	-22.7				-12.8	-34.9			-30.1	-18.9
1919-1929.....	-41.6	1.4	51.0	12.0	96.3	13.5	10.4	10.0	25.3	20.5	43.8
1909-1919.....	2.8	30.7	56.7	-4.5	509.3	176.9	204.8	205.8	170.9	187.6	154.4
1899-1909.....	14.5	38.8	46.1	32.0	606.6	80.6	99.0			95.1	88.0

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

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR COUNTIES AND CITIES: 1929

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State.....	2,470,939	3,317	81,678	366,760	\$102,326,738	\$574,893,720	\$556,592,882	\$17,800,847	\$808,218,272	\$323,819,543
<i>Counties <sup>3</sup></i>										
Adair.....	13,891	5	12	92	15,090	292,590	288,001	4,589	340,196	47,606
Adams.....	10,437	4	13	57	14,021	92,772	90,427	2,345	130,650	43,878
Allamakee.....	16,328	22	89	328	74,723	1,099,342	1,084,986	14,356	1,313,946	214,604
Appanoose.....	24,835	27	252	2,258	281,060	1,042,665	1,544,911	97,784	2,485,784	793,089
Audubon.....	12,264	11	82	302	91,447	827,883	816,682	11,201	1,285,441	407,658
Benton.....	22,851	26	410	1,562	532,605	1,450,571	1,387,614	62,957	2,809,566	948,995
Black Hawk.....	69,140	125	7,114	18,701	9,771,102	51,225,408	50,094,914	1,130,494	90,121,498	38,590,088
Boone.....	20,271	30	310	1,490	369,067	1,169,939	1,096,070	73,869	2,102,788	982,847
Bremer.....	17,046	41	256	1,112	233,331	2,666,029	2,614,168	51,861	3,740,363	1,080,334
Buchanan.....	19,550	21	121	665	116,633	2,677,128	2,643,147	33,981	3,121,410	444,282
Buena Vista.....	18,667	26	151	745	160,007	1,556,141	1,527,782	28,359	2,121,796	565,655
Butler.....	17,617	20	55	408	49,772	1,324,141	1,311,908	12,233	1,520,285	202,154
Calhoun.....	17,605	16	74	288	64,198	687,968	678,104	9,864	942,485	264,497
Carroll.....	22,326	26	212	1,182	262,155	2,589,961	2,549,098	40,863	3,402,211	812,250
Cass.....	19,422	26	208	1,309	224,902	1,897,989	1,849,614	48,375	2,787,314	859,325
Cedar.....	16,760	20	38	516	88,056	993,765	983,108	10,657	1,169,834	176,069
Cerro Gordo.....	38,476	57	2,406	83,577	3,191,183	23,531,412	21,796,384	1,735,028	32,967,657	9,430,245
Cherokee.....	18,737	10	111	186	162,620	282,233	256,463	25,770	597,665	315,432
Chickasaw.....	14,637	19	48	441	58,341	1,154,317	1,139,910	14,407	1,385,533	181,216
Clarke.....	10,384	7	27	78	34,592	306,177	297,429	8,748	419,776	113,599
Clay.....	16,107	15	38	285	40,822	214,277	202,728	11,549	212,706	206,054
Clayton.....	24,559	43	343	1,150	401,727	2,945,437	2,897,755	47,682	3,749,710	804,273
Clinton.....	44,377	83	3,285	16,421	4,047,030	16,982,938	16,138,928	844,010	27,105,981	10,123,043
Dallas.....	25,493	26	482	2,970	608,711	1,693,997	1,485,709	208,288	2,888,844	1,194,847
Davis.....	11,150	6	16	102	20,091	100,253	95,723	4,530	168,204	67,951
Decatur.....	14,903	9	49	274	46,238	429,300	422,139	7,161	576,632	147,332
Delaware.....	18,122	28	65	373	82,696	1,528,799	1,507,577	21,222	1,827,184	298,385
Des Moines.....	38,162	76	3,498	9,949	4,163,912	9,442,714	9,133,580	309,134	17,243,650	7,800,936
Dickinson.....	10,982	12	47	101	47,409	425,226	415,974	9,252	611,818	186,902
Dubuque.....	61,214	122	5,440	16,022	5,991,782	10,165,825	18,636,856	628,970	34,287,319	15,091,494
Emmet.....	12,856	17	159	1,875	233,812	640,302	611,452	28,850	1,027,313	367,011
Fayette.....	29,145	30	1,115	3,014	1,499,090	2,800,269	2,685,848	114,413	4,018,968	2,113,709
Floyd.....	19,524	26	1,076	7,056	1,492,030	5,286,210	5,074,947	211,263	6,044,273	3,044,273
Franklin.....	16,382	20	217	1,563	202,820	1,617,744	1,522,017	95,727	2,312,314	694,670
Fremont.....	15,533	8	51	310	38,842	86,167	80,801	5,366	234,703	148,540
Greene.....	10,528	11	61	249	60,723	433,152	425,065	7,487	651,510	218,358
Grundy.....	14,133	15	45	282	37,489	718,641	706,849	11,792	869,274	180,938
Guthrie.....	17,324	15	50	229	49,801	599,234	586,421	9,813	765,268	159,034
Hamilton.....	20,978	16	283	765	340,134	1,020,977	978,194	42,783	2,106,643	1,085,066
Hancock.....	14,802	13	55	227	54,149	1,335,016	1,324,257	10,759	1,566,027	231,011
Hardin.....	22,947	34	133	773	150,599	2,109,776	2,064,549	45,227	2,697,621	527,845
Henry.....	17,660	18	110	494	82,919	580,990	560,400	20,590	671,359	200,399
Howard.....	13,082	19	59	520	69,999	1,177,130	1,161,377	15,753	1,376,184	199,054
Humboldt.....	13,202	12	39	846	44,344	638,258	629,711	8,547	804,001	165,743
Ida.....	11,933	10	36	123	39,076	312,898	305,732	7,166	413,002	100,104
Iowa.....	17,332	12	50	842	48,601	602,066	590,130	11,936	796,833	194,767
Jackson.....	18,481	33	107	993	171,946	1,680,328	1,645,036	35,242	2,124,799	444,471
Jasper.....	32,936	33	2,397	7,605	4,244,464	12,618,342	12,294,446	323,896	27,659,628	14,911,286
Jefferson.....	16,241	20	715	1,851	897,097	2,292,641	2,184,888	107,753	6,664,725	3,372,084
Johnson.....	30,276	32	304	1,461	409,731	1,133,064	1,036,245	96,819	2,692,043	1,558,979
Jones.....	19,296	29	302	740	217,491	2,470,407	2,445,094	25,313	4,005,071	1,634,664
Keokuk.....	19,148	12	127	585	170,960	122,601	45,918	76,683	886,164	263,663
Kossuth.....	25,452	26	104	483	120,668	1,580,111	1,564,962	25,149	1,936,376	356,285
Lee.....	41,268	80	3,483	28,411	4,040,634	16,912,231	15,637,893	1,374,338	83,053,370	16,141,139
Linn.....	82,336	188	5,969	37,060	7,346,801	63,392,966	61,931,488	1,461,478	96,108,597	32,715,631
Louisa.....	11,676	8	153	248	106,369	243,532	237,812	5,720	434,387	190,855
Lucas.....	15,114	14	95	357	93,252	337,185	319,384	17,801	676,237	230,052
Lyon.....	15,293	11	35	148	37,027	334,656	330,262	4,394	455,432	120,776
Madison.....	14,331	8	34	181	36,162	131,443	124,936	6,507	320,066	189,528
Mahaska.....	25,804	31	433	1,087	481,593	1,246,197	1,176,040	70,157	2,380,426	1,134,229
Marion.....	25,727	80	298	1,271	304,220	1,327,191	1,281,163	46,028	2,533,180	1,205,989
Marshall.....	33,727	60	1,745	5,238	2,111,719	6,697,532	6,440,242	227,290	13,858,466	7,190,964
Mills.....	15,866	13	58	474	49,582	404,053	398,856	10,197	533,771	129,718
Mitchell.....	14,065	20	78	274	86,709	1,341,518	1,329,307	12,211	1,626,997	285,479
Monona.....	18,213	12	60	189	54,170	364,853	356,628	8,225	631,154	266,301
Monroe.....	15,010	11	36	295	46,459	70,438	61,604	8,834	190,114	119,676
Montgomery.....	10,752	23	416	1,192	409,801	1,422,807	1,387,917	34,890	3,497,480	2,074,679
Muscatine.....	29,385	84	2,872	6,456	2,878,037	7,211,886	7,033,128	178,758	14,259,036	7,047,150
O'Brien.....	18,409	23	98	338	115,706	975,215	950,934	24,281	1,343,812	368,697
Page.....	25,904	30	221	876	231,941	1,708,371	1,669,298	39,073	2,522,750	814,379
Palo Alto.....	15,398	14	36	284	43,088	959,674	949,284	10,390	1,119,474	159,800
Plymouth.....	24,159	22	71	718	85,923	368,133	345,834	22,299	643,150	275,017
Pocahontas.....	15,687	9	79	108	106,989	514,130	471,767	42,363	801,710	287,580
Polk.....	172,837	341	9,656	41,392	12,717,310	53,427,653	51,186,410	2,241,243	103,870,603	50,451,850
Pottawattamie.....	69,888	74	2,089	6,306	3,003,800	5,728,324	5,312,147	416,177	11,798,302	6,069,978
Poweshiek.....	18,727	17	246	579	229,360	1,266,690	1,236,442	30,248	1,951,039	684,349
Ringgold.....	11,966	5	9	48	9,627	23,484	21,203	2,281	57,872	34,388
Sac.....	17,641	14	83	437	105,364	634,671	620,762	13,919	971,823	337,152
Scott.....	77,332	190	6,334	33,758	8,202,291	28,963,149	27,525,923	1,437,226	50,824,510	21,861,361
Shelby.....	17,131	8	67	522	61,069	517,466	507,966	9,500	707,554	190,088

See footnotes at end of table.

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

	Popula- tion, 1930	Num- ber of estab- lish- ments	Wage earners (average for the year) <sup>1</sup>	Horse- power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PROD- UCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufac- ture
						Total	Materials and containers	Fuel and pur- chased energy		
<i>Counties</i> <sup>3</sup> —Continued										
Sioux	28,806	28	176	544	\$247,263	\$2,615,677	\$2,578,217	\$37,460	\$8,191,356	\$575,679
Story	31,141	35	297	1,018	291,487	2,040,174	2,592,852	47,322	3,814,550	1,174,382
Tama	21,987	19	159	2,005	161,862	1,780,846	1,701,611	79,235	2,357,698	576,852
Taylor	14,859	7	24	77	21,957	186,366	182,299	4,067	278,517	92,151
Union	17,435	17	559	1,073	857,355	3,113,918	3,043,309	70,609	4,899,792	1,285,874
Wapello	40,480	61	3,125	8,398	3,224,391	45,833,492	45,419,448	414,044	50,123,065	10,289,933
Warren	17,700	7	34	59	41,424	126,059	122,238	3,826	220,520	94,467
Washington	19,822	24	299	473	216,300	599,088	569,413	29,675	1,310,654	711,566
Wayne	13,787	11	92	327	92,011	1,035,318	1,019,054	16,264	1,248,094	212,776
Webster	40,425	50	1,784	12,188	2,312,649	5,998,501	4,989,901	1,008,600	11,807,200	5,898,699
Winnebago	13,143	17	71	465	84,029	1,039,121	1,074,073	15,048	1,356,835	267,714
Winneschick	21,630	30	180	805	200,464	2,090,307	2,040,607	49,700	2,082,567	592,200
Woodbury	101,660	164	6,236	25,767	8,597,184	112,955,850	111,606,885	1,349,465	136,125,651	23,189,801
Worth	11,164	13	152	447	229,303	875,044	847,150	27,884	1,183,700	308,655
Wright	20,216	21	336	1,820	419,122	1,255,846	1,174,613	81,233	2,075,485	819,639
All other counties <sup>4</sup>	68,710	37	541	1,195	760,607	3,452,203	3,380,382	71,821	4,782,198	1,329,995
<i>Cities having 10,000 inhabitants or more</i> <sup>5</sup>										
Ames	10,261	13	90	521	101,523	212,911	196,878	16,033	555,755	342,844
Boone	11,886	24	281	1,398	338,358	1,039,732	997,690	72,083	1,878,548	838,766
Cedar Rapids	66,097	167	5,864	36,223	7,230,004	62,303,698	60,928,599	1,435,099	94,654,562	32,290,864
Clinton	25,726	68	3,170	16,151	3,960,380	16,524,718	15,692,897	831,821	26,430,866	9,906,148
Council Bluffs	42,048	65	2,050	6,194	2,968,002	5,410,492	5,001,608	408,980	11,305,638	5,055,146
Davenport	60,751	172	4,768	16,391	5,773,134	24,001,404	23,218,304	783,100	30,862,093	15,860,629
Des Moines	142,559	330	8,813	34,958	11,473,650	51,898,723	50,092,904	1,805,819	98,905,779	47,007,050
Dubuque	41,679	97	5,271	16,203	5,849,184	17,607,621	17,102,357	505,264	32,206,140	14,598,525
Fort Dodge	21,895	31	685	2,487	943,654	2,700,925	2,554,828	152,102	5,383,869	2,620,944
Fort Madison	13,779	27	1,197	8,283	1,200,921	6,079,337	6,470,033	209,304	13,992,228	7,312,891
Iowa City	15,340	29	295	1,449	402,651	1,127,411	1,030,945	96,466	2,064,223	1,536,812
Keokuk	15,106	54	1,449	11,019	1,602,480	8,986,706	8,037,378	949,328	15,677,280	6,890,544
Marshalltown	17,373	53	1,651	4,602	2,008,277	5,624,279	5,441,383	182,896	12,404,105	6,869,828
Mason City	23,304	44	2,214	30,798	2,983,446	21,611,536	20,013,180	1,698,356	80,183,274	8,571,738
Muscatine	16,778	78	2,851	6,378	2,557,301	6,807,984	6,604,472	173,512	13,845,621	6,977,637
Oskaloosa	10,123	28	430	1,070	479,513	1,241,974	1,172,127	69,847	2,358,545	1,116,571
Sioux City	79,183	154	6,169	24,829	8,481,105	110,847,092	109,645,861	1,301,231	133,479,710	22,632,618
Waterloo	46,191	92	6,684	16,785	9,130,123	46,819,950	47,744,104	1,075,846	85,490,800	36,670,859

