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 803 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 802 and 804 to 806. Other adjustments in previously published figures in the third section of Table 802 and in Tables 804 to 806 have been made as follows: (1) Data for "Coffee and spice, roasting and grinding," have been added, except for 1925, for which year such data were not tabulated; (2) data for "Poultry killing and dressing" have been deducted, as no data were collected for this industry for 1927. Also in Table 802 the figures for salaried employees and salaries for 1923 and 1925 have been adjusted by deducting the number of salaried employees and salaries for central administrative office employees. Data in regard to salaried employees of central administrative offices were not collected for 1927. These data for 1914, 1919, and 1921 are not available, and therefore no change was made for these years.

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. 802.—MANUFACTURES: SUMMARY, 1849 TO 1927

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Horsepower	Salaries	Wages	Cost of materials, supplies, fuel, and power	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	5,468	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 [4]	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	[5] 962	6,895	[5] 22,289	[5] 1,274	[5] 4,067	14,267	23,975	9,708
1919	214	[5] 1,438	8,998	[5] 29,324	[5] 2,880	[5] 10,460	37,197	62,000	24,803
1921	196	1,146	6,944	[2]	2,562	8,200	25,292	43,619	18,327
1923	196	1,269	8,777	33,092	2,806	11,008	34,684	60,530	25,846
1925	187	1,255	8,382	35,767	2,921	10,727	35,897	62,668	26,771
1927	192	1,301	8,350	38,826	3,230	10,849	35,133	62,718	27,585

[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 "Poultry killing and dressing" industry.
[5] 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.

Source: Bureau of the Census, Department of Commerce.

No. 803.—MANUFACTURES: ESTABLISHMENTS, CLASSIFIED BY VALUE OF PRODUCTS [1]

NOTE.—Data for the "Coffee and spice, roasting and grinding" industry omitted for 1925 but included for other years. See general note, p. 791. Data by size of establishments were not compiled in 1927

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	26,847	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 numbers of establishments comparable, those for all 5 years have been based on the numbers 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. 804.—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. As to comparability of figures and adjustments in previously published figures, see general note, p. 791

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 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	6,968,950	[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	5,009,760	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	1,419,553	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	418,758	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. 805.—SUMMARY BY 16 GENERAL GROUPS OF INDUSTRIES

NOTE.—See general note, p. 791. Due to a change in the classification of a number of the industries the figures for the majority of the groups differ from those previously published. The figures for 1899 are estimated in part, but are believed to be fairly comparable with those for later years

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
All industries	1927	191,866	8,349,755	10,848,803	35,133,137	62,718,347	27,585,210	38,825,681
	1925	187,224	8,381,511	10,727,338	35,896,886	62,668,260	26,771,373	35,766,944
	1923	196,182	8,776,646	11,007,851	34,683,915	60,529,574	25,845,659	33,092,222
	1921	196,098	6,944,315	8,200,359	25,291,734	43,618,566	18,326,832	(1)
	1919	274,402	9,039,171	10,459,743	37,252,715	62,151,721	24,899,005	29,323,653
	1914	272,402	7,022,332	4,067,096	14,347,730	24,203,508	9,855,868	22,288,970
	1899	207,514	4,712,763	(2)	6,575,851	11,406,927	4,831,076	(2)
1. Food and kindred products.	1927	49,787	679,520	823,388	8,113,433	11,015,860	2,902,427	4,134,973
	1925	47,947	662,010	791,049	7,709,917	10,373,082	2,663,166	3,876,268
	1923	51,720	680,627	794,125	6,969,064	9,497,627	2,528,563	3,721,019
	1921	51,944	624,363	744,301	6,093,612	8,232,413	2,138,801	(1)
	1919	69,227	731,524	772,679	10,216,615	12,706,643	2,490,028	3,199,090
	1914	67,287	535,083	302,719	3,895,981	4,964,844	1,068,863	2,501,702
	1899	46,590	321,016	(2)	1,782,767	2,228,346	445,579	(2)
2. Textiles and their products.	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
	1899	6,663	1,022,123	(2)	894,846	1,628,606	733,760	(2)
3. Forest products	1927	20,163	862,667	929,790	1,633,938	3,457,427	1,823,489	3,321,755
	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
	1899	36,050	671,696	(2)	480,930	1,007,532	526,602	(2)
4. Paper and paper products.	1927	2,989	225,506	273,571	1,084,932	1,790,780	714,848	2,814,795
	1925	2,743	222,745	264,092	921,659	1,560,480	638,821	2,575,520
	1923	2,704	219,955	251,242	879,938	1,466,229	586,291	2,314,533
	1921	2,618	185,572	203,547	670,408	1,082,331	411,923	(1)
	1919	2,696	208,518	213,099	721,225	1,251,974	530,748	1,967,514
	1914	2,477	167,825	89,422	315,459	522,716	207,257	1,697,624
	1899	1,957	95,101	(2)	107,884	198,743	90,859	(2)
5. Printing, publishing, and allied industries.	1927	25,416	327,534	584,766	752,469	2,846,078	2,093,609	568,427
	1925	23,810	314,021	540,824	692,576	2,583,205	1,890,629	485,274
	1923	23,095	307,064	491,808	664,481	2,306,059	1,641,579	428,996
	1921	22,759	281,684	433,883	661,963	2,068,233	1,406,271	(1)
	1919	33,728	301,531	351,623	586,977	1,762,859	1,175,882	379,168
	1914	34,732	285,181	207,144	265,809	934,099	668,291	341,449
	1899	24,704	203,643	(2)	106,682	409,164	302,482	(2)
6. Chemicals and allied products.[3, 4]	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
	1899	13,453	254,451	(2)	483,730	1,083,498	599,769	(2)
7. Products of petroleum and coal.[4]	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
	1899	1,214	51,784	(2)	143,490	235,949	92,458	(2)

