32.—MANUFACTURES

[Data in this section relate to continental United States. For additional statistics regarding food manufacturing industries and mineral manufacturing industries see sections on Farm Animals and Animal Products, Farm Crops and Foodstuffs, and Mining and Mineral Products]

GENERAL NOTE.—Prior to 1899 census statistics of manufactures were collected decennially and from then to 1919 every five years. Beginning with 1921 data are being collected every two years. For the census of 1899 and previous censuses data were collected for both factories and hand and neighborhood industries. For the census years 1904 to 1919, inclusive, factories having products valued at $500 or more were included, but the statistics beginning 1921 (except as to certain major items shown for that year in Table 811 only), relate only to establishments having products valued at $5,000 or more. However, in 1921, establishments having products valued at $500 or more but less than $5,000, while constituting 21 per cent of the total number of establishments, employed only six-tenths of 1 per cent of the total number of wage earners, and had an output of only three-tenths of 1 per cent of the total value of products.

The statistics for automobile repairing, collected for 1914 and 1919, have been excluded from Tables 810 and 812 to 814. Data for "Coffee and spice, roasting and grinding," have been included, except for 1925, for which year such data were not tabulated for the United States as a whole. Adjustments in previously published figures in the third section of Table 810 and in Tables 813 and 814 have been made by adding the statistics for the "Poultry killing and dressing" industry, except for 1927, for which year no data were collected. In Table 810, data for central-administrative-office employees have been excluded for 1923 and later years. The figures for 1914, 1919, and 1921, however, include such data.

Figures for wages, cost of materials, etc., and value of products are greatly affected by changes in the buying power of money or, in other words, by the general levels of prices and wages. Figures of total cost of materials, etc., and total value of products for many individual industries, for all groups of industries, and especially for all industries combined, involve much duplication. This is due to the use of products of a given establishment as material for another in the same or a different industry.

No. 810.—MANUFACTURES: SUMMARY, 1849 TO 1929

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Horsepower	Salaries	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture
	In thousands				In millions of dollars				
Factories and hand and neighborhood industries:									
1849	123	(1)	957	(2)	(1)	237	555	1,019	464
1859	140	(1)	1,311	(2)	(1)	379	1,032	1,886	854
1869	252	(1)	2,054	2,346	(1)	620	1,991	3,386	1,395
1879	254	(1)	2,733	3,411	(1)	948	3,397	5,370	1,973
1889	355	(1)	4,252	5,939	(1)	1,891	5,162	9,372	4,210
1899	512	(1)	5,306	10,098	(1)	2,321	7,344	13,000	5,656
Factories, excluding hand and neighborhood industries and establishments with products valued at less than $500:									
1899	208	364	4,713	(3)	381	2,008	6,576	11,407	4,831
1904	216	520	5,408	13,488	574	2,610	8,500	14,794	6,294
1909	268	790	6,615	18,675	939	3,427	12,143	20,672	8,529
1914	273	963	7,024	22,421	1,274	4,068	14,359	24,217	9,858
Factories, excluding establishments with products valued at less than $5,000:									
1914	177	[4] 963	6,896	[4] 22,291	[4] 1,274	[4] 4,068	14,278	23,988	9,710
1919	214	[4] 1,438	9,000	[4] 29,328	[4] 2,881	[4] 10,462	37,233	62,042	24,809
1921	196	1,146	6,947	--------	2,563	8,202	25,321	43,653	18,332
1923	196	1,269	8,778	33,094	2,806	11,009	34,706	60,556	25,850
1925	187	1,256	8,384	35,773	2,922	10,730	35,936	62,714	26,778
1927	192	1,301	8,350	38,826	3,230	10,849	35,133	62,718	27,585
1929	211	(5)	8,836	43,079	(5)	11,684	38,520	70,420	31,900

[1] No comparable data.
[2] Not called for on schedule.
[3] Data approximately the same as given for factories and hand and neighborhood industries, as the amount of horsepower used in the latter is small.
[4] Includes data for all establishments reporting products valued at $500 or more. This item was not tabulated separately for establishments reporting products valued between $500 and $5,000.
[5] Not yet available.

Source: Bureau of the Census, Department of Commerce.

No. 811.—MANUFACTURES: ESTABLISHMENTS, CLASSIFIED BY VALUE OF PRODUCTS [1]

NOTE.—See general note, p. 813. Data by size of establishments were not compiled for 1927 but will be available for 1929 at a later date

Class of establishments according to value of products	Establishments		Wage earners		Value of products	
	Number	Per cent distribution	Average number	Per cent distribution	Amount	Per cent distribution
Less than $5,000:						
1925	(2)		(2)		(2)	
1923	(2)		(2)		(2)	
1921	[3] 53,999		[3] 40,924	0.6	[3] $136,926,075	0.3
1919	65,485		45,813	.5	167,085,044	.3
1914	97,060		129,623	1.8	233,381,081	1.0
$5,000 and over:						
1925	187,390	100.0	8,384,261	100.0	62,713,713,730	100.0
1923	196,309	100.0	8,778,156	100.0	60,555,998,200	100.0
1921	196,267	100.0	6,946,570	99.4	43,653,282,833	99.7
1919	224,620	100.0	9,050,559	99.5	62,250,993,729	99.7
1914	178,731	100.0	6,906,624	98.2	24,013,053,643	99.0
$5,000 to $20,000:						
1925	55,876	29.8	156,373	1.9	628,373,403	1.0
1923	61,981	31.6	189,738	2.2	697,996,736	1.1
1921	71,075	36.2	224,852	3.2	782,977,433	1.8
1919	87,440	38.9	249,722	2.7	945,602,857	1.5
1914	87,931	49.2	429,037	6.1	905,693,168	3.7
$20,000 to $100,000:						
1925	68,951	36.8	660,309	7.9	3,272,196,872	5.2
1923	72,370	36.9	718,746	8.2	3,426,433,520	5.7
1921	72,251	36.8	746,024	10.7	3,330,350,409	7.6
1919	77,911	34.7	793,528	8.7	3,571,283,301	5.7
1914	56,814	31.8	999,510	14.2	2,550,229,411	10.5
$100,000 to $500,000:						
1925	42,209	22.5	1,675,911	20.0	9,576,090,022	15.3
1923	42,075	21.4	1,721,266	19.6	9,496,592,898	15.7
1921	38,027	19.4	1,629,573	23.3	8,405,758,540	19.2
1919	39,647	17.7	1,719,982	18.9	8,965,872,131	14.4
1914	25,847	14.5	[4] 3,002,071	[4] 42.7	5,742,376,392	23.7
$500,000 to $1,000,000:						
1925	9,771	5.2	1,131,439	13.5	6,870,112,293	11.0
1923	9,556	4.9	1,134,897	12.9	6,752,818,172	11.1
1921	7,581	3.9	966,559	13.8	5,296,720,583	12.1
1919	9,208	4.1	1,114,615	12.3	6,467,131,823	10.4
1914	4,320	2.4	(4)	(4)	3,020,693,743	12.5
$1,000,000 and over:						
1925	10,583	5.6	4,760,229	56.8	42,366,941,140	67.6
1923	10,327	5.2	5,013,509	57.1	40,182,156,874	66.4
1921	7,333	3.7	3,379,562	48.4	25,837,475,868	59.0
1919	10,414	4.6	5,172,712	56.9	42,301,103,617	67.8
1914	3,819	2.1	2,476,006	35.2	11,794,060,929	48.6

[1] To make the percentages for the number of establishments comparable, those for all 5 years have been based on the number of establishments reporting products valued at $5,000 or more. The percentages for wage earners and value of products, however, have not been similarly adjusted, the comparability of these percentages having been affected very slightly by the omission of small establishments in 1923 and 1925.

[2] No data for establishments with products under $5,000 in value have been tabulated for 1923 and 1925.

[3] The data for the 53,999 establishments in the "Less than $5,000" class are not included in other tables showing statistics for 1921.

[4] Data for $500,000 to $1,000,000 class and $100,000 to $500,000 class combined.

Source: Bureau of the Census, Department of Commerce.

No. 812.—MANUFACTURES: PRIME MOVERS, MOTORS, AND GENERATORS, NUMBER AND RATED CAPACITY

NOTE.—"Total rated capacity" includes rented electric power, but not other rented power. No data for prime movers were collected for 1921; data for 1929 not yet available. Data for "Automobile repairing" and "Poultry killing and dressing" are excluded for all years. Data for "Coffee and spice, roasting and grinding" are included, except for 1925

Year, division, and industry group	Establishments reporting power equipment	Prime movers										Electric motors driven by current generated in establishments reporting		Electric generators	
		Total rated capacity (horsepower)	Steam engines and turbines		Internal-combustion engines		Water wheels and water turbines [1]		Electric motors driven by purchased current						
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Kilowatts
United States:														
1927	174,118	38,825,681	73,382	16,923,931	12,664	1,170,774	7,594	1,598,666	2,151,675	19,132,310	790,810	11,219,979	19,028	7,345,685
1925	167,533	35,766,944	82,152	16,915,740	14,354	1,185,738	8,393	1,800,828	1,723,539	15,864,638	772,411	10,254,658	23,630	6,886,814
1923	173,415	33,092,222	90,041	16,700,442	15,718	1,224,172	9,293	1,803,310	1,425,492	13,364,298	616,387	8,821,403	(2)	(2)
1919 [3]	222,942	29,323,653	122,472	17,034,259	30,470	1,241,722	13,980	1,765,131	976,278	9,282,541	486,805	6,963,950	(2)	(2)
1927														
New England	16,396	4,566,155	6,480	1,788,876	644	25,373	2,778	761,858	245,279	1,990,048	128,102	1,257,859	2,739	1,007,732
Middle Atlantic	55,359	10,968,754	18,383	5,009,700	2,863	335,039	1,753	280,722	646,309	5,343,293	261,959	3,404,515	5,561	1,968,578
East North Central	39,681	11,056,846	17,208	4,941,504	2,639	395,407	1,083	226,204	617,071	5,493,731	244,560	3,975,818	5,293	2,442,419
West North Central	15,015	2,033,074	4,867	780,491	1,119	74,979	234	83,670	126,514	1,093,934	37,838	505,978	1,191	365,488
South Atlantic	15,462	3,805,038	9,838	1,554,492	1,943	160,606	1,184	153,987	207,386	1,935,953	55,864	857,516	1,534	670,652
East South Central	7,219	1,787,386	5,508	896,232	1,257	39,349	172	10,427	88,466	841,378	16,604	258,535	722	232,191
West South Central	7,672	1,419,558	5,254	798,629	1,195	92,071	110	4,510	52,399	524,348	14,188	330,708	964	227,388
Mountain	3,573	829,256	1,742	424,312	323	15,456	84	6,080	27,504	383,408	8,504	210,292	440	141,847
Pacific	13,741	2,359,614	4,102	729,695	681	32,494	196	71,208	140,747	1,526,217	23,191	418,768	584	289,390
Food and kindred products	46,564	4,134,973	14,367	1,489,756	3,959	185,969	1,861	104,373	277,779	2,354,875	65,441	632,279	3,062	474,371
Textiles and their products	24,873	4,173,438	4,486	1,796,153	261	15,056	2,148	427,563	415,648	1,934,666	149,844	1,055,750	2,720	1,005,723
Forest products	18,830	3,321,755	17,178	2,178,696	2,363	56,628	561	36,944	127,259	1,049,487	66,931	829,405	2,290	611,817
Paper and paper products	2,935	2,814,795	3,624	1,108,636	83	7,075	1,995	901,483	55,392	797,601	42,365	1,003,050	1,466	716,230
Printing, publishing, and allied industries	22,078	568,427	207	39,452	438	4,322	4	180	222,879	524,473	8,299	31,783	215	25,043
Chemicals and allied products	6,234	1,848,309	4,620	847,592	513	30,513	88	29,722	77,249	940,482	39,906	427,139	1,237	379,665
Products of petroleum and coal	1,301	1,513,314	9,217	1,009,562	579	68,067	2	216	18,535	435,469	18,649	504,264	487	289,768
Rubber products	495	790,622	388	269,152	9	337	23	3,415	27,507	517,718	13,888	206,362	182	165,618
Leather and its manufactures	3,958	419,591	1,123	208,939	72	4,243	39	3,912	43,565	202,497	20,488	134,103	554	114,978
Stone, clay, and glass products	7,996	2,709,131	3,556	954,945	1,702	101,450	148	29,637	76,313	1,623,099	27,846	730,171	1,124	523,481
Iron, steel, and products, excl. machinery	6,189	8,323,037	6,290	4,618,552	592	587,453	167	16,120	172,410	3,100,912	123,512	3,605,699	1,776	1,668,703
Nonferrous metals and their products	5,254	1,219,598	852	423,268	189	7,531	68	7,549	66,908	781,250	20,719	298,712	469	232,847
Machinery, excl. transportation equipment	11,758	3,009,265	2,392	747,475	981	59,250	346	20,354	270,484	2,182,186	112,038	865,413	1,510	502,631
Transportation equipment—air, land, water	2,484	2,027,686	1,410	555,038	322	16,901	25	9,297	152,365	1,446,450	38,550	473,944	662	351,015
Railroad repair shops	2,016	1,110,821	2,067	429,091	145	6,525	4	482	44,314	674,723	18,044	264,289	729	172,310
Miscellaneous	11,153	840,919	1,605	247,624	456	19,454	115	7,419	103,068	566,422	24,290	157,616	545	111,485

[1] Data for a small number of water motors included for 1919, but not for 1923, 1925, or 1927.
[2] Not called for on schedule.
[3] Includes data for establishments with products valued at less than $5,000. Statistics for 1923, 1925, and 1927 refer only to establishments with products valued at $5,000 or more.

Source: Bureau of the Census, Department of Commerce.

No. 813.—SUMMARY BY 16 GENERAL GROUPS OF INDUSTRIES

NOTE.—See general note, p. 813. Due to changes in the classification of a number of the industries the figures for a few of the groups differ from those previously published

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
All industries	1929	210,952	8,836,403	11,684,476	38,519,609	70,420,106	31,900,497	43,078,661
	1927	191,866	8,349,755	10,848,803	35,133,137	62,718,347	27,585,210	38,825,681
	1925	187,390	8,384,261	10,729,969	35,935,648	62,713,714	26,778,066	35,772,328
	1923	196,309	8,778,156	11,009,298	34,705,698	60,555,998	25,850,300	33,094,228
	1921	196,267	6,946,570	8,202,324	25,321,055	43,653,283	18,332,228	(1)
	1919	274,598	9,041,311	10,464,786	37,288,732	61,193,426	24,904,694	29,325,669
	1914	272,518	7,023,685	4,067,719	14,358,934	24,216,514	9,857,599	22,290,899
1. Food and kindred products.	1929	56,328	753,108	897,703	8,637,698	12,024,627	3,386,929	4,621,745
	1927	49,787	679,520	823,388	8,113,433	11,015,860	2,902,427	4,134,973
	1925	48,113	664,760	793,681	7,748,678	10,418,536	2,669,858	3,881,952
	1923	51,847	682,137	795,571	6,990,846	9,524,051	2,533,204	3,723,025
	1921	52,113	626,618	746,266	6,122,933	8,267,130	2,144,197	(1)
	1919	69,423	733,664	774,724	10,252,631	12,748,348	2,495,718	3,203,106
	1914	67,403	536,436	303,342	3,907,186	4,977,761	1,070,574	2,503,932
2. Textiles and their products.	1929	27,351	1,707,526	1,732,665	5,074,433	9,243,303	4,168,870	4,151,010
	1927	26,843	1,694,416	1,759,958	4,922,716	8,950,473	4,027,757	4,173,438
	1925	24,450	1,628,283	1,654,814	5,349,925	9,126,155	3,776,230	3,986,522
	1923	26,763	1,715,293	1,743,798	5,394,441	9,462,282	4,067,841	3,783,401
	1921	25,955	1,509,738	1,472,352	3,801,090	6,956,465	3,155,375	(1)
	1919	28,451	1,610,003	1,481,143	5,379,388	9,210,933	3,831,545	3,248,364
	1914	23,350	1,505,912	675,782	2,013,738	3,444,810	1,431,073	2,717,078
3. Forest products	1929	26,912	876,140	938,985	1,585,268	3,591,986	2,006,718	3,667,990
	1927	20,169	864,508	931,921	1,636,647	3,462,925	1,826,278	3,332,457
	1925	21,926	921,266	978,472	1,725,351	3,689,127	1,963,776	3,472,970
	1923	21,678	931,816	962,595	1,666,395	3,633,386	1,966,991	3,336,236
	1921	21,398	703,360	670,462	1,197,628	2,456,857	1,259,229	(1)
	1919	41,201	864,001	859,872	1,368,341	3,113,460	1,745,119	3,409,746
	1914	43,466	865,294	446,897	765,936	1,616,453	850,517	3,176,436
4. Paper and paper products.	1929	3,126	233,393	287,331	1,092,722	1,892,251	799,529	3,166,804
	1927	2,972	224,437	272,154	1,082,363	1,785,998	703,634	2,813,694
	1925	2,727	221,502	263,097	919,657	1,546,814	627,157	2,574,707
	1923	2,685	219,026	250,124	878,764	1,456,970	578,206	2,813,562
	1921	2,600	184,756	202,703	669,070	1,071,800	402,730	(1)
	1919	2,677	208,115	212,724	720,908	1,250,445	529,537	1,967,446
	1914	2,452	166,752	88,844	314,833	519,690	204,857	1,697,268
5. Printing, publishing, and allied industries.	1929	27,531	357,784	726,214	767,867	3,170,883	2,403,016	649,079
	1927	25,433	328,603	586,183	755,038	2,859,860	2,104,823	569,528
	1925	23,826	315,264	542,419	694,577	2,596,871	1,902,294	486,087
	1923	23,114	307,993	492,906	665,654	2,315,318	1,649,664	429,967
	1921	22,777	282,500	434,728	663,300	2,078,764	1,415,464	(1)
	1919	33,747	301,934	354,998	587,294	1,764,387	1,177,093	379,236
	1914	34,757	286,254	207,721	266,435	937,125	670,690	341,805
6. Chemicals and allied products.[2]	1929	8,278	280,863	354,393	1,970,713	3,759,405	1,788,691	2,312,295
	1927	7,541	253,436	317,908	1,803,085	3,351,892	1,548,808	1,848,309
	1925	7,282	244,812	296,526	1,830,592	3,211,230	1,380,639	1,748,481
	1923	7,197	246,527	288,834	1,702,944	2,933,562	1,230,617	1,654,228
	1921	7,348	199,596	224,333	1,352,904	2,225,917	873,013	(1)
	1919	10,732	329,053	364,884	2,269,338	3,803,753	1,534,414	1,720,521
	1914	11,461	258,413	164,421	1,011,125	1,964,630	953,505	1,459,062
7. Products of petroleum and coal.	1929	1,497	147,216	229,050	2,528,856	3,624,965	1,096,109	1,755,258
	1927	1,418	141,655	217,485	2,262,699	3,060,226	797,527	1,513,314
	1925	1,582	136,366	210,034	2,356,583	3,230,009	873,425	1,241,877
	1923	1,650	138,330	212,882	1,981,370	2,778,888	797,518	1,092,914
	1921	1,560	115,006	180,452	1,760,805	2,372,039	611,235	(1)
	1919	1,684	131,759	185,599	1,635,920	2,289,170	653,250	709,597
	1914	1,782	90,882	60,882	474,558	721,656	247,098	464,659

[1] Not called for on schedule.
[2] The fact that the increase in the "Chemicals and allied products" group is less than in most others is due to the decline in the production of alcoholic liquors which are included.

No. 813.—SUMMARY BY 16 GENERAL GROUPS OF INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
8. Rubber products	1929	525	149,148	207,455	578,677	1,117,460	538,783	821,312
	1927	516	141,997	198,074	660,370	1,225,077	564,707	790,622
	1925	530	141,869	191,286	721,730	1,260,805	539,075	659,691
	1923	529	137,868	182,084	501,163	958,518	457,355	605,634
	1921	496	103,273	123,613	377,879	704,903	327,024	(1)
	1919	477	158,549	193,763	594,344	1,138,216	543,872	429,273
	1914	342	74,022	44,167	163,035	300,994	137,959	199,242
9. Leather and its manufactures.	1929	4,286	318,414	359,413	1,131,942	1,905,977	774,035	436,681
	1927	4,265	315,991	364,447	1,088,641	1,869,305	780,664	419,591
	1925	4,243	314,025	355,346	1,012,881	1,763,709	750,829	413,173
	1923	4,868	344,545	388,630	1,083,345	1,880,086	796,740	412,908
	1921	4,813	280,071	314,412	934,398	1,544,185	609,788	(1)
	1919	6,397	349,362	363,453	1,713,807	2,610,231	896,423	382,537
	1914	6,753	307,060	169,358	753,135	1,104,595	351,459	311,194
10. Stone, clay, and glass products.	1929	8,515	328,400	432,656	526,556	1,561,457	1,034,901	2,854,402
	1927	8,673	350,017	464,273	594,774	1,612,549	1,017,774	2,709,131
	1925	8,478	353,036	467,012	603,427	1,640,652	1,037,225	2,348,157
	1923	8,317	351,692	453,567	573,472	1,503,121	989,648	1,936,054
	1921	8,347	252,990	307,065	428,259	1,033,091	604,832	(1)
	1919	12,599	302,810	332,726	422,611	1,111,746	689,135	1,534,917
	1914	14,790	335,824	206,085	240,818	618,700	377,882	1,493,976
11. Iron and steel and their products, not including machinery.	1929	6,644	882,797	1,380,824	3,864,558	7,138,007	3,273,449	9,211,486
	1927	6,340	834,967	1,263,812	3,544,615	6,197,595	2,652,980	8,322,730
	1925	6,063	850,783	1,283,841	3,734,085	6,460,222	2,726,138	7,518,726
	1923	6,353	892,185	1,324,173	4,152,741	6,827,670	2,674,929	7,259,009
	1921	6,251	571,426	730,875	2,140,171	3,455,541	1,315,370	(1)
	1919	7,617	857,764	1,243,726	3,423,280	5,887,844	2,464,564	6,429,697
	1914	6,326	617,776	421,746	1,315,690	2,137,113	821,443	4,587,572
12. Nonferrous metals and their products.	1929	7,521	314,740	442,480	2,465,672	3,601,057	1,135,385	1,687,197
	1927	6,761	272,667	383,185	1,783,213	2,677,107	893,894	1,226,411
	1925	7,006	276,616	382,652	1,948,438	2,839,550	891,112	1,162,140
	1923	7,501	297,798	395,079	1,767,638	2,637,160	869,522	1,171,192
	1921	7,853	212,680	256,893	886,265	1,408,059	521,795	(1)
	1919	10,441	304,768	359,171	1,737,234	2,519,032	781,798	953,109
	1914	9,808	239,542	154,580	964,556	1,329,834	365,278	550,903
13. Machinery, not including transportation equipment.	1929	12,954	1,085,126	1,613,925	2,702,626	7,043,331	4,340,705	3,651,524
	1927	11,982	883,508	1,284,133	2,053,942	5,348,724	3,294,782	2,995,296
	1925	11,807	858,843	1,225,359	1,986,367	5,020,281	3,034,914	2,714,377
	1923	12,147	907,707	1,253,743	1,891,524	4,727,818	2,836,294	2,300,443
	1921	12,395	662,277	832,783	1,361,163	3,235,075	1,873,912	(1)
	1919	14,821	998,484	1,240,487	1,973,458	4,768,673	2,795,216	2,060,325
	1914	13,457	618,737	412,406	662,967	1,582,408	919,442	1,256,908
14. Transportation equipment, air, land, and water.	1929	2,551	587,407	943,319	3,683,587	6,047,995	2,364,408	2,272,843
	[3] 1927	2,537	494,905	803,298	2,907,949	4,693,972	1,786,022	2,027,686
	1925	2,778	559,578	908,488	3,389,101	5,451,753	2,062,652	1,888,951
	1923	3,873	606,328	963,939	3,394,505	5,333,476	1,938,975	1,624,468
	1921	4,273	405,773	591,334	1,803,011	3,018,154	1,215,143	(1)
	1919	6,768	858,582	1,259,014	3,200,602	5,627,263	2,426,661	1,453,804
	1914	7,818	312,562	230,615	639,793	1,137,423	497,630	602,459
15. Railroad repair shops.	1929	2,297	307,256	637,311	548,434	1,269,917	721,483	1,153,040
	1927	2,309	428,672	648,908	545,492	1,289,695	744,203	1,110,821
	1925	2,363	457,755	668,192	563,646	1,332,679	769,033	942,248
	1923	2,348	523,430	772,968	631,358	1,520,093	888,734	798,005
	1921	2,326	418,285	671,956	506,571	1,267,343	760,771	(1)
	1919	2,368	515,709	726,690	547,829	1,354,446	806,617	644,875
	1914	2,011	365,902	253,150	261,438	552,618	291,180	478,893
16. Miscellaneous industries.	1929	14,636	417,085	500,753	1,360,000	3,427,486	2,067,486	665,995
	1927	14,320	440,456	529,676	1,378,160	3,317,090	1,938,930	837,680
	1925	14,216	439,503	508,750	1,351,610	3,125,319	1,773,709	732,559
	1923	15,439	475,481	528,386	1,429,536	3,003,597	1,574,062	701,510
	1921	15,762	418,221	442,101	1,315,607	2,557,959	1,242,351	(1)
	1919	25,195	516,754	511,812	1,461,747	2,995,479	1,533,732	751,116
	1914	26,537	442,317	227,723	603,691	1,276,704	667,012	449,512

[1] Not called for on schedule.
[3] The decrease in the 1927 figures was chiefly due to practical ceasing of operations of a large company for a few months of the year.

Source: Bureau of the Census, Department of Commerce.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES

NOTE.—The figures given in this table do not represent exactly the numbers of wage earners, values of products, etc., assignable to the classes of commodities from which the industries derive their names, as it is necessary for census purposes to classify each establishment as a whole in some one industry, according to its product of chief value, although in many cases a single establishment manufactures two or more classes of commodities. The figures for cost of materials and value of products for each group and each subgroup include considerable duplication due to the use of the products of one industry as the materials for another, and in some cases similar duplication occurs within an industry. No data for horsepower were collected for 1921. For totals for all industries and for 16 great groups see Table 813. Five census years have been shown for all industries that reported $200,000,000 or more in value of products or over 50,000 wage earners in 1929. For other industries, 1925, 1927, and 1929 have been shown except as indicated by footnotes

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD AND KINDRED PRODUCTS								
Animal products, total.[1]	1929	12,276	193,945	254,335	4,158,651	5,018,696	860,045	1,090,923
	1927	11,774	189,645	249,881	3,815,254	4,563,036	747,782	965,363
	1925	11,863	189,933	245,304	3,752,515	4,498,931	746,416	875,878
	1923	12,449	203,548	254,414	3,238,978	3,951,221	712,242	783,488
	1921	11,329	182,790	231,601	2,687,299	3,276,562	589,264	----------
Butter	1929	3,527	19,083	23,540	636,805	746,778	109,973	164,604
	1927	3,519	20,096	25,533	637,337	739,011	101,674	145,973
	1925	3,493	17,758	22,263	603,397	683,593	80,196	126,872
	1923	3,653	20,312	24,950	549,558	640,474	90,916	126,351
	1921	3,444	18,506	22,929	407,501	479,724	72,223	----------
Cheese	1929	2,758	3,402	4,536	92,988	110,645	17,657	24,739
	1927	2,738	3,520	4,897	100,788	118,448	17,660	20,976
	1925	2,935	3,398	4,320	103,569	118,678	15,109	20,830
Condensed and evaporated milk.	1929	535	7,070	8,796	163,766	209,110	45,344	85,258
	1927	464	7,390	9,191	159,680	200,086	40,406	63,969
	1925	402	7,118	8,391	140,041	171,247	31,206	53,937
	1923	378	8,293	10,126	153,996	187,111	33,115	48,300
	1921	382	9,462	10,349	132,525	176,837	44,312	----------
Ice cream	1929	3,150	22,380	33,952	156,338	328,414	172,076	230,865
	1927	2,961	21,927	33,108	150,602	301,645	151,043	206,315
	1925	2,790	23,043	33,457	140,864	286,176	145,312	189,328
	1923	2,702	23,132	32,435	145,307	259,967	114,660	169,730
	1921	2,528	20,209	28,237	121,170	213,262	92,092	----------
Meat packing, wholesale.	1929	1,277	122,505	165,867	2,974,128	3,434,654	460,526	524,989
	1927	1,250	119,095	161,584	2,663,740	3,057,216	393,475	489,576
	1925	1,269	120,422	159,355	2,625,192	3,050,286	425,094	441,516
	1923	1,397	132,792	167,569	2,176,010	2,585,804	409,794	382,127
	1921	1,184	117,042	152,903	1,868,198	2,200,942	332,744	----------
Poultry killing, dressing, and packing, wholesale.[2]	1929	485	7,768	7,295	106,853	130,171	23,318	13,534
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.	1929	681	5,892	8,843	81,426	108,246	26,821	25,747
	1927	505	4,967	7,464	60,216	81,548	21,333	19,980
	1925	489	4,914	7,652	61,497	82,436	20,939	18,184
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.	1929	348	13,613	8,799	53,200	80,849	27,649	21,187
	1927	337	12,650	8,106	42,892	65,082	22,191	18,574
	1925	319	10,530	7,234	39,194	61,061	21,867	19,527
Vegetable products and beverages, total.	1929	44,052	559,163	643,368	4,479,048	7,005,931	2,526,884	3,530,822
	1927	38,013	489,875	573,506	4,298,179	6,452,824	2,154,645	3,169,610
	1925	36,250	474,827	548,377	3,996,163	5,919,606	1,923,443	3,006,074
	1923	39,271	477,079	539,711	3,730,085	5,546,406	1,816,321	2,937,531
	1921	40,784	443,828	514,666	3,435,634	4,990,567	1,554,933	----------
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.	1929	2,997	98,864	69,809	461,929	750,342	288,413	224,082
	1927	2,436	80,924	62,310	355,186	572,346	217,160	189,831
	1925	2,403	85,866	67,427	385,573	616,071	230,497	187,490
	1923	2,438	72,534	57,153	298,968	515,316	216,348	175,714
	1921	1,905	51,729	36,800	237,682	365,717	128,035	----------
Chocolate and cocoa products, not including confectionery.	1929	59	6,191	7,778	79,551	119,541	39,989	59,136
	1927	69	6,427	7,339	90,423	122,723	32,300	62,742
	1925	60	7,128	7,992	73,522	106,642	33,120	58,266
Coffee and spice, roasting and grinding.[3]	1929	928	9,044	10,611	332,150	424,345	92,195	45,480
	1927	784	8,195	9,537	284,653	384,281	99,629	42,542
	1923	729	9,665	10,016	224,843	297,528	72,684	37,358
	1921	712	8,882	9,372	166,249	226,059	59,810	----------

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD AND KINDRED PRODUCTS—Contd.								
Confectionery	1929	2,021	63,476	56,418	215,125	393,270	178,145	112,136
	1927	1,908	63,163	56,981	218,373	391,927	173,555	110,595
	1925	1,931	63,600	55,235	205,433	379,081	173,649	100,455
	1923	2,014	63,485	54,881	202,719	366,256	163,537	91,455
	1921	2,254	61,004	50,210	174,072	313,998	139,926	----------
Chewing gum	1929	37	2,265	2,733	23,231	60,160	36,929	10,350
	1927	40	2,524	2,727	27,168	62,001	34,834	10,097
	1925	41	2,180	2,538	17,968	47,838	29,870	7,712
Flavoring extracts and flavoring sirups.	1929	642	5,033	7,066	55,518	129,086	73,568	33,838
	1927	500	5,011	7,134	51,091	107,219	56,129	27,963
	1925	431	3,890	5,078	47,064	94,212	47,148	23,313
Flour and other grain-mill products.	1929	4,022	27,154	35,409	871,803	1,060,328	188,525	641,101
	1927	4,035	29,982	37,559	972,711	1,148,760	176,049	641,608
	1925	4,413	31,988	39,700	1,125,379	1,298,015	172,636	669,910
	1923	5,232	35,194	41,704	885,972	1,048,578	162,606	709,856
	1921	6,485	35,378	43,143	993,810	1,179,740	185,930	----------
Bread and other bakery products.	1929	20,788	200,248	275,129	734,233	1,526,626	792,393	363,741
	1927	18,129	171,995	236,226	693,236	1,394,700	701,464	284,244
	1925	17,684	160,411	219,606	668,017	1,268,195	600,178	227,236
	1923	18,739	162,613	214,579	574,520	1,122,906	548,386	193,186
	1921	20,173	148,500	198,939	598,614	1,089,972	491,358	----------
Feeds, prepared, for animals and fowls.[2]	1929	750	10,364	12,873	327,390	402,787	75,397	170,330
	1927	447	7,632	9,703	244,676	299,793	55,117	115,355
Macaroni, spaghetti, vermicelli, and noodles.	1929	353	5,088	5,495	27,008	46,915	19,906	24,442
	1927	353	4,587	5,071	27,434	45,353	17,919	21,406
	1925	327	4,560	5,026	27,491	43,489	15,998	19,873
Oleomargarine, not made in meat-packing establishments.	1929	41	1,534	2,264	30,890	46,522	15,632	6,670
	1927	36	1,502	2,258	27,145	39,282	12,137	8,746
	1925	38	1,639	2,278	28,384	39,856	11,472	6,740
Food preparations, not elsewhere classified.	1929	862	10,626	11,665	96,399	171,861	75,462	36,716
	1927	674	10,294	11,387	98,249	166,965	68,716	34,773
	1925	694	11,562	11,091	106,773	172,562	65,789	32,619
Corn sirup, corn sugar, corn oil, and starch.	1929	35	6,730	9,873	104,285	165,984	61,699	87,237
	1927	26	6,972	10,490	90,906	134,461	43,555	81,003
	1925	30	6,492	9,378	93,064	132,898	39,834	72,617
Peanuts: Grading, roasting, cleaning, and shelling.[4]	1925	69	1,990	978	18,184	20,624	2,440	8,830
	1923	70	1,492	748	15,176	18,189	3,013	7,703
Peanuts, walnuts, and other nuts, processed.[5]	1929	169	7,995	3,062	39,534	49,609	10,074	16,193
	1927	144	7,376	3,287	45,890	55,950	10,059	13,956
Rice cleaning and polishing.	1929	60	1,588	1,449	38,444	48,794	10,350	22,901
	1927	60	1,524	1,546	46,481	54,130	7,649	23,012
	1925	63	1,296	1,098	45,847	53,498	7,651	21,906
Shortenings (not including lard) and vegetable cooking oils.[2]	1929	40	2,712	3,004	139,031	154,553	15,522	36,647
	1927	33	2,655	2,624	137,079	148,468	11,389	33,462
Sugar, beet	1929	82	7,496	10,021	70,923	108,553	37,630	146,393
	1927	79	7,402	9,710	79,017	104,927	25,910	142,023
	1925	89	8,872	12,088	87,038	132,339	45,301	146,985
Sugar, cane, not including products of refineries.	1929	70	2,327	1,642	12,298	18,326	6,028	66,779
	1927	53	971	639	5,830	8,009	2,179	45,705
	1925	94	2,066	1,411	11,586	13,435	1,849	72,796
Sugar refining, cane	1929	21	13,920	17,850	438,664	507,389	68,725	98,637
	1927	21	13,996	17,707	551,594	597,446	45,851	86,979
	1925	21	14,502	18,955	549,896	606,633	56,737	89,093
	1923	20	15,254	20,044	681,880	726,241	44,361	72,682
	1921	20	15,457	19,463	426,601	466,602	40,001	----------
Malt	1929	28	590	1,057	18,924	23,603	4,679	18,098
	1927	23	500	904	17,187	20,274	3,037	15,390
	1925	23	568	903	19,986	24,069	4,083	15,259

Footnotes at end of table.

No. 814.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD AND KINDRED PRODUCTS—Con.								
Vinegar and cider	1929	172	978	1,022	6,016	10,450	4,434	8,652
	1927	158	1,123	1,236	5,858	10,755	4,897	7,562
	1925	161	1,243	1,232	6,838	12,233	5,395	6,929
Cereal preparations	1929	121	6,494	8,875	101,471	175,223	73,752	66,291
	1927	77	6,028	8,417	91,748	155,563	63,815	50,979
	1925	90	6,168	7,942	92,577	150,079	57,502	52,626
Beverages	1929	5,154	28,240	38,330	103,026	270,324	167,298	149,131
	1927	4,769	26,972	36,101	95,430	242,694	147,264	153,731
	1925	4,210	27,384	36,053	98,466	237,761	139,295	168,865
	1923	4,514	29,274	37,689	99,572	228,730	129,158	221,292
	[6] 1921	3,867	33,202	45,652	116,102	237,628	121,526	----------
Ice, manufactured	1929	4,115	32,438	42,638	44,351	211,170	166,819	1,085,791
	1927	3,159	22,120	32,611	40,816	184,795	143,979	965,406
	1925	3,077	24,915	35,046	44,725	186,969	142,244	923,134
	1923	3,097	26,852	35,040	46,664	164,662	117,998	845,012
	1921	2,715	24,066	32,630	51,174	158,889	107,715	----------
TEXTILES AND THEIR PRODUCTS								
Textile-mill products, total.	1929	6,974	1,096,172	1,052,971	2,795,051	5,043,171	2,248,120	3,848,917
	1927	7,244	1,119,733	1,099,735	2,762,674	4,933,282	2,170,607	3,906,023
	1925	7,470	1,110,209	1,066,262	3,234,035	5,342,617	2,108,583	3,748,885
	1923	7,816	1,164,638	1,122,751	3,213,272	5,527,557	2,314,285	3,556,440
	1921	7,241	993,557	896,373	2,136,803	3,896,449	1,759,646	----------
Cotton goods	1929	1,281	424,962	324,289	897,029	1,524,177	627,148	2,267,746
	1927	1,347	467,596	380,910	871,592	1,567,401	695,809	[7] 2,328,830
	1925	1,366	445,184	353,883	1,077,153	1,714,368	637,215	2,236,363
	1923	1,375	471,503	396,603	1,147,372	1,901,126	753,754	2,153,299
	1921	1,328	412,058	328,227	707,442	1,278,221	570,779	----------
Cotton small wares	1929	202	15,364	15,449	33,636	65,170	31,534	27,518
	1927	220	14,958	15,333	32,222	64,820	32,598	29,205
	1925	230	16,162	15,547	41,816	74,675	32,859	33,760
Lace goods	1929	42	6,854	7,670	9,716	29,237	19,521	10,205
	1927	43	6,482	7,585	11,392	27,298	15,906	11,309
	1925	42	7,006	7,620	13,361	30,844	17,482	9,507
Knit goods	1929	1,888	208,400	210,714	448,746	899,717	450,970	182,183
	1927	1,869	190,283	188,163	424,099	816,620	392,521	177,216
	1925	1,987	186,668	168,683	453,926	809,960	356,034	176,630
	1923	2,323	194,244	168,272	484,020	848,177	364,157	183,675
	1921	2,078	161,880	132,190	360,458	634,074	273,616	----------
Silk and rayon manufactures.	1929	1,491	130,467	137,547	412,181	731,200	319,019	220,259
	1927	1,648	127,643	140,054	445,391	750,124	304,733	221,249
	1925	1,659	132,509	142,734	484,123	808,979	324,857	212,609
	1923	1,598	125,234	126,849	479,038	761,322	282,284	206,020
	1921	1,565	121,378	113,396	337,559	583,419	245,860	----------
Woolen goods	1929	460	58,474	66,014	165,882	290,939	125,057	201,045
	1927	471	61,790	72,156	172,700	301,309	128,609	191,703
	1925	503	67,056	82,436	219,618	361,524	141,906	193,080
	1923	513	72,408	87,314	201,548	364,288	162,740	180,657
	1921	493	56,434	62,893	120,276	230,945	110,669	----------
Worsted goods	1929	264	88,485	98,138	336,649	536,067	199,418	372,536
	1927	288	92,571	101,666	329,408	516,670	187,262	364,422
	1925	329	98,168	108,835	400,784	596,266	195,483	377,215
	1923	338	122,144	135,671	421,184	698,271	277,087	357,808
	1921	321	105,930	112,001	279,770	524,639	244,869	----------
Felt goods, wool, hair, or jute.	1929	54	5,540	7,531	26,224	45,466	19,242	25,655
	1927	50	5,452	6,653	23,289	41,895	18,606	23,479
	1925	50	5,146	6,404	26,354	43,776	17,421	23,478
Hats, wool-felt	1929	14	2,029	2,315	4,678	9,056	4,377	2,811
	[7] 1927	12	2,113	2,190	4,490	8,807	4,317	2,405
	1925	22	1,854	1,986	5,123	8,949	3,826	2,550
Hats, fur-felt	1929	159	16,539	22,503	55,298	102,004	46,706	20,505
	[7] 1927	139	15,896	22,855	51,053	99,185	48,132	20,517
	1925	146	15,156	20,466	40,124	80,066	39,942	17,948

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES AND THEIR PRODUCTS—Contd.								
Carpets and rugs, wool, other than rag.	1929	67	32,623	40,014	86,651	176,915	90,264	64,965
	1927	65	32,829	42,041	85,602	166,888	81,287	65,828
	1925	69	33,886	43,383	104,196	187,779	83,583	63,008
Wool shoddy	1929	50	1,762	2,109	10,127	15,345	5,218	15,940
	1927	55	1,679	1,916	7,981	12,597	4,616	15,353
	1925	68	2,218	2,609	14,912	21,022	6,109	15,435
Wool pulling	1929	18	596	907	10,917	13,648	2,731	1,907
	1927	18	524	769	12,466	14,640	2,174	2,403
	1925	23	573	841	13,637	15,209	1,572	2,706
Wool scouring	1929	21	1,302	1,771	3,022	6,241	3,220	8,241
	1927	25	1,386	1,982	3,010	6,662	3,652	7,935
	1925	25	1,112	1,601	2,527	5,831	3,304	7,823
Cordage and twine	1929	123	14,457	12,834	54,573	91,455	36,882	73,021
	1927	116	15,084	13,674	56,105	89,172	33,067	74,924
	1925	118	15,400	14,019	66,848	100,448	33,600	77,563
Jute goods	1929	20	4,930	4,276	11,968	21,870	9,902	32,903
	1927	23	5,358	4,987	11,802	23,186	11,384	36,210
	1925	23	6,312	5,640	14,567	27,517	12,951	28,753
Flax and hemp, dressed	1929	6	47	35	93	197	104	429
	1927	7	62	51	116	283	167	654
	1925	9	82	89	244	459	215	1,457
Linen goods	1929	16	2,195	2,185	5,214	9,737	4,522	11,006
	1927	18	2,530	2,545	5,409	10,377	4,968	11,473
	1925	18	2,607	2,462	6,394	11,157	4,762	12,119
Mats and matting, grass and coir.	1929	7	467	440	685	1,692	1,007	1,293
	1927	7	422	398	669	1,537	868	1,425
	1925	10	902	767	1,526	3,492	1,965	2,147
Haircloth	1929	13	450	527	2,551	3,855	1,305	1,113
	1927	16	385	480	2,689	3,616	927	1,312
	1925	15	355	387	1,897	2,746	849	1,058
Dyeing and finishing textiles.	1929	732	79,327	94,245	219,122	465,821	246,698	306,836
	1927	743	73,851	91,697	210,681	406,047	195,366	287,212
	1925	697	70,749	83,983	220,678	408,515	187,837	252,701
	1923	713	63,414	72,525	199,156	366,623	167,467	204,128
	1921	599	51,510	58,139	141,199	276,751	135,552	----------
Cloth sponging and refinishing.	1929	46	902	1,457	88	3,361	3,273	800
	1927	52	736	1,502	161	3,458	3,297	933
	1925	61	931	1,889	203	3,889	3,685	975
Wearing apparel made from purchased fabrics, total.	1929	16,142	536,281	596,293	1,866,734	3,536,041	1,669,307	138,154
	1927	15,486	501,656	578,152	1,771,890	3,391,881	1,619,990	126,723
	1925	14,883	466,846	534,823	1,174,618	3,243,849	1,502,231	119,744
	1923	16,904	499,413	568,139	1,852,229	3,443,940	1,591,711	132,317
	1921	16,784	473,574	534,312	1,424,234	2,710,657	1,286,373	----------
Clothing (except work clothing), men's youths', and boys', not elsewhere classified.[8]	1929	3,692	149,753	179,624	440,685	901,104	460,419	40,411
	1927	3,562	146,099	184,613	447,245	932,182	484,937	34,351
	1925	3,491	141,511	179,045	471,501	946,274	474,773	33,207
	1923	4,024	158,173	207,252	483,927	1,016,722	532,795	40,250
Clothing (work, men's not including shirts).	1929	511	38,193	26,647	83,552	138,450	54,898	11,492
	1927	556	40,612	29,946	85,134	147,289	62,155	11,218
	1925	509	32,821	24,803	85,969	140,964	54,994	11,542
Clothing, men's, buttonholes.	1929	32	292	314	61	574	513	104
	1927	40	412	429	98	918	820	132
	1925	30	327	347	71	658	587	87
Shirts	1929	863	59,892	43,428	116,678	228,322	111,643	16,970
	1927	907	57,216	42,998	129,744	241,650	111,906	14,916
	1925	840	49,864	35,674	129,754	225,963	96,209	13,884
	1923	934	51,672	37,943	139,354	241,331	101,977	14,050
	1921	860	45,427	33,182	123,259	203,944	80,685	----------
Furnishing goods, men's, not elsewhere classified.[9]	1929	598	26,570	23,002	83,642	150,964	67,321	6,738
	1927	534	25,183	22,070	82,839	145,474	62,635	7,190
	1925	419	21,094	17,438	69,861	120,868	51,006	4,977

Footnotes at end of table.