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

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

<sup>3</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Cer-  
tain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of the counties shown  
separately. In the case of Ringgold County, in which fewer than 10 wage earners were employed, statistics are here presented in order that comparison may be made with  
the corresponding figures for 1927 (published in mimeographed form).

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

<sup>5</sup> Crawford, Harrison, Osceola, and Van Buren Counties. (See footnote 3.)

<sup>6</sup> Not including Burlington, Newton, Ottumwa, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for  
these cities from separate publication to avoid disclosing approximations of the data for individual establishments located either in the cities or outside the cities but within  
the counties in which the cities are situated.

<sup>7</sup> For statistics by industries for this city, see Table 14.

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OF- FICERS 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	99,311	82,484	16,827	1,897	1,812	85	1,969	1,881	88	13,767	8,995	4,772	81,678	69,796	11,882
1919	105,439	87,984	17,455	5,393	5,209	184	1,883	1,810	64	17,612	12,876	4,736	80,551	68,080	12,471
1914	82,631	70,211	12,420	5,421	5,263	158	1,283	1,247	36	12,814	10,066	2,749	63,113	53,036	9,477
1909	78,380	66,202	12,178	5,323	5,137	186	1,424	1,399	25	9,978	7,896	2,082	61,635	51,770	9,865

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

<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 69; male, 93; female, 1. Other salaried officers  
and employees—total, 609; male, 395; female, 214. The corresponding data for 1919 and earlier years are included in the respective items for those years, but were not tabu-  
lated separately. See GENERAL EXPLANATIONS—Persons Engaged.

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

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

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

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

CENSUS YEAR	Average number em- ployed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent mini- mum is of maxi- mum
		January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber	
1929	81,678	<i>77,138</i>	78,230	78,006	79,223	80,345	81,776	83,384	86,240	89,624	84,149	81,047	79,965	85.1
1919	80,551	<i>76,556</i>	76,141	75,692	76,185	77,980	79,963	81,343	83,028	85,417	84,496	85,825	85,086	87.6
1914	63,113	<i>61,051</i>	60,856	62,144	62,970	62,982	63,658	63,519	67,845	67,085	68,639	60,946	60,661	89.4
1909	61,635	<i>55,649</i>	56,081	57,912	60,328	61,440	62,581	62,215	66,408	68,008	64,097	62,895	62,018	81.8

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



CENSUS OF MANUFACTURES: 1929

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.....	3,317	81,678	45 and over but under 48.....	72	4,406
Not reported.....	286	729	48.....	538	17,277
Under 40.....	69	379	Over 48 but under 54.....	410	16,032
40.....	25	2,841	54.....	396	8,614
Over 40 but under 44.....	24	181	Over 54 but under 60.....	255	13,703
44 and over but under 45.....	337	7,234	60 and over.....	905	10,332

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

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

CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			CLASS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	1929	1919	1909	1929	1919	1909		1929	1919	1909	1929	1919	1909
All establishments.....	3,317	5,083	5,528	81,678	80,551	61,635	51 to 100.....	158	135	130	11,331	9,470	9,188
No wage earners.....	110	781	643				101 to 250.....	88	96	68	13,410	15,048	10,228
1 to 5.....	1,820	3,490	3,525	4,750	7,101	7,169	251 to 500.....	25	25	24	8,330	8,650	8,617
6 to 20.....	791	813	815	8,706	8,921	8,903	501 to 1,000.....	18	12	9	12,789	8,878	6,231
21 to 50.....	298	322	313	99,662	10,468	10,224	1,001 to 2,500.....	8	9	1	12,800	12,015	1,075
							2,501 and over.....	1					

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

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	3,317	5,683	5,528	81,678	80,551	61,635	\$898,213,272	\$745,472,697	\$259,237,637	\$323,819,543	\$225,231,800	\$88,530,589
Less than \$5,000.....	(2)	1,491	2,281	(2)	930	2,039	(2)	3,883,673	5,437,954	(2)	2,426,493	3,474,403
\$5,000 to \$19,999.....	1,155	1,985	1,606	2,732	4,808	6,836	13,160,268	20,732,463	10,905,804	8,178,613	11,684,884	9,175,960
\$20,000 to \$99,999.....	1,177	1,381	1,156	8,983	10,219	14,344	57,106,718	64,432,786	50,150,907	27,432,491	25,560,436	18,079,294
\$100,000 to \$499,999.....	690	(2)	(2)	3,897	(2)	(2)	22,302,045	(2)	(2)	12,445,774	(2)	(2)
\$500,000 to \$999,999.....	487	(2)	(2)	5,086	(2)	(2)	34,804,673	(2)	(2)	15,036,717	(2)	(2)
\$100,000 to \$499,999.....	751	642		20,265	21,019		167,574,028	136,851,077		65,542,634	56,009,329	
\$100,000 to \$249,999.....	494	(2)		9,742	(2)		78,301,427	(2)		30,098,939	(2)	
\$250,000 to \$499,999.....	257	(2)	366	10,523	(2)	27,422	80,272,601	(2)	91,097,657	34,874,645	(2)	38,787,562
\$500,000 to \$999,999.....	131	87		10,590	8,489		90,646,498	58,983,459		38,284,389	24,565,177	
\$1,000,000 and over.....	103	97	29	39,108	35,080	10,394	569,725,765	460,589,239	95,585,315	184,329,916	104,979,571	18,463,340
\$1,000,000 to \$2,499,999.....	67	(2)	(2)	14,522	(2)	(2)	103,265,452	(2)	(2)	52,518,907	(2)	(2)
\$2,500,000 to \$4,999,999.....	15	(2)	(2)	4,858	(2)	(2)	51,850,953	(2)	(2)	21,315,688	(2)	(2)
\$5,000,000 and over.....	21	(2)	(2)	19,728	(2)	(2)	415,079,360	(2)	(2)	110,495,321	(2)	(2)

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

<sup>2</sup> No data.

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	3,317	5,683	81,678	80,551	\$898,213,272	\$745,472,697	\$323,819,543	\$225,231,800
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	1,634	1,540	73,284	68,080	828,566,573	644,752,520	296,491,446	190,437,574
Other forms of ownership or control (individual, partnership, etc.).....	1,683	4,143	8,394	12,462	69,646,699	100,720,177	27,328,097	34,794,316
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	477	(1)	39,555	(1)	476,314,505	(1)	148,261,214	(1)
Independent (single-unit).....	2,840	(1)	42,123	(1)	421,898,767	(1)	175,558,329	(1)

<sup>1</sup> Not tabulated.

TABLE 9.—PRIME MOVERS AND ELECTRIC MOTORS, BY NUMBER AND RATED CAPACITY, FOR THE STATE, 1929, 1927, 1925, 1919, AND 1914, AND FOR IMPORTANT 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				
The State:														
1929	366,760	145,916	641	73,266	88	66,224	107	5,231	23	1,105	31,519	220,844	8,295	110,588
1927	330,702	143,563	710	76,621	79	61,183	155	4,558	25	1,201	24,041	187,139	7,620	101,015
1925	308,016	143,291	845	85,641	76	47,988	222	5,590	28	1,072	20,052	164,725	6,537	84,503
1919 <sup>1</sup>	242,820	130,334	1,176	101,494	63	17,048	809	7,030	94	3,862	14,605	112,486	3,895	53,799
1914 <sup>1</sup>	189,800	139,746	1,640	125,340	( <sup>2</sup> )	( <sup>2</sup> )	1,254	8,868	150	5,538	7,474	50,054	2,682	51,773
<i>Counties in which aggregate horsepower exceeded 25,000: 1929</i>														
Cerro Gordo	33,577	26,020	19	10,020	8	16,000					693	7,557	428	19,874
Linn	37,060	9,299	19	2,872	10	6,427	1	( <sup>3</sup> )			2,662	27,761	096	10,455
Polk	41,392	12,995	38	5,053	8	7,812	3	90			4,093	28,397	223	6,046
Scott	33,758	20,047	27	4,907	8	15,740					1,806	13,111	1,270	21,361
Woodbury	25,787	8,525	32	4,788	13	1,337	1	( <sup>3</sup> )			1,955	17,242	575	2,789

<sup>1</sup> Data for the "Automobile repairing" industry are included in the statistics for 1919 and 1914, the only years for which this industry was canvassed in connection with the census of manufactures.  
<sup>2</sup> Reported as "Steam engines and turbines."  
<sup>3</sup> Not reported separately. See footnote 2.  
<sup>4</sup> Items for internal-combustion engines included with those 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 <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State	366,760	145,916	220,844	110,588	Jasper	7,505	301	7,204	
Adair	92	40	52		Jefferson	1,851	720	1,131	( <sup>2</sup> )
Adams	57	37	20		Johnson	1,461	525	936	
Allamakee	328	149	179		Jones	740	187	553	12
Appanoose	2,258		2,258		Kcokuk	585	485	100	158
Audubon	362	112	250		Kossuth	483	186	297	
Benton	1,562	1,045	517	650	Lee	23,411	10,967	12,444	7,827
Black Hawk	18,701	4,818	13,883	5,514	Linn	37,060	9,299	27,761	10,455
Boone	1,490	254	1,236		Louisa	248	10	238	
Bromer	1,112	413	699	105	Lucas	357	25	332	
Buchanan	665	110	555		Lyon	148	36	113	
Buena Vista	745	100	645		Madison	181		181	
Butler	408	165	243	10	Mahaska	1,087	480	607	40
Calhoun	288	105	183		Marion	1,271	548	723	
Carroll	1,182	288	894		Marshall	5,238	348	4,890	100
Cass	1,309	505	804		Mills	474	135	339	
Cedar	516	172	344		Mitchell	274	122	152	
Cerro Gordo	33,577	26,020	7,557	19,874	Monroe	189		189	
Cherokee	186	68	118		Monroe	295	100	195	
Chickasaw	441	200	181		Montgomery	1,192	745	447	400
Clarke	78	5	73		Muscatine	6,456	3,410	3,046	1,114
Clay	285		285		O'Brien	338	75	263	
Clayton	1,156	590	566	162	Page	876	47	829	
Clinton	16,421	9,761	6,660	11,607	Palo Alto	284	76	208	
Dallas	2,976	585	2,391		Plymouth	718	95	623	
Davis	102		102		Pocahontas	108		108	
Decatur	274	40	234		Polk	41,392	12,995	28,397	6,046
Delaware	373	60	313		Pottawattamie	6,306	847	5,459	299
Des Moines	9,949	5,643	4,306	5,529	Poweshiek	579	223	356	
Dickinson	101	5	96		Ringgold	48		48	
Dubuque	16,622	5,718	10,904	9,308	Sac	437	162	275	
Emmet	1,875	1,575	300		Scott	33,758	20,047	13,111	21,361
Fayette	3,014	2,155	859	2,346	Shelby	522	240	282	
Floyd	7,056	933	6,123	70	Sioux	544	138	406	
Franklin	1,563	201	1,362		Story	1,018	655	1,293	118
Fremont	310	280	30		Tama	2,005	1,511	494	360
Greene	249		249		Taylor	77		77	
Grundy	282	31	251		Union	1,073	410	663	
Guthrie	229	17	212		Wapello	8,388	2,073	6,315	263
Hamilton	765	23	742	15	Warren	59	18	41	
Hancock	227	122	105		Washington	473	237	236	( <sup>2</sup> )
Hardin	773	116	657		Wayne	327	132	195	12
Henry	494	92	402		Webster	12,188	1,705	10,483	1,293
Howard	520	353	167	80	Winnabago	465	279	186	
Humboldt	346	56	290		Winneshiek	865	804	561	24
Ida	123		123		Woodbury	25,787	8,525	17,242	2,789
Iowa	842	650	192	110	Worth	447	360	87	192
Jackson	993	94	899		Wright	1,820	1,435	385	1,447
					All other counties	1,195	383	862	