No. 814—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES AND THEIR PRODUCTS—Con.								
Collars, mens'	1929	15	2,952	2,263	3,630	8,740	5,110	1,281
	1927	24	3,270	2,967	5,867	13,264	7,398	3,131
	1925	28	7,187	5,503	11,792	27,588	15,795	4,497
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.	1929	125	9,279	5,914	19,289	29,883	10,594	3,672
	1927	131	10,296	6,670	17,392	30,202	12,810	4,112
	1925	139	9,061	5,709	17,977	29,532	11,554	4,102
Suspenders, garters, and other elastic woven goods, made from purchased webbing.	1929	91	4,341	3,971	17,906	30,473	12,567	1,178
	1927	91	4,061	3,529	16,260	26,985	10,726	983
	1925	93	3,835	3,072	16,500	27,504	11,004	876
Hats and caps, except, felt and straw, men's.	1929	576	5,826	7,694	16,908	35,901	18,993	2,191
	1927	568	6,300	9,126	20,702	41,214	20,512	1,999
	1925	579	6,552	9,243	22,699	43,823	21,124	1,876
Clothing, women's, not elsewhere classified.	1929	8,082	187,301	243,638	933,915	1,709,581	775,666	35,283
	1927	7,588	154,459	211,350	809,520	1,494,401	684,881	30,287
	1925	6,127	126,466	175,045	724,299	1,293,705	569,406	24,316
	1923	7,046	133,195	176,446	809,561	1,406,684	597,123	27,704
	1921	7,061	144,865	185,082	567,810	1,022,743	454,933	----------
Corsets and allied garments.	1929	213	13,664	12,446	36,035	76,802	40,767	6,049
	1927	222	13,778	12,402	35,394	77,218	41,824	7,819
	1925	185	14,525	12,394	37,808	77,115	39,307	8,394
Handkerchiefs [9]	1929	105	6,014	4,636	16,343	29,554	13,211	2,409
	1927	115	6,659	5,264	18,205	31,588	13,383	2,665
Millinery [9]	1929	1,239	32,204	42,715	98,090	195,693	97,604	10,376
	1927	1,148	33,311	46,788	103,490	209,495	106,005	7,920
Other articles made from purchased fabrics, total.	1929	4,235	75,073	83,402	412,648	664,091	251,443	163,939
	1927	4,113	73,027	82,071	388,151	625,310	237,159	140,692
	1925	2,097	51,228	53,729	374,272	539,689	165,417	117,893
	1923	2,043	51,242	52,908	328,941	490,785	161,844	94,644
	1921	1,930	42,607	41,667	240,003	349,360	109,357	----------
Awnings, tents, sails, and canvas covers.	1929	1,002	7,162	8,559	25,328	49,238	23,909	5,055
	1927	963	6,543	8,229	24,410	47,929	23,520	4,850
	1925	905	6,249	7,501	27,453	48,569	21,116	4,564
Bags, other than paper, not made in textile mills.	1929	202	11,828	9,645	144,275	170,176	25,900	19,159
	1927	181	11,164	9,548	136,748	162,950	26,201	15,754
	1925	162	11,404	9,332	150,102	175,082	24,980	15,295
Belting, other than leather and rubber, not made in textile mills.	1929	9	255	299	1,328	2,789	1,461	1,648
	1927	11	343	411	1,490	3,212	1,722	1,457
	1925	11	254	264	1,596	3,112	1,516	914
Embroideries [9]	1929	813	6,622	7,868	6,609	25,287	18,678	2,279
	1927	1,069	8,964	10,962	7,960	32,419	24,459	2,930
Trimmings (not made in textile mills) and stamped art goods for embroidering.[9]	1929	639	7,934	9,762	20,783	45,180	24,397	3,066
	1927	773	9,495	11,989	33,350	64,423	31,073	3,864
Horse blankets, fly nets, and related products.	1929	14	582	498	1,471	2,895	1,424	1,375
	1927	16	660	574	1,878	3,379	1,501	1,421
	1925	20	694	564	2,535	3,897	1,362	1,773
Flags and banners	1929	54	938	794	1,771	3,836	2,065	577
	1927	46	1,046	898	2,282	4,536	2,254	700
	1925	49	1,031	890	2,332	4,588	2,256	629
Regalia, badges, and emblems.	1929	77	1,757	1,825	3,227	7,929	4,700	1,105
	1927	76	1,675	1,760	3,019	7,691	4,672	1,015
	1925	85	1,992	2,033	3,962	9,623	5,661	1,068
Hat and cap materials, men's.	1929	112	2,563	2,876	17,305	25,031	7,726	5,164
	1927	96	2,762	2,659	15,672	23,339	7,668	5,158
	1925	89	2,127	2,413	15,218	22,049	6,831	5,141
Nets and seines	1929	19	903	769	3,789	6,164	2,375	1,155
	1927	21	869	776	3,348	5,401	2,053	1,162
	1925	21	885	762	3,479	5,157	1,678	1,190

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES AND THEIR PRODUCTS—Contd.								
House-furnishing goods, not elsewhere classified.	1929	964	15,794	16,150	76,000	127,602	51,602	16,038
	1927	548	11,691	10,947	52,705	87,677	34,972	12,997
	1925	433	9,307	9,143	51,079	78,655	27,576	10,702
Carpets and rugs, rag	1929	94	1,529	1,562	1,659	5,511	3,852	2,405
	1927	110	1,633	1,678	1,636	5,890	4,254	2,005
	1925	139	1,901	1,876	1,942	5,710	3,767	2,349
Linoleum	1929	7	5,544	8,560	26,241	57,250	31,010	51,647
	1927	7	5,364	8,177	24,216	47,442	23,227	41,432
	1925	6	4,872	6,393	19,967	44,999	25,033	31,840
Oilcloth	1929	9	1,412	2,144	14,649	23,107	8,459	5,017
	1927	8	1,072	1,746	11,819	17,642	5,824	3,565
	1925	9	1,160	1,675	13,549	17,843	4,294	3,484
Artificial leather	1929	17	2,590	3,956	21,764	32,961	11,197	14,650
	1927	19	2,730	4,007	21,828	34,228	12,400	14,467
	1925	18	2,659	3,801	31,238	40,932	9,693	10,593
Asphalted-felt-base floor covering	1929	14	2,345	3,501	13,768	31,889	18,121	11,092
	1927	12	2,442	3,695	16,186	34,101	17,914	8,904
	1925	11	2,464	3,338	14,930	32,532	17,602	9,575
Upholstering materials, not elsewhere classified.	1929	53	1,410	1,317	7,046	11,234	4,188	3,915
	1927	39	1,080	1,162	6,556	9,673	3,117	4,482
	1925	34	1,196	1,174	5,123	7,998	2,875	3,380
Waste	1929	136	3,905	3,316	25,633	36,014	10,381	18,592
	1927	118	3,494	2,853	23,049	33,377	10,328	14,529
	1925	105	3,033	2,570	29,766	38,943	9,177	13,664
FOREST PRODUCTS								
Basic industries, total.	1929	14,164	460,011	437,359	431,665	1,314,764	883,099	1,991,554
	1927	8,723	453,131	431,496	508,680	1,259,370	750,690	1,795,875
	1925	10,286	497,803	473,085	593,935	1,468,427	874,492	2,064,631
	1923	10,671	531,545	492,617	584,802	1,534,991	950,188	1,944,962
	1921	10,233	392,756	323,977	386,881	930,015	543,134	----------
Excelsior	1929	66	1,241	1,219	2,440	5,009	2,569	10,667
	1927	64	1,272	1,181	2,547	4,821	2,274	10,930
	1925	72	1,300	1,180	2,573	4,901	2,328	11,993
Lumber and timber products, not elsewhere classified.	1929	12,915	418,583	421,167	418,777	1,273,473	854,696	1,978,894
	1927	7,510	413,946	413,362	493,959	1,214,646	720,687	1,781,734
	1925	9,207	467,090	456,716	579,475	1,421,162	841,687	2,049,500
	1923	9,393	495,932	475,962	573,064	1,494,462	921,398	1,932,091
	1921	9,092	364,247	313,487	377,927	902,501	524,574	----------
Turpentine and rosin	1929	1,183	40,187	14,972	10,448	36,282	25,833	1,993
	1927	1,149	37,913	16,953	12,173	39,903	27,730	3,211
	1925	1,007	29,413	15,190	11,887	42,364	30,477	3,138
Wood reworking industries, total.[1]	1929	6,081	114,746	142,621	336,934	655,564	318,630	788,221
	1927	5,582	117,905	149,783	359,316	672,336	313,020	727,274
	1925	5,727	132,115	169,154	440,457	798,288	357,831	680,399
	1923	5,159	125,966	156,707	441,284	783,751	342,467	575,740
	1921	5,314	97,416	115,619	307,989	538,617	230,628	----------
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.	1929	4,850	90,208	116,438	295,684	553,812	258,128	678,567
	1927	4,561	96,589	126,140	321,443	581,634	260,190	630,674
	1925	4,761	111,329	146,592	403,227	710,861	307,635	597,103
	1923	4,215	103,008	133,329	401,174	692,784	291,610	493,424
	1921	4,366	78,033	95,954	272,082	462,649	190,567	----------
Window and door screens and weather strip.	1929	280	4,034	4,958	10,513	24,452	13,939	14,034
	1927	214	3,661	4,806	9,304	22,643	13,339	11,520
	1925	183	3,803	4,687	9,545	22,398	12,853	10,674
Wood turned and shaped and other wooden goods, n. e. c.	1929	893	18,744	18,655	28,423	69,611	41,188	88,390
	1927	743	15,937	16,333	26,064	60,530	34,466	77,425
	1925	721	14,948	14,862	24,636	55,728	31,092	65,110
Lasts and related products.	1929	58	1,760	2,569	2,315	7,690	5,375	7,230
	1927	59	1,718	2,504	2,505	7,529	5,024	7,655
	1925	62	2,035	3,012	3,049	9,301	6,252	7,512

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOREST PRODUCTS—Continued								
Wooden container industries, total.	1929	1,769	54,971	51,078	129,656	235,178	105,522	196,943
	1927	1,648	56,124	52,721	134,471	235,578	101,107	192,489
	1925	1,762	57,961	55,671	142,775	249,612	106,837	192,281
	1923	1,872	62,121	58,271	154,804	265,501	110,696	200,457
	1921	1,872	51,923	45,796	125,865	204,779	78,914	----------
Boxes, wooden, except cigar boxes.	1929	792	30,553	29,194	74,082	135,026	60,944	137,361
	1927	748	30,797	29,250	75,797	133,993	58,195	135,637
	1925	824	34,834	33,765	80,391	152,295	65,903	143,519
Boxes, cigar, wooden	1929	118	4,374	3,508	5,238	12,459	7,221	5,517
	1927	136	4,577	3,925	5,621	12,909	7,288	5,478
	1925	155	4,836	3,967	5,450	12,925	7,474	5,210
Cooperage	1929	586	10,691	11,706	41,516	64,842	23,326	33,885
	1927	528	11,455	12,937	43,821	66,947	23,126	33,553
	1925	553	11,483	12,908	44,176	67,735	23,559	30,758
Baskets and rattan and willow ware, not including furniture.	1929	273	9,353	6,671	8,820	22,851	14,031	20,180
	1927	236	9,295	6,608	9,231	21,729	12,498	17,821
	1925	230	6,808	5,033	6,758	16,658	9,900	12,794
Furniture and related industries, total.	1929	4,184	209,142	263,658	462,764	1,036,659	573,895	546,734
	[10]1927	3,593	203,338	258,300	426,644	969,968	543,324	488,660
	1925	3,601	195,643	244,886	418,235	951,170	532,935	434,238
	1923	3,434	182,014	222,461	372,545	851,801	479,256	369,484
	1921	3,449	134,937	157,245	279,041	606,239	327,198	----------
Furniture, including store and office fixtures.[11]	1929	3,778	193,522	242,863	426,542	948,116	521,575	503,505
	1927	3,228	188,143	238,240	392,099	885,204	493,106	455,881
	1925	3,239	181,016	225,298	384,875	868,720	483,845	402,719
	1923	3,047	168,157	204,566	342,443	776,847	434,404	344,954
	1921	3,038	124,362	144,148	253,706	550,413	296,707	----------
Refrigerators and refrigerator cabinets, excl. of mechanical refrigerating equipment.	1929	188	9,784	13,179	26,451	60,483	34,032	28,493
	1927	165	9,551	12,617	25,095	58,163	33,068	24,216
	1925	167	9,360	12,589	24,744	57,666	32,922	23,297
Billiard and pool tables, bowling alleys, and accessories.	1929	40	1,390	1,863	3,238	8,821	5,583	6,402
	1927	34	1,184	1,550	2,394	7,112	4,718	2,335
	1925	33	1,037	1,354	1,781	5,614	3,834	2,120
Mirror and picture frames.	1929	178	4,446	5,752	6,533	19,238	12,705	8,334
	1927	166	4,460	5,893	7,056	19,489	12,432	6,228
	1925	162	4,230	5,646	6,835	19,170	12,335	6,102
Other allied products, total.[1]	1929	714	37,270	44,269	224,250	349,821	125,571	144,538
	1927	623	34,010	39,620	207,537	325,673	118,136	128,159
	1925	550	30,836	35,675	129,949	221,629	91,680	101,421
	1923	542	30,170	32,539	112,960	197,342	84,382	105,097
	1921	530	26,328	27,824	97,852	177,206	79,354	----------
Caskets, coffins, burial cases, and morticians' goods.	1929	414	13,033	16,411	39,350	88,282	48,932	39,609
	1927	340	11,665	14,421	33,327	74,891	41,563	31,105
	1925	326	11,479	14,057	32,771	70,413	37,641	29,164
Cork products	1929	35	3,842	4,209	12,603	23,023	10,421	14,829
	1927	27	3,185	3,560	9,395	17,369	7,974	11,683
	1925	33	3,297	3,538	7,269	16,020	8,752	11,084
Matches	1929	21	3,760	4,118	12,526	20,351	7,825	17,997
	1927	19	3,905	4,131	11,884	24,906	13,022	17,607
	1925	25	4,627	4,707	12,913	23,741	10,828	16,314
Pulp goods	1929	45	3,558	4,592	12,068	27,220	15,152	14,190
	1927	44	2,996	3,783	11,375	23,950	12,575	17,158
	1925	35	3,017	3,767	10,286	20,270	9,984	11,338
Wood preserving	1929	199	13,077	14,940	147,703	190,945	43,242	57,913
	1927	193	12,259	13,726	141,555	184,558	43,003	50,606
	1925	131	8,416	9,606	66,709	91,184	24,475	33,521

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
PAPER AND PAPER PRODUCTS								
Paper and pulp [12]	1929	883	128,049	173,078	723,361	1,206,114	482,753	2,968,431
	1927	929	123,360	162,002	724,111	1,138,090	413,979	2,642,806
	1925	763	123,842	160,146	605,860	971,882	366,022	2,427,010
	1923	746	120,677	151,477	573,727	907,347	333,620	2,178,623
	1921	738	105,294	127,029	445,992	667,436	221,444	----------
Paper [2]	1929	685	103,320	140,398	574,608	967,186	392,578	[13]2,968,431
	1927	710	98,566	130,475	572,786	919,891	347,106	[13]2,642,806
Pulp (wood and other fiber).[2]	1929	198	24,729	32,679	148,753	238,928	90,176	(14)
	1927	219	24,794	31,527	151,325	218,198	66,873	(14)
Manufactures of paper, total.[1]	1929	2,243	105,344	114,253	369,361	686,137	316,775	198,373
	1927	2,043	101,077	110,152	358,252	647,908	289,646	170,888
	1925	1,964	97,660	102,951	313,797	574,932	261,135	147,697
	1923	1,939	98,349	98,667	305,037	549,623	244,586	134,939
	1921	1,862	79,462	75,674	223,078	404,364	181,287	----------
Bags, paper, exclusive of those made in paper mills.	1929	95	6,970	6,661	43,238	64,621	21,383	13,416
	1927	88	6,463	6,394	40,735	57,490	16,755	9,336
	1925	66	5,585	5,524	29,957	45,978	16,021	6,414
Boxes, paper, not elsewhere classified.	1929	1,249	55,654	57,110	159,840	294,253	134,414	80,064
	1927	1,219	56,398	57,701	168,464	306,555	138,091	81,300
	1925	1,229	57,148	57,172	151,712	281,944	130,232	76,185
	1923	1,216	56,855	53,966	144,080	264,209	120,129	61,687
	1921	1,191	46,242	40,477	88,268	174,248	85,980	----------
Labels and tags	1929	153	4,474	5,869	10,556	28,042	17,487	6,473
	1927	121	6,141	8,000	16,259	34,398	18,138	6,869
	1925	113	5,356	6,730	13,096	28,045	14,950	4,808
Card cutting and designing.	1929	70	2,338	2,725	9,286	19,648	10,362	3,909
	1927	60	2,024	2,707	7,544	16,871	9,327	3,915
	1925	49	1,086	1,084	2,436	6,201	3,765	1,355
Cardboard, not made in paper mills.	1929	13	609	819	2,665	5,629	2,964	1,549
	1927	9	658	849	2,868	5,581	2,713	1,779
	1925	13	978	1,188	3,475	7,288	3,813	1,795
Envelopes	1929	171	10,367	11,527	29,928	61,287	31,359	13,077
	1927	153	9,745	10,755	28,973	56,006	27,033	11,391
	1925	135	9,052	9,987	27,423	51,189	23,766	10,288
Wall paper	1929	56	4,705	5,732	13,480	30,008	16,527	12,740
	1927	53	4,811	5,981	14,612	30,059	15,447	13,343
	1925	49	5,069	5,863	14,999	30,069	15,070	11,528
Paper goods, not elsewhere classified.	1929	436	20,227	23,810	100,369	182,648	82,279	67,145
	1927	340	14,837	17,765	78,797	140,948	62,151	42,955
	1925	310	13,386	15,403	70,700	124,217	53,517	35,324
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES								
Printing and publishing.[1]	1929	24,369	280,908	596,142	661,409	2,760,945	2,099,536	544,526
	1927	22,558	262,740	474,639	664,528	2,521,208	1,856,680	482,295
	1925	21,072	252,515	440,427	612,060	2,283,304	1,671,244	409,121
	1923	20,471	247,384	400,486	587,109	2,030,615	1,443,505	358,019
	1921	20,336	230,305	357,515	590,617	1,838,340	1,247,723	----------
Printing and publishing, book and job.[1]	1929	12,713	150,398	251,324	266,913	1,006,664	739,751	211,499
	1927	11,466	142,347	241,810	253,056	920,251	667,195	194,718
	1925	10,338	134,559	221,425	230,691	820,553	589,862	170,096
	1923	10,094	130,819	202,315	221,377	747,486	526,110	153,334
	1921	9,776	121,871	181,910	217,476	700,605	483,129	----------
Printing and publishing, music.	1929	124	811	1,314	1,542	15,240	13,698	956
	1927	119	994	1,678	1,658	15,882	14,223	1,343
	1925	109	955	1,462	1,828	15,090	13,261	1,363
Printing and publishing, newspaper and periodical.	1929	11,532	129,699	343,504	392,954	1,739,041	1,346,087	332,071
	1927	10,973	119,399	231,151	409,814	1,585,076	1,175,262	286,234
	1925	10,625	117,001	217,541	379,541	1,447,661	1,068,120	237,662
	1923	10,267	115,646	196,804	363,480	1,268,502	905,022	203,454
	1921	10,453	107,534	174,359	371,124	1,123,710	752,586	----------

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES—Con.								
Other industries related to printing and publishing, total.	1929	3,162	76,876	130,070	106,458	409,937	303,479	104,553
	1927	2,875	65,863	111,544	90,509	338,652	248,143	87,233
	1925	2,754	62,749	101,991	82,517	313,567	231,050	76,966
	1923	2,643	60,609	92,420	78,545	284,703	206,158	71,948
	1921	2,441	52,195	77,213	72,683	240,424	167,740	----------
Bookbinding and blank-book making.	1929	1,108	24,754	31,769	30,755	102,783	72,029	21,441
	1927	1,063	21,909	28,281	25,875	87,327	61,452	19,038
	1925	970	20,836	26,006	24,127	81,600	57,473	16,147
Engravers' materials	1929	19	313	448	1,795	3,129	1,335	1,493
	1927	17	178	294	1,289	2,169	879	864
	1925	16	177	276	1,202	2,014	812	921
Engraving, steel and copperplate, and plate printing.	1929	456	10,130	14,489	11,865	47,162	35,297	8,506
	1927	393	8,549	11,886	10,236	39,071	28,835	6,894
	1925	368	7,259	10,169	7,628	32,106	24,478	5,764
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.	1929	189	2,241	3,212	2,583	10,934	8,351	2,966
	1927	173	1,805	2,612	2,078	7,931	5,853	2,028
	1925	188	1,827	2,691	2,177	8,623	6,446	1,753
Engraving, wood	1929	27	143	323	82	739	657	54
	1927	23	132	291	76	641	565	45
	1925	22	117	234	46	525	479	32
Photo-engraving, not done in printing establishments.	1929	654	12,354	31,831	11,003	77,382	66,379	9,349
	1927	611	11,033	28,381	10,790	69,207	58,417	9,366
	1925	577	9,868	24,321	8,393	58,640	50,248	6,735
Lithographing	1929	376	18,979	32,022	38,992	121,014	82,023	35,470
	1927	309	16,348	27,466	32,704	97,050	64,346	28,541
	1925	331	16,957	27,107	32,171	98,721	66,550	28,623
Stereotyping and electrotyping, not done in printing establishments.	1929	230	6,490	13,771	6,550	35,611	29,061	21,347
	1927	197	4,502	10,273	4,677	25,549	20,872	16,888
	1925	193	4,283	9,207	4,280	22,361	18,081	13,774
Printing materials, not including type or printing ink.	1929	84	1,005	1,649	2,185	8,579	6,394	2,709
	1927	70	882	1,402	2,034	7,022	4,988	2,339
	1925	71	888	1,379	1,787	6,526	4,739	1,981
Type founding	1929	19	467	556	648	2,604	1,956	1,218
	1927	19	525	658	749	2,684	1,935	1,230
	1925	18	537	603	705	2,451	1,745	1,236
CHEMICALS AND ALLIED PRODUCTS								
Chemicals and allied products other than animal, vegetable, and compounded oils, total.	1929	7,599	260,824	336,816	1,579,431	3,289,289	1,709,758	1,980,145
	1927	6,760	228,674	294,090	1,409,190	2,855,979	1,446,789	1,528,092
	1925	6,509	222,112	275,579	1,374,950	2,651,375	1,276,425	1,464,454
	1923	6,424	226,710	271,444	1,316,282	2,472,610	1,156,328	1,388,993
	1921	6,438	177,525	204,712	1,022,489	1,840,964	818,475	----------
Ammunition and related products.	1929	21	7,223	8,273	19,842	43,809	23,967	17,061
	1927	20	7,602	8,266	20,945	45,602	24,657	17,175
	1925	27	7,777	7,987	22,820	41,707	18,887	23,316
Explosives	1929	95	5,614	8,488	31,754	72,540	40,785	51,612
	1927	100	5,803	8,131	36,894	72,490	35,596	38,239
	1925	103	5,697	7,731	37,877	69,669	31,791	37,808
Fireworks	1929	50	1,811	1,931	2,465	6,583	4,119	1,746
	1927	36	1,564	1,395	2,624	5,885	3,261	1,300
	1925	41	1,446	1,429	2,399	6,031	3,632	1,148

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
CHEMICALS AND ALLIED PRODUCTS—Continued								
Baking powders, yeast, and other leavening compounds.	1929	48	3,006	4,847	22,598	52,337	29,738	42,788
	1927	47	3,032	4,794	24,619	[7] 55,716	[7] 31,097	42,816
	1925	49	2,931	4,063	23,376	[7] 53,347	[7] 29,972	36,633
Blacking, stains, and dressings.	1929	170	1,617	1,959	8,345	24,682	16,337	3,317
	1927	176	1,716	2,181	9,186	22,548	13,363	4,005
	1925	171	1,869	2,164	9,734	25,055	15,322	2,659
Bluing	1929	20	105	107	469	1,365	896	169
	1927	20	155	151	594	1,674	1,080	363
	1925	23	176	185	1,017	2,167	1,150	366
Bone black, carbon black, and lampblack.	1929	77	1,915	2,583	9,096	20,170	11,074	11,268
	1927	67	1,553	2,047	6,571	14,262	7,691	8,065
	1925	66	1,505	1,722	5,655	14,565	8,910	7,289
Candles	1929	20	781	923	3,251	6,686	3,436	1,971
	1927	17	709	761	2,959	6,351	3,392	996
	1925	20	626	673	2,786	5,114	2,328	922
Chemicals, not elsewhere classified.[1, 16]	1929	551	62,199	94,680	363,577	738,048	374,472	854,358
	1927	492	52,347	78,275	296,677	572,091	275,414	576,285
	1925	751	57,890	83,537	282,712	570,310	287,598	546,797
	1923	773	77,254	103,301	328,597	655,275	326,678	592,023
	1921	728	49,138	62,161	200,273	412,231	211,959	----------
Cleaning and polishing preparations.	1929	429	2,713	3,356	19,399	50,780	31,381	10,609
	1927	341	2,403	2,988	15,220	41,234	26,015	8,485
	1925	299	2,161	2,660	12,707	34,020	21,313	6,279
Drug grinding	1929	26	677	841	5,675	9,669	3,994	5,277
	1927	25	659	820	5,684	9,205	3,522	4,662
	1925	22	622	710	4,921	8,446	3,525	4,389
Druggists' preparations	1929	429	10,688	12,452	43,776	124,778	81,003	19,448
	1927	373	10,138	11,942	40,499	110,309	69,810	15,919
	1925	370	9,685	11,078	36,064	95,420	59,356	12,553
Patent and proprietary medicines and compounds.	1929	1,522	16,434	18,781	94,770	318,907	224,137	44,538
	1927	1,282	15,071	16,667	84,641	278,243	193,602	34,082
	1925	1,279	14,802	15,592	84,790	247,564	162,774	33,840
	1923	1,363	17,353	16,915	88,802	237,494	148,692	29,998
	1921	1,436	13,800	13,684	69,571	175,898	106,327	----------
Perfumes, cosmetics, and toilet preparations.	1929	815	13,109	13,763	58,299	193,441	135,142	12,150
	1927	705	10,463	10,965	52,765	161,246	108,480	10,431
	1925	594	8,714	8,537	46,933	129,510	82,578	7,381
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.	1929	126	2,419	3,114	25,336	39,836	14,500	22,575
	1927	122	2,414	2,971	23,074	35,677	12,603	20,172
	1925	125	2,495	2,987	22,763	34,784	12,021	32,634
Fertilizers	1929	638	20,926	17,884	159,801	232,511	72,710	166,984
	1927	621	18,612	17,650	138,143	190,385	52,242	156,274
	1925	587	19,644	17,743	137,808	206,773	68,965	152,193
	1923	573	18,572	16,365	127,980	183,089	55,109	161,774
	1921	588	16,898	16,026	144,978	180,375	35,397	----------
Compressed and liquefied gases.[16]	1929	354	3,390	5,378	14,529	52,190	37,661	85,293
	1927	313	3,212	4,948	11,749	50,547	38,799	70,489
Glue and gelatin	1929	74	2,993	4,236	18,978	32,458	13,480	23,584
	1927	61	3,226	4,524	19,223	31,196	11,973	24,763
	1925	55	3,325	3,976	15,338	25,764	10,426	22,807
Mucilage, paste, and other adhesives, except glue and rubber cement.	1929	84	414	547	3,669	6,638	2,970	2,564
	1927	80	502	679	4,270	7,945	3,675	2,219
	1925	84	561	766	5,563	9,853	4,291	2,574
Grease and tallow, not including lubricating greases.	1929	297	5,475	7,862	40,142	61,608	21,466	41,686
	1927	247	5,052	7,403	38,272	56,280	18,008	34,069
	1925	263	5,303	7,508	33,713	51,442	17,729	30,840

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
CHEMICALS AND ALLIED PRODUCTS—Continued								
Ink, printing	1929	147	2,448	3,957	19,205	42,750	23,545	20,300
	1927	123	2,288	3,665	16,054	37,734	21,680	18,901
	1925	109	2,150	3,346	16,253	34,753	18,501	17,041
Ink, writing	1929	29	416	480	1,993	4,595	2,602	847
	1927	24	491	576	2,209	5,342	3,133	743
	1925	28	524	596	2,424	6,084	3,660	700
Alcohol, ethyl, and distilled liquors.	1929	30	1,484	2,131	35,046	54,285	19,239	13,577
	1927	28	1,180	1,705	19,310	33,971	14,661	7,261
	1925	31	1,395	1,838	38,564	57,706	19,141	10,268
Liquors, vinous	1929	24	185	278	609	2,448	1,839	1,188
	1927	13	150	177	1,206	2,693	1,487	999
	1925	27	265	262	1,765	3,436	1,671	1,499
Paints and varnishes	1929	1,063	29,211	42,245	334,132	568,976	234,844	180,315
	1927	1,006	28,061	40,185	307,724	519,010	211,285	163,187
	1925	923	25,490	35,420	293,943	470,736	176,793	143,111
	1923	826	22,818	29,871	248,955	404,135	155,180	114,281
	1921	804	18,015	23,293	171,398	274,310	102,912	----------
Rayon and allied products.	1929	29	39,106	44,697	33,335	149,546	116,211	195,844
	1927	19	26,341	28,649	25,748	109,888	84,141	122,406
	1925	14	19,128	22,976	18,478	88,061	69,583	66,966
Salt	1929	58	5,454	6,735	14,188	37,869	23,681	57,711
	1927	58	5,961	7,117	14,664	34,329	19,665	55,928
	1925	70	6,308	7,261	13,849	34,253	20,404	54,647
Soap	1929	282	14,363	18,995	180,353	310,192	129,839	65,856
	1927	256	13,432	19,716	172,244	287,060	114,816	62,025
	1925	272	15,406	18,526	184,874	278,273	93,400	56,697
	1923	270	17,002	20,777	173,546	276,403	102,857	74,820
	1921	283	16,558	18,865	150,356	240,195	89,839	----------
Wood distillation and charcoal manufacture.	1929	91	4,648	5,293	14,791	29,594	14,803	25,509
	1927	88	4,537	4,739	15,423	27,630	12,208	16,833
	1925	106	4,217	4,305	15,824	25,283	9,459	17,907
Animal, vegetable, and compounded oils, total.	1929	679	20,039	17,577	391,282	470,116	78,834	332,150
	1927	781	24,762	23,818	393,895	495,913	102,018	320,217
	1925	773	22,700	20,946	455,642	559,856	104,214	283,827
	1923	773	19,817	17,390	386,662	460,951	74,290	265,235
	1921	910	22,071	19,621	330,416	384,954	54,538	----------
Oil, cake, and meal, cottonseed.	1929	553	15,825	11,203	249,020	298,376	49,356	284,395
	1927	547	18,434	14,259	220,038	276,338	56,300	270,500
	1925	535	16,215	11,412	244,315	295,685	51,369	239,005
	1923	511	12,745	7,908	197,515	226,388	28,873	223,742
	1921	610	16,163	12,340	194,864	217,225	22,361	----------
Oils, essential	1929	22	265	326	3,804	6,653	2,849	1,894
	1927	14	169	258	3,427	4,642	1,215	758
	1925	14	178	281	4,363	5,882	1,519	1,164
Oil, cake, and meal, linseed.	1929	29	2,715	4,098	101,563	119,927	18,364	31,191
	1927	33	2,718	4,325	97,750	111,544	13,793	28,273
	1925	33	2,692	4,290	121,762	140,514	18,751	25,869
Oils, not elsewhere classified.[2]	1929	75	1,234	1,950	36,896	45,160	8,264	14,670
PRODUCTS OF PETROLEUM AND COAL								
Coke, not including gas-house coke.	1929	153	20,552	33,389	263,608	393,566	129,957	393,211
	1927	171	21,082	34,168	286,729	382,013	95,284	451,874
	1925	287	23,191	36,762	277,751	378,634	100,883	409,552
	1923	262	28,364	48,108	354,030	516,923	162,892	332,560
	1921	176	16,070	23,833	168,791	221,313	52,522	----------

Footnotes at end of table.

No. 814.—MANUFACTURES SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
PRODUCTS OF PETROLEUM AND COAL—Continued								
Fuel, manufactured	1929	23	426	584	5,919	9,498	3,579	14,893
	1927	20	274	446	4,873	7,203	2,330	9,594
	1925	14	246	369	3,936	6,019	2,084	6,573
Gas, manufactured, illuminating and heating.	1929	754	43,065	60,161	188,416	512,653	324,236	544,024
	1927	828	48,497	68,356	211,786	516,705	304,920	496,014
	1925	919	46,998	67,436	178,423	455,460	277,037	428,132
	1923	939	42,282	59,600	191,120	450,097	258,977	358,605
	1921	954	34,956	53,306	202,253	411,196	208,942	----------
Lubricating oils and greases, not made in petroleum refineries.[2]	1929	177	2,577	3,739	39,571	69,584	30,013	13,281
Petroleum refining	1929	390	80,596	131,177	2,031,341	2,639,665	608,324	789,849
	1927	354	71,234	113,717	1,752,997	2,142,649	389,651	552,651
	1925	359	65,324	104,645	1,889,678	2,376,657	486,979	393,753
	1923	382	66,717	103,834	1,425,053	1,793,700	368,647	349,154
	1921	366	63,189	102,294	1,382,170	1,727,440	345,270	----------
RUBBER PRODUCTS								
Boots and shoes, rubber.	1929	22	25,659	29,945	34,396	102,538	68,141	62,603
	1927	22	26,848	32,079	43,373	124,608	81,235	68,359
	1925	23	24,999	28,058	40,566	115,935	75,368	59,413
Rubber tires and inner tubes.	1929	91	83,263	127,082	429,607	770,177	340,570	463,257
	1927	109	78,256	120,064	499,221	869,688	370,467	451,724
	1925	126	81,640	120,614	559,940	925,002	365,062	403,227
	1923	160	73,963	108,623	365,165	644,194	279,029	370,551
	1921	178	55,496	75,054	291,554	496,123	204,569	----------
Rubber goods, other than tires, inner tubes, and boots and shoes.[17]	1929	412	40,226	50,279	114,674	244,746	130,071	295,452
	1927	385	36,893	45,931	117,777	230,781	113,005	270,539
	1925	381	35,230	42,613	121,224	219,869	98,645	197,051
	1923	344	34,470	39,790	90,729	182,584	91,855	178,899
	1921	294	23,889	25,131	54,192	114,747	60,555	----------
LEATHER AND ITS MANUFACTURES								
Leather: Tanned, curried, and finished.	1929	471	49,932	63,414	337,598	481,340	143,742	229,660
	1927	494	52,924	67,887	331,985	494,256	162,271	220,530
	1925	531	52,263	65,834	296,953	452,186	155,233	215,678
	1923	597	59,703	73,784	321,750	488,898	167,148	230,187
	1921	608	48,955	57,741	277,725	383,365	105,640	----------
Finished products of leather, total.	1929	3,815	268,482	295,999	794,344	1,424,636	630,292	207,021
	1927	3,771	263,067	296,560	756,656	1,375,049	618,393	199,061
	1925	3,712	261,762	289,512	715,927	1,311,523	595,596	197,495
	1923	4,272	285,747	315,712	775,065	1,404,735	629,670	190,277
	1921	4,205	231,116	256,671	656,673	1,160,821	504,148	----------
Belting, leather	1929	207	2,602	3,550	20,680	35,632	14,952	6,823
	1927	173	2,164	2,925	16,185	27,266	11,080	6,728
	1925	168	2,644	3,505	18,868	31,811	12,943	6,889
Boots and shoes, other than rubber.	1929	1,341	205,640	222,408	515,055	965,923	450,867	141,071
	1927	1,357	203,110	225,090	494,553	944,714	450,161	138,706
	1925	1,460	206,992	225,788	481,632	925,383	443,751	139,569
	1923	1,606	225,216	250,346	527,457	1,000,078	472,621	128,550
	1921	1,505	183,502	204,954	478,432	867,476	389,044	----------
Boot and shoe cut stock, not made in boot and shoe factories.	1929	210	9,499	10,320	107,546	133,448	25,902	15,816
	1927	201	8,611	9,354	97,966	121,022	23,056	13,718
	1925	245	7,977	8,906	75,326	94,048	18,721	14,859
Boot and shoe findings, not made in boot and shoe factories.	1929	382	10,376	11,058	31,964	58,625	26,661	20,143
	1927	379	9,950	11,202	31,862	57,433	25,571	18,021
	1925	326	8,605	9,695	29,248	52,064	22,816	15,419

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
LEATHER, ETC.—Continued								
Gloves and mittens, leather.	1929	257	9,203	9,204	20,206	39,123	18,917	3,488
	1927	232	9,106	8,814	19,276	36,662	17,386	2,603
	1925	226	7,115	6,915	17,779	33,293	15,514	3,266
Pocketbooks, purses, and cardcases.	1929	290	10,429	15,229	35,352	68,628	33,276	1,817
	1927	257	8,570	13,170	29,619	57,345	27,726	1,725
	1925	190	6,826	9,022	22,442	43,105	20,663	1,356
Saddlery and harness	1929	260	3,339	3,714	13,834	23,339	9,504	4,669
	1927	264	4,023	4,541	16,526	27,356	10,830	4,908
	1925	258	4,570	5,060	18,776	30,084	11,308	5,021
Trunks, suitcases, and bags.	1929	467	11,359	13,757	31,694	63,969	32,275	10,069
	1927	495	10,345	13,085	29,128	59,959	30,830	9,001
	1925	475	10,348	13,226	31,382	61,224	29,842	7,893
Leather goods, not elsewhere classified.	1929	392	6,035	6,760	18,013	35,951	17,938	3,134
	1927	413	7,188	8,379	21,540	43,292	21,752	3,651
	1925	364	6,685	7,396	20,474	40,512	20,038	3,223
STONE, CLAY, AND GLASS PRODUCTS								
Industries using stone as a material, total.	1929	5,147	116,398	171,627	268,463	751,256	482,792	1,856,952
	1927	5,156	126,569	187,879	303,632	787,843	484,211	1,672,639
	1925	4,852	123,699	178,644	300,793	779,031	478,238	1,365,906
	1923	4,621	118,560	167,466	273,368	697,461	424,092	1,071,210
	1921	4,752	84,565	109,834	212,557	464,613	252,056	----------
Concrete products	1929	2,439	16,593	22,682	34,059	92,947	58,887	67,651
	1927	2,330	17,808	24,898	33,913	93,259	59,346	54,342
	1925	1,666	14,722	20,761	27,792	75,214	47,422	38,361
Marble, granite, slate, and other stone products.	1929	1,881	37,805	63,057	57,831	192,164	134,332	305,915
	1927	1,978	40,474	68,491	66,328	201,181	134,853	295,174
	1925	2,356	36,575	59,593	66,976	193,047	126,071	240,297
Lime	1929	237	8,554	9,476	13,908	35,816	21,908	90,276
	1927	260	10,903	12,191	17,269	41,587	24,318	84,195
	1925	283	12,095	14,002	20,049	50,736	30,687	87,871
Cement	1929	174	33,368	48,849	95,242	267,509	172,267	1,183,989
	1927	161	36,322	53,111	120,012	293,565	173,553	1,069,390
	1925	145	38,437	53,912	114,169	300,895	186,726	871,650
	1923	133	35,091	49,708	100,767	264,098	163,332	642,840
	1921	125	26,231	34,416	102,360	203,627	101,267	----------
Wall plaster, wallboard, and floor composition.	1929	236	7,463	10,007	28,313	70,663	42,350	142,354
	1927	221	10,014	14,412	31,998	83,856	51,858	116,230
	1925	222	10,978	16,078	39,553	90,957	51,404	82,863
Asbestos products, other than steam packing or pipe and boiler covering.	1929	67	8,092	10,777	25,408	56,164	30,756	40,458
	1927	62	6,337	8,376	21,518	44,156	22,639	26,525
	1925	49	6,129	7,692	19,225	36,274	17,049	22,918
Emery wheels and other abrasive and polishing appliances.	1929	67	3,873	5,820	12,417	32,154	19,738	18,113
	1927	68	3,261	4,608	10,840	24,182	13,342	13,464
	1925	63	3,352	4,770	11,104	25,730	14,626	11,654
Grindstones, pulpstones, and millstones, hones, whetstones, and similar products.[2]	1929	6	174	182	341	869	528	850
Sand-lime brick	1929	40	566	776	945	2,971	2,026	7,346
	1927	45	790	1,051	1,158	3,616	2,458	8,599
	1925	41	801	1,119	1,238	3,760	2,522	6,398

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
STONE, CLAY, ETC.—Continued								
Industries using clay and other earths as materials, total.	1929	2,370	133,667	158,476	122,822	441,267	318,444	641,300
	1927	2,598	148,850	182,466	156,264	488,559	332,295	707,248
	1925	2,688	150,953	189,012	155,937	502,770	346,833	700,775
	1923	2,734	151,176	185,282	155,034	497,812	342,778	613,862
	1921	2,624	106,627	120,200	108,774	316,056	207,282	----------
Clay products (other than pottery) and nonclay refractories.	1929	1,749	93,336	106,918	81,699	294,935	213,236	533,887
	1927	1,846	100,972	121,968	99,870	319,908	220,038	529,581
	1925	1,939	102,777	127,127	100,013	333,730	233,717	517,204
	1923	1,983	102,723	123,773	103,318	333,416	230,098	480,576
	1921	1,881	68,759	73,726	68,276	194,329	126,053	----------
Pottery, including porcelain ware.	1929	313	35,409	43,656	27,007	110,622	83,615	61,868
	1927	316	36,667	45,150	33,581	110,597	77,017	54,879
	1925	309	36,536	46,769	33,926	111,078	77,152	50,141
China firing and decorating, not done in potteries.	1929	27	317	420	640	1,554	914	53
	1927	31	366	428	682	1,692	1,010	43
	1925	31	333	386	672	1,590	918	38
Crucibles	1929	11	321	430	1,035	2,945	1,909	1,680
	1927	11	258	344	772	1,982	1,210	1,688
	1925	11	284	381	755	2,092	1,337	1,476
Graphite, ground and refined.	1929	11	494	627	1,458	3,760	2,302	3,156
	1927	13	289	341	1,319	2,932	1,612	3,011
	1925	11	228	278	1,328	2,569	1,241	2,927
Minerals and earths, ground or otherwise treated.[2]	1929	88	1,679	2,188	8,938	17,409	8,471	39,117
Statuary and art goods, factory product.	1929	171	2,111	4,236	2,045	10,042	7,997	1,539
	1927	136	2,028	4,404	2,415	10,187	7,772	1,137
	1925	137	2,033	4,188	2,078	9,330	7,251	1,340
Glass and manufactures of glass, total.	1929	998	78,335	102,553	135,270	368,934	233,664	356,150
	1927	919	74,598	93,928	134,879	336,147	201,268	329,244
	1925	938	78,384	99,356	146,696	358,850	212,154	281,476
	1923	962	81,956	100,819	145,070	367,848	222,778	250,982
	1921	971	61,798	77,031	106,926	252,420	145,494	----------
Glass	1929	263	67,527	87,795	103,294	303,819	200,525	341,979
	1927	269	65,825	81,353	109,911	282,394	172,483	318,298
	1925	310	69,371	86,736	113,652	295,959	182,307	271,639
	1923	333	73,335	89,898	113,170	309,353	196,183	240,528
	1921	329	54,748	68,224	86,036	213,471	127,435	----------
Glass cutting, staining, and ornamenting.	1929	431	6,029	7,815	16,319	33,273	16,954	5,757
	1927	400	4,465	6,215	8,779	22,328	13,549	3,316
	1925	410	4,860	6,517	13,331	27,943	14,612	3,531
Mirrors, framed and unframed.	1929	304	4,779	6,943	15,658	31,843	16,185	8,414
	1927	250	4,308	6,361	16,189	31,425	15,236	7,630
	1925	218	4,153	6,104	19,713	34,949	15,235	6,306
IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY								
Crude iron and steel and rolled products, total.	1929	591	419,535	730,974	2,514,818	4,137,214	1,622,396	7,532,530
	1927	602	389,270	645,534	2,269,210	3,488,744	1,219,534	6,781,058
	1925	595	399,914	660,297	2,429,378	3,711,354	1,281,976	6,143,927
	1923	658	424,913	696,760	2,872,028	4,161,938	1,289,910	5,999,941
	1921	628	254,213	354,357	1,366,175	1,901,430	535,255	----------
Iron and steel: Blast furnaces.	1929	105	24,960	41,959	610,294	771,425	161,132	2,221,548
	1927	116	27,958	44,258	579,555	708,904	129,349	(18)
	1925	122	29,188	45,312	617,417	765,286	147,869	1,380,394
	1923	169	36,712	58,936	827,630	1,007,613	179,983	1,686,419
	1921	134	18,698	29,370	361,050	419,771	58,721	----------

Footnotes at end of table.

No. 814.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
IRON AND STEEL, ETC.—Continued								
Iron and steel: Steel works and rolling mills.	1929	486	394,575	689,016	1,904,524	3,365,789	1,461,265	5,310,932
	1927	486	361,312	601,275	1,689,655	2,779,840	1,090,185	[19]6,781,058
	1925	473	370,726	614,985	1,811,961	2,946,068	1,134,107	4,763,533
	1923	489	388,201	637,825	2,044,398	3,154,325	1,109,927	4,313,522
	1921	494	235,515	324,987	1,005,125	1,481,659	476,534	----------
Other iron and steel products, total.[1]	1929	6,053	463,262	649,850	1,349,740	3,000,792	1,651,052	1,678,956
	1927	5,738	445,697	618,278	1,275,405	2,708,850	1,433,445	1,541,672
	1925	5,468	450,869	623,544	1,304,707	2,747,327	1,442,621	1,374,799
	1923	5,695	467,272	627,412	1,280,713	2,665,732	1,385,019	1,259,068
	1921	5,623	317,213	376,518	773,996	1,554,110	780,114	----------
Bolts, nuts, washers, and rivets, not made in rolling mills.[20]	1929	117	18,675	22,116	44,212	102,392	58,180	66,743
	1927	115	18,614	17,324	38,302	75,876	37,574	69,403
	1925	127	13,907	17,042	38,507	75,926	37,419	59,767
Cast-iron pipe	1929	72	19,741	22,552	34,289	80,261	69,757	45,971
	1927	82	22,892	25,982	48,225	95,089	46,864	63,120
	1925	77	23,033	27,438	48,847	100,919	52,073	54,820
Doors, shutters, and windows, sash and frames, metal.	1929	149	9,565	17,078	29,178	72,160	42,982	25,027
	1927	117	8,050	15,564	25,602	65,280	39,678	20,626
	1925	92	6,791	12,899	21,628	50,078	28,450	16,699
Forgings, iron and steel, not made in rolling mills.[20 21]	1929	218	20,548	34,505	71,716	156,249	84,533	147,511
	1927	219	15,594	23,540	52,102	105,036	52,934	127,975
	1925	227	20,483	31,538	68,577	135,919	67,341	121,056
Nails, spikes, etc., not made in wire mills or rolling mills.[20]	1929	55	2,027	2,553	6,244	12,855	6,611	8,806
	1927	56	2,100	2,670	5,157	11,753	6,597	8,073
	1925	58	2,227	2,610	5,646	12,318	6,673	8,102
Springs, steel, except wire, not made in rolling mills.[20]	1929	86	5,842	9,314	25,372	46,267	20,894	24,318
	1927	94	5,753	8,913	24,599	43,821	19,222	22,263
	1925	98	5,897	8,989	23,609	44,469	20,860	22,492
Steel barrels, kegs, and drums.	1929	53	4,110	5,769	21,947	37,825	15,878	15,289
	1927	39	2,853	3,986	14,736	24,105	9,369	11,229
	1925	33	2,021	2,914	12,743	19,928	7,185	7,739
Structural and ornamental iron and steel work, not made in rolling mills.[20]	1929	1,482	54,947	87,786	246,413	477,037	230,624	266,133
	1927	1,284	52,392	84,578	243,446	440,376	196,930	251,670
	1925	1,136	48,341	77,411	237,653	420,998	183,345	211,732
	1923	1,056	51,591	80,833	225,487	406,117	180,630	205,518
	1921	1,021	32,897	47,455	151,011	250,086	99,075	----------
Iron and steel, processed.	1929	46	511	878	1,070	3,865	2,796	2,210
	1927	33	231	392	510	1,443	934	1,716
	1925	26	306	557	643	2,114	1,471	1,870
Wrought pipe, welded and heavy riveted, not made in rolling mills.[20]	1929	51	11,474	18,762	70,569	125,315	54,746	68,892
	1927	44	11,083	16,066	55,779	98,186	42,407	53,938
	1925	42	10,871	17,157	59,142	94,695	35,553	41,306
Firearms	1929	21	6,838	9,200	4,117	21,970	17,853	13,065
	1927	20	6,130	7,934	5,048	19,452	14,405	15,747
	1925	20	4,470	5,584	3,174	15,179	12,005	14,580
Galvanizing and other coating, not done in rolling mills.[20]	1929	65	1,126	1,564	3,939	7,667	3,727	2,266
	1927	59	953	1,449	3,722	6,951	3,228	2,657
	1925	54	804	1,128	2,892	5,933	3,041	1,881
Hardware, not elsewhere classified.	1929	484	52,098	67,703	76,480	229,344	152,864	112,705
	1927	485	47,834	60,827	71,877	208,254	136,377	99,674
	1925	476	52,349	65,562	77,503	225,053	147,550	98,278
	1923	473	52,205	63,471	80,598	215,960	135,362	84,006
	1921	456	35,228	36,240	41,520	120,600	79,080	----------
Plumbers' supplies, not including pipe or vitreous china sanitary ware.	1929	255	27,943	35,731	49,033	129,674	80,641	99,421
	1927	231	29,245	40,212	55,633	145,262	89,629	90,293
	1925	239	33,280	46,954	63,610	167,878	104,268	84,534
Safes and vaults [2]	1929	27	3,033	4,439	6,392	19,362	12,970	10,806
	1927	25	3,386	4,494	7,226	18,440	11,213	9,688

Footnotes at end of table.

No. 814.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
IRON AND STEEL, ETC.—Continued								
Screw-machine products and wood screws.	1929	273	19,881	28,987	39,163	105,975	66,812	64,840
	1927	218	13,690	18,055	25,910	60,020	34,110	43,468
	1925	205	14,071	18,194	25,076	59,615	34,539	42,484
Steam fittings and steam and hot-water heating apparatus.	1929	240	39,621	58,975	72,708	228,310	155,602	151,514
	1927	232	42,893	64,851	76,835	225,158	148,323	132,723
	1925	225	43,260	63,979	77,357	228,930	151,573	109,313
	1923	236	44,141	64,807	83,297	221,954	138,657	91,085
	1921	274	30,808	39,596	50,213	127,367	77,154	----------
Stoves and ranges (other than electric), and warm-air furnaces.	1929	612	46,615	65,135	100,744	271,740	170,996	113,185
	1927	564	45,180	64,327	93,096	258,286	165,190	100,009
	1925	564	46,514	66,299	95,873	264,303	168,430	94,126
	1923	588	49,812	68,331	102,568	268,262	165,694	87,664
	1921	512	32,451	39,308	62,217	144,285	82,068	----------
Tin cans and other tinware, not elsewhere classified.[22]	1929	232	31,497	39,379	194,987	296,901	101,915	77,332
	1927	236	29,721	35,001	169,421	253,479	84,057	64,005
	1925	221	29,901	34,392	175,779	260,360	84,581	48,728
	1923	241	30,511	32,816	135,980	215,971	79,991	41,252
	1921	244	22,711	24,595	108,748	168,305	59,557	----------
Tools and cutlery: Cutlery (not including silver and plated cutlery) and edge tools.	1929	239	14,991	17,647	14,873	78,621	63,747	49,886
	1927	230	17,178	20,270	19,126	76,688	57,562	43,419
	1925	211	16,407	20,226	20,562	80,263	59,701	51,673
Files	1929	33	3,884	5,240	3,053	14,114	11,062	12,091
	1927	36	3,948	5,145	3,136	12,974	9,838	10,979
	1925	38	4,209	5,393	3,518	13,541	10,023	11,534
Saws	1929	81	4,137	5,727	6,884	22,625	15,741	11,904
	1927	77	4,182	5,754	7,674	22,628	14,954	14,526
	1925	71	4,710	5,873	8,224	24,709	16,485	14,287
Tools, not including edge tools, machine tools, files, or saws.[23]	1929	534	19,302	25,808	32,101	99,461	67,360	65,965
	1927	*405*	*16,447*	*20,941*	*28,058*	*76,607*	*48,549*	*57,024*
	1927	657	25,232	34,465	37,057	117,431	80,374	85,963
	1925	663	25,340	34,294	39,023	121,263	82,240	78,686
Wire, drawn from purchased bars or rods.	1929	81	22,468	35,110	126,182	213,997	87,815	150,345
	1927	73	19,866	30,038	128,092	190,710	62,617	152,574
	1925	68	18,544	26,928	127,251	184,463	57,212	138,115
	1923	64	21,310	29,862	133,883	196,364	62,481	123,923
	1921	61	14,832	17,810	62,705	99,946	37,240	----------
Wirework, not elsewhere classified.	1929	547	22,388	27,890	68,073	146,805	78,732	48,855
	1927	512	21,697	26,439	63,093	128,536	65,443	45,858
	1925	462	19,268	23,835	59,604	115,429	55,825	35,943
NONFERROUS METALS AND THEIR PRODUCTS								
Smelting and refining, total.	1929	250	36,046	56,447	1,344,040	1,519,642	175,601	711,418
	1927	228	34,087	50,515	935,014	1,086,153	151,138	481,441
	1925	238	37,194	54,793	1,070,193	1,244,506	174,313	479,412
	1923	205	37,634	55,095	924,228	1,060,440	136,213	460,321
	1921	222	20,999	27,807	419,419	491,156	71,737	----------
Primary, total	1929	75	30,981	49,239	1,199,025	1,345,800	146,775	689,023
	1927	69	30,510	44,800	807,242	942,735	135,493	465,164
	1925	71	32,992	47,948	912,064	1,067,125	155,061	455,496
	1923	88	35,146	51,510	830,090	952,734	122,644	446,047
	1921	85	19,014	25,149	368,332	430,032	61,700	----------
Copper	1929	26	14,544	23,952	920,352	994,784	74,432	412,874
	1927	26	13,924	20,582	527,764	609,299	81,535	328,799
	1925	26	15,588	22,642	573,190	665,177	91,986	321,909
	1923	29	16,777	25,459	554,100	625,433	71,333	332,943
	1921	28	8,293	11,199	205,904	234,895	28,991	----------

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
NONFERROUS METALS AND THEIR PRODUCTS—Contd.								
Lead	1929	19	4,819	7,577	203,914	232,115	28,201	59,936
	1927	18	5,398	7,690	202,859	225,138	22,279	48,298
	1925	17	6,115	9,002	254,881	283,043	28,162	47,219
	1923	20	6,194	8,768	207,315	227,735	20,420	42,377
	1921	23	4,509	5,958	134,061	150,594	16,533	----------
Zinc	1929	30	11,618	17,710	74,760	118,901	44,141	216,213
	1927	25	11,188	16,528	76,619	108,298	31,679	93,067
	1925	28	11,289	16,305	83,992	118,906	34,913	86,368
Secondary, total	1929	175	5,065	7,208	145,015	173,842	28,827	22,395
	1927	159	3,577	5,715	127,772	143,418	15,646	16,277
	1925	167	4,202	6,845	158,130	177,381	19,251	23,916
Gold, silver, and platinum, reducing and refining, not from the ore.	1929	69	931	1,634	61,570	67,959	6,389	4,221
	1927	57	801	1,435	58,877	62,647	3,770	4,288
	1925	65	1,258	2,166	88,867	95,243	6,376	9,676
Metals other than gold, silver, or platinum, not from the ore.	1929	106	4,134	5,574	83,445	105,883	22,438	18,174
	1927	102	2,776	4,280	68,894	80,771	11,876	11,989
	1925	102	2,944	4,680	69,263	82,138	12,875	14,240
Metals and manufactures of metals.[1]	1929	7,271	278,694	386,032	1,121,632	2,081,416	959,784	975,779
	1927	6,533	238,580	332,670	848,199	1,590,955	742,755	744,970
	1925	6,768	239,422	327,859	878,245	1,595,045	716,800	678,128
	1923	7,296	260,164	339,984	843,410	1,576,720	733,310	710,871
	1921	7,631	191,681	229,085	466,846	916,903	450,058	----------
Aluminum manufactures.	1929	150	21,210	29,693	94,036	153,457	59,421	107,846
	1927	139	14,798	20,892	79,839	123,557	43,719	71,907
	1925	127	14,353	19,753	84,985	127,831	42,846	62,366
Clocks, clock movements, time-recording devices, and time stamps.	1929	56	10,401	12,482	10,675	42,166	31,491	12,451
	1927	52	9,865	11,751	10,063	38,196	28,133	9,510
	1925	45	7,945	9,238	8,920	29,379	20,459	8,614
Collapsible tubes [24]	1929	17	1,822	1,782	5,375	8,913	3,538	2,272
	1927	17	1,984	1,918	7,104	11,351	4,247	2,849
	1925	16	1,948	1,877	5,694	9,449	3,755	2,671
Watches and watch movements.	1929	8	10,738	12,981	10,456	34,370	23,914	10,146
	1927	11	12,192	15,090	5,871	32,278	26,407	9,357
	1925	13	13,915	16,557	6,178	36,254	30,076	12,348
Watch and clock materials and parts, except watchcases.	1929	17	311	287	257	931	674	197
	1927	17	415	407	315	1,309	994	210
	1925	25	501	480	376	1,363	987	219
Watchcases	1929	40	3,404	4,626	4,631	13,491	8,860	5,581
	1927	40	3,360	4,326	5,311	13,725	8,414	4,121
	1925	45	3,480	4,463	6,050	14,793	8,743	4,106
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.	1929	2,160	28,591	43,252	112,648	222,485	109,837	53,754
	1927	1,981	24,527	38,668	98,386	191,129	92,743	35,880
	1925	2,107	24,996	37,825	84,080	175,043	90,963	35,273
	1923	2,524	28,852	42,446	93,507	188,908	95,401	34,243
	1921	3,105	25,172	36,562	75,896	148,776	72,880	----------
Fire extinguishers, chemical.	1929	28	740	959	4,188	8,566	4,379	1,464
	1927	26	832	1,192	4,010	8,035	4,025	1,564
	1925	26	842	1,131	4,122	8,037	3,915	1,440
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.	1929	582	40,000	50,107	87,639	204,307	116,667	98,454
	1927	476	30,853	38,172	68,880	150,936	82,056	73,619
	1925	465	31,254	38,277	79,737	160,992	81,255	68,121
	1923	412	36,552	44,348	86,340	176,371	90,031	71,053
	1921	388	24,807	27,880	49,293	103,106	53,813	----------

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
NONFERROUS METALS, ETC.—Contd.								
Gas and electric fixtures, lamps, lanterns, and reflectors.	1929	614	23,580	33,269	57,921	144,963	87,042	40,204
	1927	481	21,030	29,261	55,609	127,802	72,194	31,291
	1925	517	22,334	31,072	57,771	129,698	71,928	30,038
Needles, pins, hooks and eyes, and snap fasteners.	1929	43	6,242	6,566	6,188	22,031	15,843	6,694
	1927	45	5,606	6,098	5,923	20,325	14,402	7,250
	1925	48	5,850	5,856	5,926	18,174	12,248	7,603
Nonferrous-metal alloys and products.[25]	1929	1,225	79,183	116,944	600,611	909,806	309,195	530,082
	1927	1,197	65,923	95,351	378,190	581,569	203,379	411,925
	1925	1,140	65,135	93,820	401,316	593,556	192,240	369,239
	1923	1,156	67,289	92,249	381,935	573,044	191,108	314,757
	1921	1,047	42,287	49,449	161,273	252,278	91,004	----------
Gold leaf and foil	1929	75	1,177	1,134	1,933	3,978	2,045	383
	1927	77	1,146	1,120	1,721	3,571	1,850	346
	1925	84	1,148	1,113	1,839	3,746	1,907	326
Jewelry	1929	1,536	27,922	37,980	79,805	181,387	101,582	27,402
	1927	1,367	24,116	36,766	76,915	164,865	87,950	17,070
	1925	1,468	23,837	35,177	79,886	166,816	86,931	17,296
Silversmithing and silverware.	1929	83	5,007	7,636	10,135	30,452	20,318	7,315
	1927	84	4,967	7,803	11,165	30,704	19,539	7,499
	1925	93	5,587	8,607	13,106	32,532	19,426	7,770
Plated ware	1929	96	10,728	14,942	16,787	55,430	38,643	28,899
	1927	94	11,752	16,142	20,212	56,720	36,508	27,712
	1925	90	11,290	15,236	20,071	54,330	34,259	23,914
Tin and other foils, not including gold foil.[24]	1929	7	1,710	1,856	13,548	20,955	7,406	18,642
	1927	10	1,658	2,084	15,350	20,952	5,602	18,770
	1925	10	1,670	2,124	15,648	20,611	4,963	16,041
Electroplating	1929	534	5,928	9,537	4,799	23,728	18,929	23,993
	1927	419	3,556	5,629	3,335	13,930	10,595	14,090
	1925	449	3,337	5,254	2,541	12,441	9,899	10,743
MACHINERY, EXCEPT TRANSPORTATION EQUIPMENT								
Agricultural implements.	1929	294	41,662	51,942	114,057	277,804	163,748	128,451
	1927	277	33,346	46,415	85,666	202,732	117,066	117,966
	1925	303	28,696	37,388	73,850	169,468	95,618	115,325
	1923	312	30,962	40,511	63,492	151,286	87,794	121,975
	1921	353	30,359	39,835	87,267	163,817	76,549	----------
Cash registers, adding, calculating, and card tabulating machines.	1929	46	16,840	29,746	10,767	110,001	99,234	28,257
	1927	41	14,372	21,756	11,132	106,845	95,713	21,954
	1925	41	13,296	21,142	11,166	98,384	87,218	17,616
Electrical machinery, apparatus, and supplies.[26]	1929	1,800	322,660	442,910	978,606	2,300,916	1,322,310	896,315
	1927	1,777	241,566	336,239	645,762	1,637,307	991,545	661,168
	1925	1,739	239,921	323,835	636,692	1,540,002	903,310	589,398
	1923	1,671	234,892	305,455	548,627	1,293,002	744,375	480,268
	1921	1,333	161,204	194,242	344,070	833,985	489,915	----------
Engines, turbines, tractors, and water wheels.	1929	199	61,143	98,705	202,900	457,218	254,317	289,009
	1927	215	54,341	84,791	165,203	367,879	202,676	241,788
	1925	220	51,099	73,585	145,784	313,588	167,804	224,194
	1923	249	48,495	70,878	124,543	266,998	142,455	165,137
	1921	296	35,567	52,005	111,698	199,499	87,801	----------
Foundry and machine-shop products, not elsewhere classified.[26 27]	1929	8,609	454,320	697,680	1,038,636	2,791,462	1,752,826	1,812,290
	1927	*8,085*	*398,672*	*590,924*	*878,771*	*2,268,653*	*1,389,882*	*1,550,240*
	1927	8,380	403,939	601,023	883,651	2,291,543	1,407,891	1,561,934
	1925	8,203	403,832	600,022	894,406	2,264,376	1,369,970	1,446,458
	1923	8,531	448,777	642,431	936,231	2,337,073	1,400,842	1,234,323
	1921	9,013	321,363	412,359	653,364	1,565,527	912,163	----------
Gas machines, gas meters, and water and other liquid meters.	1929	72	6,111	8,932	15,187	40,623	25,436	11,024
	1927	58	5,915	8,792	15,591	36,715	21,124	10,427
	1925	61	5,514	7,429	13,038	34,292	21,254	7,375
Machine-tool accessories and small metal-working tools, not elsewhere classified.[28]	1929	722	26,682	51,085	26,993	144,411	117,418	64,398

Footnotes at end of table.

No. 814.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MACHINERY, EXCEPT TRANSPORTATION EQUIPMENT—Con.								
Machine tools [28]	1929	280	47,391	76,410	64,284	244,578	180,294	141,778
	1927	*288*	*32,383*	*47,403*	*43,151*	*145,855*	*102,703*	*125,426*
	1927	355	35,269	52,366	46,115	159,513	113,398	131,670
	1925	329	30,831	46,711	43,826	144,202	100,376	118,819
	1923	350	33,373	47,337	40,977	137,206	96,229	109,195
	1921	348	21,307	25,252	23,978	67,729	43,751	----------
Pumps (hand and power) and pumping equipment.	1929	322	23,142	34,974	66,802	164,009	97,207	74,519
	1927	278	18,671	27,119	52,765	130,501	77,826	64,763
	1925	253	17,935	25,278	50,328	120,148	69,820	56,470
Refrigerators, mechanical.[29]	1929	34	16,883	26,196	72,413	161,566	89,153	44,953
	1927	22	11,285	17,712	42,651	96,514	53,862	[7] 32,551
Scales and balances	1929	59	4,118	5,997	7,438	30,381	22,943	9,738
	1927	60	3,906	5,461	7,454	24,655	17,202	8,766
	1925	71	4,292	5,783	7,349	27,237	19,888	9,771
Sewing machines and attachments.[29]	1929	39	10,467	14,976	16,458	45,096	28,637	29,659
	1927	35	9,997	13,748	14,073	39,724	25,651	31,286
Textile machinery and parts.	1929	376	27,019	37,836	36,556	122,438	85,882	66,539
	1927	367	26,154	36,481	36,181	116,921	80,740	64,532
	1925	379	27,869	37,464	39,037	121,653	82,616	61,738
Typewriters and parts [30]	1929	26	16,945	22,319	7,249	61,858	54,609	23,383
	1927	26	15,603	19,398	9,936	55,319	45,383	14,653
Washing machines, wringers, driers, and ironing machines, for household use.	1929	65	8,189	12,072	40,707	82,330	41,623	26,720
	1927	75	7,789	10,950	34,528	[7] 70,244	[7] 35,716	20,697
	1925	82	7,077	9,990	32,748	69,568	36,820	18,028
Windmills and windmill towers.	1929	15	1,554	2,145	3,572	8,640	5,069	4,491
	1927	16	1,355	1,882	3,234	7,514	4,281	3,608
	1925	15	1,391	1,830	3,376	7,984	4,608	3,378
TRANSPORTATION EQUIPMENT								
Motor vehicles, not including motor cycles.	1929	245	226,171	366,676	2,402,007	3,723,579	1,321,572	714,112
	1927	264	187,910	321,664	1,889,426	2,848,443	959,017	725,674
	1925	297	197,728	341,210	2,108,192	3,198,123	1,089,931	509,758
	1923	351	241,356	406,730	2,147,463	3,163,328	1,015,865	435,545
	1921	385	143,658	221,974	1,107,062	1,671,387	564,325	----------
Motor-vehicle bodies and motor-vehicle parts.	1929	1,154	221,332	366,503	856,986	1,537,930	680,944	824,705
	1927	1,213	181,489	291,291	641,307	1,151,426	510,120	551,639
	1925	1,358	228,382	372,721	862,721	1,523,280	660,558	662,255
	1923	2,120	163,530	253,147	564,107	1,013,113	449,006	425,088
	1921	1,974	69,119	96,779	213,965	408,017	194,052	----------
Motor cycles, bicycles, and parts.	1929	21	4,392	6,264	11,281	23,895	12,613	11,124
	1927	29	3,897	5,442	10,174	21,454	11,280	10,753
	1925	36	4,193	5,662	12,177	24,258	12,081	12,609
Carriages, wagons, wheelbarrows, sleighs, and sleds.	1929	88	2,873	3,418	8,398	16,450	8,052	14,399
	1927	117	3,387	4,212	10,648	19,422	8,774	18,207
	1925	152	4,833	5,792	12,860	24,935	12,075	20,449
Carriage, wagon, sleigh, and sled materials.	1929	45	681	565	1,486	2,792	1,307	4,760
	1927	44	764	665	1,555	3,041	1,486	5,213
	1925	81	1,389	1,216	2,659	5,118	2,459	8,689
Carriages, and sleds, children's.	1929	79	7,102	8,313	13,515	28,818	15,303	10,870
	1927	89	7,030	7,814	13,895	28,668	14,773	10,309
	1925	86	6,926	7,923	13,553	30,174	16,620	9,853
Aircraft and parts	1929	132	14,706	21,924	27,368	71,153	43,785	16,505
	1927	70	4,422	6,857	7,517	21,162	13,645	6,031
	1925	44	2,701	4,222	2,870	12,525	9,655	3,735
Locomotives, not made in railroad repair shops.	1929	16	11,045	17,994	52,808	83,858	31,050	98,482
	1927	17	12,961	17,648	45,688	76,719	31,031	148,971
	1925	18	12,809	18,219	41,717	65,389	23,672	114,209

Footnotes at end of table.

No. 814. MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TRANSPORTATION EQUIPMENT—Con.								
Cars, electric and steam - railroad, not built in railroad repair shops.	1929	147	40,015	63,387	223,889	328,220	104,331	240,440
	1927	135	38,031	60,625	209,113	312,509	103,396	236,415
	1925	141	50,393	77,247	266,054	390,771	124,718	243,934
	1923	139	80,590	129,178	413,660	604,351	190,691	250,102
	1921	118	48,033	70,945	211,938	340,536	128,598	----------
Ship and boat building, steel and wooden, including repair work.	1929	624	59,090	88,274	85,849	231,300	145,451	337,446
	1927	559	55,014	87,081	78,626	211,127	132,501	314,474
	1925	565	50,224	74,275	66,299	177,182	110,883	303,470
	1923	567	62,287	90,720	84,558	213,232	128,675	317,712
	1921	640	106,445	155,943	169,368	400,834	231,466	----------
RAILROAD REPAIR SHOPS								
Car and general construction and repairs, steam-railroad repair shops.	1929	1,851	367,781	590,203	515,652	1,184,435	668,783	1,076,681
	1927	1,794	397,088	600,517	515,070	1,205,191	690,120	1,037,464
	1925	1,842	425,234	619,834	533,908	1,248,867	714,959	934,839
	1923	1,801	488,505	723,742	599,377	1,433,680	834,303	735,635
	1921	1,766	385,006	624,181	473,011	1,180,030	707,019	----------
Car and general construction and repairs, electric-railroad repair shops.	1929	446	29,475	47,109	32,781	85,481	52,700	76,359
	1927	515	31,584	48,392	30,421	84,504	54,083	73,357
	1925	521	32,521	48,357	29,738	83,812	54,074	70,479
MISCELLANEOUS INDUSTRIES								
Musical instruments and phonographs, total.	1929	376	33,271	44,010	67,778	177,844	110,065	87,493
	1927	431	42,985	60,761	90,159	226,362	136,203	102,105
	1925	461	46,980	62,502	98,760	231,687	132,926	97,318
	1923	535	58,329	75,396	123,600	282,532	158,931	90,229
	1921	600	45,113	54,495	94,988	212,989	118,001	----------
Musical instruments and parts and materials, not elsewhere classified.	1929	106	3,176	4,581	3,836	14,274	10,438	6,033
	1927	99	4,018	5,737	4,641	17,892	13,251	5,356
	1925	100	4,556	6,520	5,575	20,329	14,754	4,907
Organs	1929	62	2,389	3,604	3,091	11,323	8,232	4,746
	1927	63	2,770	4,364	4,494	15,439	10,944	4,332
	1925	57	2,460	3,610	3,749	12,283	8,534	3,983
Pianos	1929	82	10,258	14,402	19,280	43,515	24,234	27,667
	1927	124	16,582	23,891	33,899	75,491	41,592	29,725
	1925	142	20,079	28,096	49,296	101,181	51,885	26,912
Piano and organ materials.	1929	67	3,033	3,597	4,248	11,883	7,635	10,944
	1927	85	5,399	6,594	9,657	22,245	12,587	14,185
	1925	94	8,618	10,131	15,294	36,836	21,543	15,734
Phonographs	1929	59	14,415	17,826	37,323	96,849	59,526	38,103
	1927	60	14,216	20,176	37,468	95,296	57,828	48,507
	1925	68	11,267	14,145	24,847	61,057	36,210	45,782
Tobacco manufactures, total.	1929	1,805	115,758	94,588	429,271	1,246,241	816,970	64,984
	1927	2,156	129,299	105,251	420,667	1,163,768	743,102	52,385
	1925	2,623	132,132	111,558	425,769	1,091,001	665,232	42,075
	1923	3,672	146,337	120,462	515,865	1,044,192	528,327	43,515
	1921	4,372	149,985	120,903	608,688	1,048,490	439,801	----------
Tobacco: Chewing and smoking, and snuff.	1929	153	10,838	8,955	72,494	179,333	106,839	15,467
	1927	159	13,125	10,661	85,310	198,245	112,934	16,566
	1925	178	15,024	12,185	94,419	216,186	121,768	17,541
Cigars and cigarettes	1929	1,652	104,920	85,633	356,777	1,066,908	710,131	49,517
	1927	1,997	116,174	94,589	335,356	965,524	630,168	35,819
	1925	2,445	117,108	99,373	331,351	874,815	543,464	24,534
	1923	3,466	130,036	107,723	369,491	821,226	451,735	24,894
	1921	4,146	133,357	108,161	452,212	806,749	354,537	----------

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Other industries, total.[1]	1929	12,455	268,056	362,155	862,951	2,003,401	1,140,450	513,518
	1927	11,733	268,172	363,664	867,335	1,926,960	1,059,624	683,190
	1925	11,132	260,391	334,690	827,080	1,802,631	975,551	593,166
	1923	11,132	270,815	332,528	790,071	1,676,873	886,803	567,767
	1921	10,790	223,123	266,703	611,931	1,296,480	684,549	----------
Artificial and preserved flowers and plants.	1929	191	3,216	3,218	5,527	14,425	8,898	603
	1927	190	4,715	5,050	7,889	19,576	11,688	541
	1925	187	4,305	4,287	7,265	17,824	10,559	737
Artists' materials	1929	68	1,167	1,429	4,155	9,460	5,304	3,397
	1927	61	1,211	1,430	3,772	8,205	4,433	3,250
	1925	62	1,317	1,568	3,802	8,321	4,518	2,982
Brooms	1929	407	4,542	4,169	9,648	19,166	9,519	4,658
	1927	394	4,450	4,275	9,176	18,445	9,269	4,401
	1925	421	4,725	4,654	11,213	21,714	10,501	5,399
Brushes, other than rubber.	1929	303	7,261	7,963	21,688	45,549	23,861	11,915
	1927	302	7,673	8,244	22,553	47,844	25,291	12,093
	1925	302	7,836	8,452	22,021	45,824	23,803	11,220
Buttons	1929	242	9,034	8,814	11,501	28,978	17,477	14,615
	1927	229	9,642	9,436	11,238	29,130	17,893	15,899
	1925	289	11,513	10,893	12,373	32,458	20,085	15,840
Carbon paper and inked ribbons.[30]	1929	57	1,251	1,702	7,992	17,295	9,303	3,642
	1927	49	1,078	1,514	6,020	13,793	7,773	3,267
Combs and hairpins, not made from metal or rubber.	1929	24	656	641	1,007	2,482	1,476	1,015
	1927	36	1,259	1,249	1,873	4,437	2,564	1,591
	1925	44	1,300	1,293	2,334	5,270	2,936	1,892
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.	1929	172	5,450	6,925	16,371	42,247	25,876	13,672
	1927	152	5,091	6,374	15,686	36,824	21,137	13,576
	1925	180	4,844	5,864	15,421	37,263	21,842	14,719
Dental goods and equipment.	1929	87	4,559	5,359	17,327	35,180	17,853	6,212
	1927	97	3,759	3,941	18,189	32,349	14,160	3,792
	1925	34	2,119	1,871	12,759	19,720	6,961	1,257
Fancy and miscellaneous articles, not elsewhere classified.	1929	813	18,715	18,878	35,110	85,389	50,279	11,088
	1927	595	16,965	18,307	34,674	83,006	48,333	10,802
	1925	532	14,552	14,960	29,155	69,769	40,614	9,071
Feathers, plumes, and manufactures thereof.	1929	39	257	310	386	1,141	755	100
	1927	38	322	397	534	1,438	904	103
	1925	70	888	976	1,881	4,179	2,298	334
Foundry supplies	1929	59	853	1,256	5,535	10,459	4,924	9,396
	1927	65	941	1,200	6,539	11,635	5,096	11,133
	1925	66	1,087	1,360	6,904	12,723	5,819	10,733
Fur goods	1929	2,855	15,752	33,330	176,107	277,593	101,486	5,511
	1927	2,756	16,640	37,671	195,323	299,615	104,292	5,655
	1925	2,000	16,556	35,164	159,316	254,266	94,950	4,985
	1923	1,758	14,439	27,923	126,162	198,043	71,881	4,299
	1921	1,707	12,052	22,421	84,537	139,366	54,829	----------
Furs, dressed	1929	248	5,167	8,596	18,649	40,237	21,588	10,769
	1927	172	5,540	10,361	7,072	27,681	20,609	12,467
	1925	133	5,056	8,206	7,296	25,423	18,126	9,858
Hair work	1929	59	359	432	505	1,694	1,189	44
	1927	69	515	598	830	2,279	1,449	21
	1925	85	864	975	3,046	6,090	3,043	13
Hand stamps and stencils and brands.	1929	332	2,891	4,086	3,812	15,036	11,224	3,596
	1927	293	2,668	3,842	3,734	14,156	10,422	3,159
	1925	323	2,930	4,015	4,070	15,321	11,250	3,658
Hats, straw, men's[2]	1929	50	3,380	3,688	8,705	18,739	10,034	1,956
	1927	48	3,263	4,232	11,783	21,718	9,935	1,554

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Instruments, professional and scientific.	1929	276	16,779	22,687	28,411	89,746	61,335	22,715
	1927	280	16,414	22,289	28,880	87,783	58,903	25,587
	1925	233	12,129	16,166	20,428	76,339	55,911	17,595
Ivory, shell, and bone work, not including buttons, combs, or hairpins.	1929	21	391	425	517	1,260	743	642
	1927	22	294	330	328	911	583	599
	1925	29	488	555	728	1,879	1,152	892
Jewelry and instrument cases.	1929	113	2,269	2,473	3,324	8,827	5,502	1,503
	1927	107	2,406	2,597	3,294	8,810	5,516	1,440
	1925	125	2,748	2,750	3,833	10,114	6,281	2,460
Lapidary work	1929	99	502	989	8,219	11,905	3,687	474
	1927	92	547	1,221	9,133	12,352	3,218	513
	1925	83	589	1,285	7,273	10,123	2,850	515
Mattresses and bed springs, not elsewhere classified.	1929	951	17,187	22,584	61,835	123,280	61,445	50,554
	1927	838	13,481	16,887	52,182	98,835	46,652	32,937
	1925	1,018	14,403	17,430	62,489	110,717	48,228	32,840
Models and patterns, not including paper patterns.	1929	803	6,768	13,240	5,315	30,616	25,301	12,373
	1927	693	5,584	10,545	4,659	23,495	18,836	11,465
	1925	689	5,262	9,420	4,927	22,485	17,557	10,473
Motion pictures, not including projection in theaters.	1929	142	10,783	24,860	38,441	184,102	145,661	49,732
	1927	142	8,415	18,637	34,867	134,343	99,476	32,160
	1925	132	5,573	13,066	33,258	93,636	60,378	29,472
Optical goods	1929	117	9,701	12,634	11,859	40,562	28,704	15,626
	1927	96	7,596	9,561	8,865	32,757	23,892	12,401
	1925	117	8,642	10,439	9,997	33,655	23,658	11,017
Paving materials, other than brick or granite.[2]	1929	126	2,375	3,731	13,589	29,275	15,687	30,393
Pencils, lead (including mechanical).	1929	38	5,703	6,292	10,756	27,773	17,017	11,721
	1927	27	5,301	5,943	9,931	24,500	14,568	9,832
	1925	25	5,636	6,031	9,169	25,051	15,882	8,209
Pens, fountain and stylographic; pen points, gold, steel, and brass[1]	1929	76	4,600	5,304	11,460	34,211	22,751	4,235
	1927	68	4,031	4,735	10,375	25,645	15,270	3,721
	1925	78	4,203	4,853	8,595	26,596	18,001	3,607
Photographic apparatus and materials.	1929	115	12,892	20,507	30,365	102,831	72,466	31,918
	1927	122	12,120	18,311	29,020	90,828	61,808	24,838
	1925	118	9,154	13,300	25,779	78,654	52,874	22,866
Pipes (tobacco)	1929	24	1,680	1,961	1,749	5,558	3,808	2,276
	1927	23	1,807	2,279	2,723	7,274	4,551	1,928
	1925	28	1,970	2,291	2,718	7,299	4,581	2,052
Roofing materials, not including wood, slate, burnt tile, asbestos, or metal.	1929	102	6,027	8,952	61,392	103,506	42,115	33,791
	1927	100	7,255	10,713	67,328	123,210	55,883	41,740
	1925	140	8,310	12,145	78,597	123,591	44,994	34,161
Sandpaper, emery paper, and other abrasive paper and cloth.	1929	11	1,228	1,740	8,375	17,219	8,843	6,927
	1927	10	917	1,228	5,471	12,232	6,761	2,834
	1925	12	1,230	1,714	7,342	15,623	8,281	4,513
Signs and advertising novelties.	1929	1,239	20,009	27,785	35,704	118,044	82,341	19,627
	1927	813	16,907	24,044	30,892	98,481	67,589	15,325
	1925	759	15,128	20,764	25,858	89,669	63,811	12,550
Soda-water apparatus	1929	54	2,764	3,922	10,490	24,510	14,020	5,265
	1927	48	2,838	4,223	10,391	23,929	13,538	5,042
	1925	60	2,372	3,628	8,632	22,032	13,400	4,180
Sporting and athletic goods, not incl. firearms or ammunition.	1929	242	10,793	13,135	24,482	58,289	33,806	18,039
	1927	188	9,689	11,595	19,394	44,943	25,549	13,484
	1925	181	8,724	10,262	17,875	42,629	24,755	11,550
Stationery goods, not elsewhere classified.	1929	203	11,078	12,430	32,184	74,062	41,878	11,523
	1927	194	8,987	9,792	27,016	56,987	29,971	8,891
	1925	217	11,399	12,076	31,108	67,809	36,701	10,970

Footnotes at end of table.