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

CENSUS OF MANUFACTURES: 1929

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

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

KIND	1929		1927 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 pounds).....	2,392,687	\$9,608,074	2,220,695	2,458,070	2,171,655	2,372,691	1,845,221
Anthracite (tons, 2,240 pounds).....	24,074	141,995	( <sup>3</sup> )	90,870	15,400	10,279	8,728
Bituminous (tons, 2,000 pounds).....	2,368,724	9,366,079	( <sup>3</sup> )	2,366,620	2,154,407	2,361,799	1,835,448
Coke (tons, 2,000 pounds).....	103,287	987,404	( <sup>4</sup> )	( <sup>4</sup> )	134,841	83,082	49,584
Fuel oils, including crude oils and gas oils (gallons) <sup>5</sup> .....	81,084,185	1,424,355	( <sup>4</sup> )	( <sup>4</sup> )	24,108,230	11,770,902	7,849,170
Gasoline and kerosene (gallons) <sup>6</sup> .....	1,133,120	181,714	( <sup>4</sup> )	( <sup>4</sup> )	1,110,522		
Gas, natural (M cubic feet).....			( <sup>4</sup> )	( <sup>4</sup> )			
Gas, manufactured (M cubic feet).....	374,054	287,533	( <sup>4</sup> )	( <sup>4</sup> )	181,967	120,699	66,505
Other fuels.....		120,765	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Electric energy purchased (kilowatt-hours).....	392,856,735	5,345,154	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Total cost of fuel and purchased energy.....		\$17,804,999	Cost \$10,843,971	Cost (\$)	Cost \$14,205,936	Cost \$7,781,260	Cost \$5,244,142

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

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

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

<sup>4</sup> No data.

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

<sup>6</sup> Data incomplete.

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

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

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

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

INDUSTRY	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
						Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All industries, total.....	3,317	315,736	81,678	145,916	220,844	\$34,916,521	102,326,738	556,592,832	17,800,847	898,213,272	323,819,543
Agricultural implements.....	18	135	671	58	2,143	356,096	969,933	1,720,248	70,718	5,539,573	3,748,607
Awnings, tents, sails, and canvas covers.....	13	34	62		70	49,840	62,654	155,002	4,362	438,801	270,437
Baskets and rattan and willow ware, not including furniture.....	5	36	103	195	88	69,004	101,526	145,835	3,566	385,834	230,433
Beverages.....	92	89	270	102	728	168,351	318,978	808,916	43,289	2,125,849	1,273,644
Bookbinding and blank-book making.....	10	20	149		187	51,278	158,321	190,332	7,584	637,890	439,930
Boots and shoes, other than rubber.....	5	47	388	60	180	78,538	306,609	969,634	11,617	1,749,234	767,933
Boxes, cigar, wooden.....	3	2	18		13	( <sup>4</sup> )	12,545	10,632	554	35,575	24,389
Boxes, paper, not elsewhere classified.....	10	50	283		335	102,930	254,632	666,202	15,937	1,291,729	609,540
Boxes, wooden, except cigar boxes.....	5	7	78	16	377	9,981	60,746	109,105	3,992	235,865	122,708
Bread and other bakery products.....	404	439	3,516	844	6,609	996,622	4,048,969	11,919,428	636,032	25,016,214	12,460,754
Brooms.....	21	18	159	125	169	49,605	170,107	338,344	6,871	710,447	371,232
Butter.....	446	854	2,082	5,446	9,774	1,184,922	2,552,111	84,242,037	862,869	96,956,244	11,851,338
Buttons.....	52	148	2,332	1,787	950	488,409	1,829,176	2,688,944	73,085	6,236,357	3,474,328
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves and sauces.....	65	100	1,820	4,246	4,740	380,957	1,285,359	6,057,843	151,385	11,694,568	5,485,330
Car and general construction and repairs, electric-railroad repair shops.....	12	20	238		820	42,265	301,537	265,405	22,531	631,738	343,802
Car and general construction and repairs, steam-railroad repair shops.....	60	802	9,999	9,673	9,981	1,933,350	15,828,588	7,948,134	876,541	26,686,613	17,861,938
Carrriages, wagons, sleighs, and sleds.....	5	14	65	100	180	28,592	65,164	132,801	8,520	288,760	147,439
Caskets, coffins, burial cases, and other morticians' goods.....	15	58	336	60	1,020	164,219	402,023	863,519	27,341	1,848,872	958,012
Cement.....	6	122	1,215	39,370	5,165	391,610	1,994,630	556,097	2,209,925	10,313,462	7,547,440
Cheese.....	12	4	11	49	25	2,016	12,531	197,229	5,725	244,317	41,368
Chemicals, not elsewhere classified.....	4	35	211		2,518	105,888	287,928	882,673	793,288	3,061,034	1,385,073
Cigars and cigarettes.....	20	26	307		20	44,325	214,129	272,458	3,899	676,297	399,940
Clay products (other than pottery) and nonclay refractories.....	42	154	1,670	2,620	10,476	410,978	1,903,722	162,989	1,363,748	5,791,175	4,274,438
Cleaning and polishing preparations.....	8	30	23	39	16	57,425	26,006	117,455	1,942	362,943	243,546
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	9	56	518		98	135,550	426,419	1,619,109	14,582	2,831,169	1,197,478
Clothing, woman's, not elsewhere classified.....	8	18	219		138	38,705	138,265	1,156,117	5,860	2,379,038	1,217,116
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	15	74	899		243	152,008	543,396	1,645,316	20,219	2,742,693	1,077,153
Coffee and spice, roasting and grinding.....	13	65	144	125	623	141,498	162,360	3,234,866	18,248	4,266,797	1,013,683
Compressed and liquefied gases.....	6	38	31		628	63,780	48,185	172,522	37,132	600,682	391,028
Concrete products.....	42	49	170		708	91,067	196,318	270,121	16,068	730,978	444,780
Condensed and evaporated milk.....	5	16	31	85	146	146	22,772	39,881	15,989	1,248,638	455,659
Confectionery.....	29	141	869	1,085	1,049	355,905	713,060	2,421,193	82,664	4,790,684	2,286,837
Cooperage.....	10	13	157		369	23,490	170,115	971,738	9,835	1,399,570	417,857
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	40	136	504	45	1,259	315,593	548,895	2,401,994	33,889	4,146,102	1,710,219

See footnotes at end of table.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Corn sirup, corn sugar, corn oil, and starch	3	237	1,491	14,294	120	Dollars 696,225	Dollars 2,039,045	Dollars 18,452,291	Dollars 1,011,900	Dollars 29,054,772	Dollars 9,590,572
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies	10	128	382	250	1,099	244,761	425,857	1,097,091	45,126	3,078,355	1,036,138
Doors, shutters, and window sash and frames, metal	3	10	20	35	35	17,965	24,186	41,157	1,638	105,126	62,331
Druggists' preparations	14	82	188	324	324	243,930	236,718	976,459	27,561	2,211,077	1,207,657
Fancy and miscellaneous articles, not elsewhere classified	4	10	59	110	110	21,620	38,896	50,248	2,612	162,821	109,961
Feeds, prepared, for animals and fowls	25	89	186	146	3,246	169,197	218,920	4,303,507	62,870	5,463,772	1,097,386
Flour and other grain-mill products	63	106	349	3,047	7,528	211,762	439,279	11,307,347	171,236	13,678,431	2,196,848
Food preparations, not elsewhere classified	9	12	48	300	183	23,727	51,043	271,129	12,096	462,930	170,714
Foundry and machine-shop products, not elsewhere classified	145	1,022	4,531	2,120	14,065	2,350,145	6,131,179	10,319,811	606,430	25,755,878	14,769,637
Fur goods	24	72	222	211	211	121,643	516,391	1,465,391	14,872	1,466,357	935,094
Furniture, including store and office fixtures	30	149	1,552	1,821	2,347	439,702	1,715,697	3,919,385	90,460	7,241,631	3,231,280
Gas, manufactured, illuminating and heating	53	395	648	5,282	2,842	562,602	756,039	954,908	1,871,852	8,191,511	5,864,761
Glass products (except mirrors) made from purchased glass	3		6		2			5,610	7,940	214	25,496
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics	8	25	333	184	184	31,090	207,858	699,970	10,130	1,097,036	386,886
Grease and tallow, not including lubricating greases	26	10	122	220	916	24,426	159,817	195,102	54,647	750,143	600,894
Hand stamps and stencils and brands	3	2	8	11	11	(*)	10,124	8,654	380	41,021	31,981
Hardware not elsewhere classified	5	54	434	150	463	189,956	404,881	508,382	32,734	1,569,947	968,781
Hats and caps, except felt and straw, men's	7	16	63	60	60	36,513	60,013	154,940	1,929	323,551	160,682
Ice cream	100	99	294	301	2,897	218,453	415,534	2,123,359	128,864	4,000,268	2,348,045
Ice, manufactured	45	97	399	2,825	7,311	228,924	504,179	120,053	380,360	2,178,790	1,078,377
Jewelry	5	7	29	13	13	8,448	30,154	13,717	773	109,854	95,364
Lime	4	10	70	731	731	31,426	115,488	29,341	33,060	322,970	290,575
Lithographing	4	45	115	255	255	133,229	181,172	293,792	8,478	700,154	487,884
Machine-tool accessories and small metal-working tools, not elsewhere classified	5	11	30	112	112	19,805	61,793	25,682	3,519	145,860	116,665
Machine tools	6	115	473	1,105	1,105	343,148	771,425	759,088	35,065	3,113,959	2,319,206
Marble, granite, slate, and other stone products	18	40	144	1,560	1,560	102,683	239,387	297,999	24,417	908,627	676,211
Mattresses and bed springs, not elsewhere classified	11	18	131	521	521	64,043	147,163	474,218	15,598	877,909	388,093
Meat packing, wholesale	24	1,117	8,063	8,286	10,348	2,583,155	10,456,050	215,454,804	1,440,589	244,725,776	27,830,293
Millinery	4	12	158	52	52	64,040	136,581	166,915	1,740	524,246	355,591
Models and patterns, not including paper patterns	4	2	26	45	45	(*)	48,710	12,802	1,415	96,538	82,231
Motor-vehicle bodies and motor-vehicle parts	17	104	371	150	847	232,304	412,804	863,259	19,266	2,010,951	1,128,420
Paints and varnishes	4	7	37	114	114	24,220	35,382	461,434	6,416	738,892	271,042
Paper goods, not elsewhere classified	5	17	55	143	143	55,263	64,457	919,386	7,227	1,235,139	308,526
Patent or proprietary medicines and compounds	54	316	324	293	1,358	589,361	302,170	1,746,220	20,559	5,127,333	3,354,554
Photo-engraving, not done in printing establishments	8	46	80	83	83	160,147	198,622	49,079	8,200	557,753	500,468
Planing-mill products (including general millwork) not made in planing mills connected with sawmills	65	613	3,525	10,650	5,480	1,393,801	3,844,704	9,771,677	105,505	18,055,508	8,178,324
Poultry killing, dressing, and packing, wholesale	85	244	1,438	169	2,900	370,585	1,365,955	18,699,643	159,135	22,839,910	3,980,943
Printing and publishing, book and job	197	483	1,469	385	1,994	1,022,095	1,959,137	2,145,354	100,193	7,561,401	5,312,871
Printing and publishing, newspaper and periodical	401	2,634	3,040	1,017	9,680	5,118,445	4,638,497	5,495,567	280,869	28,922,914	23,146,478
Pumps (hand and power) and pumping equipment	8	87	436	125	1,267	200,344	556,756	842,586	43,819	2,738,743	1,852,338
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	3	24	109	225	92	86,756	147,220	228,208	5,809	645,124	411,107
Rubber tires and inner tubes	3	40	193	1,929	1,929	97,962	191,509	796,078	58,111	1,283,166	428,977
Saddlery and harness	13	65	181	60	171	167,057	232,891	1,101,691	11,189	1,799,058	686,178
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	7	6	89	10	249	20,255	107,900	457,966	6,570	756,401	291,865
Shirts	5	13	130	50	50	23,703	85,653	435,379	2,559	798,881	360,943
Signs and advertising novelties	18	119	321	243	243	232,123	340,234	944,236	20,292	2,224,581	1,260,063
Stoves and ranges (other than electric) and warm-air furnaces	15	113	526	1,601	1,601	439,559	751,218	1,301,313	61,027	5,123,022	3,760,677
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	14	140	650	75	2,308	325,448	781,260	2,737,240	70,825	5,056,752	2,242,687
Surgical and orthopedic appliances, including artificial limbs	3	3	7	7	7	5,604	7,904	4,092	259	31,575	27,224
Tobacco: Chewing and smoking, and snuff	4	1	15	6	6	(*)	10,325	34,642	560	90,367	55,165
Tools, not including edge tools, machine tools, files, or saws	9	37	188	884	884	109,471	208,344	431,396	25,179	1,149,148	692,573
Toys (not including children's wheel goods or sleds), games, and playground equipment	5	15	93	124	124	36,056	78,366	105,981	5,237	237,591	126,373
Wall plaster, wall board, insulating board, and floor composition	8	91	605	1,125	6,372	197,269	900,079	1,739,144	555,817	4,515,826	2,220,865
Washing machines, wringers, driers, and ironing machines, for household use	9	357	2,433	6,099	6,099	1,071,832	4,336,527	13,604,547	276,694	29,738,317	15,857,076
Wirework, not elsewhere classified	11	26	212	913	913	67,506	223,236	1,219,980	30,017	1,768,401	518,404
Other industries	172	2,198	14,336	24,855	44,584	5,195,530	18,112,959	80,745,139	2,304,195	165,933,302	82,883,968