No. 814.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.	1929	171	7,266	9,660	21,596	45,433	23,837	30,881
	1927	159	5,946	7,905	19,794	43,045	23,250	29,810
	1925	172	6,086	8,072	20,372	43,871	23,499	25,579
Surgical and orthopedic appliances, including artificial limbs.[1]	1929	364	7,924	8,947	36,088	71,801	35,713	13,380
	1927	335	7,310	8,371	30,764	60,623	29,860	9,662
	1925	303	6,450	6,837	26,814	58,286	31,472	12,527
Theatrical scenery and stage equipment.	1929	55	547	992	2,097	5,508	3,411	618
	1927	39	561	1,380	2,330	5,745	3,415	998
	1925	33	391	854	1,520	3,578	2,058	413
Toys (not including children's wheel goods or sleds), games, and playground equipment.	1929	476	16,662	17,661	29,906	74,829	44,923	25,642
	1927	397	14,738	15,543	25,805	63,956	38,150	19,028
	1925	352	13,557	13,785	22,179	55,734	33,554	19,038
Umbrellas, parasols, and canes.	1929	141	2,855	2,778	10,907	17,994	7,087	3,068
	1927	164	3,308	3,411	14,021	23,156	9,135	2,411
	1925	176	3,731	3,696	16,594	27,299	10,705	3,027
Whips	1929	8	57	48	80	224	144	82
	1927	7	90	89	176	310	135	252
	1925	9	103	73	132	308	176	158
Window shades and fixtures.	1929	482	4,706	5,624	19,786	36,965	17,179	8,320
	1927	386	4,733	5,856	21,065	37,082	16,016	8,679
	1925	336	5,176	6,208	25,030	41,658	16,628	11,151

[1] Because of a change in classification of some of the industries included in this group for 1929 the figures for previous years have been revised to preserve comparability.
[2] Because of a change in classification no comparable statistics can be shown for earlier years.
[3] No data were compiled for 1925 except for San Francisco, Calif.
[4] For 1927 and 1929, included in "Peanuts, walnuts, and other nuts, processed."
[5] Prior to 1927 part of the establishments now in this industry were classified in the "Food preparations, not elsewhere classified," industry and part in the "Peanuts, grading, roasting, cleaning, and shelling" industry, which has been abandoned.
[6] Figures include cereal beverages ("near beer" and similar soft drinks).
[7] Revised; revision not carried into total.
[8] Data for work clothing were not tabulated separately prior to 1923; therefore, no comparable statistics can be given for earlier years for "Clothing, except work, etc."
[9] "Handkerchiefs," "Embroideries," "Trimmings," and "Millinery" were first treated as separate industries at the census for 1927. For prior censuses data for "Handkerchiefs" were included in part in "Furnishing goods, men's," and in part in "Millinery and lace goods"; data for "Embroideries," "Trimmings," and "Millinery" were included in "Millinery and lace goods" industry, which was abandoned at the census for 1927. No comparable figures can be given for earlier years.
[10] Figures for 1927 revised by the inclusion of sewing-machine cases. The figures for 1925 and earlier years therefore are not strictly comparable with those for 1927 and 1929. (See also footnote 11.)
[11] Includes data for "Hammocks," treated as a separate industry prior to 1927; also includes, for 1927 and 1929, data for sewing-machine cases, formerly a part of the "Sewing machines, cases, and attachments" industry.
[12] The separation of the industry "Paper and pulp" into the "Paper" and "Pulp (wood and other fiber)" industries in 1927 resulted in a duplication in the statistics as combined. The figures for 1927 are therefore not strictly comparable with those for 1925 and earlier years.
[13] Combined total for paper and pulp.
[14] Not reported separately; included with paper.
[15] Includes "Compressed and liquefied gases" prior to 1927 and also includes "Rayon" prior to 1925.
[16] Included with "Chemicals, not elsewhere classified," prior to 1927.
[17] Includes for all years "Belting and hose, rubber," prior to 1923 treated as a separate industry.
[18] Included with "Steel works and rolling mills."
[19] Not reported separately; included with "Steel works and rolling mills."
[20] Similar products are manufactured to a large extent by plants operated in connection with steel works and rolling mills. The figures here given refer only to establishments engaged primarily in the manufacture of the specified classes of products.
[21] Includes statistics for "Horseshoes, not made in rolling mills," abandoned as a separate industry.
[22] "Tin plate and terneplate" are treated as products of the "Iron and steel, steel works, and rolling mills" industry.
[23] Because of the establishment for 1929 of the new industry classification "Machine-tool accessories and small metal-working tools," certain establishments, formerly classified in this industry were, for 1929, classified in the new industry. For this reason the statistics for 1929 are not comparable with those for earlier years. The figures in italics for 1927 have been adjusted for comparison with 1929.

[24] Formerly part of the classification "Tin and other foils, not including gold and silver; collapsible tubes" which has been separated into "Tin and other foils, not including gold foil," and "Collapsible tubes."

[25] Formerly reported as three industries: "Babbitt metal, white metal, type metal, and solder," "Brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper, not elsewhere classified," and "Lead: Bar, pipe, and sheet." Includes data for "Bells" reported as a separate industry prior to 1925.

[26] Refrigerators, mechanical, for censuses prior to 1927 included in "Electrical machinery, apparatus, and supplies" and "Foundry and machine-shop products."

[27] "Foundry and machine-shop products, not elsewhere classified," includes "Metal-working machinery, other than machine tools, shown separately for 1925 and 1927 (See also footnote 26.)

[28] For prior years included in data for "Foundry and machine-shop products, not elsewhere classified," "Machine tools," and "Tools, not including edge tools, machine tools, files, or saws."

[29] Sewing-machine cases, formerly considered a product of this industry, at the census for 1929 were included in the "Furniture, including store and office fixtures" industry (forest products group). The figures for "Sewing machines and attachments" for 1927 have been adjusted by omission of the data for sewing machine cases, but those for prior years can not be so adjusted.

[30] Typewriters and parts, prior to the census for 1929, covered typewriter supplies, but for 1929 a new industry classification "Carbon paper and inked ribbons" (miscellaneous industries group) was established. The figures for 1927 have been adjusted by the omission of data for "Carbon paper and inked ribbons," but no adjustment for earlier years can be made.

Source: Bureau of the Census, Department of Commerce.

No. 815.—MANUFACTURES IN CITIES HAVING

NOTE.—All figures except number of wage earners in thousands of dollars. Data for the "Coffee and spice city for which these statistics were compiled. Data for the "Poultry killing and dressing, wholesale" note, p. 813

City and State	Wage earners (average for the year)				Wages (thousands of dollars)			
	1923	1925	1927	1929	1923	1925	1927	1929
Akron, Ohio	44,903	52,546	53,008	59,977	71,284	80,476	85,731	96,619
Albany, N. Y	10,542	9,609	9,378	8,098	13,823	12,383	13,030	11,493
Atlanta, Ga	16,005	18,208	18,583	18,611	16,116	17,643	17,674	18,290
Baltimore, Md	90,232	85,797	84,005	86,018	93,697	93,612	93,404	96,667
Birmingham, Ala	14,817	16,054	16,611	18,318	16,595	18,120	18,966	21,505
Boston, Mass	82,978	77,334	77,149	76,613	107,875	103,812	104,716	106,801
Bridgeport, Conn	33,207	28,763	28,415	30,577	37,882	34,904	36,615	39,310
Buffalo, N. Y	70,092	66,015	63,615	68,914	96,573	96,000	95,126	100,632
Cambridge, Mass	25,674	21,945	20,929	21,854	30,999	27,409	26,334	28,078
Camden, N. J	27,842	22,700	26,712	28,993	33,413	29,175	35,799	35,584
Canton, Ohio	15,727	15,362	14,865	18,334	25,625	24,267	23,565	31,883
Chattanooga, Tenn	(1)	15,835	14,354	18,100	(1)	15,315	14,463	17,652
Chicago, Ill	385,685	370,041	372,061	404,072	571,725	563,635	576,159	644,704
Cincinnati, Ohio	65,695	63,715	62,493	63,904	78,760	80,996	79,701	92,430
Cleveland, Ohio	141,648	132,852	131,146	146,679	205,388	201,378	201,092	230,074
Columbus, Ohio	27,618	24,590	24,228	26,576	37,236	33,272	32,482	36,938
Dallas, Tex	8,143	9,412	9,459	12,082	9,420	11,104	10,471	13,630
Dayton, Ohio	29,665	29,341	30,218	10,584	41,779	43,665	44,392	61,976
Denver, Colo	15,629	15,077	15,054	16,235	19,942	19,971	19,458	20,911
Des Moines, Iowa	9,558	8,007	72,253	8,817	12,665	11,456	9,592	11,474
Detroit, Mich	171,025	172,742	189,649	223,416	282,741	293,896	318,096	390,879
Duluth, Minn	7,118	6,545	6,024	6,631	9,598	8,607	8,283	9,136
Elizabeth, N. J	17,340	17,354	16,668	15,613	24,063	24,763	23,913	22,769
El Paso, Tex	3,753	4,144	4,554	5,169	4,458	4,637	4,750	5,460
Erie, Pa	15,047	13,885	13,792	15,430	21,342	20,392	20,363	23,491
Evansville, Ind	(1)	12,603	12,891	13,969	(1)	12,956	13,876	14,852
Fall River, Mass	37,018	30,596	31,489	26,262	35,509	28,241	29,342	23,243
Flint, Mich	28,909	25,024	38,547	(2)	48,743	42,842	68,188	(2)
Fort Wayne, Ind	(1)	16,659	15,848	21,308	(1)	20,862	21,228	29,854
Fort Worth, Tex	6,249	6,968	7,419	6,771	7,558	8,492	9,079	8,273
Gary, Ind	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Grand Rapids, Mich	24,033	25,479	24,449	27,744	32,669	36,294	35,420	40,476
Hartford, Conn	23,611	21,758	22,038	24,744	30,354	29,858	29,930	36,023
Houston, Tex	9,242	9,007	12,044	16,225	11,851	10,805	14,909	20,237
Indianapolis, Ind	45,818	41,805	42,136	47,545	54,364	51,394	54,969	62,256
Jacksonville, Fla	4,143	5,479	5,919	6,231	3,923	6,424	5,601	7,182
Jersey City, N. J	33,264	30,607	24,732	26,640	44,736	42,496	36,340	39,188
Kansas City, Kans	16,264	14,137	13,509	13,194	19,460	17,575	18,397	28,248
Kansas City, Mo	22,956	25,576	25,486	29,895	29,118	32,884	32,147	38,403
Knoxville, Tenn	(1)	14,642	14,971	(2)	(1)	12,607	12,989	(2)
Long Beach, Calif	(1)	1,712	2,046	2,565	(1)	2,381	2,894	3,738
Los Angeles, Calif	55,467	58,026	66,608	74,593	81,468	85,736	99,845	108,026
Louisville, Ky	37,620	37,672	34,366	35,188	42,145	43,355	39,822	40,793
Lowell, Mass	27,162	21,570	18,787	17,027	28,256	21,179	18,886	16,996
Lynn, Mass	22,506	18,938	20,763	20,544	29,108	26,259	28,517	28,366
Memphis, Tenn	10,508	9,988	9,435	15,590	10,836	11,319	10,130	16,392
Miami, Fla	(1)	2,179	1,196	1,909	(1)	4,126	2,053	2,623
Milwaukee, Wis	74,590	77,432	86,550	94,868	93,424	105,123	120,806	136,768
Minneapolis, Minn	33,462	31,730	34,065	35,712	41,163	40,311	43,057	45,757
Nashville, Tenn	11,685	10,549	12,975	14,982	10,735	9,691	12,776	15,116
Newark, N. J	70,066	66,854	62,727	66,788	89,465	89,640	89,568	114,312
New Bedford, Mass	37,917	35,606	35,084	32,155	41,146	37,100	36,389	31,408
New Haven, Conn	26,108	22,863	25,096	27,141	30,648	28,464	31,136	32,902
New Orleans, La	21,575	22,118	22,289	22,597	18,737	20,291	21,645	21,394
New York, N. Y	579,005	538,845	552,507	565,080	851,186	844,648	904,646	914,055
Norfolk, Va	5,083	5,429	4,556	6,629	5,875	5,990	5,257	7,766
Oakland, Calif	15,027	15,537	15,867	19,322	21,096	21,654	23,174	26,399
Oklahoma City, Okla	(1)	3,544	3,216	5,530	(1)	4,716	4,333	7,645
Omaha, Nebr	18,142	15,463	14,780	16,108	23,195	21,048	19,644	21,357
Paterson, N. J	33,247	33,779	32,354	32,298	41,277	45,003	45,826	43,519
Peoria, Ill	(1)	5,284	7,012	6,718	(1)	6,423	9,219	8,336
Philadelphia, Pa	274,319	246,680	243,608	244,655	356,438	332,415	334,311	335,232
Pittsburgh, Pa	76,665	65,414	61,892	61,525	110,466	94,458	89,039	91,172
Portland, Oreg	21,534	20,077	20,318	21,901	28,244	26,736	27,214	29,047

[1] Data not available for 1923.

IN 1930, 100,000 OR MORE INHABITANTS

roasting and grinding" industry are not included in the figures for 1925, except for San Francisco, the only industry are not included in the figures for 1927, as no data were collected for that year. See also general

Value of products				Value added by manufacture [1]			City and State
1923	1925	1927	1929	1925	1927	1929	
406,837	565,391	567,482	544,582	234,796	252,035	253,274	Akron, Ohio.
53,026	52,178	58,185	52,600	26,972	30,533	29,213	Albany, N. Y.
122,284	131,237	115,830	136,947	59,193	51,488	64,565	Atlanta, Ga.
654,766	678,947	692,575	816,717	250,384	266,655	435,452	Baltimore, Md.
89,423	100,204	109,039	137,102	46,518	48,791	66,191	Birmingham, Ala.
583,600	585,992	617,973	613,303	295,722	309,688	321,885	Boston, Mass.
148,856	149,098	158,697	176,259	80,562	87,360	95,337	Bridgeport, Conn.
590,692	675,436	649,302	720,903	244,903	246,696	280,664	Buffalo, N. Y.
185,524	165,833	155,477	174,621	89,182	90,749	98,740	Cambridge, Mass.
180,766	164,051	196,860	231,135	81,703	99,146	119,045	Camden, N. J.
114,791	125,831	119,148	153,975	57,971	59,282	82,328	Canton, Ohio.
(1)	81,009	74,971	103,017	34,529	32,186	50,811	Chattanooga, Tenn.
3,323,341	3,439,163	3,478,754	3,884,675	1,557,016	1,588,906	1,724,793	Chicago, Ill.
434,176	457,539	437,954	522,097	216,410	216,342	274,459	Cincinnati, Ohio.
1,096,503	1,094,780	1,040,754	1,241,084	494,888	484,236	610,944	Cleveland, Ohio.
186,843	178,289	169,068	212,228	80,612	82,211	101,526	Columbus, Ohio.
92,189	112,158	98,009	142,530	42,961	37,511	58,899	Dallas, Tex.
187,934	206,104	235,166	316,526	122,839	144,537	205,217	Dayton, Ohio.
120,790	125,763	116,748	144,665	53,232	48,068	61,413	Denver, Colo.
102,919	83,624	76,108	98,906	40,218	35,558	47,003	Des Moines, Iowa.
1,438,247	1,599,340	1,736,933	2,026,937	693,169	778,423	944,201	Detroit, Mich.
67,316	54,019	54,860	58,904	20,932	21,705	24,308	Duluth, Minn.
114,251	116,245	120,643	122,448	45,060	46,671	55,853	Elizabeth, N. J.
16,113	20,399	20,848	24,621	8,807	9,401	10,758	El Paso, Tex.
87,158	84,248	91,031	100,991	45,987	45,717	53,058	Erie, Pa.
(1)	67,470	86,362	90,796	30,944	39,797	41,591	Evansville, Ind.
172,396	134,495	120,324	103,112	47,790	49,638	42,644	Fall River, Mass.
422,171	422,644	600,356	(2)	203,468	269,811	(2)	Flint, Mich.
(1)	93,640	95,366	121,558	50,356	50,688	61,549	Fort Wayne, Ind.
75,163	100,329	109,637	113,582	24,496	26,890	27,409	Fort Worth, Tex.
(2)	(2)	(2)	(2)	(2)	(2)	(2)	Gary, Ind.
130,278	145,706	135,254	156,654	81,742	80,576	87,897	Grand Rapids, Mich.
101,894	109,678	111,089	157,242	64,248	69,953	113,281	Hartford, Conn.
89,134	87,445	102,154	144,753	36,573	41,952	64,872	Houston, Tex.
346,858	344,925	345,815	407,931	141,486	145,715	179,204	Indianapolis, Ind.
28,115	49,315	40,079	55,178	21,787	18,777	24,665	Jacksonville, Fla.
313,999	340,735	270,842	317,469	139,235	111,347	150,170	Jersey City, N. J.
262,447	288,545	296,646	301,843	48,913	51,266	45,114	Kansas City, Kans.
196,674	221,349	222,136	340,890	93,833	95,572	145,228	Kansas City, Mo.
(1)	62,938	61,668	(2)	27,157	27,759	(2)	Knoxville, Tenn.
(1)	25,863	39,919	54,677	10,860	13,423	22,866	Long Beach, Calif.
417,654	531,827	610,539	745,100	256,337	304,636	378,134	Los Angeles, Calif.
240,538	263,693	242,696	262,547	113,870	108,770	124,645	Louisville, Ky.
100,998	81,136	69,171	68,580	37,574	35,104	32,862	Lowell, Mass.
95,953	97,143	106,864	119,725	62,459	64,309	70,974	Lynn, Mass.
95,537	108,877	91,670	161,324	40,210	34,147	66,675	Memphis, Tenn.
(1)	22,208	10,250	12,424	15,274	6,961	8,467	Miami, Fla.
514,591	541,912	627,416	700,730	250,025	296,505	339,658	Milwaukee, Wis.
338,329	338,824	348,417	361,075	117,440	130,731	147,904	Minneapolis, Minn.
83,042	79,331	94,435	108,939	31,957	40,245	43,570	Nashville, Tenn.
448,172	490,047	482,739	501,803	238,120	244,635	256,253	Newark, N. J.
149,999	143,551	125,542	121,692	63,471	60,656	57,826	New Bedford, Mass.
113,925	110,506	124,034	135,894	64,603	70,115	80,445	New Haven, Conn.
135,184	155,106	151,893	148,368	61,845	61,747	65,776	New Orleans, La.
5,349,077	5,324,414	5,722,071	5,987,817	2,605,621	2,868,237	3,028,746	New York, N. Y.
29,232	35,455	29,127	57,877	15,551	14,092	26,335	Norfolk, Va.
122,492	144,841	159,003	218,868	60,741	64,362	103,079	Oakland, Calif.
(1)	51,028	37,323	81,003	18,617	15,736	31,812	Oklahoma City, Okla.
315,971	339,004	307,472	353,159	59,786	58,005	74,257	Omaha, Nebr.
194,858	200,977	207,470	196,298	94,626	105,426	98,548	Paterson, N. J.
(1)	48,138	66,238	66,938	19,377	28,357	30,329	Peoria, Ill.
1,998,750	1,937,415	1,861,502	1,984,760	887,935	880,726	964,317	Philadelphia, Pa.
610,189	518,964	508,529	545,319	224,582	220,292	254,272	Pittsburgh, Pa.
154,415	150,521	146,974	172,433	65,359	63,869	78,567	Portland, Oreg.

[1] Data can not be shown without disclosing the operations of individual establishments.

No. 815.—Manufactures in Cities Having in 1930, 100,000 or more Inhabitants—Continued

City and State	Wage earners (average for the year)				Wages (thousands of dollars)			
	1923	1925	1927	1929	1923	1925	1927	1929
Providence, R. I.	45,495	41,207	42,735	47,194	52,970	49,710	50,818	55,197
Reading, Pa.	28,712	27,247	26,383	25,978	34,775	32,748	31,712	31,766
Richmond, Va.	18,833	18,137	19,351	16,429	18,995	17,961	19,084	17,268
Rochester, N. Y.	58,649	52,589	56,685	58,359	77,646	73,406	80,316	82,378
St. Louis, Mo.	113,253	105,022	109,428	107,468	135,468	130,857	134,915	133,051
St. Paul, Minn.	22,841	23,664	21,449	23,623	29,108	30,701	28,163	31,197
Salt Lake City, Utah	6,224	4,898	4,709	5,683	7,509	5,876	5,965	7,340
San Antonio, Tex.	5,581	5,440	6,363	8,660	5,335	5,367	6,385	8,262
San Diego, Calif.	2,707	3,177	3,950	3,859	3,472	4,270	5,024	5,258
San Francisco, Calif.	43,638	41,720	41,909	45,098	61,376	6,040	61,134	66,462
Scranton, Pa.	13,093	12,578	11,115	11,630	13,537	13,697	12,311	12,337
Seattle, Wash.	17,842	19,220	20,601	22,867	25,323	27,610	29,623	33,330
Somerville, Mass.	(1)	5,594	5,631	6,701	(1)	7,144	7,385	9,384
South Bend, Ind.	(1)	22,054	20,758	25,723	(1)	32,377	29,693	36,108
Spokane, Wash.	4,580	6,098	5,678	5,301	5,973	7,981	7,617	6,709
Springfield, Mass.	19,089	17,693	16,782	18,728	23,965	23,189	22,012	25,620
Syracuse, N. Y.	23,921	23,086	22,562	26,413	31,631	31,118	32,196	39,076
Tacoma, Wash.	11,698	12,315	12,335	14,028	16,228	16,149	16,983	18,870
Tampa, Fla.	(1)	12,682	12,558	13,182	(1)	14,156	14,848	13,883
Toledo, Ohio	41,613	37,209	38,727	48,778	57,537	57,451	57,049	72,174
Trenton, N. J.	24,045	22,322	19,965	18,952	30,913	30,135	25,887	24,622
Tulsa, Okla.	2,208	1,678	2,186	3,078	3,183	2,537	3,405	4,889
Utica, N. Y.	16,075	14,833	14,175	13,225	17,697	16,962	16,221	14,378
Washington, D. C.	9,823	9,753	9,519	9,683	14,796	15,320	15,669	15,444
Wichita, Kans.	(1)	3,954	3,996	4,466	(1)	5,276	5,702	5,898
Wilmington, Del.	14,993	13,549	13,993	14,822	19,041	17,057	17,926	19,693
Worcester, Mass.	36,449	31,142	30,377	31,822	47,244	42,330	41,404	45,365
Yonkers, N. Y.	14,005	12,662	13,414	13,126	18,803	17,677	18,511	17,273
Youngstown, Ohio	20,516	19,215	18,566	20,563	35,202	33,682	31,494	37,041

City and State	Value of products				Value added by manufacture[1]		
	1923	1925	1927	1929	1925	1927	1929
Providence, R. I.	215,654	212,118	214,617	240,549	105,050	105,372	130,944
Reading, Pa.	134,502	132,405	121,095	120,939	64,055	60,929	63,726
Richmond, Va.	146,413	157,450	220,743	217,997	83,477	128,598	135,116
Rochester, N. Y.	337,362	337,548	368,111	380,102	201,041	222,868	237,377
St. Louis, Mo.	914,277	874,557	937,416	983,823	361,137	387,917	414,504
St. Paul, Minn.	150,355	194,013	160,331	206,918	86,753	77,677	102,512
Salt Lake City, Utah	47,572	32,589	35,115	43,256	15,708	15,669	20,403
San Antonio, Tex.	34,756	38,634	45,165	52,884	15,638	20,164	22,311
San Diego, Calif.	23,213	28,214	29,546	34,193	12,865	13,360	16,237
San Francisco, Calif.	416,318	426,810	429,728	475,618	181,283	192,086	209,470
Scranton, Pa.	64,169	61,282	55,704	60,766	28,080	26,735	29,021
Seattle, Wash.	155,781	159,566	168,032	199,571	69,998	73,295	91,494
Somerville, Mass.	(1)	58,806	66,441	113,646	12,805	16,223	32,109
South Bend, Ind.	(1)	150,616	126,882	163,334	61,326	65,633	80,927
Spokane, Wash.	40,562	43,156	46,170	46,395	17,030	18,071	18,654
Springfield, Mass.	104,568	109,516	103,922	121,430	63,146	57,872	70,267
Syracuse, N. Y.	149,145	154,029	147,903	181,103	83,019	81,632	103,747
Tacoma, Wash.	69,458	71,001	79,882	140,507	27,471	30,093	42,887
Tampa, Fla.	(1)	55,447	55,704	53,289	31,225	32,967	32,582
Toledo, Ohio	360,375	371,120	360,115	420,824	143,475	114,901	191,409
Trenton, N. J.	116,623	126,516	107,417	107,843	63,547	57,694	62,667
Tulsa, Okla.	18,533	14,723	20,301	26,802	8,461	10,988	17,262
Utica, N. Y.	76,061	77,554	70,240	65,410	35,073	35,290	33,973
Wasington, D. C.	73,108	83,577	90,390	88,643	50,073	54,291	52,590
Wichita, Kans.	(1)	54,671	57,790	63,571	16,370	18,035	19,370
Wilmington, Del.	80,016	76,502	81,706	89,608	34,526	37,556	44,603
Worcester, Mass.	212,043	210,461	194,222	215,799	105,065	97,704	114,945
Yonkers, N. Y.	144,896	120,467	107,998	113,513	36,553	32,974	40,351
Youngstown, Ohio	272,184	236,180	207,379	264,788	65,177	63,901	94,778

[1] Data not available for 1923.

Source: Bureau of the Census, Department of Commerce.

No. 816.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED: BY GEOGRAPHIC DIVISIONS AND STATES

NOTE.—Data for "Coffee and spice roasting and grinding" (not tabulated for the United States as a whole for 1925) are included in the figures for 1914, 1923, 1927, and 1929. Data for "automobile repairing" (not collected since 1919) are included in the division and State figures for 1914, but are excluded from the totals for that year and from all figures for later years. Data for "Poultry killing and dressing" are included for all years, except 1927 for which year no data for this industry were collected. No data for establishments with products valued at less than $5,000 are included in the statistics for 1923 to 1927; for 1914, such data have been excluded from the United States totals except for wages and horsepower but are included in the United States totals for these items and in all division and State figures

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
United States	1929	210,710	8,807,536	11,649,537	38,293,534	70,137,459	31,843,926	42,798,911
	1927	191,866	8,349,755	10,848,803	35,133,137	62,718,347	27,585,210	38,825,681
	1925	187,390	8,384,261	10,729,969	35,935,648	62,713,714	26,778,066	35,772,628
	1923	196,309	8,778,156	11,009,298	34,705,698	60,555,998	25,850,300	33,094,228
	1914	177,110	6,896,190	4,067,719	14,278,333	23,987,861	9,709,527	22,290,899
New England	1929	18,318	1,100,043	1,345,092	3,165,681	6,419,620	3,253,939	4,702,754
	1927	17,745	1,098,748	1,328,650	3,048,863	6,028,475	2,979,612	4,566,155
	1925	18,173	1,122,216	1,339,310	3,203,911	6,140,063	2,936,153	4,349,191
	1923	19,081	1,254,496	1,472,315	3,290,156	6,419,975	3,129,820	4,151,136
	1914	25,193	1,140,233	628,409	1,657,674	2,926,675	1,269,001	3,098,836
Middle Atlantic	1929	64,594	2,555,027	3,670,013	11,147,073	21,305,472	10,158,399	11,618,101
	1927	62,276	2,467,791	3,491,680	10,488,832	19,533,075	9,044,243	10,968,754
	1925	58,895	2,491,039	3,434,610	10,682,358	19,409,491	8,727,133	10,106,390
	1923	66,007	2,694,027	3,595,238	11,124,614	19,738,954	8,614,340	9,627,810
	1914	85,466	2,355,940	1,370,131	4,680,993	8,053,644	3,372,651	6,641,348
East North Central	1929	46,329	2,531,788	3,750,541	11,717,586	21,561,041	9,843,454	12,410,381
	1927	43,671	2,309,860	3,340,801	10,525,393	18,988,400	8,463,007	11,056,846
	1925	42,888	2,342,799	3,345,894	10,764,384	19,026,814	8,261,929	10,047,780
	1923	43,978	2,387,049	3,333,621	10,166,125	17,821,694	7,655,569	9,023,688
	1914	59,896	1,680,281	1,072,538	3,795,039	6,542,261	2,747,222	5,391,978
West North Central	1929	17,793	471,873	596,200	3,497,612	5,328,077	1,830,466	2,198,131
	1927	16,192	448,192	550,698	3,170,989	4,733,112	1,562,123	2,033,074
	1925	16,280	452,820	552,702	3,216,616	4,724,411	1,507,795	1,855,278
	1923	16,605	469,725	563,914	2,848,565	4,299,549	1,450,984	1,705,600
	1914	27,199	381,595	235,471	1,397,841	2,032,192	634,352	1,235,147
South Atlantic	1929	20,836	907,207	821,559	2,054,017	5,222,080	2,568,063	4,395,727
	1927	17,029	879,060	794,265	2,487,871	4,631,952	2,144,081	3,805,038
	1925	16,576	838,834	757,051	2,549,391	4,532,146	1,982,755	3,384,030
	1923	17,049	832,016	729,859	2,438,631	4,238,237	1,799,606	3,047,501
	1914	28,925	685,252	293,063	1,003,068	1,682,999	679,931	2,266,238
East South Central	1929	9,833	375,225	346,144	1,062,790	1,977,730	914,939	1,991,728
	1927	7,637	359,542	331,280	1,025,122	1,808,818	783,696	1,787,386
	1925	8,080	355,995	322,675	1,042,478	1,808,702	766,224	1,615,183
	1923	7,513	347,200	310,354	988,075	1,702,670	714,594	1,461,604
	1914	14,410	264,378	117,987	387,011	700,668	313,657	1,156,654
West South Central	1929	10,555	294,366	311,822	1,861,932	2,795,746	933,814	1,762,796
	1927	8,208	267,142	281,156	1,644,155	2,399,410	755,255	1,419,558
	1925	7,887	265,160	267,875	1,722,382	2,546,506	824,124	1,316,629
	1923	7,947	267,111	265,332	1,375,338	2,091,624	715,786	1,269,347
	1914	12,417	211,940	116,129	526,907	802,538	275,631	964,470
Mountain	1929	4,318	101,193	141,990	794,524	1,217,134	422,610	920,769
	1927	3,919	94,957	130,304	659,600	981,091	321,490	829,256
	1925	3,849	100,374	134,583	688,350	1,046,318	357,968	757,974
	1923	3,970	103,803	143,392	609,141	955,772	346,632	714,807
	1914	6,079	81,113	66,358	272,215	437,568	165,353	459,516
Pacific	1929	18,134	470,814	666,176	2,392,319	4,310,560	1,918,240	2,798,524
	1927	15,189	424,463	599,969	2,082,311	3,614,013	1,531,702	2,359,614
	1925	14,762	415,024	575,269	2,041,255	3,455,241	1,413,986	2,269,169
	1923	14,158	420,472	591,387	1,851,431	3,257,540	1,406,109	1,886,942
	1914	16,206	235,515	178,247	647,342	1,067,889	420,548	1,093,002
New England:								
Maine	1929	1,557	69,593	73,601	218,985	392,096	173,111	674,331
	1927	1,426	68,142	74,212	208,866	372,093	163,228	628,941
	1925	1,500	73,849	79,777	205,709	371,849	166,141	600,787
	1923	1,642	83,328	91,854	217,070	402,650	185,580	570,532
	1914	3,378	82,149	43,254	117,655	200,450	82,795	486,032

No. 816.—Summary for All Manufacturing Industries Combined: By Geographic Divisions and States—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
New England—Contd.								
New Hampshire	1929	1,065	65,119	70,107	185,376	331,366	145,990	401,089
	1927	1,028	65,482	72,803	182,106	327,528	145,422	376,373
	1925	1,038	66,658	71,725	192,253	327,401	135,147	370,740
	1923	1,078	75,314	79,074	185,754	333,125	147,370	352,656
	1914	1,736	78,993	40,642	114,993	182,844	67,850	340,605
Vermont	1929	930	27,582	34,035	66,524	144,156	77,633	166,546
	1927	880	26,241	32,305	69,957	134,030	64,073	172,762
	1925	951	27,563	32,326	74,387	138,270	63,882	178,800
	1923	1,021	30,783	34,695	80,776	149,952	69,176	177,212
	1914	1,772	32,704	18,617	42,706	76,991	34,285	171,738
Massachusetts	1929	9,952	559,443	695,351	1,685,585	3,392,149	1,706,564	2,090,063
	1927	10,037	578,068	705,930	1,678,812	3,317,852	1,639,039	2,130,503
	1925	10,027	591,438	716,156	1,773,698	3,405,672	1,631,974	2,013,017
	1923	10,519	607,172	799,363	1,835,013	3,570,543	1,735,530	1,931,787
	1914	12,013	606,698	341,310	931,384	1,641,373	709,989	1,380,912
Rhode Island	1929	1,693	124,838	142,341	342,078	664,216	322,138	461,928
	1927	1,497	120,009	138,896	313,107	592,233	279,126	410,181
	1925	1,595	120,346	138,126	345,221	621,920	276,699	395,754
	1923	1,691	134,667	152,500	358,581	675,425	316,844	391,928
	1914	2,190	113,425	59,366	162,425	279,546	117,121	266,884
Connecticut	1929	3,121	253,468	329,657	667,133	1,495,635	828,502	908,792
	1927	2,877	240,806	304,504	596,014	1,284,739	688,724	847,395
	1925	3,062	242,362	301,200	612,642	1,274,952	662,309	790,087
	1923	3,130	203,232	314,829	612,961	1,288,281	675,320	727,021
	1914	4,104	226,264	125,220	288,511	545,472	256,961	452,665
Middle Atlantic:								
New York	1929	39,360	1,106,976	1,651,134	5,018,232	9,979,959	4,961,727	4,019,660
	1927	36,650	1,072,284	1,605,378	4,804,173	9,400,061	4,595,889	3,671,185
	1925	33,393	1,066,202	1,533,893	4,704,989	8,968,548	4,263,558	3,348,184
	1923	38,186	1,150,901	1,581,349	4,764,026	8,960,638	4,196,012	3,263,325
	1914	48,203	1,057,857	631,042	2,108,607	3,814,661	1,706,054	2,321,817
New Jersey	1929	8,364	441,105	628,098	2,128,168	3,937,656	1,809,488	1,662,677
	1927	8,312	408,093	570,309	1,956,597	3,417,450	1,460,853	1,496,935
	1925	8,204	425,377	576,236	2,086,855	3,539,181	1,452,326	1,384,234
	1923	8,767	448,069	578,927	2,039,477	3,396,628	1,357,150	1,256,892
	1914	9,742	373,605	211,136	883,465	1,406,633	523,169	783,706
Pennsylvania	1929	16,870	1,006,946	1,390,782	4,000,673	7,387,857	3,387,183	5,935,764
	1927	17,314	987,414	1,315,993	3,728,062	6,715,563	2,987,502	5,800,634
	1925	17,298	999,400	1,324,481	3,890,514	6,901,762	3,011,248	5,373,972
	1923	19,054	1,095,057	1,434,963	4,320,510	7,381,688	3,061,178	5,107,593
	1914	27,521	924,478	527,953	1,688,921	2,832,349	1,143,429	3,535,825
East North Central:								
Ohio	1929	11,815	737,469	1,103,939	3,127,168	5,999,124	2,871,956	4,323,132
	1927	10,961	669,097	968,181	2,877,126	5,230,323	2,353,197	3,734,761
	1925	11,137	676,742	975,812	3,029,686	5,347,522	2,317,836	3,482,618
	1923	11,195	699,132	979,660	2,909,167	5,146,515	2,237,348	3,307,726
	1914	15,658	510,435	317,924	1,020,782	1,782,808	762,026	1,985,950
Indiana	1929	5,074	313,829	416,714	1,404,865	2,534,717	1,129,851	1,811,722
	1927	4,726	280,717	375,218	1,227,169	2,153,479	926,311	1,602,113
	1925	4,772	280,854	365,003	1,257,961	2,125,023	867,062	1,420,989
	1923	4,909	291,131	374,510	1,190,070	2,031,675	841,605	1,372,007
	1914	8,022	197,503	119,258	423,857	730,795	306,938	707,982
Illinois	1929	15,327	687,917	1,038,833	3,401,595	6,232,438	2,830,843	2,783,370
	1927	14,711	623,468	914,103	2,921,092	5,386,003	2,464,911	2,456,997
	1925	14,117	622,368	897,970	2,926,004	5,321,838	2,395,774	2,247,408
	1923	14,345	645,627	913,220	2,794,613	5,041,113	2,246,501	1,942,516
	1914	18,358	506,943	340,910	1,340,183	2,247,323	907,139	1,294,421
Michigan	1929	6,683	528,512	838,242	2,578,819	4,636,361	2,057,543	2,330,858
	1927	5,800	488,856	760,602	2,346,678	4,244,941	1,898,263	2,214,747
	1925	5,600	515,494	792,225	2,466,426	4,373,186	1,906,760	1,887,750
	1923	5,697	503,308	769,071	2,270,773	3,882,192	1,611,419	1,471,550
	1914	8,724	271,090	182,252	592,801	1,086,162	493,361	726,777

No. 816.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED: BY GEOGRAPHIC DIVISIONS AND STATES—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
East North Central—Continued.								
Wisconsin	1929	7,430	264,061	352,814	1,205,139	2,158,400	953,261	1,161,299
	1927	7,473	247,722	322,697	1,153,328	1,973,653	820,325	1,048,228
	1925	7,262	247,341	314,883	1,084,747	1,859,244	774,496	1,009,015
	1923	7,832	247,851	297,160	1,001,502	1,720,198	718,696	929,889
	1914	9,104	194,310	112,193	417,415	695,172	277,757	676,848
West North Central:								
Minnesota	1929	4,319	102,408	130,950	769,477	1,171,710	402,233	597,998
	1927	3,886	98,833	123,619	726,391	1,066,727	340,336	584,328
	1925	3,888	100,614	123,767	770,724	1,101,856	331,132	508,021
	1923	3,900	103,964	125,531	647,323	962,775	315,452	460,128
	1914	5,974	92,834	58,507	336,849	493,354	156,505	358,163
Iowa	1929	3,317	82,615	103,532	579,991	907,929	327,938	372,358
	1927	3,061	73,692	91,247	496,940	769,341	272,401	330,702
	1925	3,270	74,976	92,233	499,586	757,771	258,185	308,016
	1923	3,420	77,847	94,206	434,336	690,032	255,697	282,333
	1914	5,614	63,113	39,860	205,451	310,750	105,299	189,800
Missouri	1929	5,757	201,174	238,433	1,124,968	1,876,140	751,172	714,799
	1927	5,422	195,378	230,017	1,004,709	1,665,173	660,464	656,269
	1925	5,114	194,959	230,691	980,459	1,607,161	626,702	590,485
	1923	5,291	196,694	228,015	944,083	1,547,189	603,106	553,397
	1914	8,386	152,182	89,197	388,715	637,952	249,237	389,376
North Dakota	1929	374	4,033	5,688	39,692	55,347	15,655	19,780
	1927	307	3,260	4,808	34,271	47,003	12,732	16,167
	1925	320	3,261	4,575	32,307	44,632	12,325	16,711
	1923	340	3,552	5,134	30,704	42,145	11,441	16,730
	1914	699	3,275	2,416	14,484	21,147	6,663	13,980
South Dakota	1929	618	6,518	8,086	75,167	97,769	22,602	31,166
	1927	472	5,551	6,786	63,620	83,001	19,381	24,676
	1925	504	5,151	6,208	46,942	63,433	16,491	21,463
	1923	489	5,146	6,211	33,673	47,321	13,648	16,458
	1914	898	3,788	2,628	17,079	24,139	7,059	16,324
Nebraska	1929	1,490	28,219	36,883	364,306	484,263	119,957	168,153
	1927	1,277	26,110	34,296	326,917	420,296	93,379	141,506
	1925	1,306	27,200	36,021	348,397	443,309	94,912	133,708
	1923	1,379	31,267	39,761	314,027	415,057	101,030	120,999
	1914	2,492	25,144	16,893	174,114	221,616	47,502	89,258
Kansas	1929	1,918	46,906	72,628	544,010	734,919	190,909	293,877
	1927	1,767	45,368	59,925	518,141	681,570	163,429	279,426
	1925	1,878	46,659	59,207	538,202	706,250	168,048	276,874
	1923	1,786	51,255	65,056	444,420	595,030	150,610	255,555
	1914	3,136	41,259	25,970	261,148	323,234	62,086	178,246
South Atlantic:								
Delaware	1929	458	23,382	28,847	77,051	146,856	69,805	114,030
	1927	446	21,324	25,222	69,033	129,900	60,867	103,166
	1925	419	20,704	25,072	70,622	125,406	54,784	107,391
	1923	453	23,116	27,369	70,736	128,951	58,216	112,485
	1914	808	22,155	11,382	31,649	56,035	24,386	64,324
Maryland	1929	3,229	131,399	149,051	560,183	1,120,409	560,226	660,466
	1927	3,205	126,700	141,903	564,120	943,411	379,290	579,713
	1925	3,184	125,787	138,591	568,591	926,252	357,660	544,558
	1923	3,168	128,826	136,286	569,035	903,446	334,411	497,945
	1914	4,797	111,585	53,792	238,972	377,749	138,777	262,199
Dist. of Columbia	1929	546	9,683	15,444	36,053	88,643	52,590	44,489
	1927	503	9,519	15,669	36,099	90,390	54,291	39,471
	1925	538	9,753	15,320	33,504	83,577	50,073	37,508
	1923	600	9,823	14,796	32,870	73,108	40,238	31,846
	1914	514	8,877	6,069	12,239	28,978	16,739	24,745
Virginia	1929	3,274	118,399	116,847	358,749	727,606	368,857	644,187
	1927	2,432	114,918	110,378	346,166	671,347	325,181	503,726
	1925	2,553	112,135	105,887	314,711	589,511	274,800	441,807
	1923	2,743	111,578	104,680	304,493	548,153	243,661	431,237
	1914	5,508	102,820	44,873	155,320	264,039	108,719	337,567

No. 816.—Summary for All Manufacturing Industries Combined: By Geographic Divisions and States—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
South Atlantic—Contd.								
West Virginia	1929	1,487	84,460	114,131	253,609	500,393	246,784	666,871
	1927	1,313	77,630	103,431	252,884	455,217	202,332	546,440
	1925	1,395	80,700	105,892	260,880	470,822	209,941	495,051
	1923	1,487	85,661	109,937	259,151	479,510	220,359	371,699
	1914	2,749	71,078	43,784	110,033	193,512	83,479	278,219
North Carolina	1929	3,792	208,068	159,795	614,140	1,301,319	687,179	903,811
	1927	2,984	204,590	158,394	560,819	1,154,647	593,827	810,798
	1925	2,614	182,234	134,237	550,707	1,050,434	499,727	666,861
	1923	2,670	173,687	127,538	516,149	951,911	435,762	606,397
	1914	5,507	136,844	46,038	169,942	289,412	119,470	506,352
South Carolina	1929	1,658	108,600	73,232	227,103	385,339	158,236	525,064
	1927	1,059	108,992	74,478	206,772	358,334	151,562	478,245
	1925	1,134	100,144	67,062	237,227	370,283	133,056	423,359
	1923	1,180	96,802	64,753	221,240	360,446	139,206	407,735
	1914	1,885	71,824	24,173	91,009	138,891	47,882	335,710
Georgia	1929	4,178	158,280	109,552	430,027	718,603	288,576	643,283
	1927	3,175	154,168	108,118	360,262	609,918	249,656	565,899
	1925	2,876	141,173	99,210	399,351	648,852	249,501	523,334
	1923	3,058	137,476	92,144	381,769	604,453	222,684	449,888
	1914	4,639	104,461	38,128	160,089	253,271	93,182	357,130
Florida	1929	2,214	64,936	54,662	97,103	232,912	135,810	193,526
	1927	1,912	61,219	56,672	91,716	218,790	127,075	177,580
	1925	1,863	66,204	65,780	113,796	267,009	153,213	144,161
	1923	1,690	65,047	52,357	83,188	188,258	105,071	138,269
	1914	2,518	55,608	24,822	33,816	81,112	47,296	99,992
East South Central:								
Kentucky	1929	2,227	76,201	87,518	262,558	490,492	227,935	352,229
	1927	1,851	74,912	83,859	250,633	447,765	197,132	318,755
	1925	1,864	76,580	84,946	255,108	453,937	198,828	257,965
	1923	1,975	76,724	82,648	242,410	427,094	184,684	251,554
	1914	4,184	64,586	31,830	114,829	230,249	115,420	237,802
Tennessee	1929	2,846	126,921	114,078	387,621	706,054	318,433	602,647
	1927	2,098	114,968	101,198	351,436	614,041	262,604	475,243
	1925	2,162	107,645	95,255	358,097	601,488	243,391	447,529
	1923	2,307	106,504	92,482	334,111	555,266	221,154	391,465
	1914	4,775	74,373	33,083	123,430	212,071	88,641	286,844
Alabama	1929	2,848	120,064	102,040	299,519	560,975	261,456	784,255
	1927	2,355	119,093	105,489	317,493	550,372	232,879	779,156
	1925	2,349	116,599	101,243	325,684	552,824	227,140	697,998
	1923	1,996	109,620	95,205	323,666	541,729	218,063	640,892
	1914	3,242	78,717	33,897	107,411	178,798	71,386	445,604
Mississippi	1929	1,912	52,039	42,508	113,093	220,209	107,116	252,597
	1927	1,333	50,569	40,734	105,559	196,641	91,081	214,232
	1925	1,705	55,171	41,231	103,588	200,453	96,865	211,691
	1923	1,235	54,352	40,019	87,888	178,582	90,693	177,693
	1914	2,209	46,702	19,177	41,340	79,550	38,210	186,404
West South Central:								
Arkansas	1929	1,731	44,073	39,221	115,030	208,897	93,867	221,637
	1927	1,146	40,032	35,288	103,815	182,751	78,936	183,041
	1925	1,257	43,977	37,538	110,665	195,208	84,543	177,011
	1923	1,231	44,545	37,770	90,709	172,541	81,832	165,154
	1914	2,604	41,979	20,752	44,907	83,941	39,034	177,106
Louisiana	1929	1,986	87,511	83,990	441,980	684,886	242,906	488,507
	1927	1,624	82,415	79,673	427,994	638,361	210,367	415,582
	1925	1,742	88,058	79,763	465,426	710,050	244,624	410,298
	1923	1,781	94,719	83,031	407,414	624,683	217,268	402,938
	1914	2,211	77,665	39,544	157,886	255,313	97,427	354,765
Oklahoma	1929	1,651	31,279	40,722	306,990	452,161	145,171	221,808
	1927	1,373	27,932	35,785	269,418	371,718	102,300	185,480
	1925	1,282	26,333	34,211	301,147	403,295	102,148	156,826
	1923	1,242	25,489	33,069	230,263	315,208	84,946	152,956
	1914	2,518	17,443	11,011	70,970	102,006	31,036	97,103

No. 816.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED: BY GEOGRAPHIC DIVISIONS AND STATES—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
West South Central—Continued.								
Texas	1929	5,187	131,503	147,888	997,932	1,449,802	451,870	830,844
	1927	4,065	116,763	130,409	842,927	1,206,580	363,653	635,455
	1925	3,606	106,792	116,363	845,144	1,237,952	392,809	572,798
	1923	3,693	102,358	111,462	647,452	979,192	331,740	548,299
	1914	5,084	74,853	44,821	253,144	361,279	108,135	335,496
Mountain:								
Montana	1929	583	13,673	21,719	173,594	247,953	74,358	169,168
	1927	565	14,242	20,915	151,792	203,503	51,712	188,390
	1925	606	14,777	21,078	146,351	205,474	59,123	166,528
	1923	679	15,943	24,540	128,702	174,874	46,172	190,516
	1914	939	13,704	13,001	46,744	84,446	37,702	91,671
Idaho	1929	564	15,656	22,468	52,131	96,683	44,552	105,960
	1927	470	13,513	18,971	47,927	86,256	38,329	89,830
	1925	490	15,794	20,709	53,152	96,990	43,838	82,552
	1923	510	16,347	22,886	43,134	87,429	44,295	72,146
	1914	698	8,919	7,491	14,892	28,454	13,562	50,297
Wyoming	1929	251	6,288	10,306	63,517	96,466	32,950	46,613
	1927	229	5,577	9,066	63,741	85,368	21,627	40,191
	1925	224	6,333	10,526	76,073	107,985	31,911	28,721
	1923	246	7,510	12,502	69,695	110,632	40,937	23,959
	1914	337	2,989	2,312	5,559	11,223	5,664	10,004
Colorado	1929	1,545	32,735	43,429	182,453	304,655	122,202	228,580
	1927	1,483	32,001	43,194	173,277	278,221	104,944	254,530
	1925	1,416	31,967	43,008	171,192	278,778	107,586	219,865
	1923	1,377	31,226	40,653	150,093	255,190	105,097	176,076
	1914	2,126	27,278	20,200	89,756	136,839	47,083	162,701
New Mexico	1929	251	4,490	5,640	10,485	21,760	11,275	23,134
	1927	200	4,653	5,421	10,056	20,183	10,127	21,467
	1925	200	4,629	5,083	9,684	19,459	9,774	18,842
	1923	186	5,459	6,484	9,954	20,422	10,468	16,863
	1914	368	3,776	2,695	4,430	9,320	4,890	12,468
Arizona	1929	347	10,500	15,078	139,256	199,371	60,114	180,550
	1927	300	8,967	12,133	77,799	117,624	39,825	100,641
	1925	294	9,127	11,506	92,271	138,781	46,511	102,127
	1923	283	9,008	12,635	80,993	123,377	42,384	128,531
	1914	322	6,898	6,229	39,283	64,090	24,806	54,095
Utah	1929	654	15,650	19,765	159,191	216,529	57,338	123,697
	1927	556	13,585	16,689	120,567	163,118	42,551	112,233
	1925	517	15,077	18,200	127,543	177,225	49,681	124,735
	1923	585	14,945	18,344	114,183	161,607	47,424	78,733
	1914	1,109	13,894	10,852	62,233	87,112	24,879	59,536
Nevada	1929	123	2,201	3,585	13,896	33,717	19,821	43,067
	1927	116	2,419	3,915	14,440	26,816	12,375	21,974
	1925	102	2,670	4,474	12,084	21,627	9,542	14,604
	1923	104	3,365	5,348	12,388	22,243	9,855	27,983
	1914	180	3,655	3,578	9,317	16,083	6,766	18,744
Pacific:								
Washington	1929	3,665	114,591	160,514	426,842	794,143	367,300	808,299
	1927	3,344	104,468	145,931	389,885	677,914	288,029	680,408
	1925	3,216	105,893	146,225	372,759	659,340	286,581	743,110
	1923	3,029	111,663	156,435	372,044	678,543	306,499	593,330
	1914	3,829	67,205	51,703	136,609	245,326	108,717	389,344
Oregon	1929	2,466	65,521	86,865	205,548	412,331	206,783	427,157
	1927	1,779	57,179	75,717	187,771	342,852	155,081	339,511
	1925	1,908	59,579	78,209	193,609	352,949	159,340	387,749
	1923	1,909	62,655	81,769	195,922	363,715	167,794	322,297
	1914	2,320	28,829	20,932	63,258	109,762	46,504	214,165
California	1929	12,003	290,702	418,797	1,759,929	3,104,086	1,344,157	1,563,068
	1927	10,066	262,816	378,321	1,504,655	2,593,247	1,088,592	1,339,695
	1925	9,638	249,552	350,835	1,474,887	2,442,952	968,065	1,133,310
	1923	9,220	246,154	353,183	1,283,465	2,215,281	931,817	971,315
	1914	10,057	139,481	105,613	447,475	712,801	265,326	489,493

Source: Bureau of the Census, Department of Commerce.

No. 817.—INDEXES OF PRODUCTION OF MANUFACTURES AND MINERALS

NOTE.—The manufactures index covers 49 industries and the minerals index 8. Both indexes have been adjusted for seasonal variations and for the number of working days in the month

[Monthly average 1923–1925=100]

Month	Manufactures							Minerals						
	1924	1925	1926	1927	1928	1929	1930	1924	1925	1926	1927	1928	1929	1930
January	99	106	109	104	106	118	103	103	105	92	116	103	118	112
February	101	105	108	107	109	117	107	105	100	95	117	103	120	109
March	101	106	107	109	109	120	106	98	95	104	118	103	107	96
April	95	103	107	109	110	123	107	93	99	108	107	105	115	104
May	88	102	106	111	110	126	105	93	105	104	109	105	116	103
June	84	102	108	109	111	129	100	92	101	106	105	101	112	100
July	82	103	107	107	111	126	94	92	104	107	100	101	114	97
August	88	102	110	106	113	124	91	92	107	109	106	105	115	96
September	93	104	111	105	115	122	90	97	89	110	104	107	118	94
October	95	107	111	102	116	118	85	96	90	114	105	114	118	98
November	97	109	107	100	116	108	84	96	94	118	101	113	110	92
December	102	112	104	100	117	98	80	100	93	119	103	112	116	93

No. 818.—MANUFACTURES PRODUCTION: INDEXES FOR GROUPS OF INDUSTRIES

NOTE.—The monthly figures are adjusted for the varying number of working days in each month and for the customary seasonal variations. In computing the indexes, the individual products and industries have been weighted in accordance with their relative importance

[Monthly average 1923–1925=100]

Year and month	Total[1]	Iron and steel	Textiles	Food products	Paper and printing	Automobiles	Leather and shoes	Cement,	Non-ferrous metals	Petroleum refining	Rubber tires and tubes	Tobacco manufactures
1919	84	82	92	94	76	50	104	54	67	54	------	82
1920	87	99	84	84	87	58	97	67	78	64	------	87
1921	67	46	87	83	70	41	90	66	39	64	55	85
1922	87	82	99	94	85	66	102	76	69	74	77	89
1923	101	105	105	99	94	102	110	92	94	86	86	96
1924	94	89	91	103	99	91	94	100	99	99	98	99
1925	105	106	104	98	107	107	96	108	107	115	116	105
1926	108	113	104	97	114	108	98	110	112	127	116	112
1927	106	104	113	96	112	86	103	115	109	136	120	118
1928	112	119	107	98	118	110	103	118	115	152	144	124
1929	119	130	115	97	125	135	105	114	125	168	135	134
1930	96	95	91	93	113	85	94	108	98	164	100	131
1929												
January	118	118	116	103	123	142	99	126	126	159	148	131
February	117	126	113	101	123	143	99	115	125	161	152	129
March	120	133	116	96	126	143	100	99	129	161	152	126
April	123	136	120	103	124	143	103	110	136	165	161	142
May	126	145	121	97	127	142	106	111	138	167	158	142
June	129	155	121	96	128	153	110	116	126	170	162	139
July	126	152	118	96	125	141	108	118	128	171	141	131
August	124	143	120	100	125	131	108	122	124	176	119	133
September	122	140	116	98	130	122	110	118	126	174	116	136
October	118	124	118	96	126	123	111	113	123	178	114	135
November	108	100	108	96	123	113	108	109	119	171	94	130
December	98	90	96	95	118	65	100	110	113	167	80	133
1930												
January	103	99	103	96	120	97	100	108	105	163	106	131
February	107	119	99	94	122	102	97	110	102	168	107	133
March	106	113	98	90	120	98	99	111	104	168	105	128
April	107	114	96	97	121	102	103	108	106	174	123	136
May	105	111	90	98	119	101	98	119	101	173	121	134
June	100	110	84	93	116	90	97	119	96	170	119	141
July	94	93	84	94	111	75	95	116	97	166	93	137
August	91	93	81	91	109	62	95	117	96	164	96	130
September	90	86	88	96	109	62	95	111	97	165	84	125
October	85	75	91	94	107	49	89	97	95	160	88	129
November	84	65	93	94	103	74	81	86	87	151	77	119
December	80	59	87	89	98	85	81	83	85	149	73	128

[1] Includes data for some industries not shown separately in this table.

Source of Tables 817 and 818: Federal Reserve Board.

No. 819.—TEXTILE MANUFACTURES: PRODUCTION

NOTE.—In general, most of the articles listed are finished products, but large quantities of partly finished products, especially yarn, made for sale to other establishments of the same or other branches of the textile industry are included. This involves considerable duplication in total value of products and in cost of materials

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1925	1927	1929	1925	1927	1929
COTTON-GOODS AND SMALL-WARES[1]							
Total value					1,761,713	1,608,941	1,579,792
Sheetings	Sq. yard	1,638,169	1,857,476	1,693,167	180,357	167,888	146,181
Print cloth	do	1,166,374	1,583,861	1,703,025	98,453	109,826	121,423
Voiles	do	124,479	151,654	157,449	14,438	15,012	13,407
Lawns, nainsooks, cambrics, and similar muslins.	do	326,087	272,454	226,554	43,323	32,101	26,419
Tobacco, cheese, butter, bunting and bandage cloths.	do	451,633	660,424	617,411	16,269	19,298	18,100
Ginghams	do	356,476	290,619	147,120	57,591	37,129	17,717
Shirtings	do	455,397	378,530	317,046	75,757	55,437	45,771
Drills	do	286,115	347,776	324,041	42,389	40,668	39,701
Twills and sateens	do	532,831	413,997	284,117	84,133	50,336	37,441
Ticks and denims	do	228,854	313,401	292,302	56,397	60,150	58,537
Osnaburgs	do	118,069	164,976	139,527	18,449	17,900	17,502
Cotton flannel (canton flannel, flannelettes, and blanketings).	do	340,416	400,097	323,140	53,607	55,386	48,329
Tire duck	do	40,762	35,474	22,277	16,629	11,343	6,846
Ducks (except tire)	do	193,334	218,505	230,144	53,827	57,929	65,093
Tire fabrics (except tire duck)	Pound	157,203	167,188	233,129	88,997	69,631	104,875
Tapestries	Sq. yard	15,737	18,619	9,810	17,390	16,612	12,995
Plushes, velvets, velveteens	do	33,478	42,689	59,394	40,679	45,710	41,761
Corduroys	do	21,503	23,171	27,134	9,553	8,677	9,501
Towels, toweling, and washcloths.	do	126,566	169,997	169,694	38,150	42,611	33,037
Cotton table damask	do	53,468	33,523	35,868	3,384	6,751	8,383
Blankets	do	92,077	107,263	94,061	29,548	29,452	25,392
Bedspreads and quilts (crochet, marseilles, and satin).	do	52,637	71,283	52,902	16,703	18,950	16,396
Bags made from fabric woven by establishment.	do	12,694	17,558	10,486	12,665	3,271	2,032
Small wares					67,127	62,156	65,494
Yarns for sale	Pound	628,170	664,745	647,725	313,907	253,802	253,349
Thread	do	34,167	29,992	25,250	53,284	46,409	37,100
Batting, wadding, and mattress felts.	do	90,681	129,836	149,481	14,134	16,304	19,407
Cotton waste for sale	do	419,604	485,308	443,916	40,824	26,842	32,570
Other cotton products					203,749	231,360	256,033
LACE							
Total value					30,149	24,360	27,931
Nottingham lace curtains	Pair	4,560	5,661	6,113	10,277	10,797	11,250
Nottingham lace curtain nets	Lin. yard	28,612	19,197	14,313	8,823	5,518	4,675
Levers laces	Sq. yard	8,982	(2)	(2)	6,548	6,263	8,756
Other lace products					4,501	1,782	3,250
KNIT GOODS							
Total value					801,427	794,560	831,176
Hose and half hose	Doz. pair	99,777	110,006	117,366	403,864	453,593	51,626
Sueded cotton gloves	do	70	28	696	744	350	3,985
Gloves and mittens (except sueded):	do	1,231	1,022		8,340	6,987	
Shirts and drawers	Dozen	11,262	8,492	8,802	60,845	38,961	37,670
Union suits	do	11,500	9,786	8,891	99,215	83,685	70,837
Bathing suits	do	695	740	1,021	16,322	15,857	22,084
Scarfs and shawls	do	492	188	127	4,661	2,215	1,163
Headwear	do	805	700	783	4,511	3,887	3,783
Neckties	do	2,705	1,810	628	8,961	5,853	1,717
Jersey cloth and tricollette	Sq. yard	42,172	44,439	75,521	36,451	37,697	45,375
Stockinette					2,168	957	1,234
Glove and shoe linings					4,632	4,773	4,655
Towels and towelings	Sq. yard	976	920	(3)	701	659	(3)
Other knit products					150,011	139,096	177,047

For footnotes see p. 853.

No. 819.—Textile Manufactures: Production—Continued

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1925	1927	1929	1925	1927	1929
SILK AND RAYON GOODS							
Total value					812,860	755,658	737,759
Broad silk:							
All silk	Sq. yard	384,725	385,530	424,607	426,000	376,919	385,773
Silk mixed	do	98,391	127,296	69,242	103,121	108,696	51,080
Velvets	do	6,078	5,484	9,651	14,525	11,909	25,112
Plushes	do	925	1,310	1,957	2,352	2,748	3,830
Upholstery and tapestry	do	2,675	3,705	3,403	5,037	8,303	6,122
Organzine, tram, and crêpe twist for sale.	Pound	9,660	11,409	12,121	66,478	70,247	69,740
Spun silk for sale	do	4,692	4,456	3,769	20,364	15,696	12,916
Machine twist	do	860	723	515	8,971	6,474	4,822
Sewing, embroidery, and other floss silks.	do	764	659	335	6,020	5,768	2,864
Ribbons					52,061	36,041	25,008
Laces, embroideries, nets, veils, veilings, etc.					1,326		
Fringes and gimps					6,794	7,508	7,839
Braids and binding					14,513	11,285	4,863
Other silk and rayon products					85,298	94,064	137,790
WOOLEN AND WORSTED GOODS[1]							
Total value					925,762	794,063	803,320
Suitings, dress goods, overcoatings, and cloakings.[4]	Sq. yard	460,922	414,320	354,295	566,302	459,453	432,258
All-wool woolen	do	153,323	136,635	135,354	198,964	167,484	155,938
All-wool worsted	do	179,163	173,754	166,211	275,617	231,998	238,669
Wool and cotton mixed	do	26,124	30,433	52,730	25,943	20,844	37,651
Cotton-warp woolen	do	60,933	46,609		40,029	24,785	
Cotton-warp worsted	do	41,379	26,889		25,749	14,342	
Flannels for underwear (all wool).	do	672	(2)	(2)	299	(2)	(2)
Flannels for underwear (cotton mixed).	do	999	(2)	(2)	649	(2)	(2)
Domett flannels and shirtings	do	7,206	8,413	14,899	3,440	3,627	5,778
Satinets and linseys	do	11,877	3,974		4,244	1,282	
Blankets, all-wool	do	11,084	17,295	18,095	10,989	12,359	15,831
Horse blankets	do	1,410	1,069	394	787	631	212
Yarns for sale	Pound	151,000	145,728	159,474	210,692	183,430	199,758
Noils and wool waste for sale	do	42,591	48,419	46,368	17,887	18,491	15,597
Other woolen and worsted goods.					110,473	114,790	133,886
FELT GOODS[1]							
Total value					40,591	39,015	42,294
Felt cloths	Pound	6,391	6,401	7,075	15,821	15,009	17,113
Trimming and lining felts, skirts and skirtings.	do	2,690	3,708	6,147	2,088	3,122	3,889
Boot and shoe linings	do	1,163	1,723	1,607	957	1,165	1,183
Hairfelting	do	31,058	31,095	70,254	5,209	6,075	20,109
All other felts	do				16,516	13,644	
HATS, WOOL-FELT							
Total value					7,688	7,767	8,031
Hats	Dozen	373	376	400	6,340	5,033	4,410
Hat bodies and hats in the rough.	do	185	379	500	1,348	2,734	3,621
CARPETS AND RUGS[1]							
Total value					181,885	163,217	174,286
Carpets	Sq. yard	21,859	16,872	27,385	49,024	40,778	61,788
Rugs, made of sewed strips	do	14,264	9,340	3,720	53,628	35,106	14,410
Rugs, woven whole	do	35,977	40,981	42,306	79,233	87,333	98,088
WOOL SHODDY							
Total value					19,201	10,737	13,075
Recovered wool fiber	Pound	67,543	40,823	57,562	19,201	10,737	13,075

For footnotes, see p. 853.

No. 819.—Textile Manufactures: Production—Continued

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1925	1927	1929	1925	1927	1929
CORDAGE AND TWINE AND JUTE AND LINEN GOODS							
Total value					148,965	130,004	135,989
Rope, cable, and cordage:							
Manila hemp	Pound	101,006	105,614	114,476	21,791	22,607	22,171
Sisal	do	43,094	30,712	27,381	6,469	4,439	3,917
Hennequin	do	5,223	12,992	16,120	778	1,840	2,447
Cotton	do	25,903	27,404	28,096	9,278	7,602	8,299
All other	do	58,033	55,929	41,614	9,661	8,154	5,784
Twine, binder	do	233,661	169,795	178,605	29,249	19,457	18,395
Twine, cotton	do	49,941	64,208	85,988	19,734	20,160	28,991
Twine, other	do	56,591	74,065	91,091	11,000	12,813	15,204
Yarns for sale	do	97,475	88,539	97,935	19,475	15,742	15,467
Linen thread	do	2,857	2,708	3,103	4,694	4,211	4,510
Linen woven goods					2,933	3,552	3,365
Jute bagging	Sq. yard	45,871	48,272	27,863	5,048	5,200	3,129
Other products					8,855	4,227	4,310
HATS, FUR-FELT[5]							
Total value					76,625	93,025	95,278
Hats	Dozen	1,733	2,013	1,770	62,224	73,084	70,809
Hat bodies and hats in the rough.	do	953	1,233	1,534	14,401	19,941	24,469
FLOOR COVERING, OILCLOTH, AND ARTIFICIAL LEATHER							
Total value					130,039	124,859	140,673
Oilcloth (cotton back)	Sq. yard	87,373	105,284	125,677	18,822	18,763	23,640
Linoleum (jute back)	do	52,830	49,921	48,272	44,513	42,031	48,744
Floor covering (felt back)	do	77,889	111,793	117,970	30,029	34,900	36,943
Artificial leather	do	68,580	61,792	65,892	36,675	29,165	31,346

[1] Figures for 1925 and 1927 are not strictly comparable with those for 1929; data for the several classes made as secondary products in other industries are included for 1929 but not for 1925 and 1927.
[2] Data not available.
[3] Included in other knit products.
[4] Data for other suitings such as mohair, mohair and cotton mixed, woolen-worsted, etc., are included in the figures for "Other woolen and worsted goods."
[5] Figures for 1925 are not strictly comparable with those for 1927 and 1929; data for fur-felt hats made as secondary products in other industries are included for 1927 and 1929 but not for 1925.

Source: Bureau of Census, Department of Commerce.

No. 820.—BOOTS AND SHOES: Production

NOTE.—**In thousands of pairs.** Detailed value data were not collected at the censuses. For total value of products of the industry see Table 814, p. 829. Data for 1922 to 1930 compiled from monthly reports of manufacturers representing approximately 95 per cent of the total production in the United States

Year	Total	Men's	Boys' and youths'	Women's	Misses' and children's	Infants'	Athletic and sporting (leather)	Canvas and other textile	Not specified (including slippers)
1914	292,666	98,031	22,896	80,916	48,322	15,477	(1)	(1)	27,024
1919	331,225	95,017	26,504	104,813	48,538	16,669	586	11,056	28,042
1921	286,771	69,458	18,462	101,474	35,066	17,379	5,547	8,602	30,784
1922	323,876	89,984	21,632	105,368	39,444	23,939	8,448	6,739	28,323
1923	351,114	100,283	22,239	109,676	40,136	27,015	6,434	8,347	36,984
1924	313,230	84,663	20,274	104,135	35,694	23,823	5,853	6,260	32,529
1925	323,553	86,546	21,021	104,782	38,691	24,587	5,914	8,564	33,448
1926	324,514	86,644	21,111	110,447	38,577	24,041	5,318	4,790	33,586
1927	343,606	95,328	24,229	116,259	39,650	24,542	[2] 1,488	3,301	38,809
1928	344,351	90,970	23,032	123,753	37,135	23,835	[2] 1,547	3,760	40,319
1929	361,402	94,770	22,993	131,303	39,927	23,750	[2] 1,612	3,121	43,926
1930	304,170	77,147	18,530	112,629	32,037	18,558	[2] 1,728	2,593	40,948

[1] Not reported separately; included with "not specified, etc."
[2] Excludes certain heavy footwear formerly classified as "athletic" but properly included with men's.

Source: Bureau of the Census, Department of Commerce.

No. 821.—LEATHER: Production by Principal Kinds

Note.—For value of products of the tanning industry see Table 814, p. 829

Kind	1924	1925	1926	1927	1928	1929	1930
Sole leather, cattle...1,000 backs, bends, sides	14,640	14,879	13,615	15,829	16,138	14,516	15,513
Belting leather...1,000 butts and butt bends	1,231	809	809	929	847	990	822
Harness leather...1,000 sides	1,269	1,288	1,169	1,016	813	642	506
Bag, case, and strap leather...do	1,056	1,175	1,183	1,105	812	947	751
Upholstery leather:[1]							
Whole-hide grains...1,000 hides	466	463	405	354	321	273	186
Machine buffed...do	183	163	196	148	149	141	53
Whole-hide splits...1,000 pieces	917	832	807	938	709	672	388
Upper leather (other than patent):[1]							
Cattle (including kip side)...1,000 sides	14,329	15,338	15,476	13,459	11,485	12,610	11,112
Calf and kip...1,000 skins	15,981	13,621	14,943	16,150	14,975	14,540	13,589
Goat and kid...do	34,641	40,887	48,415	49,417	52,862	54,355	54,451
Cabretta...do	2,380	2,412	2,344	1,551	2,064	1,672	1,972
Sheep and lamb...do	18,148	14,124	13,973	14,849	16,952	17,752	10,955
Patent leather (other than upholstery):[1]							
Cattle (including kip side)...1,000 sides	8,854	8,628	7,459	8,388	7,831	5,954	4,626
Horse and colt...1,000 half fronts	802	684	610	416	425	271	124
Goat and kid...1,000 skins	865	991	504	430	734	302	495
Glove and garment leather:[1]							
Horse, colt, ass, and mule—							
Half fronts...thousands	1,000	1,146	1,009	1,459	1,500	1,857	2,170
Shanks...do	1,165	1,011	1,143	1,154	1,301	1,420	1,497
Cabretta...1,000 skins	1,197	1,678	2,071	1,820	1,014	1,066	1,155
Sheep and lamb...do	5,561	5,326	5,297	7,576	9,026	8,633	9,298
Fancy and bookbinders' leather:[1]							
Sheep and lamb...1,000 skins	2,847	1,984	2,369	2,825	3,201	2,618	1,912
Goat and kid...do	338	541	664	717	1,116	889	398
Splits (other than upholstery) finished and rough...1,000 pieces	20,361	24,023	24,617	24,645	21,945	22,465	19,315

[1] Figures shown for principal kinds only.

Source: Bureau of the Census, Department of Commerce.

No. 822.—RUBBER-MANUFACTURING INDUSTRY: Products

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1925	1927	1929	1925	1927	1929
All products, total value					1,260,805	1,231,970	1,119,226
Tires and inner tubes:							
Pneumatic—							
Automobile and truck	Number	136,172	134,405	143,808	774,727	739,070	654,103
Motor cycle and bicycle	...do	*2,512*	*3,046*	*3,737*	*3,961*	*3,695*	*3,634*
Solid—							
Truck	...do	1,035	813	590	43,870	34,985	17,947
All other					1,991	1,673	1,128
Boots, rubber	Pair	4,739	5,362	5,454	16,028	16,746	16,141
Shoes and overshoes, rubber	...do	52,339	71,577	51,357	80,077	90,994	64,883
Shoes, canvas, with rubber soles	...do	25,000	28,810	43,954	23,818	25,456	30,335
Heels, sold as such or on hand	...do	342,196	318,346	292,719	26,092	25,504	17,927
Soles, including composition or fiber	...do	36,064	40,820	46,189	10,384	9,341	8,960
Rubberized fabrics, sold as such or on hand:							
Automobile and carriage	Yard	25,232	17,363	22,408	13,873	11,048	11,864
All other	...do	25,840	38,445	70,560	7,760	15,493	17,890
Belting					23,481	21,947	25,776
Hose					35,644	41,472	40,932
Packing					4,444	4,853	5,033
Clothing					7,748	(1)	(1)
Druggists' and stationers' sundries					18,462	15,732	16,894
Hard-rubber goods					29,111	18,891	17,937
All other manufactures of rubber					113,955	122,206	136,340
Reclaimed rubber	Pound	243,852	330,436	363,696	23,021	27,373	23,906
All other products					2,358	[2] 5,491	[2] 7,596

[1] Included in "All other manufactures of rubber."

[2] Includes clothing.

Source: Bureau of the Census, Department of Commerce.

No. 823.—CHEMICALS: Products Made for Sale

Note.—The table includes products made in all industries, sometimes as by-products. In addition to quantities shown in the table, made for sale, large quantities of certain chemicals, especially acids, are made and consumed in further processes in the same establishment. There is considerable duplication in the total value of products due to the use of products sold by one establishment as materials for other establishments manufacturing chemicals. Tons are of 2,000 pounds

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1925	1927	1929	1925	1927	1929
Total value					[1] 636,972	[1] 655,319	[1] 823,856
Acids:							
Acetic	Pound	65,592	46,296	66,364	4,438	5,049	6,890
Boric (boracic)	do	15,605	21,010	26,055	1,202	1,583	1,541
Carbonic	do	59,721	74,344	136,930	5,128	6,048	6,932
Citric	do	7,598	7,058	10,756	3,470	3,151	4,833
Hydrochloric (muriatic)	Ton	155	162	196	2,976	3,016	3,195
Mixed (sulphuric-nitric)	do	61	61	64	3,767	3,821	4,214
Nitric	do	27	29	35	3,560	3,559	3,495
Oleic	Pound	53,276	55,686	56,948	5,171	4,778	5,375
Phosphoric	do	21,330	22,397	34,674	1,489	1,682	2,073
Stearic	do	26,877	37,277	39,154	3,379	3,832	5,488
Sulphuric (basis 50° B)	Ton	4,700	4,972	5,816	38,230	42,886	45,573
Sulphuric reclaimed (50° B for 1925 and 1927)	do	210	191	381	1,479	1,089	1,389
Other acids					4,985	7,683	9,554
Alums	Ton	307	341	369	8,735	9,525	9,389
Aluminous abrasives	do	16	20	33	1,789	1,970	3,446
Other aluminum compounds					1,057	2,068	3,114
Bleaching compounds:							
Chlorine	Pound	104,960	180,163	289,855	4,236	6,678	7,113
Hypochlorites (calcium, sodium)	Ton	131	135	120	5,842	5,589	5,366
Peroxide bleaches	Pound	34,696	30,305	34,883	3,341	3,079	3,511
Sulphur bleaches					3,748	3,629	3,881
Coal-tar products:							
Crudes					25,403	24,862	24,025
Intermediates					25,324	22,844	26,633
Dyes and other finished products					61,474	58,350	78,755
Gases, compressed and liquefied					55,532	(2)	(2)
Nitrogen compounds:							
Ammonia (aqua)	Pound	66,228	46,225	30,200	3,027	1,260	1,784
Ammonia (anhydrous)	do	31,725	45,115	173,349	6,772	4,011	10,673
Other ammonium compounds					5,268	6,325	3,579
Ferric ferrocyanide	Pound	4,971	4,104	4,803	1,620	1,365	1,446
Other cyanides					5,044	4,946	6,337
Other nitrogen compounds					7,927	8,178	14,582
From coke-oven operations not included in total value (Bureau of Mines)—							
Ammonium sulphate	Pound	986,179	1,225,625	1,350,154	22,465	23,905	24,174
Liquor (NH_3 equivalent)	do	47,129	49,011	51,762	4,386	2,335	2,687
Plastics:							
Pyroxylin, including collodion	do	47,005	[3] 16,298	[3] 20,427	27,878	[3] 14,410	[3] 18,063
Finished articles of pyroxylin					10,984	6,801	10,522
Other plastics					9,870	6,992	12,946
Potassium compounds:							
Bitartrate (cream of tartar)	Pound	7,073	7,595	7,853	1,472	1,747	1,930
Iodide	do	495	528	444	1,821	1,897	1,487
Other					2,778	5,663	6,581
Sodium compounds:							
Bichromate and chromate	Ton	28	31	39	3,527	3,780	5,137
Biborate (borax)	do	50	65	92	4,083	5,079	3,280
Carbonates—							
Soda ash	do	1,369	1,466	1,814	32,244	29,939	34,649
Sal soda (crystals)	do	64	55	58	1,332	1,371	1,523
Bicarbonate	do	123	121	140	3,652	3,647	4,062
Modified sodas	do	47	54	65	1,551	1,828	2,111
Hydroxide (caustic)	do	487	561	721	27,392	29,193	35,838
Repacked caustic	do	27	21	17	4,415	4,128	3,612
Phosphates	do	80	97	146	5,755	6,985	8,965
Silicate	do	395	505	591	5,717	6,826	7,179

[1] The value of compressed and liquefied gases is included in the total for 1925, but not for later years. (See footnote 2.)