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

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

<sup>3</sup> Not including data for 708 employees of central administrative offices, with salaries aggregating \$1,967,791. See GENERAL EXPLANATIONS—Persons Engaged.

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

## CENSUS OF MANUFACTURERS: 1929

TABLE 13.—GENERAL STATISTICS FOR SELECTED COUNTIES, 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>a</sup>	Value added by manufacture <sup>b</sup>
				Prime movers	Electric motors driven by purchased energy						

## BLACK HAWK 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—"Engines, turbines, tractors, and water wheels," as measured by number of wage earners, and "Meat packing, wholesale," as measured by value of products—without disclosing, exactly or approximately, the data reported by individual establishments; and those industries for which it would be possible to publish separate figures without disclosing data for individual establishments reported less than 50 per cent of the total number of wage earners employed in all industries. Under these conditions the publication of statistics for those industries for which separate figures could be given would be misleading, and therefore no such statistics are included in this report.]

All industries, total.....	125	1,226	7,114	4,818	13,883	\$2,411,592	\$9,771,102	\$50,094,914	\$1,130,494	\$90,121,406	\$38,896,088
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## POLK COUNTY

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

All industries, total.....	341	2,951	9,656	12,995	28,397	\$6,817,038	\$12,717,310	\$61,186,410	\$2,241,243	\$103,879,503	\$50,451,850
Beverages.....	5	8	18	60	88	18,303	22,959	64,277	3,218	167,830	100,335
Bookbinding and blank-book making.....	4	8	71	54	54	23,512	85,505	71,255	2,000	291,888	218,693
Bread and other bakery products.....	34	84	600	1,077	1,077	210,170	656,063	2,130,695	117,748	4,729,365	2,480,922
Brooms.....	5	12	50	29	29	29,404	53,272	117,370	1,833	227,922	108,719
Butter.....	6	46	92	323	323	99,443	113,631	3,368,611	39,527	3,960,606	552,468
Car and general construction and repairs, steam-railroad repair shops.....	5	62	637	120	635	159,163	1,072,992	655,036	83,601	1,970,792	1,232,155
Clay products (other than pottery) and nonclay refractories.....	5	18	261	320	1,110	64,630	273,862	37,021	188,128	750,231	525,082
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	5	10	24	58	58	28,944	26,177	139,362	1,913	232,076	90,801
Doors, shutters, and window sash and frames, metal.....	3	10	20	35	35	17,965	24,186	41,157	1,638	105,126	62,331
Foundry and machine-shop products, not elsewhere classified.....	12	46	271	1,149	1,149	122,443	398,522	646,677	44,364	1,626,667	935,626
Fur goods.....	4	18	34	58	58	19,040	46,035	89,763	2,632	276,103	183,708
Furniture, including store and office fixtures.....	4	20	185	125	1,040	43,934	242,902	334,536	8,062	721,964	379,316
Ice cream.....	3	8	24	265	265	21,116	36,089	153,537	10,338	454,519	285,644
Motor-vehicle bodies and motor-vehicle parts.....	6	13	53	150	305	24,624	52,900	68,037	4,625	196,959	124,247
Patent or proprietary medicines and compounds.....	12	152	95	235	165	224,311	97,283	460,294	7,223	1,662,628	1,196,111
Planing-mill products (including general millwork), not made in planing mills connected with saw-mills.....	6	44	150	125	820	103,571	215,275	626,497	19,433	1,310,511	671,581
Printing and publishing, book and job.....	57	159	332	235	508	315,219	512,986	693,494	22,545	2,029,176	1,403,137
Printing and publishing, newspaper and periodical.....	24	1,099	938	875	3,251	2,270,829	1,538,343	2,985,278	65,255	13,384,755	10,334,222
Stoves and ranges (other than electric) and warm-air furnaces.....	6	54	190	582	582	179,295	278,301	443,771	18,181	1,287,075	825,123
Other industries.....	135	1,080	5,602	10,750	16,836	2,840,513	6,970,839	38,144,642	1,608,979	68,493,310	28,742,689

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

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

TABLE 14.—GENERAL STATISTICS FOR DES MOINES, BY INDUSTRIES: 1929

[This table gives 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 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 <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>b</sup>	Value added by manufacture <sup>c</sup>
				Prime movers	Electric motors driven by purchased energy						
All industries, total.....	330	2,802	8,813	12,995	21,963	\$6,567,566	\$11,473,650	\$50,092,904	\$1,805,810	\$98,906,779	\$47,007,056
Beverages.....	5	8	18	00	88	18,303	22,069	04,277	3,218	167,830	100,335
Bookbinding and blank-book making.....	4	8	71	---	54	23,512	85,505	71,255	2,000	291,888	218,633
Bread and other bakery products <sup>1</sup> .....	34	84	600	---	1,077	210,179	656,663	2,130,695	117,748	4,729,365	2,480,922
Brooms.....	5	12	50	---	29	29,404	53,272	117,370	1,833	227,922	108,719
Butter.....	6	46	92	---	323	99,443	113,031	3,368,611	39,527	3,960,606	552,468
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	5	10	24	---	58	28,944	26,177	130,362	1,913	232,076	90,801
Doors, shutters, and window sash and frames, metal.....	3	10	29	---	35	17,965	24,186	41,157	1,638	105,126	62,331
Foundry and machine-shop products, not elsewhere classified.....	12	46	271	---	1,149	122,443	396,522	640,677	44,364	1,626,607	935,626
Fur goods.....	4	18	34	---	58	10,640	46,638	89,763	2,632	276,103	183,708
Furniture, including store and office fixtures.....	4	20	185	125	1,040	43,934	242,902	334,586	8,062	721,904	379,316
Ice cream.....	3	3	24	---	266	21,116	36,069	158,537	10,338	454,519	285,644
Motor-vehicle bodies and motor-vehicle parts.....	6	13	53	150	305	24,624	52,900	68,087	4,625	196,959	124,247
Patent or proprietary medicines and compounds.....	12	152	95	235	165	224,311	97,288	460,294	7,223	1,662,628	1,195,111
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	6	44	150	125	820	103,571	215,275	626,497	12,433	1,310,511	671,581
Printing and publishing, book and job.....	57	159	332	235	508	315,210	512,986	603,494	22,545	2,029,176	1,403,137
Printing and publishing, newspaper and periodical <sup>1</sup> .....	24	1,099	938	875	3,251	2,270,820	1,538,343	2,985,278	65,255	13,384,755	10,384,222
Stoves and ranges (other than electric) and warm-air furnaces.....	6	54	190	---	582	179,295	278,361	443,771	18,181	1,287,075	825,123
Other industries.....	138	1,073	5,682	11,190	12,175	2,815,874	7,096,690	37,777,844	1,444,170	66,326,274	27,104,260

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

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

<sup>1</sup> The items for each of the two industries covered by this footnote include data for 2 establishments located outside the city, to avoid disclosing the figures reported by the establishments in question.

# KANSAS

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

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

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year) <sup>1</sup>	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>2</sup>	Value added by manufacture <sup>3</sup>
			Total	Prime movers	Electric motors driven by purchased energy		Total <sup>4</sup>	Materials and containers	Fuel and purchased energy		
1929	1,916	47,373	298,487	148,678	149,809	\$63,348,328	\$546,246,575	\$534,104,605	\$12,141,970	\$751,613,194	\$205,366,619
1927	1,767	45,968	270,426	140,894	132,532	56,925,089	518,141,326	502,905,148	15,140,178	681,570,334	163,429,008
1925	1,878	46,050	270,874	157,780	119,144	59,207,393	538,201,643	( <sup>5</sup> )	( <sup>5</sup> )	706,240,904	168,048,351
1923	1,780	51,255	255,555	163,441	92,114	65,056,200	444,419,887	( <sup>5</sup> )	( <sup>5</sup> )	595,029,564	150,609,671
1921	1,926	44,938	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	59,207,998	428,126,544	( <sup>5</sup> )	( <sup>5</sup> )	561,133,686	133,007,142
1919	3,474	61,049	298,945	161,657	72,288	73,060,019	750,087,987	734,546,932	15,541,055	913,667,094	163,579,107
1914	3,130	41,259	178,240	151,444	26,802	25,969,537	261,147,900	254,918,713	6,229,277	323,234,104	62,086,204
1909	3,435	44,215	212,388	200,670	11,809	25,993,960	258,833,700	254,202,938	4,630,748	325,104,002	66,220,296
1904	2,475	35,570	99,085	96,601	2,484	18,833,071	156,506,949	153,442,878	3,067,071	198,244,902	41,735,043
1899	2,299	27,119	68,079	66,659	1,420	12,802,096	120,737,677	( <sup>6</sup> )	( <sup>6</sup> )	154,008,544	33,270,867
PER CENT OF INCREASE OR DECREASE (-)											
1927-1929	8.4	4.4	6.8	1.2	13.0	5.7	5.4	6.2	-19.8	10.3	25.7
1925-1927	-5.0	-2.8	0.9	-6.9	11.2	1.2	-3.7			-3.5	-2.7
1923-1925	5.2	-9.0	8.3	-3.5	29.3	-0.0	21.1			18.7	11.6
1921-1923	-7.3	14.1				9.9	3.8			6.0	13.2
1919-1921	-44.6	-26.4				-19.0	-42.9			-38.6	-18.7
1919-1929	-44.8	-22.4	27.6	-8.0	107.2	-13.3	-27.2	-27.3	-21.9	-17.7	25.5
1909-1919	1.1	38.1	10.1	-18.4	512.1	182.0	189.7	180.0	232.0	181.0	147.0
1899-1909	49.4	63.0	212.0	200.9	731.6	102.3	114.4			111.1	99.0