[2] Treated as a separate industry beginning 1927, see Table 825, p. 857.

[3] Data for pyroxylin solutions and thinners excluded for 1927 and 1929 in this table but included under "Paint and Varnish" in Table 825, p. 857.

No. 823.—Chemicals: Products Made for Sale—Continued

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1925	1927	1929	1925	1927	1929
Sodium compounds—Continued.							
Sulphates—							
Salt cake	Ton	141	175	170	2,339	2,787	2,015
Glauber's salt	do	58	53	62	1,265	1,082	1,112
Thiosulphate (hypo)	do	24	24	25	1,051	993	906
Other	do	104	123	87	529	744	1,202
Sulphide	do	24	38	33	1,203	1,692	1,407
Other					13,466	13,806	20,528
Miscellaneous:							
Barium compounds					1,498	1,607	2,234
Bismuth compounds					1,216	938	898
Calcium—							
Acetate	Ton	73	69	58	3,437	4,021	4,695
Arsenate	Pound	15,199	27,282	33,064	1,075	1,665	1,860
Carbide	Ton	128	202		6,599	9,398	(4)
Chloride	do	171	191	277	3,719	4,443	5,947
Hypochlorite	do	115	111	93	3,967	4,148	3,351
Phosphate	do	36	34	38	4,455	4,914	5,557
Other					893	2,658	14,728
Carbon bisulphide	Pound	39,875	44,972	71,010	1,934	2,160	2,860
Cobalt compounds and alloys					413	518	770
Copper sulphate (blue vitriol)	Pound	32,297	56,667	78,669	1,684	2,774	4,345
Ethyl acetate	Gallon	2,907	4,607	10,932	2,407	3,701	9,007
Ferro-alloys (not blast furnace)	Ton	150	197	247	15,255	17,049	28,655
Formaldehyde	Pound	21,972	26,447		1,891	2,432	(5)
Glycerin (glycero) refined	do	94,303	89,585	113,140	16,991	19,185	12,716
Iron sulphate (copperas)	Ton	53	62	56	603	673	554
Lead arsenate	Pound	11,938	21,528	30,682	1,778	3,190	3,523
Silver nitrate	Ounce	4,339	4,897	5,647	2,023	1,957	2,016
Sulphur, refined	Ton	47	44	78	2,121	1,799	3,066
Tin, salt, and compounds					6,783	10,583	13,112
Vanillin	Pound	215	300	317	1,134	1,923	1,858
Zinc chloride	do	58,947	58,268	77,232	1,993	1,921	1,619
All other products					132,764	169,274	239,450
Intergroup duplications					[6] 49,398	[6] 21,858	[6] 28,206

[4] Included in "Other calcium compounds." [5] Included in "All other products."
[6] Because of intergroup duplication the sum of the various products exceeds the total value of all products by this amount. For example, nitric acid is shown under "Acids" and is also included under "Other nitrogen compounds," likewise calcium hypochlorite is included in "Hypochlorites" under "Bleaching compounds" and is shown under "Calcium compounds."

No. 824.—NATURAL DYESTUFFS AND TANNING MATERIALS: Production[1]

Product	Quantity (thousands of pounds)			Value (thousands of dollars)		
	1925	1927	1929	1925	1927	1929
All products, total value				36,278	37,192	42,975
Natural dyestuffs:						
Extracts	23,402	26,500	26,246	1,971	2,049	2,426
Ground, chipped, or dry	1,226	921		44	20	
Tanning extracts:						
Oak and chestnut	303,089	319,155	277,989	5,353	5,671	4,296
Hemlock	8,622	6,596	(2)	284	210	(2)
Sumac	4,212	5,525	5,279	261	277	344
Quebracho	82,385	124,557	100,067	2,395	3,010	3,229
Other				2,040	1,854	1,937
Other tanning materials				409	409	152
Mordants				985	959	1,832
Sizes:						
Dextrin	56,350	31,917	33,507	3,336	2,093	2,043
Rosin	146,859	157,691	201,290	5,498	5,869	6,109
Gum, other than rosin	44,358	16,042	20,138	2,279	920	1,401
Starches, glue, and other	28,422	30,980	42,361	1,592	2,405	3,612
Turkey red oil	14,338	15,580	24,261	1,552	1,560	2,542
Softeners and other assistants				3,224	3,622	4,351
All other products				5,055	6,264	8,701

[1] Products made in all industries, sometimes as by-products, are included. [2] Included with "Other."
Source of Tables 823 and 824: Bureau of the Census, Department of Commerce.

No. 825.—MISCELLANEOUS INDUSTRIES INVOLVING CHEMICAL PROCESSES: CENSUS STATISTICS OF PRODUCTS

NOTE.—Only major products of a fairly sharply defined character, and in general only those for which quantitative data are available are shown. See also chemicals (Table 823), petroleum refining (Table 795), manufactured gas (Table 784), etc. Semifinished products made for consumption in the same establishment are not included, except where otherwise stated, but there is some duplication in total value of products in certain branches, due to the use of such products as materials by other establishments in the same industry. Data include, except where otherwise stated, not only products of the major industry specified but also similar products made in other industries. Tons are of 2,000 pounds

Industry and product	Quantity (thousands of unit specified)				Value (thousands of dollars)		
	Unit	1925	1927	1929	1925	1927	1929
BONE BLACK, CARBON BLACK, AND LAMPBLACK							
All products, total value					17,189	16,369	22,411
Bone black	Pound	64,135	59,350	54,277	2,540	2,524	2,490
Carbon black	do	177,417	198,429	283,806	9,640	10,955	17,028
Lampblack	do	12,032	8,800	101,705	1,435	1,040	1,185
All other products					3,574	1,850	1,707
FERTILIZERS							
All products, total value					214,809	198,923	253,491
Fertilizers	Ton	8,157	8,027	9,320	195,040	173,810	222,731
Complete fertilizers	do	4,926	5,088	5,992	143,327	128,380	168,838
Superphosphates, including concentrated phosphates, for sale.	do	2,639	2,435	[1] 2,531	35,180	30,003	28,375
Other fertilizers	do	664	600	707	16,533	15,427	25,517
All other products					19,769	25,113	30,760
PAINT AND VARNISH							
All products, total value					511,999	558,947	613,265
Colors (pigments)	Pound	1,608,119	1,773,889	1,918,459	103,919	105,756	116,753
Paints in paste form	do	434,583	408,722	401,546	55,707	49,554	46,666
Ready mixed paints	Gallon	87,640	94,071	106,165	158,376	165,664	178,242
Water paints and kalsomine, dry or in paste.	Pound	110,618	122,456	155,811	4,636	6,321	7,093
Varnishes, japans, and lacquer, including enamels.	Gallon	88,692	106,452	126,874	136,491	170,579	204,881
Fillers:							
Liquid	do	722	566	495	922	722	683
Paste and dry	Pound	42,004	41,486	30,613	2,304	2,109	1,954
Putty	do	101,209	102,703	99,163	3,026	4,255	4,253
Bleached shellac	do	11,136	10,611	11,140	5,991	5,015	5,431
Other products					39,727	48,972	47,309
SOAP							
All products, total value					282,728	293,352	322,103
Hard soaps	Pound	[2] 2,109,133	[2] 2,219,228	2,250,063	[2] 191,384	[2] 191,458	199,856
Toilet soaps	do	[2] 272,207	[2] 287,696	1,324,383	[2] 49,387	[2] 53,573	59,983
Soap chips	do	325,043	373,216	387,925	36,284	39,422	41,704
Laundary and foots soap	do	1,444,018	1,502,183	1,487,012	98,247	93,092	93,866
All other hard soaps	do	67,865	56,133	51,343	7,466	5,371	4,243
Granulated and powdered soaps	do	142,322	215,919	337,291	15,790	21,016	35,725
Soap powders, including commodities reported as cleansing and washing powders.	do	547,986	484,404	505,529	25,858	24,024	23,387
Soft soap	do	61,189	79,773	66,141	2,514	4,231	3,051
Liquid soap	do	22,047	24,934	35,263	2,122	3,241	3,497
Shaving soap, cream, and powder					(3)	(3)	10,794
Paste soap	Pound	30,086	30,459	40,626	2,201	2,259	3,010
Special soap articles	do	[4] 22,750	[4] 33,250	6,444	[4] 1,731	[4] 2,643	766
All other products					41,128	44,480	41,123
COMPRESSED AND LIQUEFIED GASES							
All products, total value					[5] 55,532	62,344	71,860
Acetylene	Cu. ft.	525,746	682,481	969,485	13,515	16,196	16,554
Hydrogen	do	150,502	103,714	207,843	877	742	1,423
Oxygen	do	2,073,826	2,350,896	3,140,095	22,577	23,987	23,410
Nitrous oxide (laughing gas)	Gallon	54,882	66,392	109,812	729	810	1,196
Other gases					17,834	20,120	28,710
All other products					(3)	480	567

[1] Basis, 16 per cent, available phosphoric acid.
[2] Figures include shaving soap.
[3] Data not reported separately.
[4] Due to a change in classification, figures are not strictly comparable with 1929.
[5] Excludes "All other products."

No. 825.—Miscellaneous Industries Involving Chemical Processes: Census Statistics of Products—Continued

Industry and product	Quantity (thousands of unit specified)				Value (thousands of dollars)		
	Unit	1925	1927	1929	1925	1927	1929
DRUGGISTS' PREPARATIONS							
All products, total value					80,921	108,502	124,989
Caffeine	Pound	322	399	442	1,047	1,178	1,104
Codein	do	6	9	14	702	1,169	1,986
Morphine	do	6	11	8	922	1,391	1,081
Strychnine	do	14	28		122	190	
Nicotine	do	711	790		1,682	2,011	3,858
Other, including quinine and other cinchona alkaloids, and alkaloids not itemized.					1,862	1,215	
Biological products					10,622	18,411	16,850
Tinctures, fluid extracts, medicinal sirups, and other liquid preparations not otherwise accounted for.					30,232	38,612	49,487
Pills, tablets, powders, etc., not otherwise accounted for.					32,554	41,745	46,184
Pharmaceutical metals and their salts					1,176	2,580	4,439
PATENT AND PROPRIETARY MEDICINES							
All products, total value					174,306	184,073	211,840
For sale to the general public					134,188	140,679	154,899
Ethical specialties (dispensed on prescription).					40,118	43,394	56,941
PATENT AND PROPRIETARY COMPOUNDS							
All products, total value					72,988	84,132	101,913
Antiseptics					13,842	17,864	21,799
Liquid deodorants	Pound		6,378	10,871		1,517	3,451
Block and crystal deodorants	do		514	1,503	2,719	380	961
Powder deodorants	do		1,672	1,937		347	370
Other deodorants	do		630	638		329	251
Coal-tar disinfectants	do		23,231	21,774		3,825	4,637
Pine oil disinfectants	do		2,897	1,832	5,775	442	427
Chloride of lime and chlorine products	do		1,391	2,836		124	536
Other disinfectants	do		7,284	11,281		1,698	1,731
Germicides					1,306	2,237	2,483
Sprays, fly	Pound		18,408	36,685		6,101	9,323
Insect powder (pyrethrum)	do		2,731	5,542		1,772	2,447
Fluoride powders and mixtures	do		615	701	18,904	310	385
Moth repellants	do		3,680	2,364		1,104	800
Other household insecticides	do		14,197	8,955		3,621	2,123
Agricultural insecticides and fungicides.						8,782	10,340
Disinfectants and household insecticides, not reported by kind.							3,345
All other compounds					30,442	33,679	36,504
PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS							
All products, total value					147,393	178,474	201,689
Perfumes					20,358	15,302	19,198
Toilet waters						8,469	8,264
Creams					35,549	29,219	33,347
Rouges						11,492	12,309
Dentifrices					25,736	30,693	32,464
Hair tonics					9,991	11,639	10,339
Face powders						21,583	24,038
Talcum powders					21,378	8,003	8,344
Other toilet powders						3,097	2,340
All other toilet preparations					34,382	38,979	51,046
ICE, MANUFACTURED							
All products, total value					193,267	190,556	215,776
Ice:							
Ice industry	Ton	38,813	39,058	44,530	180,782	178,639	204,624
Can ice	do	38,229	38,865	44,457	178,157	177,765	204,328
Plate ice	do	585	193	73	2,625	874	296
Other industries	do	1,350	1,229	995	6,298	5,761	4,605
All other products, etc					6,187	6,156	6,547

Source: Bureau of the Census, Department of Commerce.

No. 826.—PRINTING AND PUBLISHING: CENSUS STATISTICS

Publications	1921	1923	1925	1927	1929
	Value (thousands of dollars)				
Total	1,827,809	2,021,356	2,269,638	2,507,426	2,760,196
Newspapers and periodicals, printed and published or published only	1,005,270	1,154,786	1,321,611	1,459,688	1,580,565
Subscriptions and sales	328,283	360,893	398,338	429,467	460,327
Advertising	676,987	793,893	923,273	1,030,221	1,120,238
Newspapers	734,321	803,497	892,094	977,648	1,073,119
Periodicals, other than newspapers	270,949	351,289	429,517	482,040	507,446
Newspapers and periodicals, printed for publication by others	35,301	36,893	56,488	54,975	71,521
Books and pamphlets	166,663	178,474	201,708	232,920	257,012
Sheet music and books of music	14,293	14,163	14,133	17,147	16,538
Job printing, general, electrotyping, engraving, lithographing and blank books	574,212	623,047	669,937	737,021	825,585
All other products	32,070	13,993	5,761	5,675	8,975
	Aggregate circulation per issue				
Newspapers and periodicals:					
Daily	32,341,678	35,733,107	38,039,682	42,343,210	42,947,824
Sunday	20,853,355	24,511,693	25,630,056	27,695,859	29,011,648
Triweekly	523,872	431,504	400,730	468,534	311,777
Semiweekly	1,540,206	2,024,683	1,934,095	2,026,760	2,982,184
Weekly	43,521,178	47,860,508	50,815,443	55,985,413	53,378,350
Monthly	83,459,144	91,654,028	111,875,957	120,693,490	133,048,488
Quarterly	21,745,216	22,197,918	22,840,186	21,247,360	20,605,002
All other classes	6,962,012	7,620,173	8,450,308	8,156,399	11,514,355

No. 827.—ENGINES, WATER TURBINES, TRACTORS, AND LOCOMOTIVES

[Value in thousands of dollars]

Class	1921	1923	1925	1927	1929
Total	242,526	407,038	310,556	367,026	464,553
Steam engines	30,357	26,765	24,411	22,573	32,415
Reciprocating marine	5,916	1,170	636	1,703	5,137
Reciprocating stationary and portable	8,775	12,882	7,962	5,406	
Stationary turbines	12,342	10,328	14,055	14,499	27,278
Marine turbines	2,321	(1)	(1)	965	
Not reported as to type	1,003	2,385	1,758		
Internal-combustion engines (not including tractors)	74,699	110,752	117,894	141,161	166,633
Diesel and semi-Diesel type—					
Marine	8,273	14,013	7,353	7,062	11,430
Other			15,875	13,347	15,369
Other internal-combustion engines—					
Marine—					
Stationary	7,604	8,492	8,833	7,370	7,111
Detachable			2,561	5,553	7,852
Motor vehicle [2]	31,005	[3] 59,074	[3] 55,624	63,636	50,654
Other stationary and portable	[4] 27,817	29,173	27,648	34,699	49,251
Aircraft engines [5]				9,494	24,966
Tractors and traction engines	53,169	78,320	102,905	136,950	196,997
Tractors, internal-combustion	53,169	76,427	102,647	136,837	196,953
Traction engines, steam		1,893	258	113	44
Tractor trucks (semitractors)			(6)	2,172	
Water turbines	[7] 4,624	6,732	5,338	5,441	5,045
Engines and turbines not specified as to kind of power			[8] 13,707	414	658
Locomotives, steam	79,677	184,469	46,301	58,315	62,805

[1] No data.
[2] Excluding engines built for installation in motor vehicles manufactured in the same establishments.
[3] Includes some aviation engines for 1923 and 1925 and a few motor-cycle engines for 1923.
[4] Includes data for motor-cycle and aviation engines.
[5] Excluding engines built for installation in aircraft manufactured in the same establishment. Data prior to 1927 included with motor vehicle and other stationary and portable engines (see footnotes 3 and 4).
[6] Reported with "Engines and turbines," etc., to avoid disclosing operations of individual establishments.
[7] Includes data for a small number of water motors not reported separately.
[8] Reported as secondary products by establishments in other industries; tractor trucks also included.

Source of Tables 826 and 827: Bureau of the Census, Department of Commerce.

No. 828.—METAL-WORKING MACHINERY (INCLUDING MACHINE TOOLS): PRODUCTION[1]

NOTE.—This table includes data for all establishments reporting the production of metal-working machinery, both as a primary and a secondary product

Kind	Number			Value (thousands of dollars)		
	1925	1927	1929	1925	1927	1929
Metal-working machinery, total value				138, 812	144, 756	236, 396
Machine tools				91, 459	105, 555	186, 061
Metal-working machinery, other than machine tools				47, 353	39, 201	50, 335
Machine tools:						
Bending machines	807	2, 114	2, 680	642	1, 085	1, 584
Boring machines	802	598	681	3, 032	3, 352	6, 925
Broaching machines	435	255	259	540	372	397
Cutting-off machines	1, 786	2, 056	3, 185	497	602	1, 205
Drilling machines	(1)	(2)	(2)	7, 046	7, 745	17, 295
Forging machines	85	738	950	779	2, 481	3, 067
Gear-cutting machines	1, 271	1, 267	2, 216	4, 258	4, 417	8, 980
Grinding machines	(1)	(2)	(2)	10, 734	12, 250	23, 554
Hammers, stationary	855	324	(2)	829	560	1, 595
Lathes and screw machines (automatic)	(1)	12, 877	24, 469	22, 264	23, 959	49, 554
Milling machines	(1)	2, 978	5, 667	6, 489	8, 545	16, 857
Pipe cutting and threading machines	2, 637	2, 281	2, 933	1, 305	1, 344	1, 756
Planers	193	196	268	1, 105	1, 867	2, 517
Portable tools	(1)	(2)	(2)	11, 896	15, 255	15, 499
Presses	(1)	(2)	(2)	7, 995	8, 054	9, 792
Punching machines (stationary)	1, 034	638	330	1, 910	862	1, 112
Riveting machines (stationary)	(1)	1, 368	800	687	673	192
Shapers	1, 125	986	1, 813	1, 615	1, 629	3, 177
Shears (power)	1, 892	1, 771	2, 072	1, 351	1, 308	2, 119
Slotters	62	36	156	405	182	409
Threading machines (excepting pipe)	(2)	(2)	(2)	839	1, 613	2, 791
All other machine tools	(2)	(2)	(2)	5, 241	7, 399	15, 684
Metal-working machinery, other than machine tools:						
Rolling-mill machines	(2)	(2)	(2)	15, 001	14, 308	19, 617
Sheet-metal working machines	(2)	(2)	(2)	17, 468	17, 545	23, 139
Wire-drawing machines	(2)	(2)	(2)	670	1, 504	1, 619
Rod and wire-working machinery	(2)	(2)	(2)	14, 214	5, 844	4, 077
Other metal-working machines	(2)	(2)	(2)			1, 880

[1] Data for 1925 are not strictly comparable with those for 1927 and 1929.
[2] Data incomplete.

Source: Bureau of the Census, Department of Commerce.

No. 829.—MACHINERY: VALUE OF THE PRINCIPAL CLASSES MANUFACTURED

NOTE.—Values in thousands of dollars. The various classes of machinery listed are products of a number of industries, such as "foundry and machine-shop products," "agricultural implements," "aircraft," "cash registers, adding and calculating machines," "dairymen's, poultrymen's, and apiarists' supplies," "electrical machinery, apparatus, and supplies," etc. This table is not an industry presentation, but a special presentation giving value of products for groups designated. The values are in part duplicated in other tables in this abstract, such as Tables 827, 828, 830, and 831

Class	1921	1923	1925	1927	1929
Agricultural machinery	58, 136	82, 130	85, 471	129, 595	167, 673
Aircraft	5, 099	9, 077	8, 102	14, 505	51, 508
Bakers' machinery and equipment	10, 560	14, 451	17, 212	20, 015	21, 730
Blowers and fans	12, 518	14, 386	16, 210	20, 433	25, 221
Bottling machinery	6, 642	5, 969	10, 139	11, 584	11, 082
Clay-working machinery (brick, pottery, etc.)	3, 772	5, 508	5, 298	4, 308	4, 402
Canning machinery	5, 139	9, 691	9, 766	7, 339	8, 535
Cars and trucks, industrial and mining	(1)	17, 919	24, 267	21, 741	26, 886
Cash registers, adding and calculating machines, and parts	53, 960	96, 378	93, 615	100, 603	106, 217
Cement and concrete machinery:					
Cement-making machinery	(1)	3, 680	4, 146	4, 619	4, 387
Cement and concrete-block machinery	(1)	(1)	1, 461	656	1, 147
Concrete mixers	(2)	13, 602	12, 620	12, 674	11, 405
Other cement and concrete machinery	(2)	(2)	5, 604	2, 584	2, 985
Condensers	(1)	4, 588	4, 938	5, 899	4, 386
Confectionery and ice-cream machinery	5, 157	5, 029	5, 143	5, 682	3, 674

Footnotes at end of table.

No. 829.—Machinery: Value of the Principal Classes Manufactured—Continued

[Values in thousands of dollars]

Class	1921	1923	1925	1927	1929
Conveying machinery:					
Bucket type	(1)	(1)	14,717	10,726	9,387
Belt type	(1)	(1)	8,601	10,520	14,206
Other	(1)	(1)	7,370	12,282	24,945
Cotton gins	2,721	7,175	12,808	9,543	11,760
Cranes (including hoists and derricks)	20,445	42,197	43,936	44,454	57,840
Dairy, cheese-factory, and butter-factory machinery	17,759	16,486	15,177	16,536	16,743
Dredging and excavating machinery:					
Power shovels	12,858	23,684	26,609	32,106	43,343
Other	4,991	16,622	19,232	19,776	17,397
Electrical machinery	89,800	128,384	134,513	154,644	221,631
Elevators and elevator machinery	40,931	52,516	47,430	43,152	44,044
Engines (steam or internal-combustion) and water wheels [3]	186,488	266,285	317,255	359,607	460,089
Flour-mill and grain-mill machinery	8,663	9,084	7,946	7,967	8,236
Gas machines and apparatus	4,554	7,243	6,242	5,082	5,408
Glass-making machinery	4,088	2,651	2,666	3,085	3,688
Hydraulic machinery:					
Hydraulic rams	(2)	(2)	218	450	126
Other	(2)	(2)	(2)	(2)	10,082
Laundry machinery	12,983	19,077	24,198	27,204	28,893
Lawn mowers	6,401	8,258	8,047	9,269	10,953
Leather-working machinery, other than shoe	2,526	2,575	2,222	2,000	1,249
Locomotives (steam, electric, internal-combustion)	90,111	194,673	58,359	70,508	77,999
Machine tools	(2)	89,964	91,459	105,555	186,061
Metal-working machinery, other than machine tools	(2)	(2)	47,353	39,201	50,336
Meters, gas and water	18,181	23,397	24,502	24,978	22,036
Mining machinery, other than oil-well	30,290	[4] 47,590	34,827	35,259	40,325
Motion-picture cameras and projectors	2,869	2,631	4,620	8,345	8,755
Motor cycles and bicycles	12,710	20,752	15,906	13,804	13,727
Motor vehicles, except motor cycles	1,326,120	2,611,735	2,946,821	2,540,714	3,412,056
Oil-mill machinery, cottonseed, and other	1,472	3,037	4,132	4,697	2,533
Oil-well machinery	27,415	52,158	47,299	62,126	89,067
Ore crushers	3,322	4,862	3,252	2,893	(5)
Packing-house machinery	4,133	5,441	5,370	5,577	6,663
Paper-mill and pulp-mill machinery	[6] 31,581	18,736	21,209	27,098	30,456
Pneumatic machinery (other than pneumatic tools):					
Air compressors	15,729	27,762	29,473	29,319	39,683
Other pneumatic machinery	(1)	(1)	(1)	(1)	1,691
Printing machinery	54,870	68,630	67,056	63,240	64,860
Pumps (hand and power) and pumping equipment	[7] 69,255	92,815	121,345	129,127	145,312
Refrigerating machinery	33,174	36,542	62,593	110,246	166,320
Road-making machinery	17,858	24,264	26,297	27,728	30,694
Rubber-working machinery	8,003	6,849	10,164	9,951	13,552
Scales and balances	15,885	21,836	23,691	22,166	25,415
Sewing machines, cabinets, attachments, and parts	[8] 35,608	[8] 42,993	[8] 45,131	34,925	40,960
Shoe machinery	9,482	10,663	11,769	12,334	12,317
Slot-vending machines	2,466	3,777	4,202	7,059	8,821
Stokers, mechanical	7,161	14,095	9,420	10,213	14,006
Sugar-mill machinery	12,075	9,112	8,643	6,601	5,046
Textile machinery and parts	115,167	127,406	109,354	102,200	115,525
Transmission machinery	(1)	11,359	15,350	18,246	26,787
Typewriters (new and rebuilt)	[9] 31,972	[9] 39,521	[9] 50,190	51,942	55,057
Vacuum cleaners (electric)	21,726	36,870	40,285	36,972	[10] 35,198
Washing machines, clothes wringers, driers, and ironing machines for domestic use	32,444	57,551	70,761	73,847	69,140
Well-drilling machinery, other than oil-well	1,353	1,074	1,843	1,545	1,463
Windmills and windmill towers	3,953	4,636	5,682	4,555	5,411
Woodworking machinery	25,682	44,447	39,620	29,569	35,151

[1] Not reported separately.
[2] No comparable data.
[3] Excluding steam boilers made for sale as separate units.
[4] Not strictly comparable with figures for other years due to changes in classification.
[5] The value is withheld from publication in order to avoid disclosing data for individual establishments.
[6] Includes machinery used for converting paper into boxes, bags, etc., for 1921, but not for other years.
[7] Not strictly comparable with later years; includes power pumps and equipment only.
[8] Figures include sewing machine cases made for sale as such.
[9] Figures not strictly comparable with later years which include value of parts.
[10] Figures include both electric and other vacuum cleaners.

Source: Bureau of the Census, Department of Commerce.

No. 830.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: VALUE OF PRODUCTS, BY CLASSES

NOTE.—All figures except number, kilovolt-amperes, and kilowatts in thousands of dollars. Includes subsidiary products of establishments classed under other industries

Product	1921	1923	1925	1927	1929
Total value	809,590	1,278,700	1,549,018	1,668,105	2,334,246
Generators (not specified elsewhere):					
Alternating current—					
Number	1,687	1,975	2,098	2,856	2,360
Kilovolt-amperes (thousands)	2,994	(1)	3,674	3,632	3,869
Value	15,513	18,508	17,899	18,335	19,325
Direct current—					
Number	5,691	10,308	15,972	16,559	9,587
Kilowatts (thousands)	185	(1)	(1)	(1)	101
Value	2,923	4,235	5,317	4,503	2,500
Automotive generators for battery charging	27,443	54,007	56,221	58,128	28,210
Automotive starter motors					32,849
Self-contained power and lighting outfits	4,043	7,685	11,143	8,239	6,840
Transformers, induction-voltage regulators, and current-limiting reactors	42,103	59,115	62,153	66,804	77,825
Motor-generator sets and dynamotors	6,311	7,305	8,264	6,764	13,397
Control apparatus, railway, vehicle, motor, and other	19,551	33,177	31,303	34,181	44,289
Electric locomotives (mining, industrial, and railway)	9,397	8,865	10,331	9,858	17,706
Stationary motors (not fan), total	58,078	84,778	92,648	97,673	136,035
Fractional horsepower	16,907	23,939	28,249	33,903	51,252
One horsepower and over—					
Direct current	9,358	13,865	15,797	15,628	22,619
Alternating current	31,814	46,973	48,602	48,142	60,711
Not reported as direct or alternating					1,453
Electric fans	7,251	9,583	10,654	10,352	10,196
Motor parts and supplies	9,394	13,825	12,947	14,147	18,977
Storage batteries, parts and supplies	48,558	92,843	110,212	97,808	109,601
Primary batteries	14,609	21,446	40,982	46,283	40,334
Primary battery parts and supplies	3,716	3,776	4,054	6,298	
Carbons: Electrodes for lighting and furnaces, brushes, and specialties	5,528	14,746	13,955	14,364	17,049
Incandescent lamps	59,728	71,966	73,558	87,933	85,320
Telegraph apparatus	244	2,086	2,922	5,561	166,293
Telephone apparatus	101,992	92,398	81,510	115,452	
Fire-alarm apparatus	2,404	2,640	3,490	3,611	4,030
Radio apparatus, including tubes	10,648	29,679	147,538	149,658	411,637
Household apparatus and appliances:					
Vacuum cleaners, portable	19,753	35,982	39,971	36,222	35,108
Flatirons	4,731	8,199	7,998	7,917	8,018
Cooking utensils	3,164	5,486	7,921	11,668	13,341
Ranges, disk stoves, and hot plates	[2] 1,795	3,677	7,901	12,119	16,933
Airheaters, radiant and convertor type	1,151	1,862	2,028	1,439	1,833
Electric-measuring instruments	21,033	28,221	31,650	34,133	38,523
Switchboards, panel boards, cabinets, circuit breakers, and switches	36,299	57,856	69,759	71,924	81,201
Magneto-generators	4,065	10,304	9,930	9,016	14,461
Spark plugs	10,013	13,660	13,878	13,372	20,244
Coils	6,511	7,868	7,837	8,467	9,724
Insulated wires and cables	98,333	184,472	210,617	210,048	312,592
Searchlights, flood lights, headlights; motion-picture, photo-engraving, and stage projectors	1,943	2,479	2,801	4,561	4,201
Railway signals and attachments	1,620	4,466	14,030	22,340	22,572
Fuses, cut-outs and fuse plugs	4,483	9,245	10,393	10,891	14,036
Wiring devices	21,806	34,966	34,806	32,703	38,395
Lightning arresters and choke coils	2,044	3,834	5,961	6,327	6,515
Electric-railway line materials	2,691	8,796	4,240	5,446	3,261
Conduits, interior	[3] 19,346	[3] 37,500	45,785	41,717	56,270
Electric-signaling apparatus (other than railway)	6,444	7,142	5,081	6,365	8,218
All other	92,929	180,022	219,330	265,478	386,388

[1] No comparable data.
[2] Reported as "ranges" in 1921.
[3] Not strictly comparable with later years; includes underground conduits.

Source: Bureau of the Census, Department of Commerce.

No. 831.—FARM EQUIPMENT: PRODUCTION

NOTE.—For all wagons, see Table 833; for all tractors, see Table 827

Class	Number				Value (thousands of dollars)			
	1927	1928	1929	1930	1927	1928	1929	1930
All products, total value					460,881	524,255	607,069	506,214
Plows and listers					29,477	32,159	42,365	37,330
Moldboard plows	525,446	552,107	656,859	501,743	14,812	15,512	20,346	15,754
Disk plows	21,425	25,952	46,504	38,106	2,396	3,119	7,145	6,263
Listers	35,690	38,645	[1] 48,576	60,157	1,538	1,646	[1] 2,085	2,898
Other plows	13,988	16,268	18,622	6,726	1,686	2,396	1,136	389
Attachments and parts, incl. plow stocks and steel plow shapes					9,045	9,486	11,653	12,526
Harrows, rollers, pulverizers, and stalk cutters					13,868	14,687	16,813	13,815
Disk harrows	122,680	134,127	138,849	113,764	7,051	7,491	8,712	7,377
Spike-tooth harrow sections	242,459	283,612	339,192	275,677	1,725	1,963	2,307	1,968
Spring-tooth harrow sections	117,434	133,029	126,306	104,159	1,242	1,509	1,445	1,175
Stalk cutters	10,400	10,456	11,696	11,487	377	396	439	415
Other, incl. attachments and parts					3,473	3,328	3,910	2,880
Planting and fertilizing machinery					24,560	26,505	31,145	26,087
Corn planters, one and two row	55,927	59,569	74,778	64,595	2,601	2,775	3,425	3,214
Combined corn and cotton planters	44,529	45,715	93,959	95,438	1,098	1,048	2,555	2,671
Combined listers and drills	9,231	5,289	7,004	15,323	674	430	604	951
Grain drills	58,629	73,434	70,408	46,796	6,638	8,736	10,035	6,480
Broadcast seeders	78,512	72,275	[2] 14,081	72,654	679	618	[2] 350	546
Manure spreaders	67,722	62,559	61,000	47,722	8,298	7,364	7,190	5,525
Other, incl. attachments and parts					4,572	5,534	6,976	6,700
Cultivators and weeders					14,296	15,864	22,857	20,607
1-horse	132,244	159,173	202,755	156,134	698	834	979	756
1-row	121,237	129,379	166,948	139,808	4,405	4,730	5,906	4,918
2-row	41,307	37,567	54,505	44,659	3,504	3,191	4,487	3,684
Hand cultivators (wheeled hoes)	147,065	133,214	153,434	171,213	447	413	459	500
Other cultivators and weeders	58,189	93,108	120,476	151,846	2,917	4,013	6,249	6,849
Attachments and parts					2,325	2,683	4,777	3,900
Harvesting machinery					57,319	67,291	87,719	62,145
Grain binders	71,091	67,099	65,069	[3] 46,166	10,831	10,610	10,661	[3] 7,787
Combines (harvester—thresher)	18,307	25,392	36,957	24,409	26,885	35,693	50,684	32,739
Corn binders	21,423	21,174	15,246	13,566	2,933	2,943	2,148	1,922
Potato diggers	15,780	19,930	12,767	10,055	1,003	1,290	789	723
Other harvesting machinery	24,604	27,213	32,434	25,112	3,733	5,456	5,398	6,651
Attachments and parts					11,934	11,299	18,039	12,323
Haying machinery					15,387	16,058	18,711	17,186
Mowers	110,644	121,935	126,360	117,601	6,007	6,503	7,050	6,466
Rakes	86,489	87,644	98,870	82,892	3,590	3,647	4,121	3,397
Loaders	25,102	24,895	24,920	28,222	2,018	2,034	1,991	2,277
Other haying machinery	7,041	9,028	11,113	16,730	363	479	612	1,296
Attachments and parts					3,409	3,395	4,937	3,750
Machines for preparing crops for market or use					32,329	33,466	30,103	20,760
Threshers	16,595	19,261	14,571	8,788	15,044	16,861	12,774	7,114
Ensilage and fodder cutters	15,280	14,740	11,530	9,811	2,088	2,099	1,768	1,454
Corn shellers	47,396	48,915	40,378	32,517	1,168	1,493	1,573	897
Corn huskers and shredders	2,448	1,423	972	599	1,150	711	460	266
Hay presses	3,325	3,674	3,460	3,068	1,072	1,082	1,106	1,065
Feed grinders and crushers	104,755	101,335	101,592	69,534	2,049	2,540	3,215	2,896
Other machines	72,091	163,336	108,638	70,027	2,513	1,705	2,483	1,832
Attachments and parts					7,245	6,975	6,724	5,236
Tractors	200,504	175,934	228,976	202,458	159,531	191,978	227,633	205,657
Wheeled types	184,594	152,266	195,980	176,075	101,649	113,876	141,653	123,291
Tracklaying type, all sizes	10,319	19,203	27,101	20,222	27,720	48,211	53,602	48,242
Garden tractors	5,591	4,465	5,895	6,161	814	822	908	1,102
Attachments and parts					29,348	29,070	31,470	33,022
Horse-drawn vehicles	119,330	136,826	114,267	69,033	8,884	9,974	8,813	4,948
Farm wagons	50,810	57,081	40,687	24,243	4,427	4,946	3,790	2,073
Farm trucks	48,278	62,889	60,969	39,746	1,926	2,521	2,518	1,585
Buggies	7,019	4,269	2,589	1,462	612	403	222	138
All other (incl. 2-wheeled carts)	13,223	12,587	10,022	3,582	360	260	251	117
Attachments and parts					1,559	1,844	2,032	1,035
Miscellaneous equipment					105,230	118,273	120,910	[4] 97,178
Stalls, stanchions, and stock pens					2,743	2,877	3,125	2,582
Stock tanks and waterers	305,065	353,583	361,026	317,797	1,895	2,022	2,087	1,988
Cream separators (hand)	[4] 191,996	[4] 203,857	[4] 172,187	105,553	[4] 8,098	[4] 9,673	[4] 7,695	4,709
Internal-combustion engines	131,610	140,833	146,690	92,948	8,619	9,016	9,134	5,337
Windmills and windmill towers	120,597	149,923	132,166	94,061	4,555	5,573	5,411	3,554
Other, incl. attachments and parts					79,320	87,112	93,458	79,008

[1] Excludes 2-bottom tractor-drawn listers; included with "Other plows" to avoid disclosing operations of individual establishments.

[2] Excludes wheelbarrow and other hand broadcast seeders; included with "Other."

[3] Includes rice binders.

[4] Includes power cream separators.

Source: Bureau of the Census, Department of Commerce.

No. 832.—MUSICAL INSTRUMENTS AND PHONOGRAPHS: PRODUCTION

Industry and product	Number			Value (thousands of dollars)		
	1925	1927	1929	1925	1927	1929
MUSICAL INSTRUMENTS AND MATERIALS						
Musical instruments, parts, and materials, all industries, total value [1]				164,932	127,351	77,843
Made in the musical instruments industries				164,819	125,901	74,096
Made as secondary products in other industries				113	1,450	3,747
Pianos:						
Upright	87,285	69,864	49,536	16,874	12,262	7,982
Upright, player	143,831	76,447	18,089	38,167	20,028	4,353
Upright, player, reproducing type	5,476	4,096	1,510	2,193	1,420	486
Grand—						
Baby	40,357	43,772	37,953	16,244	17,541	13,367
Baby, player	12,884	7,713	6,378	8,359	5,856	2,952
Parlor	9,170	8,757	7,770	5,433	5,320	4,163
Parlor, player	2,699	1,224	2,207	3,631	1,726	2,165
Concert	579	293	234	453	290	155
Automatic and electric	4,303	5,974	[2] 9,727	2,323	2,768	[2] 3,339
Organs:						
Pipe	1,955	2,471	1,799	12,808	16,782	11,153
Reed	4,360	3,091	2,703	442	385	375
Wind instruments:						
Brass			104,790	8,846	6,550	4,546
Wood			23,906	632	1,845	999
Stringed instruments				5,859	4,201	3,067
Percussion and other instruments (chimes, bells, xylophones, drums, traps, etc.)				2,886	2,715	2,913
Piano and organ parts and materials for sale as such:						
Pneumatic player actions for installation in player pianos and cabinet player attachments				14,782	6,608	2,779
Other piano parts and materials				15,223,	13,847	6,517
Organ parts and materials				[3] 1,842	[3] 1,810	1,095
Perforated music rolls				6,068	3,217	2,556
Parts and materials for musical instruments other than pianos and organs				1,867	2,180	2,831
PHONOGRAPHS						
Phonographs, including dictating machines, combination phonographs and radios, and parts and accessories, all industries, total value [4]				59,329	94,224	86,597
Made in the phonograph industry				55,726	91,135	77,709
Made as secondary products in other industries				3,603	3,089	8,888
	Thousands	*Thousands*	*Thousands*			
Phonographs, all types	642	1,046	755	22,614	49,242	43,026
Records and blanks	82,125	105,701	105,085	26,791	31,781	34,129
Needles, parts, and accessories				6,321	10,112	9,442
Phonographs and parts, undistributed				3,603	3,089	

[1] Excludes subsidiary products manufactured by the musical instruments industries, but normally belonging to other industries, and receipts for custom work and repairing, which amounted to $5,810,067 in 1925, $5,165,181 in 1927, and $6,898,606 in 1929.
[2] Includes data for a few pianos not reported as to kind.
[3] Includes the value of a small number of orchestrions.
[4] Excludes subsidiary products manufactured by the phonograph industry but normally belonging to other industries, and receipts for custom work and repairing, which amounted to $5,331,463 in 1925, $4,161,497 in 1927, and $19,140,008 in 1929.

Source: Bureau of the Census, Department of Commerce.