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

TABLE 2.—SUMMARY FOR KANSAS CITY INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horsepower <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
The State	1,880,999	1,916	47,373	298,487	\$63,348,328	\$546,246,575	\$534,104,605	\$12,141,970	\$751,613,194	\$205,366,619
Kansas City Industrial Area, <sup>3</sup> total	638,476	1,169	43,332	214,781	63,705,471	511,338,467	503,267,055	8,071,412	741,237,697	229,899,530
Portion in Kansas	141,211	170	14,035	74,919	19,425,660	258,684,006	255,980,481	2,703,525	316,873,605	58,189,590
Portion in Missouri	497,265	999	34,297	139,862	44,279,811	252,654,461	247,286,574	5,367,887	424,364,392	171,709,931
<i>Counties in Kansas <sup>4</sup></i>										
Allen	21,391	26	1,028	23,163	1,193,219	3,586,771	2,579,498	1,007,273	9,130,443	5,543,672
Anderson	13,355	16	113	676	105,808	453,950	447,020	11,924	760,160	301,210
Atchison	23,945	37	998	6,420	1,284,280	11,770,791	11,505,244	265,547	15,676,305	3,905,514
Barber	10,178	7	80	1,101	78,881	542,831	515,910	26,921	1,095,167	552,336
Barton	19,776	22	519	2,158	742,145	4,731,285	4,646,629	84,656	6,730,326	1,999,041
Bourbon	22,386	29	781	3,123	974,806	2,840,563	2,721,577	118,986	4,751,532	1,910,969
Butler	36,904	30	881	5,597	1,291,374	19,498,910	19,298,843	200,067	28,169,697	8,661,787
Chase	6,952	5	17	61	18,269	91,577	86,234	5,343	149,101	57,624
Chautauqua	10,352	5	95	837	106,646	45,025	16,049	29,635	241,688	196,063
Clay	14,556	18	133	584	130,348	1,236,851	1,221,506	15,345	1,678,327	441,976
Cloud	18,006	26	153	1,658	185,962	1,856,165	1,797,983	58,172	2,771,990	915,835
Coffey	13,653	7	30	101	29,372	257,880	253,758	4,122	374,321	116,441
Comanche	5,238	6	11	42	10,524	20,233	18,340	1,893	59,503	39,270
Cowley	40,903	47	1,178	8,432	1,694,347	23,447,940	23,118,282	329,658	32,429,568	8,931,628
Crawford	49,329	57	1,365	5,666	1,866,906	3,594,976	3,374,862	220,113	7,396,401	3,801,426

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—SUMMARY FOR KANSAS CITY INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929—Con

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Counties in Kansas—Continued</i>										
Decatur	8,806	7	17	104	\$18,090	\$82,439	\$78,391	\$4,048	\$145,587	\$63,148
Dickinson	25,870	38	575	2,832	808,632	4,791,217	4,706,093	85,124	6,717,004	1,925,787
Doniphan	14,063	5	17	230	8,809	41,632	40,503	969	69,051	27,519
Douglas	25,143	38	407	2,451	619,354	3,655,702	3,434,545	121,167	5,413,283	1,857,581
Edwards	7,295	6	17	204	20,303	181,622	176,791	4,831	283,267	101,645
Elk	9,210	5	7	102	6,432	14,192	11,810	2,382	43,729	29,537
Ellis	15,907	9	128	755	203,498	1,224,814	1,192,598	32,215	1,820,734	595,920
Ellsworth	10,132	14	193	1,774	224,185	1,542,026	1,494,443	47,583	2,185,741	643,715
Finney	11,014	9	110	5,060	119,498	811,974	753,673	58,301	1,188,671	370,997
Ford	20,647	20	108	880	137,868	1,269,110	1,242,988	26,122	1,932,979	603,869
Franklin	22,024	16	277	1,233	320,220	1,945,989	1,893,099	52,890	3,122,757	1,176,768
Geary	14,366	12	200	1,375	310,662	1,080,988	1,041,385	39,603	1,809,132	728,144
Greenwood	19,235	11	39	404	44,386	189,888	181,904	7,984	330,206	140,318
Harper	12,823	10	73	1,265	81,988	1,870,129	1,840,928	29,201	2,707,285	837,156
Harvey	22,120	19	532	2,957	794,983	4,589,662	4,474,397	115,265	6,999,670	2,410,018
Jackson	14,776	12	59	301	54,668	278,936	269,607	9,329	455,987	177,031
Jefferson	14,129	3	6	18	5,984	3,179	2,655	524	21,433	21,264
Jewell	14,462	5	8	19	10,888	8,998	7,069	1,929	45,500	30,502
Johnson	27,179	14	85	402	90,843	460,240	443,867	16,383	823,810	364,570
Kearny	3,196	4	14	253	11,073	84,732	77,800	6,932	110,150	25,418
Labette	31,340	34	1,166	7,607	1,710,574	4,176,773	4,054,782	120,991	6,007,802	2,732,080
Leavenworth	42,673	46	1,162	5,207	1,259,438	5,458,336	5,301,536	156,800	8,120,809	2,661,973
Lincoln	9,707	5	11	207	10,216	91,840	90,670	1,164	144,184	52,344
Logan	4,145	5	21	123	32,452	104,802	99,534	5,268	188,792	83,690
Lyon	29,240	28	158	1,127	200,651	680,647	639,960	40,687	1,206,648	586,101
McPherson	23,588	22	136	2,469	153,767	2,843,033	2,800,889	42,144	3,902,143	1,050,110
Marion	20,789	19	67	616	402,990	71,815	389,800	13,130	633,695	230,705
Marshall	23,056	27	270	1,802	327,088	1,584,988	1,512,549	72,439	2,468,327	883,389
Miami	21,243	14	423	1,373	456,455	610,622	409,228	47,227	1,240,051	783,596
Mitchell	12,774	10	32	395	37,985	610,434	599,587	10,847	840,640	230,106
Montgomery	51,411	88	3,332	27,494	4,561,084	23,935,608	21,993,017	1,942,651	42,745,567	18,809,899
Morton	4,092	5	13	141	14,635	80,790	77,015	3,775	130,624	40,834
Nemaha	18,842	14	67	155	56,343	520,511	513,180	18,131	692,284	165,973
Neosho	22,665	24	591	9,813	329,341	3,113,181	2,648,282	464,899	5,876,575	2,703,394
Norton	11,701	12	67	324	70,707	685,930	671,032	14,904	902,600	210,564
Osage	17,538	14	67	448	59,142	248,212	241,993	6,219	401,183	152,971
Osborne	11,568	12	48	278	47,047	323,193	316,833	6,360	446,744	123,551
Ottawa	9,819	6	19	738	25,834	302,881	298,852	4,029	443,323	140,442
Phillips	12,159	8	26	332	31,043	36,604	31,479	5,125	105,160	68,556
Pottawatomie	15,862	10	26	320	31,857	57,682	53,388	4,194	130,065	72,483
Rawlins	7,362	3	0	57	8,560	27,183	25,811	1,372	59,641	32,458
Reno	47,735	61	1,401	14,275	1,603,941	12,857,325	12,233,434	623,891	19,795,888	6,938,063
Republic	14,745	12	40	339	56,429	103,748	95,688	8,060	256,770	152,028
Rice	13,800	12	314	2,788	361,083	2,768,226	2,582,475	185,751	4,488,258	1,720,082
Riley	10,882	25	137	896	150,600	694,480	675,478	19,002	1,133,128	438,648
Rooks	9,534	4	16	40	10,698	36,760	31,230	5,530	87,850	51,090
Saline	29,337	55	748	5,833	942,865	14,900,179	14,063,205	286,974	19,848,058	4,447,879
Scott	3,976	4	12	35	6,429	28,961	28,961	0	60,833	31,872
Sedgwick	136,330	230	5,925	20,964	7,021,268	59,455,035	58,553,733	901,302	84,989,894	25,534,869
Seward	8,075	6	34	370	80,731	446,268	440,520	5,748	716,249	269,981
Shawnee	85,200	119	3,847	12,982	5,521,807	24,592,569	24,058,371	534,198	39,457,938	14,805,369
Sherman	7,400	6	134	458	189,911	123,255	99,540	23,715	394,326	271,071
Smith	13,545	5	20	96	26,103	180,952	180,389	6,613	289,276	102,324
Sumner	28,960	22	356	2,686	598,888	4,954,181	4,879,980	74,201	6,546,649	1,592,468
Thomas	7,334	5	14	95	12,502	44,883	43,860	1,023	84,697	39,814
Wabaunsee	10,830	7	11	32	10,516	14,206	13,115	1,091	49,133	34,927
Washington	17,112	11	66	150	73,076	490,803	481,082	9,721	680,317	189,514
Wilson	18,646	31	800	10,765	1,018,698	9,459,456	8,932,007	527,449	13,554,353	4,094,897
Woodson	8,528	4	14	95	13,336	22,533	20,097	2,436	55,446	30,913
Wyandotte	141,211	170	14,035	74,919	10,425,660	258,684,006	255,950,481	2,703,525	316,873,605	58,189,596
All other counties	239,360	119	1,479	6,637	2,023,492	12,628,314	12,374,738	258,576	17,472,518	4,844,204
<i>Cities in Kansas having 10,000 inhabitants or more</i> <sup>3</sup>										
Arkansas City	13,946	27	616	5,418	952,091	13,235,908	13,110,860	125,048	19,078,122	5,842,214
Atchison	13,024	34	886	6,275	1,086,716	11,626,126	11,369,849	256,277	15,216,423	3,590,297
Chanute	10,277	14	114	881	137,535	187,463	163,931	23,532	855,229	967,766
Coffeyville	16,198	34	1,324	6,970	1,858,351	10,241,194	9,985,722	255,472	20,081,474	9,790,280
Dodge City	10,059	17	105	868	135,024	1,260,142	1,234,203	25,939	1,904,639	644,497
El Dorado	10,311	16	88	494	107,282	231,784	216,571	15,213	560,870	338,086
Hutchinson	27,085	61	1,006	7,801	1,131,318	10,919,781	10,577,444	342,337	15,818,888	4,899,107
Independence	12,782	28	347	1,311	401,621	625,684	620,512	105,172	1,524,909	899,225
Kansas City	121,857	150	13,187	67,630	18,233,293	255,750,381	253,497,641	2,262,740	311,236,022	55,485,641
Lawrence	13,728	33	400	2,350	511,500	3,820,840	3,410,975	118,874	5,346,946	1,817,097
Leavenworth	17,466	42	984	4,397	1,083,174	4,172,823	4,045,137	127,686	6,492,124	2,319,301
Manhattan	10,136	20	125	833	1,444,374	635,294	618,054	17,240	1,032,973	397,679
Newton	11,034	15	523	2,891	785,003	4,486,274	4,373,997	112,277	6,861,864	2,375,590
Parsons	14,903	25	1,011	6,681	1,519,721	3,940,761	3,831,939	108,822	6,233,964	2,293,203

See footnotes at end of table.



TABLE 2.—SUMMARY FOR KANSAS CITY INDUSTRIAL AREA AND FOR COUNTIES AND CITIES: 1929—Con.

	Population, 1930	Number of establishments	Wage earners (average for the year) <sup>1</sup>	Horse-power <sup>2</sup>	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
						Total	Materials and containers	Fuel and purchased energy		
<i>Cities in Kansas having 10,000 inhabitants or more<sup>3</sup>—Continued</i>										
Pittsburg	18, 145	35	1, 124	4, 231	\$1, 618, 331	\$2, 139, 272	\$2, 025, 728	\$163, 544	\$6, 135, 042	\$2, 945, 770
Salina	20, 155	51	735	5, 676	926, 971	14, 531, 130	14, 298, 629	232, 501	18, 865, 371	4, 334, 241
Topeka	64, 120	119	3, 847	12, 932	5, 521, 807	24, 592, 569	24, 058, 371	534, 198	39, 457, 938	14, 865, 360
Wichita <sup>4</sup>	111, 110	219	4, 467	17, 814	6, 890, 028	43, 095, 823	42, 438, 846	650, 977	62, 213, 241	19, 117, 418

<sup>1</sup> Not including salaried employees.  
<sup>2</sup> Rated capacity of prime movers plus rated capacity of electric motors driven by purchased energy.  
<sup>3</sup> The Kansas City Industrial Area comprises Jackson and Clay Counties, Mo., and Wyandotte County, Kans. For statistics by industries for the area and for Wyandotte County, see Table 13.  
<sup>4</sup> Statistics are presented for each county in which 10 wage earners or more were employed and for which it is possible to publish separate figures without disclosing approximations of the data supplied by individual establishments, and combined figures are given for the remaining counties as a single group ("All other counties"). Certain of the counties for which combined figures are given, however, reported larger numbers of wage earners or larger values of products than some of those shown separately. In the cases of Elk, Jefferson, Jewell, and Rawlins Counties, in which fewer than 10 wage earners were employed, statistics are here presented in order that comparison may be made with the corresponding figures for 1927 (published in mimeographed form).  
<sup>5</sup> Brown, Cherokee, Cheyenne, Clark, Gove, Graham, Grant, Gray, Hamilton, Haskell, Hodgeman, Kingman, Kiowa, Lane, Linn, Meade, Morris, Ness, Pawnee, Pratt, Rush, Russell, Sheridan, Stafford, Stevens, Trego, Wallace, and Wichita Counties. See footnote 4. No manufacturing was reported from Greeley and Stanton Counties.  
<sup>6</sup> Not including Emporia and Port Scott, each of which reported more than 10,000 inhabitants at the census of 1930. It is necessary to withhold the figures for these cities from separate publication to avoid disclosing approximations of the data for individual establishments.  
<sup>7</sup> See explanatory note for Wyandotte County, Table 13, p. 8.  
<sup>8</sup> Because of the amount of manufacturing industry in this city, it had been planned to publish statistics by industries for it. It is found, however, that no figures can be given for the 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.

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

CENSUS YEAR	ALL CLASSES			PROPRIETORS AND FIRM MEMBERS			PRINCIPAL SALARIED OFFICERS OF CORPORATIONS			OTHER SALARIED OFFICERS AND EMPLOYEES			WAGE EARNERS (AVERAGE FOR THE YEAR)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1929 <sup>1</sup>	58, 619	52, 290	6, 329	1, 278	1, 191	87	2, 858	2, 804	54	29, 110	26, 867	2, 243	47, 373	43, 428	3, 945
1919 <sup>2</sup>	77, 009	68, 137	8, 872	3, 592	3, 405	187	838	808	30	11, 560	9, 104	2, 456	61, 049	54, 820	6, 229
1914 <sup>3</sup>	52, 032	47, 462	4, 570	3, 247	3, 122	125	520	514	6	7, 000	5, 949	1, 051	41, 259	37, 877	3, 382
1909	54, 649	50, 156	4, 493	3, 571	3, 440	131	559	514	45	6, 304	5, 334	970	44, 215	40, 888	3, 327

<sup>1</sup> No data in regard to sex of persons engaged in manufacturing industries were collected for any years between 1919 and 1929.  
<sup>2</sup> Not including employees of central administrative offices, as follows: Principal salaried officers of corporations—total, 29; male, 28; female, 1. Other salaried officers and employees—total, 234; male, 110; female, 124. The corresponding data for 1919 and earlier years are included in the respective items for those years but were not tabulated separately. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>3</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14. See GENERAL EXPLANATIONS—Persons Engaged.  
<sup>4</sup> Data for "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	47, 373	<i>45, 659</i>	46, 010	45, 760	47, 029	48, 163	<b>49, 101</b>	48, 835	49, 059	48, 649	48, 007	46, 428	45, 827	92.9
1919	61, 049	62, 187	58, 723	58, 037	<i>56, 503</i>	58, 334	59, 551	60, 242	61, 966	62, 762	63, 411	66, 069	64, 813	85.5
1914	41, 259	40, 351	<i>39, 748</i>	39, 986	40, 170	40, 681	41, 295	42, 301	41, 834	42, 288	42, 750	42, 200	41, 354	93.0
1909	44, 215	<i>41, 337</i>	41, 621	42, 554	42, 697	43, 462	44, 411	44, 075	44, 817	46, 105	46, 879	46, 594	46, 228	88.6

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

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

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

PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)	PREVAILING HOURS OF LABOR PER WEEK	Number of establishments	Wage earners (average for the year)
All classes	1, 916	47, 373	45 and over but under 48	28	986
Not reported	293	728	48	460	21, 296
Under 40	21	98	Over 48 but under 54	130	4, 245
40	9	362	54	224	4, 585
Over 40 but under 44	3	21	Over 54 but under 60	127	6, 967
44 and over but under 45	142	2, 788	60 and over	489	5, 302

CENSUS OF MANUFACTURES: 1929

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.....	1,916	3,474	3,435	47,373	61,049	44,215	51 to 100.....	70	76	70	4,706	5,342	4,798
No wage earners.....	49	671	546				101 to 250.....	54	49	41	8,241	7,006	6,374
1 to 5.....	1,009	1,974	2,152	2,788	3,950	4,275	251 to 500.....	26	21	14	9,380	6,922	4,820
6 to 20.....	465	484	440	5,079	5,160	4,781	501 to 1,000.....	5	11	7	3,127	8,069	5,072
21 to 50.....	173	181	160	5,390	5,880	5,033	1,001 to 2,500.....	4			18,662	18,640	9,112
							2,501 and over.....	1	7	5			

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

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

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

VALUE OF PRODUCTS	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (AVERAGE FOR THE YEAR)			VALUE OF PRODUCTS			VALUE ADDED BY MANUFACTURE <sup>1</sup>		
	1929	1919	1909	1929	1919	1909	1929	1919	1909	1929	1919	1909
All establishments.....	1,916	3,474	3,435	47,373	61,049	44,215	\$751,613,194	\$913,667,094	\$325,104,002	\$205,366,619	\$163,579,107	\$66,220,206
Less than \$5,000.....	( <sup>2</sup> )	1,136	1,645	( <sup>2</sup> )	640	1,684	( <sup>2</sup> )	2,890,511	3,867,954	( <sup>2</sup> )	1,798,200	2,386,459
\$5,000 to \$19,999.....	816	1,200	1,002	1,882	2,612	3,425	8,947,588	12,255,265	9,809,793	5,621,302	6,600,446	5,083,622
\$20,000 to \$99,999.....	603	639	491	4,510	5,021	7,411	27,440,610	28,142,681	21,493,918	14,936,878	11,889,467	9,596,074
\$20,000 to \$49,999.....	398	( <sup>3</sup> )	( <sup>3</sup> )	2,249	( <sup>3</sup> )	( <sup>3</sup> )	12,870,529	( <sup>3</sup> )	( <sup>3</sup> )	7,476,676	( <sup>3</sup> )	( <sup>3</sup> )
\$50,000 to \$99,999.....	205	( <sup>3</sup> )	( <sup>3</sup> )	2,261	( <sup>3</sup> )	( <sup>3</sup> )	14,564,081	( <sup>3</sup> )	( <sup>3</sup> )	7,460,202	( <sup>3</sup> )	( <sup>3</sup> )
\$100,000 to \$499,999.....	297	289		8,795	10,127		60,194,402	66,111,849		31,767,314	25,056,257	
\$100,000 to \$249,999.....	188	( <sup>3</sup> )		4,195	( <sup>3</sup> )		29,634,450	( <sup>3</sup> )		15,436,847	( <sup>3</sup> )	
\$250,000 to \$499,999.....	109	( <sup>3</sup> )	263	4,600	( <sup>3</sup> )	15,475	39,560,042	( <sup>3</sup> )	85,547,057	16,330,467	( <sup>3</sup> )	22,639,748
\$500,000 to \$999,999.....	83	72		5,373	5,374		59,828,686	61,751,227		19,875,850	13,474,328	
\$1,000,000 and over.....	117	138	34	26,813	37,275	16,220	586,201,818	752,515,561	204,385,280	133,165,275	104,700,409	26,514,393
\$1,000,000 to \$2,499,999.....	74	( <sup>3</sup> )	( <sup>3</sup> )	8,783	( <sup>3</sup> )	( <sup>3</sup> )	116,472,600	( <sup>3</sup> )	( <sup>3</sup> )	38,633,130	( <sup>3</sup> )	( <sup>3</sup> )
\$2,500,000 to \$4,999,999.....	20	( <sup>3</sup> )	( <sup>3</sup> )	3,464	( <sup>3</sup> )	( <sup>3</sup> )	69,075,538	( <sup>3</sup> )	( <sup>3</sup> )	20,546,129	( <sup>3</sup> )	( <sup>3</sup> )
\$5,000,000 and over.....	23	( <sup>3</sup> )	( <sup>3</sup> )	14,666	( <sup>3</sup> )	( <sup>3</sup> )	400,653,680	( <sup>3</sup> )	( <sup>3</sup> )	73,935,966	( <sup>3</sup> )	( <sup>3</sup> )

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

<sup>2</sup> No data.

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

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

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

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	1929	1919	1929	1919	1929	1919	1929	1919
Total.....	1,916	3,474	47,373	61,049	\$751,613,194	\$913,667,094	\$205,366,619	\$163,579,107
TYPE OF OWNERSHIP OR CONTROL								
Corporate ownership or control.....	774	781	41,323	52,651	701,146,614	849,071,270	179,034,813	141,898,951
Other forms of ownership or control (individual, partnership, etc.).....	1,142	2,693	6,045	8,398	50,466,580	64,595,824	26,331,806	21,680,156
TYPE OF OPERATION								
Central-administrative-office (plural-unit).....	320	( <sup>1</sup> )	29,750	( <sup>1</sup> )	529,741,435	( <sup>1</sup> )	123,042,449	( <sup>1</sup> )
Independent (single-unit).....	1,596	( <sup>1</sup> )	17,623	( <sup>1</sup> )	221,871,759	( <sup>1</sup> )	82,324,170	( <sup>1</sup> )

<sup>1</sup> Not tabulated.

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

	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY											ELECTRIC MOTORS DRIVEN BY ENERGY GENERATED IN ESTABLISHMENTS REPORTING			
	Aggregate horsepower	Total horsepower of prime movers	Prime movers								Electric motors driven by purchased energy				
			Steam engines		Steam turbines		Internal-combustion engines		Water wheels and water turbines		Number			Horsepower	
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower					
The State:															
1929	298,487	148,678	651	60,097	91	48,042	217	20,084	17	2,455	15,571	149,209	4,607	83,006	
1927	270,426	146,894	589	72,481	92	42,091	251	28,281	28	4,041	12,430	182,532	4,008	74,839	
1925	270,874	157,730	609	79,102	72	44,553	255	29,276	42	4,790	10,512	110,144	3,574	76,049	
1919 <sup>1</sup>	233,945	161,657	1,018	112,561	60	16,968	708	26,731	76	6,337	6,988	72,288	2,544	48,280	
1914	178,246	151,444	997	123,076	( <sup>2</sup> )	( <sup>2</sup> )	956	22,041	72	6,328	3,221	26,802	2,175	37,380	
Kansas City Industrial Area, total	214,781	58,683	226	39,307	50	15,620	41	1,750			15,063	168,098	3,993	33,504	
Portion in Kansas (Wyandotte County)	74,919	24,690	75	17,045	20	6,980	13	685			3,516	50,229	1,105	13,839	
Portion in Missouri (Jackson and Clay Counties)	139,862	31,993	151	22,262	30	8,040	28	1,065			11,547	107,869	2,888	20,071	
Counties in which aggregate horsepower exceeded \$5,000: 1929															
Montgomery	27,494	19,400	58	4,467	19	10,398	31	4,505			753	8,094	660	14,685	
Wyandotte	74,919	24,690	75	17,045	20	6,980	13	685			3,516	50,229	1,105	13,839	

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

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

[This table presents statistics for each county for which separate figures are given in Table 2. See footnotes 4 and 5 on that table]

COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>	COUNTY	PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY			Electric motors—plant energy <sup>1</sup>
	Aggregate	Prime movers	Electric motors			Aggregate	Prime movers	Electric motors	
The State	298,487	148,078	149,809	83,008	Lincoln	207	200	7	
Allen	23,193	16,718	6,445	12,960	Logan	123	30	93	
Anderson	376	275	401		Lyon	1,127	105	1,022	
Atchison	6,420	435	5,985		McPherson	2,469	1,525	944	20
Barber	1,101	1,037	84	608	Marion	616	240	376	( <sup>2</sup> )
Barton	2,168	1,552	606	612	Marshall	1,802	253	1,549	10
Bourbon	3,123	1,140	1,983	( <sup>2</sup> )	Miami	1,373	303	1,070	30
Butler	5,697	1,540	4,057		Mitchell	395	180	215	
Chase	61		61		Montgomery	27,494	19,400	8,094	14,685
Chautauqua	837	811	26	437	Morton	141	60	81	
Clay	584	95	489		Nemaha	155	80	75	25
Cloud	1,658	647	1,011	70	Neosho	9,813	9,034	779	9,730
Coffey	101	10	91		Norton	324	185	139	( <sup>2</sup> )
Comanche	42	25	17		Osage	448	316	138	
Cowley	8,482	2,886	5,596	312	Osborne	278	152	126	
Crawford	6,666	2,640	3,026	2,955	Ottawa	738	670	68	
Decatur	104		104		Phillips	332	200	42	
Dickinson	2,832	1,075	857	535	Pottawatomie	320	125	195	
Doniphan	230	200	30		Rawlins	57	50	7	
Douglas	2,451	766	1,685		Reno	14,275	6,772	7,503	992
Edwards	204		204		Republic	339	187	152	
Elk	162		162		Rice	2,788	643	2,145	630
Ellis	755	475	280	115	Riley	865	107	758	
Ellsworth	1,774	1,276	499	177	Rooks	40		40	
Finney	6,660	5,383	277	1,650	Saline	5,893	1,350	4,503	50
Ford	380	498	382	30	Scott	35	4	31	
Franklin	1,263	130	1,133		Sedgwick	20,964	6,922	14,042	3,495
Geary	1,375	500	875	235	Seward	370	340	30	( <sup>2</sup> )
Greenwood	404	185	219		Shawnee	12,082	6,445	6,537	3,852
Harper	1,265	1,054	211	220	Sherman	438	390	68	181
Harvey	2,957	1,282	1,675	273	Smith	90		96	
Jackson	301	120	181		Sumner	2,680	2,375	311	307
Jefferson	18		18		Thomas	95	9	86	
Jewell	19		19		Wabaunsee	32	5	27	
Johnson	402		402		Washington	150	17	142	
Kearny	253		253		Wilson	10,765	9,785	985	5,281
Labette	7,607	5,440	2,167	3,048	Woodson	95	80	15	
Leavenworth	5,207	2,780	2,427	1,371	Wyandotte	74,919	24,690	50,229	13,839
					All other counties	6,637	3,461	3,176	702

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

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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 <sup>1</sup>	1923 <sup>1</sup>	1919 <sup>1</sup>	1914 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity	Quantity	Quantity	Quantity
Fuel:							
Coal, total <sup>2</sup> (tons, 2,000 lbs.)	636,569	\$2,072,106	871,706	979,650	1,410,002	1,156,088	1,002,860
Anthracite (tons, 2,240 lbs.)	32,557	137,362	( <sup>3</sup> )	30,406	4,213	16,318	38,472
Bituminous (tons, 2,000 lbs.)	600,105	1,904,744	( <sup>3</sup> )	945,595	1,403,043	1,138,712	960,771
Coke (tons, 2,000 lbs.)	30,871	240,462	( <sup>3</sup> )	( <sup>3</sup> )	60,523	32,832	22,737
Fuel oils, including crude oils and gas oils (galls.) <sup>4</sup>	128,354,035	2,417,125	( <sup>3</sup> )	( <sup>3</sup> )	133,089,860	76,470,816	52,120,278
Gasoline and kerosene (galls.) <sup>4</sup>	195,137	30,400	( <sup>3</sup> )	( <sup>3</sup> )	399,136		
Gas, natural (M cu. ft.)	31,453,250	5,184,202	( <sup>3</sup> )	( <sup>3</sup> )			
Gas, manufactured (M cu. ft.)	4,866,226	717,701	( <sup>3</sup> )	( <sup>3</sup> )	13,022,876	16,590,302	35,789,687
Other fuels		68,428	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Electric energy purchased (kw.-hours)	221,312,760	3,698,465	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Total cost of fuel and purchased energy		\$14,428,970	Cost \$15,146,178	Cost ( <sup>3</sup> )	Cost \$15,541,055	Cost \$6,229,277	Cost \$4,680,748

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

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

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

<sup>4</sup> No data.

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

<sup>6</sup> Data incomplete.

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

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

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

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

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
All Industries, total	1,910	9,968	47,373	148,678	140,809	\$21,861,198	\$63,348,328	\$584,104,005	\$12,141,970	\$751,613,104	\$205,366,619
Agricultural implements	10	38	125	40	348	127,316	133,219	277,434	12,470	887,925	598,021
Aircraft and parts	11	203	913		801	493,736	1,044,739	3,072,558	28,108	6,170,991	3,070,325
Awnings, tents, sails, and canvas covers	15	33	97		59	35,220	99,432	257,304	2,837	593,771	333,630
Bags, other than paper, not made in textile mills	3	28	153		315	66,902	119,678	1,946,123	6,865	2,208,606	256,627
Beverages	66	43	211	15	437	93,996	228,131	534,832	20,415	1,333,213	821,968
Boots and shoes, other than rubber	6	12	77		24	25,447	30,420	148,826	3,453	875,167	223,899
Bread and other bakery products	262	172	1,791	21	4,163	368,558	2,070,708	5,397,474	274,228	11,608,039	5,990,837
Brooms	8	9	68		96	16,523	65,538	125,767	2,569	283,154	164,838
Butter	70	244	637	318	3,770	436,752	730,330	22,448,761	248,014	26,968,057	4,271,282
Canning and preserving: Fruits and vegetables, pickles, jellies, preserves, and sauces	3	1	16		20	( <sup>3</sup> )	3,130	15,526	294	25,448	9,628
Car and general construction and repairs, electric-railroad repair shops	6	9	43		107	16,840	55,647	37,638	974	111,099	72,487
Car and general construction and repairs, steam-railroad repair shops	36	742	8,810	13,830	6,613	1,011,874	13,375,252	10,851,508	781,647	27,456,328	15,793,173
Cars, electric and steam railroad, not built in railroad repair shops	7	58	543	5	2,682	99,624	822,753	2,474,831	41,449	3,650,077	1,172,797
Caskets, coffins, burial cases, and other morticians' goods	4	20	67		84	59,977	75,606	362,692	3,226	735,568	369,650
Cement	8	208	1,176	32,771	11,338	658,650	1,563,330	1,551,200	2,116,857	11,241,899	7,873,746
Cheese	9	4	16	20	08	3,700	20,300	333,566	10,247	476,857	85,044
Cigars and cigarettes	6	2	92		4	( <sup>3</sup> )	39,499	74,162	756	194,970	120,052
Clay products (other than pottery) and nonclay refractories	23	98	1,101	5,366	3,142	224,853	1,180,502	137,080	670,569	3,275,469	2,467,820
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	3	8	38		9	9,323	32,143	70,971	498	129,832	58,363
Clothing, women's, not elsewhere classified	4	10	35		9	9,227	10,819	27,252	848	58,838	30,738
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	7	11	291		110	30,250	147,225	423,040	6,119	735,789	366,630
Coffee and spice, roasting and grinding	17	40	62		298	81,214	70,992	1,154,710	9,860	1,546,145	331,675
Compressed and liquefied gases	6	30	29	270	387	64,061	45,085	139,077	40,703	585,146	405,366
Concrete products	33	45	223	34	393	102,680	242,711	387,732	13,506	1,136,703	735,555
Condensed and evaporated milk	9	27	110	1,197	530	48,233	140,851	2,427,846	73,152	3,622,108	1,021,110
Confectionery	10	19	164	100	225	57,583	130,014	501,927	45,829	1,066,535	518,779
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	15	45	133		405	121,730	233,658	768,169	8,198	1,637,631	861,264
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies	4	4	18		62	6,600	17,244	48,735	570	106,916	57,611
Druggists' preparations	14	41	110	10	202	127,270	145,300	637,369	11,025	1,401,373	722,079
Electrical machinery, apparatus, and supplies	5	21	64		152	33,992	95,366	263,208	8,985	436,435	164,202
Feeds, prepared, for animals and fowls	23	87	179	287	2,974	172,571	208,872	4,957,361	51,783	6,399,594	1,390,450
Flour and other grain-mill products	140	818	2,401	21,701	26,964	2,106,618	3,257,559	95,772,051	1,173,244	121,365,753	24,420,468
Food preparations; not elsewhere classified	6	6	24		34	8,100	25,411	121,523	1,846	194,140	70,771
Foundry and machine-shop products, not elsewhere classified	75	371	2,523	756	9,119	856,023	3,385,449	5,585,376	367,339	15,206,477	9,253,762
Furniture, including store and office fixtures	15	51	521	990	876	100,091	517,476	787,113	28,348	1,724,714	909,253
Grease and tallow, not including lubricating greases	3	17	86	160	697	42,362	126,575	322,692	27,883	723,719	373,144

See footnotes at end of table.

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

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT		Salaries	Wages	Cost of materials and containers for products <sup>1</sup>	Cost of fuel and purchased electric energy	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
				Prime movers	Electric motors driven by purchased energy						
Ice cream.....	65	112	281	615	2,351	\$228,697	\$360,693	\$1,640,941	\$102,968	\$3,013,004	\$1,869,696
Ice, manufactured.....	118	184	324	15,176	7,823	350,172	1,042,186	257,464	581,790	3,838,107	2,098,853
Lubricating oils and greases, not made in petroleum refineries.....	6	33	35	80	94	114,269	47,590	600,375	9,384	1,132,182	521,923
Lumber and timber products, not elsewhere classified.....	4	23	122	207	448	67,507	150,633	825,224	2,508	1,368,603	539,371
Marble, granite, slate, and other stone products.....	13	32	108	-----	775	86,079	196,137	302,074	17,622	766,965	447,269
Mattresses and bed springs, not elsewhere classified.....	12	20	108	-----	339	42,704	131,436	378,498	7,833	683,022	206,641
Meat packing, wholesale.....	28	1,933	9,008	18,633	20,243	3,916,735	11,822,936	239,093,342	1,483,639	273,586,689	39,099,708
Motor vehicles, not including motorcycles.....	3	9	29	120	120	16,300	39,588	138,806	3,347	281,067	138,904
Patent or proprietary medicines and compounds.....	13	16	54	-----	50	39,954	56,826	105,015	2,469	291,671	184,097
Petroleum refining.....	15	484	3,113	14,325	12,084	1,282,572	4,818,074	64,986,360	1,058,635	98,329,442	32,285,447
Photo-engraving, not done in printing establishments.....	4	17	44	-----	23	53,873	87,747	23,171	1,814	239,315	214,330
Planing-mill products (including general mill-work) not made in planing mills connected with sawmills.....	39	106	505	482	2,688	250,150	698,267	1,085,055	43,137	2,826,899	1,098,707
Poultry killing, dressing, and packing, wholesale.....	34	133	789	312	1,141	253,021	742,701	9,790,555	92,516	11,832,336	1,979,255
Printing and publishing, book and job.....	114	179	606	7	907	359,569	862,517	984,429	39,689	3,432,863	2,408,245
Printing and publishing, newspaper and periodical.....	307	1,744	2,068	188	3,073	3,015,206	3,053,408	3,150,786	169,518	10,829,411	13,509,107
Pumps (hand and power) and pumping equipment.....	4	24	72	-----	190	46,120	101,057	180,920	5,397	416,102	249,785
Saddlery and harness.....	7	5	43	-----	62	21,520	61,507	181,058	1,272	386,672	154,642
Salt.....	10	126	801	6,303	4,222	249,360	886,249	1,226,179	516,141	5,201,703	3,460,883
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	4	4	63	-----	102	15,220	72,719	339,874	6,868	524,478	177,746
Shirts.....	3	12	55	-----	9	32,192	46,268	72,140	1,200	236,236	162,896
Signs and advertising novelties.....	8	22	79	50	30	60,839	121,932	102,481	19,048	610,105	488,576
Smelting and refining, zinc.....	3	67	544	1,310	2,885	167,135	771,442	3,914,367	828,810	6,940,860	2,197,653
Stoves and ranges (other than electric and warm-air furnaces).....	4	111	505	40	527	318,968	683,255	784,728	41,126	1,884,254	1,058,400
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	10	181	774	375	3,338	525,244	1,118,352	3,074,909	79,001	6,487,787	2,433,877
Surgical and orthopedic appliances, including artificial limbs.....	3	11	16	4	31	18,410	17,222	14,553	1,103	83,079	67,423
Toys (not including children's wheel goods or sleds) games, and playground equipment.....	4	8	37	-----	81	12,100	71,288	123,767	5,932	279,581	149,882
Wirework, not elsewhere classified.....	5	6	34	-----	65	8,555	43,960	69,106	3,771	222,130	149,253
Other industries.....	109	796	3,530	12,101	7,919	1,642,241	4,228,785	35,344,789	915,718	53,614,724	17,854,217

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

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

<sup>3</sup> Not including data for 263 employees of central administrative offices, with salaries aggregating \$768,847. See GENERAL EXPLANATIONS—Persons Engaged.