No. 833.—VEHICLES AND AIRCRAFT: PRODUCTION

Industry and product	Number			Value (thousands of dollars)		
	1925	1927	1929	1925	1927	1929
MOTOR VEHICLES						
Motor-vehicle industry, total value of products				3,198,123	2,848,443	3,723,330
Motor vehicles made in motor-vehicle industry	4,176,519	[1] 3,354,805	[1] 5,314,555	2,951,921	[1] 2,546,807	[1] 3,421,060
Other products of motor-vehicle industry				246,202	301,636	302,270
Motor vehicles made in other industries	1,728	967	1,938	730	1,119	1,812
Total motor vehicles, incl. chassis and trailers	4,178,247	3,355,772	5,316,493	2,952,651	2,547,926	3,422,872
Passenger vehicles	3,581,240	2,826,274	4,388,315	2,527,575	2,175,545	2,825,701
Touring, open	1,095,186	211,278	146,444	516,206	113,305	78,293
Roadsters, runabouts, and sport (speedsters), open	390,062	197,880	298,401	180,845	116,100	151,109
Closed	2,080,697	2,407,160	3,916,783	1,786,834	1,917,344	2,537,350
Public conveyances (cabs, etc.)	15,295	8,968	26,100	43,690	27,982	58,361
All other		988	587		814	588
Government and municipal vehicles	1,233	1,599	1,960	10,488	11,521	10,156
Business vehicles	341,811	329,673	391,593	237,243	258,404	277,352
Delivery cars	35,976	60,981	124,414	24,080	33,883	64,229
Trucks	303,824	266,492	261,523	257,804	220,050	205,772
All other	2,011	2,200	5,656	5,359	4,471	7,351
Chassis	240,790	178,487	512,219	121,516	95,244	298,847
Passenger	87,780	56,074	76,401	39,919	27,156	32,398
Business	153,010	122,413	435,818	81,597	68,088	266,449
Trailers	12,823	19,739	22,406	4,937	7,212	10,816
Tractors [2]	350			892		
MOTOR CYCLES, BICYCLES, AND PARTS						
All products				25,319	22,013	25,762
Motor cycles	39,350	35,197	31,912	8,876	8,001	7,543
Bicycles	303,446	255,456	307,845	7,031	5,803	6,184
Parts, repairs, and all other products				9,412	8,209	12,035
CARS, STEAM AND ELECTRIC RAILROAD [3]						
All products				390,771	312,509	328,220
Steam:						
Passenger (day coaches only)	532	967	342	11,991	22,621	6,817
Sleeping, baggage, express, etc., in passenger service	1,589	998	1,086	42,949	29,759	33,596
Box	49,230	19,645	34,168	101,024	45,319	80,989
Flat	2,306	1,656	2,845	3,225	2,838	5,150
Gondolas	21,402	10,479	12,644	42,002	20,023	29,401
Hopper	3,243	8,734	10,132	5,870	19,917	24,682
Refrigerator	4,704	9,004	5,165	14,741	25,633	20,031
Stock	3,310	1,016	2,469	5,877	1,882	4,744
Tank	5,396	5,455	3,290	10,702	10,449	6,140
Other varieties	4,420	2,520	2,938	8,800	6,946	7,954
Electric:						
Passenger	1,753	1,194	436	19,030	19,320	5,412
Other varieties	81	98	37	419	438	527
All other products, including repairs				124,141	107,364	102,777
CARRIAGES AND WAGONS						
All products				29,583	22,648	20,040
Wagons	211,418	125,704	113,458	16,400	8,475	7,285
Carriages and buggies	20,646	7,019	[4] 3,597	1,884	612	[4] 347
Other conveyances	4,054	6,611	4,434	2,147	3,011	2,755
All other products, parts, repairs, etc.				9,152	10,550	9,653
AIRCRAFT						
All products				12,775	21,614	72,019
Airplanes	711	1,888	6,482	5,908	12,225	46,848
Seaplanes	78	107	109	765	2,280	4,660
Under construction at close of year	259			1,429		
Parts and engines for sale as such				3,795	5,037	10,370
All other products, including repairs				878	2,072	10,141

[1] Exclusive of tractors which were included with "Other products of motor-vehicle industry."
[2] Figures refer only to tractors manufactured by establishments engaged primarily in the manufacture of motor vehicles; included in "Other products of motor-vehicle industry" for 1927 and 1929. For total production of tractors, see Table 827.
[3] Not including cars built or repair work done by railroad companies.
[4] Includes sulkies.

Source: Bureau of the Census, Department of Commerce.

No. 834.—COTTON SPINDLES, COTTON CONSUMPTION, AND STOCKS

NOTE.—The statistics for 1915 to 1930 relate to the 12 months ended July 31 and those for prior years to the 12 months ended Aug. 31. South refers to cotton growing States. Consumption is expressed in running bales, counting round as half bales, except that all figures, 1840 to 1870, inclusive, and foreign cotton in all years are in equivalent 500-pound bales. The number of active spindles represents spindles operated for any time, however short, during the year, and is therefore an unsatisfactory measure of activity of the industry

Year	Cotton spindles (thousands)					Spindles using cotton with other fibers (thousands)	Cotton consumed, excluding linters [1] (thousands of bales)			
	Total in place	Active								
		Total	The South	New England	Other States		Total	The South	New England	Other States
1840	(2)	2,285	181	1,597	506	(2)	237	71	159	7
1850	(2)	3,998	265	2,959	775	(2)	576	78	431	67
1860	(2)	5,236	324	3,859	1,053	(2)	845	94	567	184
1870	(2)	7,132	328	5,498	1,306	(2)	797	69	551	177
1880	(2)	[3] 10,653	[3] 561	[3] 8,632	[3] 1,460	(2)	[3] 1,570	[3] 189	[3] 1,129	[3] 252
1890	(2)	14,384	1,570	10,934	1,880	(2)	2,518	539	1,502	477
1900	(2)	19,472	4,368	13,171	1,933	(2)	3,873	1,523	1,909	440
1905	(2)	23,687	7,631	14,203	1,853	(2)	[4] 4,279	[4] 2,140	[4] 1,753	[4] 386
1910	28,929	28,267	10,494	15,735	2,038	(2)	4,622	2,234	1,995	393
1912	31,583	30,579	11,583	17,140	1,856	500	5,129	2,636	2,076	417
1913	32,160	31,520	12,227	17,311	1,981	455	5,483	2,862	2,178	443
1914	32,744	32,108	12,711	17,408	1,988	414	5,577	2,925	2,219	433
1915	32,841	31,964	12,956	17,101	1,908	395	5,597	3,027	2,149	421
1916	33,333	32,806	13,382	17,474	1,950	405	6,398	3,528	2,389	481
1917	34,221	33,889	14,156	17,761	1,972	453	6,789	3,888	2,415	486
1918	34,941	34,543	14,529	17,985	2,029	447	6,566	3,697	2,402	467
1919	35,443	34,931	14,846	18,066	2,019	429	5,766	3,199	2,165	402
1920	35,834	35,481	15,231	18,287	1,963	402	6,420	3,583	2,397	440
1921	36,618	36,047	15,709	18,388	1,951	336	4,893	2,997	1,614	282
1922	36,946	35,708	15,906	17,939	1,863	314	5,910	3,730	1,823	357
1923	37,409	36,260	16,310	18,054	1,896	289	6,666	4,248	2,049	369
1924	37,804	35,849	16,944	17,066	1,839	258	5,681	3,858	1,535	288
1925	37,929	35,032	17,292	15,975	1,765	251	6,193	4,220	1,639	334
1926	37,586	34,750	17,574	15,526	1,650	243	6,456	4,500	1,628	328
1927	36,696	34,410	17,894	14,995	1,521	235	7,190	5,194	1,675	321
1928	35,540	33,570	18,282	13,815	1,473	232	6,834	5,114	1,438	282
1929	34,820	32,417	18,541	12,537	1,339	207	7,091	5,392	1,448	251
1930	34,025	31,245	18,586	11,351	1,308	177	6,106	4,749	1,143	214

Yearly average or year	Consumption (thousands of bales)						Stocks in consuming establishments at end of year (thousands of bales)			
	Total, excluding linters	Domestic			Foreign	Linters	Total, excluding linters	Domestic	Foreign	Linters
		Total	Upland	Sea Island						
1906-1910	[5] 4,829	[5] 4,680	[5] 4,595	[6] 62	149	[7] 163	[5] 731	[5] 673	58	[7] 39
1911-1915	5,257	5,051	4,976	75	206	293	822	738	84	86
1916-1920	6,388	6,105	6,034	71	282	734	1,452	1,352	100	179
1921-1925	5,869	5,577	5,568	9	292	599	1,003	911	92	139
1926-1930	6,735	6,434	6,433	1	301	815	1,150	1,050	100	186
1914	5,577	5,383	5,301	82	194	307	676	612	64	75
1915	5,597	5,375	5,296	79	222	412	1,401	1,292	109	199
1916	6,398	6,080	5,998	83	317	881	1,632	1,490	143	100
1917	6,789	6,470	6,376	94	318	870	1,502	1,408	94	113
1918	6,566	6,382	6,297	86	184	1,119	1,465	1,403	63	138
1919	5,766	5,590	5,539	51	176	458	1,303	1,253	51	267
1920	6,420	6,003	5,960	43	417	342	1,358	1,208	150	277
1921	4,893	4,677	4,658	19	216	516	1,111	1,021	90	201
1922	5,910	5,613	5,604	9	297	639	1,218	1,127	91	139
1923	6,666	6,322	6,316	6	344	646	1,100	981	118	127
1924	5,681	5,353	5,348	5	328	537	722	638	84	101
1925	6,193	5,917	5,914	4	276	659	866	787	79	129
1926	6,456	6,176	6,174	2	280	804	1,097	1,011	86	144
1927	7,190	6,880	6,879	1	310	806	1,405	1,325	80	199
1928	6,834	6,535	6,534	1	299	780	1,012	935	77	159
1929	7,091	6,778	6,777	1	313	879	1,052	932	120	187
1930	6,106	5,804	5,803	1	302	805	1,183	1,048	135	239

[1] Includes linters for 1840 to 1905.
[2] Figures not available.
[3] Cotton mills only.
[4] Does not include foreign cotton.
[5] Includes linters for 1906 to 1908.
[6] Average, 1907 to 1910.
[7] Average, 1909 and 1910.

Source: Bureau of the Census, Department of Commerce.

No. 835.—COTTON SPINDLE ACTIVITY: BY MONTHS

NOTE.—Per cent of capacity represents ratio between (1) the actual number of spindle hours, including overtime, double shifts, and part time, and (2) the total number of spindles in place multiplied by the number of hours per month in a single shift at normal full working time. Consumption includes both domestic and foreign cotton

Month	Spindle hours (millions)					Spindle hours—per cent of capacity				
	1926	1927	1928	1929	1930	1926	1927	1928	1929	1930
Total	97,029	104,450	92,729	99,900	76,703	95.4	104.7	95.3	104.6	82.1
January	8,356	8,554	8,263	9,227	8,176	98.6	102.0	101.0	111.0	100.2
February	8,121	8,239	7,970	8,223	7,087	103.2	106.5	101.3	110.7	97.4
March	9,169	9,638	8,310	8,911	7,344	102.2	109.8	96.8	109.4	92.6
April	8,345	8,788	7,415	8,861	7,497	98.2	105.6	94.8	110.3	96.1
May	7,503	8,983	7,966	9,164	6,725	88.9	108.9	95.1	110.9	83.4
June	7,606	9,191	7,252	8,160	5,789	88.4	109.3	88.4	104.8	76.2
July	6,750	8,033	6,251	7,757	5,301	78.7	99.1	79.7	100.3	67.2
August	7,487	8,971	7,424	8,129	5,134	87.4	102.9	87.1	97.3	65.2
September	8,257	8,776	6,963	7,873	5,663	98.5	106.6	90.1	103.5	73.4
October	8,367	8,727	8,698	9,006	6,239	98.9	105.0	103.5	108.8	77.1
November	8,483	8,690	8,518	7,821	5,832	101.3	106.7	107.4	100.7	80.1
December	8,585	7,859	7,698	6,768	5,916	100.7	93.9	98.3	88.0	76.1

Source: Bureau of the Census, Department of Commerce.

No. 836.—COTTON SPINDLE ACTIVITY AND CONSUMPTION, BY STATES

NOTE.—All data except as specified are for years ended July 31. See headnote, Table 835

Section and State	Cotton spindles in place (thousands)			Spindle hours (millions)			Cotton consumed, excluding linters (thousands of bales)				
	Aug. 31, 1911	July 31, 1929	July 31, 1930	1927-28	1928-29	1929-30	1911-1915 average	1926-1930 average	1927-28	1928-29	1929-30
United States	30,804	34,820	34,025	96,451	99,604	87,515	5,257	6,735	6,834	7,091	6,106
The South	11,657	18,848	19,122	65,273	68,360	61,878	2,740	4,990	5,114	5,392	4,749
New England	17,045	14,549	13,479	27,862	28,253	23,038	2,101	1,466	1,438	1,448	1,143
Other States	2,102	1,423	1,424	3,316	2,991	2,599	416	279	282	251	214
Alabama	968	1,805	1,862	5,213	6,036	5,833	275	563	552	617	584
Connecticut	1,270	1,105	1,090	2,567	2,736	2,219	127	101	106	111	90
Georgia	1,981	3,125	3,240	10,735	11,319	10,095	589	1,130	1,168	1,270	1,090
Maine	1,067	1,059	1,036	1,991	1,964	1,899	170	126	122	122	114
Massachusetts	10,613	8,587	7,828	15,785	15,698	13,212	1,269	823	790	779	628
New Hampshire	1,463	1,391	1,302	2,591	2,501	2,265	292	208	207	206	169
New Jersey	483	381	371	730	643	620	56	36	35	32	31
New York	964	688	696	1,704	1,560	1,257	199	139	140	128	101
North Carolina	3,354	6,223	6,229	22,045	22,143	19,208	840	1,534	1,584	1,631	1,421
Pennsylvania	280	98	98	221	185	177	48	23	24	18	17
Rhode Island	2,527	2,290	2,105	4,633	5,049	3,188	232	199	204	219	133
South Carolina	4,187	5,586	5,676	21,102	22,559	20,610	743	1,196	1,229	1,302	1,124
Tennessee	253	617	613	2,124	2,350	2,307	74	157	158	176	169
Virginia	373	709	688	1,660	1,585	1,826	85	120	120	106	120
All other States	1,021	1,156	1,191	3,350	3,276	2,799	258	371	395	374	315

Source: Bureau of the Census, Department of Commerce.

No. 837.—EXPLOSIVES: Amounts (Excluding Exports) Manufactured and Sold, Calendar Years

Note.—Black blasting powder in thousands of kegs of 25 pounds each; other figures in thousands of pounds. "Permissible" explosives are those approved by the Bureau of Mines as suitable for use in coal mines

Kind and use	1922	1923	1924	1925	1926	1927	1928	1929	1930
Black blasting powder	**7,155**	**8,078**	**6,683**	**6,279**	**6,307**	**5,268**	**4,870**	**4,802**	**3,995**
Railway and other construction work	310	370	341	382	301	249	317	275	289
Coal mining	6,190	7,020	5,625	5,297	5,444	4,503	4,036	4,082	3,427
Metal mining [1]	-------	-------	-------	138	114	86	84	91	56
Quarrying and nonmetallic mineral mining [1]	-------	-------	-------	240	236	231	202	183	153
Other mining	168	175	144	-------	-------	-------	-------	-------	-------
All other purposes	487	513	572	221	212	199	231	170	70
High explosives other than "permissible"	**209,476**	**267,405**	**273,323**	**286,435**	**310,518**	**303,468**	**292,785**	**326,993**	**291,391**
Railway and other construction work	22,434	31,930	40,647	39,916	44,982	48,253	50,767	60,060	78,362
Coal mining	25,498	37,829	36,608	26,947	35,229	34,173	30,077	31,752	28,148
Metal mining [1]	-------	-------	-------	102,623	110,374	102,122	96,088	108,939	91,161
Quarrying and nonmetallic mineral mining [1]	-------	-------	-------	71,501	76,186	78,506	74,820	79,505	68,334
Other mining	78,074	105,004	103,836	-------	-------	-------	-------	-------	-------
All other purposes	83,470	92,642	92,231	45,448	43,747	40,413	41,032	46,738	25,386
"Permissible" explosives	**43,430**	**60,371**	**55,134**	**58,353**	**67,685**	**63,847**	**60,708**	**62,669**	**53,826**
Railway and other construction work	154	324	265	263	242	216	158	154	214
Coal mining	40,198	56,807	52,147	52,256	65,143	60,942	57,261	60,244	52,378
Metal mining [1]	-------	-------	-------	3,533	216	191	231	165	183
Quarrying and nonmetallic mineral mining [1]	-------	-------	-------	838	581	536	1,243	370	502
Other mining	1,453	783	515	-------	-------	-------	-------	-------	-------
All other purposes	1,625	2,457	2,207	1,463	1,503	1,962	1,814	1,735	549

[1] Prior to 1925 included with "Other mining" and "All other purposes."

No. 838.—EXPLOSIVES: Amounts (Excluding Exports) Manufactured in the United States and Sold in Each State, Calendar Year, 1930

Note.—See headnote to Table 837

State of sale	Black blasting powder	High explosives other than "permissible"	"Permissible" explosives
	Kegs [1]	*Pounds*	*Pounds*
Total	3,994,937	291,390,927	53,826,146
Alabama	58,851	6,367,825	2,963,100
Alaska	2,094	2,558,460	83,800
Arizona	10,440	9,475,885	-------
Arkansas	52,149	2,839,254	105,440
California	106,515	17,041,790	27,700
Colorado	62,109	4,280,407	500,400
Connecticut	309	1,193,400	-------
Delaware	113	215,800	-------
Florida	3,080	2,055,425	50
Georgia	12,346	1,244,275	100
Idaho	6,781	7,655,165	-------
Illinois	575,246	5,878,440	3,496,675
Indiana	275,169	3,744,985	763,750
Iowa	169,593	3,774,050	500
Kansas	127,056	5,316,401	255,820
Kentucky	329,007	5,360,235	2,357,900
Louisiana	117	3,603,768	25,600
Maine	993	1,039,775	-------
Maryland [2]	20,039	1,259,175	225,800
Massachusetts	1,006	1,554,050	-------
Michigan	6,201	20,478,035	33,950
Minnesota	19,175	15,415,675	-------
Mississippi	983	1,830,184	-------
Missouri	115,404	11,529,536	102,029
Montana	90,419	6,001,085	20,550
Nebraska	1,723	635,546	-------
Nevada	16,280	3,510,405	-------
New Hampshire	601	383,325	-------
New Jersey	286	3,058,010	-------
New Mexico	12,596	2,886,000	258,750
New York	4,858	17,876,386	48,700
North Carolina	4,160	1,993,658	4,050
North Dakota	31,415	147,764	59,175
Ohio	246,874	8,786,288	212,376
Oklahoma	58,804	7,281,005	245,900
Oregon	26,411	7,267,420	-------
Pennsylvania	849,220	40,700,918	29,171,856
Rhode Island	159	158,550	-------
South Carolina	3,551	906,218	-------
South Dakota	1,882	1,606,860	2,550
Tennessee	90,824	4,983,825	179,000
Texas	47,412	9,467,523	72,500
Utah	12,400	7,811,225	957,650
Vermont	4,847	410,225	-------
Virginia	64,346	5,123,700	812,300
Washington	53,473	11,344,101	675,050
West Virginia	377,695	7,353,440	9,205,575
Wisconsin	4,622	5,378,675	-------
Wyoming	30,303	606,780	957,550

[1] Kegs of 25 pounds each. [2] Includes District of Columbia.

Source of Tables 837 and 838: Bureau of Mines, Department of Commerce.

No. 839.—FERMENTED LIQUORS AND DISTILLED SPIRITS PRODUCED

Year ended June 30—	Distilled spirits: Exclusive of fruit brandy	Distilled spirits: Fruit brandy	Distilled spirits: Total	Fermented liquors	Year ended June 30—	Distilled spirits: Exclusive of fruit brandy	Distilled spirits: Fruit brandy	Distilled spirits: Total	Fermented liquors
	1,000 tax galls.[1]	*1,000 tax galls.*[1]	*1,000 tax galls.*[1]	*1,000 barrels*[2]		*1,000 tax galls.*[1]	*1,000 tax galls.*[1]	*1,000 tax galls.*[1]	*1,000 barrels*[2]
1905	147,811	5,449	153,259	[3] 49,522	1923	123,208	1,417	124,626	[4] 5,269
1910	156,238	7,656	163,894	[3] 59,485	1924	136,682	847	137,530	[4] 4,891
1915	132,134	8,522	140,656	[3] 59,808	1925	166,951	548	167,498	[4] 5,119
1918	173,476	5,357	178,834	[3] 50,266	1926	203,166	644	203,810	[4] 4,856
1919	98,976	1,802	100,779	[3] 27,713	1927	185,133	338	185,472	[4] 4,382
1920	99,616	1,649	101,265	[3] 9,231	1928	170,103	412	170,515	[4] 4,162
1921	86,366	1,531	87,896	[4] 9,220	1929	202,059	1,194	203,254	[4] 3,866
1922	81,086	1,077	82,163	[4] 6,348	1930	194,841	416	195,257	[4] 3,681

[1] In computing taxable gallons all fractional parts of a gallon less than one-tenth are excluded.
[2] Of not more than 31 gallons.
[3] Includes fermented liquors removed from breweries for export free of tax.
[4] This item represents cereal beverages containing less than one-half of 1 per cent alcohol by volume.

No. 840.—DENATURED ALCOHOL

Year ended June 30—	Alcohol produced at industrial alcohol plants[1]	Denaturing plants	Ethyl alcohol withdrawn for denaturation	Denatured alcohol produced: Completely denatured	Denatured alcohol produced: Specially denatured	Denatured alcohol produced: Total
	Proof gallons		*Proof gallons*	*Wine gallons*	*Wine gallons*	*Wine gallons*
1910	----------	12	10,605,871	3,076,925	3,002,103	6,079,027
1915	----------	23	25,411,719	5,386,647	8,599,822	13,986,469
1918	----------	49	90,644,723	10,328,455	39,834,561	50,163,016
1919	----------	45	60,399,309	9,976,721	28,294,219	38,270,940
1920	18,933,551	52	45,640,949	13,528,403	15,307,947	28,836,350
1921	85,068,776	67	38,812,139	12,392,595	9,996,230	22,388,825
1922	79,906,102	77	59,549,920	16,193,524	17,152,224	33,345,748
1923	122,402,850	76	105,819,405	27,128,283	30,436,913	57,565,143
1924	135,897,726	83	121,876,196	34,602,004	33,085,292	67,687,296
1925	166,165,518	91	148,970,221	46,983,970	34,824,303	81,808,273
1926	202,271,670	97	191,670,107	65,881,442	39,494,444	105,375,886
1927	184,323,017	94	170,633,437	56,093,748	39,354,928	95,448,677
1928	169,149,905	82	159,689,378	46,966,601	45,451,424	92,418,025
1929	200,832,051	77	182,778,966	52,405,451	54,555,006	106,960,458
1930	191,859,343	67	181,601,420	58,141,741	47,645,797	105,787,538

[1] Separate accounts for alcohol produced at industrial alcohol plants required commencing May 1, 1920.

No. 841.—LEAF TOBACCO: Amounts Consumed in the Manufacture of Cigars, Cigarettes, Chewing and Smoking Tobacco, and Snuff

Note.—All figures in thousands of pounds. Figures represent the equivalent in unstemmed leaf tobacco, of stemmed leaf or scraps, cuttings, and clippings. In the following table the tobacco used in the manufacture of cigars and cigarettes was converted on the basis of 3 pounds of stemmed leaf or scraps, etc., to 4 pounds of unstemmed beginning 1915 (conversion prior to 1915 was at the ratio of 3 to 5) and of tobacco and snuff beginning 1903. For 1896 to 1902, tobacco used in manufactured tobacco and snuff was shown only under two heads, namely "leaf" and "scraps." It is probable that stemmed leaf was included with unstemmed tobacco under the head of "leaf" without the one kind being converted to the equivalent in the other. The conversion ratio of 3 to 4 was applied only to "scraps" for these years. Data exclude tobacco used in bonded manufacturing warehouses. See Table 843

Calendar year or yearly average	Total	Cigars	Cigarettes	Tobacco and snuff	Calendar year	Total	Cigars	Cigarettes	Tobacco and snuff
1896–1900	359,053	87,851	16,235	254,967	1921	612,251	143,228	158,336	310,687
1901–1905	451,461	124,411	12,444	314,606	1922	646,816	151,709	169,597	325,510
1906–1910	524,193	139,206	22,079	362,908	1923	689,036	159,753	200,395	328,889
1911–1915	578,283	151,890	52,207	374,186	1924	693,858	153,413	217,700	322,745
1916–1920	650,460	155,312	130,320	364,828	1925	718,426	149,001	244,315	325,109
1921–1925	672,077	151,421	198,069	322,588	1926	737,354	152,372	267,584	317,399
1926–1930	759,485	149,162	310,690	299,633	1927	744,288	152,510	290,464	301,314
1917	659,581	157,732	113,279	388,570	1928	754,625	151,200	310,159	293,176
1918	692,014	149,837	146,056	396,121	1929	796,626	152,129	346,543	297,953
1919	648,384	151,504	166,783	330,097	1930[1]	764,534	137,510	338,701	288,322
1920	639,982	168,597	146,907	324,478					

[1] Estimates of the Bureau of Foreign and Domestic Commerce.

Source of Tables 839 to 841: Reports of the Commissioner of Internal Revenue, Treasury Department.

No. 842.—PRODUCTION OF MANUFACTURED TOBACCO

NOTE.—Compiled from monthly returns of manufacturers. Data relate to products manufactured in continental United States, excluding those manufactured in bonded manufacturing warehouses, which amounted in 1930 to 21,367,065 cigars, 1,456,965,780 cigarettes, and 181,189 pounds of smoking and chewing tobacco. Large cigars and cigarettes are those weighing more than 3 pounds per thousand

Calendar year or yearly average	Tobacco and snuff (thousands of pounds)						Cigars (thousands)		Cigarettes (thousands)	
	Total	Plug	Twist	Fine cut	Smoking	Snuff	Large	Small	Large	Small
1901–1905	346,841	[1] 175,981	(1)	11,903	138,402	20,556	6,513,095	716,720	7,143	3,227,602
1906–1910	413,054	167,460	13,524	12,525	192,700	26,845	6,883,272	1,059,501	16,113	6,192,571
1911–1915	437,346	158,529	15,017	10,795	222,265	31,140	7,087,530	1,053,654	15,695	14,802,416
1916–1920	456,584	159,869	14,346	9,758	237,808	34,805	7,364,937	810,327	26,026	41,565,670
1921–1925	409,457	115,445	10,105	6,972	239,151	37,785	6,691,913	557,330	16,704	65,903,991
1926–1930	388,666				254,771	40,028	6,359,699	413,938	10,506	108,525,969
1921	386,951	113,384	9,261	6,893	222,723	34,690	6,726,095	670,483	14,518	52,085,012
1922	429,506	120,174	10,948	6,892	243,355	38,136	6,722,354	632,907	17,450	55,763,023
1923	412,777	120,798	10,665	7,141	234,944	39,228	6,950,247	505,305	18,066	66,715,830
1924	414,178	111,477	9,002	6,781	246,990	39,029	6,597,677	530,714	16,054	72,808,989
1925	413,873	111,391	9,750	7,151	247,740	37,841	6,463,193	447,089	7,429	82,247,100
1926	410,596	109,766	9,179	6,985	246,439	38,227	6,498,641	412,315	13,240	92,096,974
1927	396,324	103,918	7,988	6,286	237,934	40,197	6,519,005	439,419	11,432	99,809,032
1928	386,333	100,646	8,892	5,186	231,134	40,475	6,373,182	415,535	10,403	108,705,506
1929	381,200	96,744	8,188	5,556	229,585	41,127	6,518,533	419,880	19,952	122,392,381
1930 [2]	368,878				[3] 328,765	40,113	5,889,132	382,540	7,503	119,624,910

State	Number [4] of factories Jan. 1, 1930, making—			Production in 1929 (calendar year)				
	Tobacco and snuff	Cigars	Cigarettes	Tobacco and snuff (1,000) pounds)	Cigars (thousands)		Cigarettes (thousands)	
					Large	Small	Large	Small
Total	874	6,780	110	381,200	6,518,533	419,880	9,952	122,392,381
California	27	229	8	143	80,263	105	121	4,800,734
Connecticut	9	144		57	34,545			
Florida	2	270	1	5	617,572			3,714
Illinois	119	745	5	35,259	69,375		365	3,448
Indiana	40	175		314	194,739			
Kentucky	35	56	3	17,652	66,508			3,706,015
Louisiana	1	46	1	89	70,969			2,798
Massachusetts	28	346	7	396	98,560		27	4,444
Michigan	28	195	2	13,325	289,233		3	2,846
Minnesota	30	146	1	74	23,532			13
Missouri	14	167	2	51,497	29,152			20,234
New Hampshire	2	21		1	52,875			5,747,425
New Jersey	17	190	3	8,932	797,679	525	3	7,564,866
New York	184	1,465	51	6,562	576,837	19,235	9,076	75,135,448
North Carolina	12	19	7	127,353	11,389	36,148		
Ohio	66	409		57,910	446,907			1,354,537
Pennsylvania	87	937	9	5,791	2,294,016	51,294	213	
Tennessee	17	29		20,032	78,728			24,045,553
Virginia	8	40	7	19,964	376,719	312,271	144	304
West Virginia	7	32	1	12,408	83,828	302		
All other	141	[5] 1,119	2	3,433	[5] 125,106			

[1] Twist included with plug prior to 1906.
[2] Estimates based on sale of stamps by collectors' offices.
[3] Includes plug, twist, and fine cut.
[4] Includes only those producing a taxable product.
[5] Figures include Hawaii.

Source: Annual Report of the Commissioner of Internal Revenue.

No. 843.—CONSUMPTION OF TOBACCO IN THE UNITED STATES

NOTE.—All figures except per capita in thousands of pounds. Data for tobacco used in manufacture in registered factories represent the equivalent in unstemmed leaf of all tobacco. See headnote, Table 841

Item	1924	1925	1926	1927	1928	1929	1930
Leaf tobacco consumed in manufacture:							
In registered factories	693,858	718,426	737,354	744,288	754,625	196,626	764,534
In bond	28,589	18,519	19,059	16,073	28,132	13,267	4,175
Manufactured tobacco imported:							
From Porto Rico	2,483	2,908	2,498	2,081	2,165	2,043	2,261
Other countries	3,893	4,000	3,859	3,498	3,263	2,682	2,408
Exports of manufactured tobacco	38,662	31,687	35,963	28,981	42,861	33,533	23,028
Remaining for consumption	690,161	712,166	726,807	736,959	745,324	781,085	750,350
Per capita consumption—pounds	6.10	6.20	6.24	6.24	6.22	6.43	6.09

Sources: Leaf tobacco used in registered factories from reports of the Commissioner of Internal Revenue; leaf tobacco used in bonded factories from reports of the Division of Customs, Treasury Department.

No. 844.—BUILDING PERMITS ISSUED IN PRINCIPAL CITIES

NOTE.—Figures cover new buildings and repairs to old buildings, but exclude data for installation permits (those for installing boilers, signs, etc.) which are not strictly building operations. These permits are rather numerous, but in value they are of small amount. The number figures represent the number of buildings covered by permits issued (new construction and repairs, etc.), rather than the number of permits. The cities shown had a population of 50,000 or over in 1930. The estimated cost of new buildings, only, authorized in 257 identical cities since 1921 is as follows: 1921, $1,573,000,000; 1922, $2,489,000,000; 1923, $3,072,000,000; 1924, $3,208,000,000; 1925, $3,805,000,000; 1926, $3,557,000,000; 1927, $3,138,000,000; 1928, $2,995,000,000; 1929, $2,580,000,000; 1930, $1,451,000,000. Buildings authorized by permit are not always actually constructed, and the actual cost of those constructed may differ considerably from that originally estimated

City and State	Total number of buildings					Proposed cost of buildings (thousands of dollars)				
	1926	1927	1928	1929	1930	1926	1927	1928	1929	1930
Akron, Ohio	5,024	5,495	5,356	5,560	2,421	15,983	20,196	19,485	21,640	8,777
Albany, N. Y	2,992	2,684	2,226	1,784	1,612	25,754	16,189	14,894	9,035	9,004
Allentown, Pa	1,766	1,663	1,556	1,388	671	9,218	6,588	5,935	4,510	2,270
Altoona, Pa	1,548	1,479	1,313	1,932	1,481	3,023	3,041	3,361	1,984	1,369
Asheville, N. C	1,815	1,187	901	598	383	9,298	5,987	3,095	2,236	422
Atlanta, Ga	3,784	4,085	3,952	2,946	3,043	17,175	11,861	27,395	12,564	8,446
Atlantic City, N. J	1,216	1,091	839	701	593	9,255	5,823	7,411	7,483	1,401
Augusta, Ga	1,436	1,965	2,233	1,915	989	1,167	1,459	1,551	1,137	715
Austin, Tex	------	------	------	1,139	1,234	------	------	------	4,477	3,335
Baltimore, Md	22,135	20,625	17,099	19,332	16,943	42,456	28,438	33,945	33,175	27,821
Bayonne, N. J	429	338	504	329	226	2,876	1,950	1,995	1,107	792
Beaumont, Tex	------	------	1,901	1,852	1,561	------	------	4,327	2,582	2,606
Berkeley, Calif	3,200	2,669	2,487	1,806	1,541	7,334	6,683	6,077	6,369	2,986
Bethlehem, Pa	767	803	743	604	381	2,151	2,477	3,843	2,905	1,065
Binghamton, N. Y	1,832	2,441	2,273	2,747	2,814	3,278	4,291	3,456	3,988	2,255
Birmingham, Ala	5,595	5,392	5,687	3,071	2,542	17,171	21,787	14,225	8,234	2,420
Boston, Mass	9,815	9,839	9,255	8,169	7,496	51,484	60,987	55,699	53,834	26,906
Bridgeport, Conn	1,020	1,145	1,135	1,172	1,140	3,458	5,187	3,527	4,242	2,618
Brockton, Mass	900	952	887	927	772	1,879	1,433	1,726	1,467	1,113
Buffalo, N. Y	7,230	6,605	5,545	4,326	3,763	27,413	33,073	24,402	24,128	14,825
Cambridge, Mass	1,084	1,057	1,052	941	773	8,270	9,557	8,084	12,166	11,063
Camden, N. J	2,246	1,751	1,293	1,131	832	6,571	5,330	7,428	6,164	2,582
Canton, Ohio	2,359	1,944	1,579	1,507	930	5,321	4,156	3,662	3,456	1,585
Cedar Rapids, Iowa	1,365	1,358	1,256	1,216	1,227	6,220	2,603	2,438	2,906	2,032
Charleston, S. C	402	433	454	673	438	466	586	561	671	1,103
Charleston, W. Va	684	611	601	719	456	3,181	2,039	2,873	2,241	6,881
Charlotte, N. C	905	1,137	1,397	1,086	824	7,182	5,555	7,458	3,729	2,588
Chattanooga, Tenn	3,079	3,006	2,939	3,218	2,978	4,808	4,874	4,703	2,261	2,934
Chester, Pa	693	664	489	343	252	3,586	2,396	1,747	1,099	1,139
Chicago, Ill	28,660	26,100	19,982	15,849	10,380	376,808	365,065	323,509	210,798	85,749
Cicero, Ill	719	588	547	562	241	5,322	4,636	3,860	3,609	1,117
Cincinnati, Ohio	8,332	8,662	9,431	8,971	6,667	29,257	30,570	35,459	31,037	33,161
Cleveland, Ohio	13,912	12,108	10,593	9,863	7,637	61,777	45,481	56,159	37,783	32,554
Columbia, S. C	449	689	883	620	535	1,449	1,533	1,610	1,255	1,903
Columbus, Ohio	7,046	6,030	5,350	3,557	2,594	25,251	23,283	16,237	10,613	5,616
Covington, Ky	797	726	580	409	343	2,152	1,722	1,592	1,479	629
Dallas, Tex	4,262	3,533	3,428	3,251	3,325	16,123	9,774	8,080	9,660	11,028
Davenport, Iowa	662	708	1,235	1,489	1,557	1,183	2,053	1,350	2,342	2,462
Dayton, Ohio	2,922	3,118	2,617	2,017	1,697	11,011	10,332	10,358	6,343	5,958
Decatur, Ill	1,423	1,615	1,184	839	447	5,405	5,790	4,169	3,890	1,991
Denver, Colo	6,152	7,339	6,154	6,111	5,043	13,873	15,755	16,771	16,576	7,648
Des Moines, Iowa	1,383	1,243	1,299	1,171	1,113	5,869	2,876	4,510	4,820	4,011
Detroit, Mich	40,204	28,104	28,541	26,554	15,313	183,721	145,556	129,260	100,567	48,369
Duluth, Minn	2,229	2,453	2,175	1,700	1,390	5,686	4,431	3,239	3,686	2,168
Durham, N. C	610	642	632	284	233	3,371	2,588	9,906	1,863	1,047
East Chicago, Ind	614	626	421	525	367	4,136	4,304	3,482	5,307	1,801
East Orange, N. J	1,306	1,134	928	769	678	9,035	12,313	7,632	5,916	2,627
East St. Louis, Ill	1,325	1,200	1,003	895	566	4,469	5,563	2,707	2,392	1,365
Elizabeth, N. J	1,919	1,454	910	731	433	11,166	10,923	5,504	4,095	2,384
El Paso, Tex	642	1,162	1,014	1,181	1,123	1,202	1,793	2,144	4,325	2,937
Erie, Pa	2,062	1,956	1,779	1,694	1,480	6,091	5,393	4,764	6,431	3,302
Evanston, Ill	1,300	1,470	1,040	736	513	15,826	15,917	13,178	8,196	3,103
Evansville, Ind	2,278	1,861	1,805	1,354	1,639	4,468	3,416	5,111	4,421	1,761
Fall River, Mass	809	842	592	607	561	2,156	1,841	2,836	792	1,189
Flint, Mich	6,487	8,785	6,700	6,717	3,104	13,029	22,087	14,423	14,684	3,994
Fort Wayne, Ind	2,565	1,844	1,646	1,927	1,351	7,751	6,002	5,011	7,039	3,099
Fort Worth, Tex	4,271	4,812	4,560	3,237	2,616	19,402	28,484	11,544	11,262	10,463
Fresno, Calif	1,128	1,023	1,272	1,784	1,496	1,807	2,691	1,602	1,699	1,333
Galveston, Tex	2,906	2,551	2,243	1,895	1,376	3,201	2,974	2,677	3,613	1,717
Gary, Ind	3,305	2,857	1,966	1,162	743	22,074	15,017	6,041	3,146	1,177
Grand Rapids, Mich	9,610	8,386	5,401	4,415	2,640	16,869	12,319	8,187	6,087	2,922
Greensboro, N. C	------	1,176	1,179	710	471	------	4,838	5,048	3,134	766