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

TABLE 13.—GENERAL STATISTICS FOR THE KANSAS CITY (MISSOURI AND KANSAS) INDUSTRIAL AREA AND FOR WYANDOTTE COUNTY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR SEDGWICK COUNTY: 1929

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

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

KANSAS CITY (MISSOURI AND KANSAS) INDUSTRIAL AREA

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

All industries, total.....	1,169	10,148	48,332	56,683	158,098	\$24,188,952	\$63,705,471	\$503,267,055	\$8,071,412	\$741,237,997	\$229,899,530
Aluminum manufactures.....	5	11	43	-----	154	27,568	65,292	150,991	8,617	400,796	241,188
Awnings, tents, sails, and canvas covers.....	8	52	163	-----	87	122,602	167,348	738,342	5,736	1,116,818	372,740
Beverages.....	12	29	73	-----	240	68,794	95,131	283,897	11,417	847,086	551,772
Boxes, paper, not elsewhere classified.....	8	76	737	750	1,064	257,991	820,433	2,802,601	24,102	4,610,801	1,784,098
Bread and other bakery products.....	86	203	2,438	1,571	4,072	439,434	3,016,509	8,204,812	278,382	20,858,688	12,375,494
Brooms.....	3	4	58	-----	23	8,038	68,958	140,996	1,412	224,466	82,058
Butter.....	14	111	300	373	1,356	304,856	372,874	10,620,771	72,341	12,518,421	1,825,309
Car and general construction and repairs, steam-railroad repair shops.....	13	309	3,983	6,680	2,895	810,233	6,388,498	4,378,864	399,412	11,977,007	7,198,781
Caskets, coffins, burial cases, and other morticians' goods.....	10	34	120	-----	172	107,768	141,839	702,148	7,671	1,288,217	678,398
Clay products (other than pottery) and nonclay refractories.....	8	55	384	787	1,100	164,641	471,658	118,847	169,528	1,130,719	842,844
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	9	39	275	-----	55	157,820	280,007	494,721	11,434	1,097,328	591,173

See footnotes at end of table, p. 192.

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TABLE 13.—GENERAL STATISTICS FOR THE KANSAS CITY (MISSOURI AND KANSAS) INDUSTRIAL AREA AND FOR WYANDOTTE COUNTY, BY INDUSTRIES, AND COMBINED GENERAL STATISTICS FOR ALL INDUSTRIES FOR SEDGWICK COUNTY: 1929—Continued

[See note at head of this table]

INDUSTRY	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY OF POWER EQUIPMENT)		Salaries	Wages	Cost of materials and containers for products <sup>a</sup>	Cost of fuel and purchased electric energy	Value of products <sup>b</sup>	Value added by manufacture <sup>c</sup>
				Prime movers	Electric motors driven by purchased energy						
<b>KANSAS CITY (MISSOURI AND KANSAS) INDUSTRIAL AREA—Continued</b>											
Clothing, women's, not elsewhere classified.....	27	226	2,097	-----	310	\$603,190	\$1,378,769	\$4,487,314	\$29,180	\$8,044,174	\$3,527,680
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	8	131	1,503	-----	528	221,694	1,346,544	3,334,623	24,108	5,528,705	2,169,014
Coffee and spice, roasting and grinding.....	11	81	180	-----	1,122	261,486	220,532	7,198,978	35,831	9,813,093	2,678,284
Compressed and liquefied gases.....	7	71	80	125	1,104	138,219	117,414	278,193	57,560	1,084,787	749,014
Concrete products.....	14	55	102	30	819	185,955	251,089	1,258,254	29,512	2,373,237	1,090,471
Confectionery.....	19	116	847	1,295	332	209,231	850,724	2,597,256	50,778	5,373,707	2,725,673
Copperage.....	4	4	90	150	109	8,700	103,965	330,511	4,866	666,072	324,695
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	14	44	119	-----	302	110,240	237,545	569,758	6,340	1,151,114	575,016
Druggists' preparations.....	23	107	276	-----	242	320,457	315,279	1,110,640	9,277	2,680,852	1,556,535
Flavoring extracts and flavoring sirups.....	5	14	10	-----	45	37,188	13,189	102,151	1,131	207,087	103,805
Flour and other grain-mill products.....	17	359	1,096	2,125	19,171	880,510	1,545,452	50,422,435	639,793	60,656,991	9,593,783
Food preparations, not elsewhere classified.....	14	37	104	50	312	85,328	111,720	1,103,278	25,308	1,917,635	789,049
Foundry and machine-shop products, not elsewhere classified.....	71	493	1,890	10	7,030	1,244,828	2,794,673	5,864,615	233,763	13,168,704	7,070,326
Furniture, including store and office fixtures.....	25	95	482	100	1,123	269,527	752,116	1,263,550	29,795	2,843,910	1,550,574
Hats and caps, except felt and straw, men's.....	6	15	68	-----	15	25,137	89,920	216,792	1,206	455,092	237,004
House-furnishing goods, not elsewhere classified.....	8	32	119	-----	60	88,272	89,685	464,963	3,493	833,421	364,965
Ice cream.....	11	87	239	80	1,660	282,360	368,403	1,385,733	63,430	3,424,206	1,975,043
Ice, manufactured.....	18	104	501	2,999	10,834	214,625	744,620	89,231	365,629	2,214,010	1,759,150
Lithographing.....	6	35	89	-----	186	124,912	168,711	365,642	5,788	801,050	420,720
Lubricating oils and greases, not made in petroleum refineries.....	6	41	106	35	270	100,691	150,123	1,015,573	16,156	1,969,708	937,079
Marble, granite, slate, and other stone products.....	9	31	135	-----	931	85,229	217,853	300,669	19,282	756,864	436,913
Mattresses and bed springs, not elsewhere classified.....	9	18	116	10	383	36,423	137,400	551,897	11,200	887,367	324,210
Meat packing, wholesale.....	10	1,522	7,352	14,586	16,472	3,082,038	9,561,877	199,387,781	1,152,845	227,870,784	27,330,158
Nonferrous-metal alloys and products, not including aluminum products.....	5	20	73	-----	127	47,622	106,217	512,594	13,447	606,731	80,600
Paints and varnishes.....	15	204	467	70	2,578	823,644	557,680	4,416,686	53,717	8,251,552	3,781,140
Patent or proprietary medicines and compounds.....	35	157	128	42	302	383,938	141,464	974,992	13,729	3,459,746	2,471,025
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	23	140	478	345	2,323	340,099	706,522	1,543,557	37,132	2,919,979	1,339,290
Poultry killing, dressing, and packing, wholesale.....	5	8	33	10	51	10,762	40,702	839,533	8,560	960,937	117,554
Printing and publishing, book and job.....	134	435	1,340	30	2,153	1,125,359	2,237,420	2,728,604	96,396	9,378,129	6,553,129
Printing and publishing, newspaper and periodical.....	66	1,255	1,256	1,500	2,117	2,561,510	2,363,831	4,762,727	95,481	17,381,250	12,523,062
Safes and vaults.....	3	7	19	-----	100	6,208	21,477	27,213	1,155	64,617	36,249
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	6	19	101	-----	347	68,623	134,152	1,097,864	22,795	1,600,359	479,700
Signs and advertising novelties.....	15	39	118	65	24	89,550	169,904	255,409	22,952	803,746	525,385
Stereotyping and electrotyping, not done in printing establishments.....	3	12	48	-----	179	35,786	66,711	44,801	6,258	207,905	156,846
Tools, not including edge tools, machine tools, files, or saws.....	5	12	47	20	135	24,182	55,060	66,316	5,007	248,211	176,888
Wall plaster, wall board, insulating board, and floor composition.....	3	10	18	-----	20	23,150	39,303	36,844	1,204	134,694	96,646
Wirework, not elsewhere classified.....	4	7	34	-----	378	19,301	35,858	126,205	8,553	213,523	78,765
Other industries.....	329	3,002	17,912	22,806	72,570	7,522,502	23,529,117	173,495,683	3,873,163	284,208,712	106,839,876

**SEDGWICK 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, therefore no such statistics are included in this report.]

All industries, total.....	230	1,863	5,925	6,922	14,042	\$4,082,262	\$7,621,263	\$58,553,733	\$901,302	\$34,989,894	\$25,534,859
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**WYANDOTTE COUNTY**

[The differences between the figures for this county and those for Kansas City are stated in footnotes 1, 3, and 5. It is impossible to publish exact figures by industries for Kansas City without disclosing the data for certain establishments located outside the city but within the county (those covered by footnotes 1 and 3). For totals for all industries in Kansas City, see Table 2.]

All industries, total.....	170	2,759	14,035	24,690	50,229	\$5,877,018	\$19,425,660	\$255,980,481	\$2,703,525	\$316,873,605	\$58,189,599
Bread and other bakery products <sup>1</sup> .....	20	17	205	16	909	51,808	333,511	664,021	34,327	1,394,763	690,415
Concrete products <sup>2</sup> .....	4	5	53	30	108	14,600	69,863	100,642	5,573	281,834	175,719
Druggists' preparations <sup>3</sup> .....	10	31	68	-----	141	94,163	36,827	470,023	7,870	981,882	497,989
Flour and other grain-mill products <sup>3</sup> .....	7	101	321	1,225	6,170	263,017	488,749	13,208,455	187,435	16,368,587	2,962,697
Foundry and machine-shop products, not elsewhere classified <sup>1</sup> .....	11	55	386	-----	2,460	141,412	594,834	1,084,445	91,371	2,586,247	1,460,431
Ice, manufactured <sup>1</sup> .....	7	15	123	1,433	2,963	20,135	188,892	23,090	103,148	735,863	609,625
Meat packing, wholesale <sup>1,4</sup> .....	10	1,522	7,352	14,586	16,472	3,082,038	9,561,877	199,387,781	1,152,845	227,870,784	27,330,158
Printing and publishing, book and job <sup>2</sup> .....	14	5	30	5	83	6,006	74,455	63,204	3,334	238,316	171,278
Printing and publishing, newspaper and periodical <sup>1</sup> .....	7	57	70	-----	98	115,787	141,721	71,630	5,895	570,833	403,358
Other industries <sup>5</sup> .....	80	651	5,418	7,395	20,835	2,099,027	7,884,931	40,951,290	1,111,227	65,854,446	23,791,929

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

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

<sup>3</sup> All but 1 of the establishments in this industry were located in Kansas City.

<sup>4</sup> All the establishments in this industry were located in Kansas City.

<sup>5</sup> All but 2 of the establishments in this industry were located in Kansas City.

The figures for the "Meat packing, wholesale" industry include data for 1 establishment located outside the county, to avoid disclosing the data for the establishment in question. Amounts equivalent to the figures for this establishment have been subtracted from the "Other industries" items, and therefore the totals for the county are not affected by these counterbalancing adjustments.

<sup>6</sup> Of the 80 establishments covered by the "Other industries" items, 67 were located in Kansas City.