No. 844—Building Permits Issued in Principal Cities—Continued

City and State	Total number of buildings					Proposed cost of buildings (thousands of dollars)				
	1926	1927	1928	1929	1930	1926	1927	1928	1929	1930
Hamilton, Ohio	993	632	841	756	502	2,529	1,783	2,063	2,411	1,552
Hammond, Ind	1,401	1,321	1,055	777	704	6,635	6,431	6,527	4,154	1,876
Hamtramck, Mich	708	476	518	643	322	1,933	1,546	1,345	1,066	1,299
Harrisburg, Pa	1,091	1,037	844	778	676	4,333	3,569	5,595	7,958	2,519
Hartford, Conn	3,100	2,321	1,931	2,192	1,339	16,217	17,530	11,278	16,144	6,365
Highland Park, Mich	616	372	382	383	235	4,819	2,655	2,603	2,327	624
Hoboken, N. J	248	271	239	265	272	1,230	1,520	565	748	828
Holyoke, Mass	489	432	350	298	250	2,607	2,044	1,261	1,256	1,703
Houston, Tex	5,887	5,880	6,072	3,972	2,741	28,498	27,326	35,310	29,133	17,265
Huntington, W. Va	763	509	270	306	201	1,840	1,547	982	1,455	770
Indianapolis, Ind	11,706	13,572	10,217	6,785	4,919	19,030	23,682	21,967	14,844	7,451
Irvington, N. J	1,712	1,585	903	567	445	9,506	12,960	6,639	2,134	1,700
Jackson, Mich	1,305	1,201	1,230	1,227	736	4,180	2,576	2,097	3,492	698
Jacksonville, Fla	5,823	5,002	3,431	2,557	2,103	20,789	12,768	7,660	4,580	2,410
Jersey City, N. J	1,833	1,554	1,375	1,219	835	20,903	13,852	13,876	14,585	12,167
Johnstown, Pa	1,035	672	556	522	412	3,913	1,386	1,095	682	696
Kalamazoo, Mich	1,394	1,494	1,513	1,349	973	1,984	2,223	2,035	2,410	1,172
Kansas City, Kans	1,714	1,163	1,043	867	673	2,520	1,587	1,651	1,844	1,350
Kansas City, Mo	3,899	2,919	2,345	1,946	1,503	21,576	14,822	15,541	14,845	15,663
Kenosha, Wis	1,770	963	894	945	522	5,122	4,468	3,726	4,577	1,484
Knoxville, Tenn	2,414	2,470	2,138	1,220	667	10,710	5,699	7,115	5,499	3,627
Lakewood, Ohio	901	870	625	550	456	4,293	3,516	4,622	1,830	1,482
Lancaster, Pa	717	856	647	671	520	2,328	3,005	2,389	1,982	1,381
Lansing, Mich	1,689	1,301	1,340	1,308	722	4,493	7,330	5,204	8,738	2,065
Lawrence, Mass	370	261	222	241	236	1,729	913	603	854	618
Lincoln, Nebr	1,151	1,068	1,070	980	609	5,936	4,399	3,643	2,560	1,598
Little Rock, Ark	2,186	2,008	1,528	1,376	1,496	6,888	2,994	4,260	3,268	2,251
Long Beach, Calif	3,667	4,197	4,988	4,949	4,502	8,565	13,639	16,308	18,044	13,058
Los Angeles, Calif	37,478	37,655	33,195	31,722	30,614	123,006	123,027	101,679	93,020	75,357
Louisville, Ky	4,059	3,278	3,215	2,466	1,756	20,252	23,341	18,120	13,205	6,937
Lowell, Mass	853	787	633	676	663	1,578	971	942	704	1,147
Lynn, Mass	1,390	1,265	1,279	1,133	1,041	4,612	3,878	3,787	3,942	2,972
Macon, Ga	2,085	1,943	1,817	1,416	674	1,739	2,886	2,350	988	777
Madison, Wis	1,543	1,507	1,475	1,155	845	5,103	4,462	7,630	4,974	2,348
Malden, Mass	860	866	630	534	475	3,611	3,800	2,893	1,894	1,133
Manchester, N. H	1,047	1,189	970	1,044	1,095	1,373	1,940	1,059	1,241	765
McKeesport, Pa	2,309	1,905	1,325	1,320	1,231	2,525	2,356	2,185	1,674	1,052
Medford, Mass	1,291	1,109	1,131	904	625	5,759	4,371	4,515	3,483	1,656
Memphis, Tenn	4,705	4,017	4,005	3,178	3,693	15,332	12,403	14,283	8,062	9,501
Miami, Fla	13,012	3,545	1,568	2,511	3,032	35,243	9,541	1,946	3,615	1,917
Milwaukee, Wis	8,327	8,609	7,258	7,501	4,939	3,814	37,748	35,406	37,947	25,285
Minneapolis, Minn	8,090	6,791	6,580	6,054	5,932	20,609	22,430	23,258	20,960	13,449
Mobile, Ala	690	872	1,647	1,055	680	1,816	2,146	3,346	1,667	1,100
Montgomery, Ala	1,015	1,444	2,916	2,320	1,558	1,626	2,531	3,289	2,769	1,274
Mt. Vernon, N. Y	913	962	946	577	596	24,827	16,775	14,262	6,179	4,197
Nashville, Tenn	2,210	2,097	2,227	2,327	2,062	5,243	7,078	5,565	5,695	5,517
Newark, N. J	4,518	3,998	2,972	2,763	1,882	41,198	51,452	34,285	28,838	12,379
New Bedford, Mass	830	1,422	681	581	520	2,269	2,167	1,095	789	982
New Britain, Conn	1,559	1,437	1,227	1,051	502	5,789	4,104	3,532	1,016	896
New Haven, Conn	2,386	1,514	1,330	1,323	1,193	19,467	11,741	8,798	12,762	15,924
New Orleans, La	2,152	2,433	2,882	1,933	1,227	18,586	15,897	12,628	11,971	6,487
New Rochelle, N. Y	983	905	845	740	609	8,154	9,736	11,233	7,585	5,669
Newton, Mass	1,539	1,628	1,676	1,387	1,048	8,394	10,139	10,802	6,857	5,870
New York, N. Y.:										
Borough of Bronx	10,348	11,864	10,959	7,811	7,507	214,580	172,588	189,825	95,666	56,116
Borough of Brooklyn	26,064	22,431	18,358	13,271	11,503	283,659	220,969	198,285	146,016	70,632
Borough of Manhattan	3,880	3,832	3,787	3,692	3,396	341,256	290,321	361,723	595,522	198,445
Borough of Queens	28,748	26,579	22,101	16,152	17,583	186,174	184,438	151,566	94,510	77,344
Borough of Richmond	3,350	3,671	3,766	2,868	2,539	14,002	12,017	15,273	10,584	7,629
Niagara Falls, N. Y	1,368	1,343	1,577	1,805	1,640	4,244	4,791	4,869	5,071	3,736
Norfolk, Va	1,388	1,464	1,383	1,185	1,092	2,772	3,347	3,840	2,730	2,603
Oakland, Calif	9,979	7,027	5,092	4,264	3,154	27,723	20,518	19,537	14,396	9,085
Oak Park, Ill	960	1,020	836	529	315	6,470	9,081	9,290	5,721	1,861
Oklahoma City, Okla	1,459	3,168	3,965	4,280	3,270	7,723	12,682	13,522	22,501	26,412
Omaha, Nebr	1,490	1,035	1,169	1,046	854	9,928	4,567	9,050	5,581	5,121
Pasadena, Calif	3,271	2,778	2,452	3,834	4,040	9,052	8,966	5,950	6,987	5,886
Passaic, N. J	766	987	975	976	709	3,337	5,603	3,062	4,870	2,099
Paterson, N. J	2,377	2,458	2,258	2,123	1,785	7,463	6,370	7,357	4,872	2,088
Pawtucket, R. I	1,111	1,140	991	904	597	3,724	3,587	2,823	1,995	1,847

No. 844.—BUILDING PERMITS ISSUED IN PRINCIPAL CITIES—Continued

City and State	Total number of buildings					Proposed cost of buildings (thousands of dollars)				
	1926	1927	1928	1929	1930	1926	1927	1928	1929	1930
Peoria, Ill	1,459	1,492	1,418	1,207	1,150	5,685	3,410	3,951	3,604	3,436
Philadelphia, Pa	17,805	19,082	16,423	10,388	6,430	140,093	117,591	112,226	104,406	53,142
Pittsburgh, Pa	7,747	7,869	7,070	6,128	5,115	43,790	37,111	39,374	35,639	20,730
Pontiac, Mich	1,801	2,114	2,851	2,299	572	5,485	17,558	13,115	6,219	1,280
Port Arthur, Tex	670	1,351	1,207	972	1,070	878	1,731	1,881	1,979	2,430
Portland, Me	1,156	1,368	1,351	1,214	1,173	4,222	2,327	2,739	2,133	1,567
Portland, Oreg	13,256	11,294	9,567	7,646	6,041	32,589	28,973	21,276	15,504	12,063
Providence, R. I	5,297	5,442	4,979	5,046	4,835	23,188	23,133	16,004	14,943	10,742
Pueblo, Colo	1,051	1,445	1,458	1,281	1,028	1,246	1,625	1,467	1,672	538
Quincy, Mass	2,079	2,201	2,335	1,920	1,438	6,230	5,232	6,870	4,217	2,724
Racine, Wis	1,306	1,373	1,078	1,264	723	4,067	6,391	4,417	4,783	3,924
Reading, Pa	2,542	2,367	2,179	2,483	2,417	5,267	4,614	3,808	6,111	2,474
Richmond, Va	3,217	3,891	2,317	2,151	1,668	10,025	15,216	8,845	9,146	5,951
Roanoke, Va	1,456	1,156	880	700	499	4,568	2,584	3,279	2,220	2,606
Rochester, N. Y	5,838	5,665	4,542	3,429	2,490	21,637	22,689	17,621	13,303	8,011
Rockford, Ill	1,946	2,116	1,875	1,652	1,039	5,539	6,553	5,737	5,083	2,908
Sacramento, Calif	2,486	2,267	1,859	1,101	1,636	7,699	8,814	5,524	4,381	3,029
Saginaw, Mich	1,663	1,426	1,658	1,801	1,054	3,085	3,611	4,350	3,121	2,690
St. Joseph, Mo	688	659	284	558	470	1,342	769	2,005	1,404	1,620
St. Louis, Mo	13,654	13,035	12,627	9,533	8,120	42,739	41,417	42,828	27,074	17,322
St. Paul, Minn	5,414	4,772	4,999	5,055	3,780	15,591	10,071	8,700	9,365	10,682
Salt Lake City, Utah	1,162	1,000	1,024	1,089	948	5,627	4,856	5,277	5,691	4,274
San Antonio, Tex	3,239	3,461	4,284	4,550	3,234	12,072	12,190	18,300	18,070	8,488
San Diego, Calif	7,930	6,652	5,150	3,811	3,219	19,831	13,877	12,150	11,415	5,426
San Francisco, Calif	7,385	6,932	6,648	5,505	4,951	57,154	46,449	37,504	33,426	22,414
San Jose, Calif	1,474	1,065	948	937	755	4,379	3,554	2,541	2,428	3,403
Savannah, Ga	682	611	525	317	187	2,931	2,180	2,137	1,122	1,069
Schenectady, N. Y	1,082	1,192	1,175	1,341	1,390	4,010	4,318	3,428	3,431	5,339
Scranton, Pa	776	1,141	1,189	880	826	3,141	5,707	4,632	2,947	3,190
Seattle, Wash	10,924	9,906	9,512	7,924	6,577	34,218	29,070	34,807	29,101	30,356
Shreveport, La	2,969	2,426	2,921	2,838	1,924	5,357	3,946	4,846	3,535	1,542
Sioux City, Iowa	964	741	799	748	705	4,266	1,868	2,170	3,130	3,412
Somerville, Mass	1,044	822	407	639	555	5,066	3,336	1,424	3,076	1,380
South Bend, Ind	4,274	2,406	2,524	2,445	1,760	9,753	4,889	6,363	7,015	3,709
Spokane, Wash	2,418	2,142	2,187	2,241	2,169	4,191	3,657	5,737	4,148	3,641
Springfield, Ill	1,357	1,134	1,195	1,101	964	4,251	3,770	3,739	3,112	3,179
Springfield, Mass	2,275	1,954	1,539	1,367	1,062	8,734	8,906	5,977	5,095	5,703
Springfield, Mo	-------	-------	628	522	426	-------	-------	1,616	1,525	1,115
Springfield, Ohio	1,174	945	1,017	1,006	651	1,447	1,694	1,557	1,750	777
Syracuse, N. Y	3,394	3,961	3,103	2,512	1,532	14,274	21,990	13,220	11,267	5,398
Tacoma, Wash	4,555	2,453	2,341	2,538	1,621	11,088	4,765	4,660	4,053	4,070
Tampa, Fla	8,350	4,755	3,637	2,405	2,337	15,480	6,145	3,617	1,858	1,302
Terre Haute, Ind	1,755	1,586	1,696	1,189	879	2,064	1,213	973	799	687
Toledo, Ohio	6,034	6,192	5,334	4,802	2,637	13,046	15,514	17,346	13,507	10,405
Topeka, Kans	1,393	1,231	1,117	897	684	3,579	2,222	1,992	1,751	2,425
Trenton, N. J	1,476	1,353	1,062	824	580	4,931	4,540	4,106	3,675	2,449
Troy, N. Y	808	935	774	781	713	2,602	3,206	1,324	2,037	3,024
Tulsa, Okla	2,358	3,466	3,829	3,161	2,360	7,230	14,792	13,411	11,757	8,356
Union City, N. J	862	1,075	674	462	497	1,933	3,410	1,121	855	887
Utica, N. Y	876	672	680	486	552	5,532	3,381	3,917	2,497	1,350
Waco, Tex	419	373	410	486	360	1,095	1,574	2,291	2,700	1,154
Washington, D. C	9,324	6,954	6,916	5,641	4,605	64,970	39,263	53,975	66,128	48,824
Waterbury, Conn	1,231	1,287	907	746	541	5,252	5,016	3,488	2,999	2,037
Wheeling, W. Va	977	1,081	843	669	528	1,821	3,014	1,967	1,768	1,121
Wichita, Kans	2,278	2,322	2,390	2,712	1,762	5,184	5,849	7,974	8,652	6,308
Wilkes-Barre, Pa	1,405	1,376	1,337	922	774	3,941	4,934	3,896	3,225	1,669
Wilmington, Del	2,118	1,924	1,969	1,537	1,407	4,871	6,806	5,577	6,143	4,917
Winston-Salem, N. C	1,839	2,444	2,550	1,568	1,217	5,531	6,589	8,531	5,000	1,602
Worcester, Mass	2,820	2,381	1,999	1,925	1,663	12,985	8,815	7,260	7,251	6,341
Yonkers, N. Y	1,855	2,005	1,934	1,413	1,134	25,644	32,586	35,619	21,366	9,887
York, Pa	870	718	954	974	830	1,242	1,589	2,065	1,458	1,679
Youngstown, Ohio	2,465	2,291	2,191	1,787	1,029	9,614	9,007	8,638	5,894	2,801

Source: Bureau of Labor Statistics, Department of Labor.

No. 845.—BUILDING PERMITS ISSUED, BY CLASSES

NOTE.—See headnote, Table 844. Figures for 1928 represent 302 cities; 1929 and 1930, 311 identical cities

Class of building	Number of buildings			Proposed cost (1,000 dollars)		
	1928	1929	1930	1928	1929	1930
Grand total, all buildings	658, 321	583, 250	467, 430	3, 411, 123	3, 035, 776	1, 766, 145
Total new buildings	382, 514	307, 062	210, 141	3, 089, 075	2, 668, 301	1, 505, 779
New residential buildings	180, 534	126, 952	73, 201	1, 908, 322	1, 477, 620	625, 901
1-family dwellings	143, 889	104, 798	61, 656	710, 901	516, 296	306, 186
2-family dwellings	19, 956	12, 990	7, 187	153, 128	99, 141	53, 986
1-family and 2-family dwellings with stores	2, 620	1, 501	874	26, 679	14, 262	6, 986
Multifamily dwellings	12, 063	6, 662	3, 019	776, 419	490, 957	193, 174
Multifamily dwellings with stores	1, 528	565	205	90, 755	34, 920	12, 250
Hotels	234	275	79	114, 290	284, 604	24, 778
Lodging houses	37	23	11	781	429	219
Other	207	138	170	35, 370	37, 011	28, 323
New nonresidential buildings	201, 980	180, 110	136, 940	1, 180, 753	1, 190, 680	879, 878
Amusement buildings	947	748	1, 450	84, 677	43, 215	43, 375
Churches	1, 002	855	698	48, 852	40, 882	29, 575
Factories and workshops	3, 932	3, 927	2, 679	152, 411	141, 620	109, 491
Public garages	3, 836	4, 071	1, 948	70, 656	49, 198	26, 828
Private garages	155, 478	135, 637	97, 458	54, 921	48, 637	33, 723
Service stations	4, 462	4, 207	5, 778	14, 769	19, 928	21, 869
Institutions	303	274	272	65, 002	75, 703	58, 258
Office buildings	1, 352	1, 136	703	255, 801	240, 950	160, 741
Public buildings	243	327	434	29, 378	87, 554	85, 821
Public works and utilities	516	629	603	38, 671	45, 444	45, 237
Schools and libraries	843	753	754	142, 154	128, 897	126, 908
Sheds	11, 658	10, 649	10, 725	4, 870	4, 456	3, 865
Stables and barns	356	324	267	581	969	438
Stores and warehouses	12, 925	12, 085	8, 916	210, 306	254, 475	127, 832
All other	4, 127	4, 488	4, 255	7, 704	8, 752	5, 914
Additions, alterations, and repairs	275, 807	276, 188	257, 289	322, 048	367, 475	260, 365

Source: Bureau of Labor Statistics, Department of Labor.

No. 846.—INDEX NUMBERS OF BUILDING MATERIAL PRICES AND CONSTRUCTION COSTS

[Monthly average 1923–1925=100]

Year and quarterly average	(1) Wholesale price indexes of—							(2) Construction costs	(3) Factory building costs	(4) Frame house materials, retail prices	(4) Brick house materials, retail prices
	All building materials	Lumber	Brick	Portland cement f. o. b. plant [1]	Structural steel [2]	Paint materials	Other building materials				
1913	54.4	52.0	38.0	56.5	68.0	49.1	61.1	47.1	-------	49.7	49.2
1914	50.6	48.0	37.9	52.2	52.9	49.0	57.8	41.8	50.5	-------	-------
1915	51.3	46.9	38.2	48.4	57.6	53.0	63.0	43.7	-------	-------	-------
1916	64.9	53.0	41.4	62.0	113.7	74.6	85.0	69.5	-------	-------	-------
1917	84.6	69.5	49.0	76.2	168.3	92.2	110.4	85.4	-------	-------	-------
1918	94.6	80.4	65.1	89.8	135.1	117.9	117.1	89.2	-------	-------	-------
1919	110.9	108.8	89.7	97.1	113.5	135.7	113.1	93.5	-------	-------	-------
1920	144.0	159.0	115.6	111.2	127.3	143.2	130.7	118.5	-------	-------	-------
1921	93.5	85.6	103.2	105.1	92.1	81.1	107.6	95.1	90.1	-------	-------
1922	93.4	95.4	97.1	98.2	78.0	90.7	92.3	82.3	85.9	90.5	91.6
1923	104.3	107.6	101.2	102.4	109.1	98.0	102.1	100.9	101.9	102.7	103.0
1924	98.2	95.6	101.0	100.3	100.7	96.4	100.7	101.6	100.1	100.0	100.1
1925	97.6	96.8	97.8	97.3	90.1	105.7	97.2	97.5	98.1	97.2	96.8
1926	96.0	96.2	97.7	94.9	88.2	96.7	96.8	98.1	99.5	96.7	95.9
1927	89.5	89.0	91.0	91.7	83.5	88.0	91.1	97.3	97.2	92.9	92.6
1928	89.9	86.7	90.5	91.0	84.0	83.8	98.1	97.5	96.4	88.4	90.1
1929	93.2	91.0	89.0	87.1	86.5	88.3	103.5	97.6	[3] 95.9	88.0	89.6
1930	86.7	82.5	82.7	87.1	77.0	82.1	97.9	95.7	[3] 94.4	85.9	87.3
1930											
January–March	91.9	88.6	86.9	87.3	82.5	89.9	103.0	97.8	[4] 95.4	88.5	89.6
April–June	88.8	85.6	83.9	87.7	79.5	86.8	98.5	96.9	[4] 95.4	87.0	88.0
July–September	84.0	78.7	80.7	87.0	73.5	80.2	95.5	94.6	[4] 93.3	84.5	86.2
October–December	81.8	76.5	80.1	86.5	72.0	71.8	94.3	93.4	[4] 93.3	83.5	85.7

[1] Indexes, 1913 to 1918, based on average price for United States; thereafter on average price for 6 plants.
[2] Pittsburgh district. Based on average mill price per 100 pounds of structural shapes, 3 inches and larger.
[3] Average of March, June, September, and December.
[4] Index for last month of quarter.

Sources: (1) Department of Labor; (2) Lumber, steel, cement, and rates paid common labor, Engineering News-Record; (3) Standard factory building, Aberthaw Construction Co.; (4) Retail prices of building material in 60 cities, Department of Commerce.

No. 847.—CONSTRUCTION CONTRACTS AWARDED

NOTE.—Data compiled from reports covering contracts awarded in small towns and rural districts as well as large cities. Public works and utilities cover some projects not susceptible to measurement in terms of floor space, such as highways, pipe lines, subways, etc.

[Values in millions and tenths of millions of dollars; floor space in thousands of square feet]

Year	Total	Residential	Commercial	Factories [1]	Public works and utilities [1]	Educational	Hospitals and institutions	Public buildings	Religious and memorial	Social and recreational
27 STATES [2]										
Number of projects:										
1919	[3] 82,342	47,990	13,102	7,498	7,982	1,997	582	755	1,087	1,329
1920	[3] 57,856	28,967	10,755	5,982	6,561	2,027	588	711	950	1,308
1921	78,208	49,409	10,120	3,171	8,568	2,722	647	633	1,382	1,556
1922	107,635	72,988	12,633	3,693	10,609	3,299	718	566	1,710	1,419
1923	105,513	71,594	12,718	3,853	10,682	2,767	601	539	1,420	1,339
1924	109,040	77,708	12,170	3,349	8,785	2,793	659	548	1,651	1,377
1925	132,107	96,822	13,925	4,150	9,249	2,960	733	634	1,766	1,868
1926	132,338	93,722	14,728	4,381	11,125	2,935	799	725	1,865	2,058
1927	143,989	100,138	16,058	4,324	13,684	3,362	997	1,007	2,095	2,324
1928	161,140	112,710	18,053	4,727	16,089	3,497	963	1,099	1,875	2,127
1929	139,232	90,154	18,436	5,282	16,293	3,377	975	1,047	1,684	1,984
1930	108,507	60,426	17,285	3,684	17,930	3,451	1,023	1,148	1,524	2,036
Value of construction:										
1919	[3] 2,579.9	849.2	405.7	497.8	517.1	119.5	39.2	29.9	37.5	83.6
1920	[3] 2,564.5	570.1	444.0	555.4	599.9	172.3	50.5	39.6	41.4	91.1
1921	2,355.2	878.7	331.7	153.4	479.0	240.7	70.1	32.9	60.3	108.4
1922	3,343.8	1,340.1	496.1	278.2	608.8	302.3	86.6	36.0	86.0	109.7
1923	3,503.7	1,583.9	451.6	255.0	685.9	271.3	62.0	22.1	72.0	100.0
1924	3,873.1	1,844.0	517.2	187.6	672.8	317.1	98.0	30.2	96.3	109.8
1925	5,041.9	2,359.8	717.3	278.7	838.7	369.5	97.6	39.7	124.7	215.9
1926	5,418.2	2,335.7	784.1	390.6	1,063.0	321.1	120.8	51.4	127.9	223.5
1927	5,473.2	2,326.9	834.4	302.3	1,099.9	323.8	149.0	64.7	132.3	239.8
1928	5,836.0	2,545.2	785.3	397.8	1,241.6	345.3	153.7	63.6	109.0	194.5
1929	4,999.0	1,736.7	832.7	497.5	1,131.0	342.7	140.8	107.3	88.4	121.9
1930	3,925.2	986.5	565.5	215.1	1,373.5	332.8	152.7	117.5	79.9	101.6
Floor space of building:										
1919	[3] 557,488	241,857	109,906	151,536	--------	22,979	6,821	3,852	5,334	15,175
1920	[3] 401,951	138,124	83,988	125,402	--------	26,279	6,607	4,128	5,063	12,360
1921	384,996	204,511	64,609	34,667	--------	40,092	10,678	3,925	9,170	17,345
1922	570,076	311,466	95,231	61,833	--------	54,322	11,779	4,380	12,857	18,209
1923	588,014	354,450	93,588	57,646	--------	44,170	10,005	3,480	9,284	15,391
1924	597,541	370,720	94,719	39,361	--------	46,875	12,707	4,725	11,960	16,474
1925	759,728	470,207	124,064	56,356	--------	51,204	12,020	5,586	13,814	26,476
1926	737,424	450,249	121,464	63,325	--------	44,478	13,131	5,592	13,019	26,166
1927	721,766	434,956	118,940	56,062	--------	45,197	16,967	7,484	13,188	28,974
1928	832,916	508,532	134,206	74,708	--------	52,766	18,183	9,009	12,304	23,211
1929	672,048	341,836	136,269	88,702	--------	51,952	17,529	10,390	9,248	16,723
1930	424,424	201,759	82,539	39,834	--------	48,344	17,534	13,322	8,543	12,551
37 STATES [4]										
Number of projects:										
1925	173,720	127,678	19,083	5,139	11,183	4,024	929	856	2,426	2,402
1926	170,723	120,473	20,249	5,456	13,583	3,993	985	995	2,406	2,583
1927	184,604	128,436	21,616	5,361	16,556	4,497	1,194	1,303	2,751	2,890
1928	200,255	139,133	23,583	5,809	19,270	4,759	1,141	1,383	2,520	2,657
1929	172,171	110,498	24,136	6,383	19,369	4,531	1,190	1,303	2,277	2,484
1930	135,269	74,713	22,598	4,675	21,219	4,771	1,221	1,477	2,044	2,551
Value of construction:										
1925	6,006.4	2,747.7	872.4	326.6	1,065.9	426.4	111.1	54.5	153.1	248.7
1926	6,380.9	2,671.1	920.9	471.2	1,340.4	381.1	133.1	67.2	148.8	247.1
1927	6,303.1	2,573.3	932.9	375.9	1,382.0	379.8	162.5	79.5	156.5	260.7
1928	6,628.3	2,788.3	884.6	508.8	1,464.5	399.0	164.7	76.2	127.9	214.1
1929	5,750.8	1,915.7	929.2	545.9	1,459.0	381.9	152.2	120.8	106.1	140.0
1930	4,523.1	1,101.3	628.8	256.6	1,651.2	376.1	163.1	139.8	92.8	113.3
Floor space of buildings:										
1925	920,537	559,501	160,067	66,900	--------	61,308	14,036	8,293	18,869	31,565
1926	872,574	521,061	152,355	75,705	--------	54,565	14,790	7,856	16,371	29,872
1927	838,298	494,563	141,815	68,130	--------	55,475	18,803	9,941	17,191	32,381
1928	956,841	568,383	159,192	92,903	--------	62,983	20,004	11,287	15,398	26,691
1929	779,747	387,671	161,262	105,523	--------	60,644	19,494	12,626	12,817	19,709
1930	496,074	230,039	97,853	48,020	--------	58,550	19,120	17,024	10,862	14,606

[1] Due to a change in the classification figures for the "Factories" class (previously published as "Industrial") exclude data for power plants for all years, and for pipe lines beginning 1929 (separate figures not available for years prior to 1929), which data are included with "Public works and utilities."

[2] Prior to May, 1921, these figures represented the 25 States north and east of, and including, North Dakota, South Dakota, Iowa, Missouri, Tennessee, and Virginia, together with portions of eastern Kansas and Nebraska and the District of Columbia. Beginning May, 1921, North Carolina and South Carolina were added to the list, but this addition is stated to have little effect upon the total.

[3] Includes a small amount of miscellaneous construction not shown separately. No data reported since 1920.

[4] Figures for the 37 States include all except the 11 States in the Mountain and Pacific divisions.

Source: The F. W. Dodge Corporation.

No. 848.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: BY MONTHS [1]

NOTE.—See headnote, Table 847

Month	Value of construction (thousands of dollars)					Floor space of buildings [2] (thousands of square feet)				
	1926	1927	1928	1929	1930	1926	1927	1928	1929	1930
Total	6,380,915	6,303,055	6,628,286	5,750,791	4,523,115	872,574	838,298	956,841	779,747	496,074
January	457,159	384,455	427,169	406,468	323,975	64,061	52,548	63,333	57,356	31,140
February	407,900	393,583	465,331	361,274	317,053	55,087	54,071	68,281	53,465	36,464
March	623,879	620,738	592,567	484,588	456,119	85,770	86,730	87,290	76,531	52,989
April	570,614	604,391	642,237	642,061	482,877	85,629	82,984	93,864	84,375	54,603
May	549,815	552,349	667,097	587,766	457,416	83,820	72,573	93,281	80,445	52,633
June	544,792	632,478	650,466	529,891	600,573	76,718	77,105	93,807	70,751	46,307
July	518,442	534,390	583,432	652,436	366,878	68,126	67,091	81,598	74,873	43,632
August	605,808	552,488	516,970	488,882	346,644	75,342	72,329	78,104	65,483	38,463
September	562,371	521,611	581,674	444,402	331,864	73,766	66,747	75,346	58,466	39,710
October	515,727	562,816	597,104	445,642	336,706	71,423	75,702	85,213	64,389	39,145
November	487,013	466,393	471,482	391,013	253,574	69,691	68,037	72,696	50,471	32,631
December	537,396	477,364	432,756	316,368	249,436	63,140	62,383	64,030	43,141	28,358

[1] Figures for the 37 States include all except the 11 States in the Mountain and Pacific divisions.
[2] Figures do not include data for floor space for public works and utilities.

Source: The F. W. Dodge Corporation.

No. 849.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: BY TERRITORIES

NOTE.—See headnote, Table 847. New England includes Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut. Metropolitan New York and vicinity includes northern New Jersey, New York City, Long Island, Westchester, Orange, Putnam, and Rockland Counties, N. Y. Up-State New York includes all counties north of Orange, Putnam, and Rockland. Middle Atlantic includes eastern Pennsylvania, southern New Jersey, Maryland, Delaware, District of Columbia, and Virginia. Pittsburgh includes western Pennsylvania, West Virginia, Ohio, and Kentucky. Southern Michigan consists of the southern peninsula. Chicago includes northern Illinois, Indiana, Iowa, and eastern and southern Wisconsin. Central Northwest includes Minnesota, the Dakotas, northern peninsula of Michigan, and northwest Wisconsin. St. Louis includes southern Illinois, eastern Missouri, northeast Arkansas, western Tennessee, and northwest Mississippi. Kansas City includes western Missouri, Kansas, Oklahoma, and Nebraska. Texas includes the State only. New Orleans includes Louisiana, western and southern Arkansas, and eastern and southern Mississippi. Southeastern includes the Carolinas, Georgia, Florida, Alabama, and eastern Tennessee.

[Value in thousands of dollars; floor space in thousands of square feet]

Territory	Value						Floor space of buildings [1]	
	1925 [2]	1926 [2]	1927 [2]	1928 [2]	1929	1930	1929	1930
Total	6,006,426	6,380,915	6,303,055	6,028,286	5,750,791	4,523,115	779,747	496,074
New England	477,181	441,183	412,767	495,581	398,382	354,466	61,599	45,427
Metropolitan New York and vicinity	1,353,498	1,557,513	1,401,973	1,564,615	1,241,842	938,693	159,735	120,754
Up-State New York	247,760	217,547	282,472	249,702	225,430	188,164	23,954	18,293
Middle Atlantic	552,318	689,414	721,148	787,673	671,500	538,636	98,071	58,455
Pittsburgh	828,642	741,368	758,135	723,416	685,536	567,796	77,961	56,231
Southern Michigan	255,905	349,159	364,482	317,999	356,411	173,537	57,599	22,991
Chicago	878,601	910,905	1,031,962	1,120,906	873,554	560,291	123,073	53,728
Central Northwest	101,265	109,348	92,374	90,092	104,554	98,712	11,468	10,410
St. Louis	199,281	209 395	230. 415	217,186	237,223	245,878	30,157	18,236
Kansas City	185,626	237,417	229,415	257,978	255,208	300,284	36,109	25,166
Texas	185,358	232,412	219,105	231,409	217,800	186,026	34,754	22,960
New Orleans	97,511	126,248	106,262	103,513	179,877	102,037	14,929	9,783
Southeastern	643,482	559,005	452,545	408,218	303,473	268,596	50,339	33,640

[1] Figures do not include data for floor space for public works and utilities. Comparable data for floor space by these territories are not available prior to the year 1929.
[2] Estimates made by the F. W. Dodge Corporation. Due to a change in the boundary line of 4 out of the 8 territories shown previously to the year 1930 it was necessary to estimate the figures for portions of the States now included with the new territories for comparability.

Source: The F. W. Dodge Corporation.

No. 850.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: BY CLASSES AND TERRITORIES

[Values in millions and tenths of millions of dollars; floor space on thousands of square feet]

Territory	Value									
	Total, 37 States	Residential	Commercial	Factories	Public works and utilities	Educational	Hospitals and institutions	Public buildings	Religious and memorial	Social and recreational
1929										
Total	5,750.8	1,915.7	929.2	545.9	1,459.0	381.9	152.2	120.8	106.1	140.0
New England	398.4	153.3	64.8	34.4	58.5	42.3	14.4	7.8	7.8	15.2
Metropolitan New York and vicinity	1,241.8	551.1	264.6	31.7	230.0	74.4	36.8	15.4	11.5	26.2
Up-State New York	225.4	41.4	24.4	21.7	77.6	23.8	7.9	18.5	4.7	5.4
Middle Atlantic	671.5	246.2	100.9	85.6	108.9	52.3	17.4	32.6	12.9	14.7
Pittsburgh	685.5	166.1	92.0	90.3	225.3	42.9	23.4	9.4	18.5	17.5
Southern Michigan	356.4	108.3	47.3	60.5	90.9	28.3	4.2	1.8	5.5	9.6
Chicago	873.6	315.4	151.6	101.4	182.8	48.2	20.8	14.2	18.0	21.1
Central Northwest	104.6	17.2	20.2	8.1	42.2	6.4	2.7	3.6	1.6	2.5
St. Louis	237.2	70.2	26.0	13.9	96.8	12.8	7.6	1.5	3.7	4.7
Kansas City	255.2	77.7	43.1	12.5	87.4	14.8	6.3	2.8	4.9	5.8
Texas	217.8	60.2	43.0	10.7	70.7	12.4	3.2	3.9	7.2	6.4
New Orleans	179.9	17.9	12.0	16.3	115.7	7.0	2.6	2.8	2.8	2.9
Southeastern	303.5	90.7	39.1	58.6	72.2	16.5	5.0	6.5	7.0	7.9
1930										
Total	4,523.1	1,101.3	628.8	256.6	1,651.2	376.1	163.1	139.8	92.8	113.3
New England	354.5	110.9	42.7	17.6	73.3	56.7	21.0	11.4	9.2	11.6
Metropolitan New York and vicinity	938.7	330.4	202.5	26.3	197.7	72.8	50.3	24.4	16.8	17.6
Up-State New York	188.2	33.8	15.6	11.3	72.3	24.9	10.9	6.0	4.9	8.4
Middle Atlantic	538.6	132.2	77.3	30.0	180.9	38.9	16.0	32.3	18.5	17.6
Pittsburgh	567.8	112.9	72.9	57.2	209.0	50.1	18.1	16.2	10.0	21.4
Southern Michigan	173.5	47.0	21.3	10.4	52.9	15.0	13.0	6.1	3.6	4.1
Chicago	560.3	124.0	61.2	39.7	248.3	38.6	12.2	11.6	11.5	13.1
Central Northwest	98.7	15.7	19.2	4.9	41.8	8.9	2.5	1.6	2.4	1.7
St. Louis	245.9	42.6	18.0	9.8	148.9	12.3	3.1	4.5	4.0	2.6
Kansas City	300.3	46.2	39.0	10.6	166.1	17.2	6.4	5.7	4.8	4.3
Texas	186.0	35.4	24.5	9.3	83.1	13.9	2.4	10.5	3.1	3.8
New Orleans	102.0	13.1	7.0	4.3	59.1	8.1	3.0	4.5	1.4	1.6
Southeastern	268.6	57.1	27.6	25.0	117.9	18.0	4.2	5.1	7.5	5.5
	Floor space (of buildings)									
1929										
Total	779,747	387,671	131,262	105,523	--------	60,644	19,494	12,626	12,817	19 709
New England	61,599	33,813	10,579	6,385	--------	5,495	1,633	897	820	1,978
Metropolitan New York and vicinity	159,735	97,360	36,060	7,608	--------	9,280	4,275	1,165	994	2,993
Up-State New York	23,954	8,166	4,174	4,089	--------	3,500	773	2,150	395	707
Middle Atlantic	98,071	51,097	17,650	13,797	--------	7,524	2,203	1,755	1,316	2,729
Pittsburgh	77,961	32,224	15,730	13,737	--------	7,626	3,087	1,198	2,013	2,346
Southern Michigan	57,599	25,630	9,822	14,029	--------	5,210	581	450	626	1,252
Chicago	123,073	60,830	24,643	21,124	--------	7,528	2,693	1,629	1,990	2,737
Central Northwest	11,468	3,810	3,400	1,365	--------	1,242	350	508	194	599
St. Louis	30,157	13,878	5,443	5,674	--------	2,452	1,206	286	542	676
Kansas City	36,109	17,560	9,815	2,858	--------	3,028	947	446	570	886
Texas	34,754	16,190	10,051	2,228	--------	2,453	499	704	1,393	1,236
New Orleans	14,929	5,033	3,599	2,733	--------	1,912	437	342	555	317
Southeastern	50,339	22,082	10,296	9,898	--------	3,394	910	1,095	1,410	1,255
1930										
Total	496,074	230,039	97,853	48,020	--------	58,550	19,120	17,024	10,862	14,606
New England	45,427	23,382	6,579	2,994	--------	6,885	2,157	1,447	784	1,199
Metropolitan New York and vicinity	120,754	68,839	27,038	5,170	--------	8,646	4,911	2,540	1,719	1,891
Up-State New York	18,293	6,625	2,532	1,929	--------	3,450	995	677	615	1,470
Middle Atlantic	58,455	27,432	10,705	6,662	--------	5,619	1,845	3,101	1,220	1,873
Pittsburgh	56,231	22,076	9,934	8,537	--------	8,480	2,351	1,627	1,039	2,187
Southern Michigan	22,991	10,419	4,042	1,955	--------	2,713	1,761	1,005	489	606
Chicago	53,728	23,577	9,153	8,622	--------	6,028	1,533	1,448	1,268	2,101
Central Northwest	10,410	3,387	3,048	826	--------	1,616	703	212	366	252
St. Louis	18,236	8,394	3,726	1,757	--------	2,364	475	621	493	408
Kansas City	25,166	9,873	6,925	1,758	--------	3,394	948	857	742	670
Texas	22,960	9,572	5,331	1,200	--------	3,016	375	2,037	632	796
New Orleans	9,783	3,405	1,965	909	--------	1,933	389	536	295	351
Southeastern	33,640	13,058	6,874	5,702	--------	4,407	678	917	1,202	803

[1] For territory covered see headnote, Table 849.

Source: The F. W. Dodge Corporation.

No. 851.—PATENTS AND CERTIFICATES OF REGISTRATION ISSUED SINCE INITIATION OF THE PATENT SYSTEM

NOTE.—The number of patents granted prior to July 28, 1836, was 9,957

Calendar year or period	Patent applications [1]	Caveats filed [2]	Patents issued				Certificates of registration issued		
			Total	Patents	Designs	Reissues	Total	Trade-marks	Labels and prints
1836–1850 [3]	14,062	4,763	8,387	7,864	340	183			
1851–1860	44,302	9,571	25,087	23,140	1,025	922			
1861–1870	128,763	22,228	85,910	79,612	3,181	3,117	121	121	
1871–1880	206,436	29,350	138,355	125,520	7,535	5,300	10,395	8,017	2,378
1881–1890	352,475	25,012	217,821	207,850	8,357	1,614	14,660	10,636	4,024
1891–1900	410,049	21,199	234,956	220,840	13,374	742	18,794	16,903	[4] 1,891
1901–1905	253,417	9,168	148,291	143,791	3,953	547	18,590	12,768	5,822
1906–1910	307,187	8,880	175,618	171,560	3,297	761	36,375	32,060	4,315
1911–1915	350,937		194,387	186,241	7,295	851	32,381	27,369	5,012
1916–1920	368,236		207,108	197,644	8,486	978	35,364	30,681	4,683
1921–1925	426,597		217,525	203,977	12,326	1,222	81,566	71,159	10,407
1926–1930	459,163		234,857	219,384	13,796	1,677	96,729	83,536	13,193
1901	46,449	1,842	27,373	25,558	1,734	81	2,965	1,928	1,037
1902	49,641	1,851	27,886	27,136	640	110	2,931	2,006	925
1903	50,213	1,771	31,699	31,046	536	117	3,446	2,186	1,260
1904	52,143	1,808	30,934	30,267	557	110	3,569	2,158	1,411
1905	54,971	1,896	30,399	29,784	486	129	5,679	4,490	1,189
1906	56,482	1,885	31,965	31,181	625	159	11,933	10,568	1,365
1907	58,762	1,967	36,620	35,880	589	151	8,860	7,878	982
1908	61,475	2,110	33,682	32,757	757	168	6,029	5,191	838
1909	65,839	1,948	37,421	36,574	687	160	4,824	4,184	640
1910	64,629	970	35,930	35,168	639	123	4,729	4,239	490
1911	69,121		34,084	32,917	1,010	157	5,112	4,205	907
1912	70,976		37,731	36,231	1,342	158	5,896	5,020	876
1913	70,367		35,788	33,941	1,683	164	6,063	5,065	998
1914	70,404		41,850	39,945	1,715	190	7,874	6,817	1,057
1915	70,069		44,934	43,207	1,545	182	7,436	6,262	1,174
1916	71,033		45,927	43,970	1,759	198	8,087	6,791	1,296
1917	70,373		42,760	41,069	1,512	179	6,197	5,339	858
1918	59,615		39,941	38,569	1,207	165	4,912	4,061	851
1919	80,400		38,598	36,872	1,523	203	4,874	4,208	666
1920	86,815		39,882	37,164	2,485	233	11,294	10,282	1,012
1921	93,328		41,401	37,885	3,277	239	13,605	11,654	1,951
1922	88,930		40,297	38,414	1,627	256	14,992	12,793	2,199
1923	79,058		40,787	38,634	1,927	226	16,725	14,845	1,880
1924	80,756		45,500	42,594	2,671	235	17,562	15,749	1,813
1925	84,525		49,540	46,450	2,824	266	[5] 18,682	[5] 16,118	2,564
1926	86,028		47,627	44,750	2,602	275	[5] 21,819	[5] 19,246	2,573
1927	92,018		44,444	41,731	2,387	326	[5] 20,548	[5] 17,649	2,899
1928	92,598		45,899	42,376	3,188	335	[5] 19,084	[5] 16,191	2,893
1929	94,489		48,565	45,284	2,907	374	[5] 18,087	[5] 15,534	2,553
1930	94,030		48,322	45,243	2,712	367	[5] 17,191	[5] 14,916	2,275

[1] Figures include patents for inventions, designs, and reissues of patents.
[2] Caveat law repealed June 25, 1910.
[3] July 28, 1836, to Dec. 31, 1850.
[4] Registration of labels suspended from May 27, 1891, to June 9, 1896.
[5] Figures include 2,278 renewals in 1925, 4,282 renewals in 1926, 3,063 in 1927, 2,049 in 1928, 1,008 in 1929, and 1,665 in 1930.

Source: Reports of the Commissioner of Patents.