[1] Not called for on schedule.
[2] Data not compiled for 1899 by groups.
[3] 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. For figures excluding alcoholic liquors see p. 804.
[4] Figures differ from those previously published because of a change in classification.

No. 205.—Summary by 16 General Groups of Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
8. Rubber products	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
	1899	303	36,567	(2)	60,245	99,886	39,641	(2)
9. Leather and its manufactures.	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	412,998
	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	6,758	307,050	169,358	753,135	1,104,595	351,459	311,194
	1899	6,410	248,626	(2)	396,633	582,048	185,415	(2)
10. Stone, clay, and glass products.	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	1,563,121	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	1,584,917
	1914	14,790	335,824	206,085	240,818	618,700	377,882	1,493,976
	1899	11,535	231,716	(2)	85,137	270,650	185,513	(2)
11. Iron and steel and their products, not including machinery.	1927	6,346	835,501	1,264,406	3,544,908	6,199,252	2,654,345	8,323,037
	1925	6,068	851,270	1,284,339	3,734,350	6,461,668	2,727,318	7,518,990
	1923	6,358	892,660	1,324,587	4,152,918	6,828,841	2,675,923	7,259,275
	1921	6,255	571,798	731,184	2,140,345	3,456,387	1,316,043	(1)
	1919	7,621	858,571	1,244,406	3,423,678	5,889,523	2,465,845	6,430,002
	1914	6,331	618,349	421,989	1,315,808	2,137,627	821,819	4,567,816
	1899	4,517	279,884	(2)	614,208	915,899	301,691	(2)
12. Nonferrous metals and their products.	1927	6,653	270,545	380,365	1,780,358	2,668,697	888,339	1,219,598
	1925	6,924	275,292	380,781	1,946,777	2,833,770	886,993	1,158,486
	1923	7,433	296,911	394,024	1,767,072	2,634,032	866,959	1,168,656
	1921	7,801	212,354	256,252	885,836	1,406,875	521,038	(1)
	1919	10,346	304,195	358,638	1,737,025	2,517,417	780,392	951,770
	1914	9,708	238,246	153,955	903,794	1,327,930	304,136	549,326
	1899	4,723	158,702	(2)	469,376	681,620	212,244	(2)
13. Machinery, not including transportation equipment.	1927	12,037	886,427	1,287,778	2,662,671	5,368,015	3,305,344	3,609,265
	1925	11,807	858,843	1,225,359	1,985,367	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
	1899	12,427	472,571	(2)	407,021	906,250	499,229	(2)
14. Transportation equipment, air, land, and water.	1927 [3]	2,537	494,905	803,298	2,907,940	4,693,972	1,786,022	2,027,686
	1925	2,778	559,573	908,488	3,389,101	5,451,753	2,062,652	1,888,961
	1923	3,873	606,328	963,939	3,394,505	5,333,479	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
	1899	9,825	182,318	(2)	187,890	355,615	167,725	(2)
15. Railroad repair shops.	1927	2,309	428,672	648,908	545,492	1,289,695	744,203	1,110,821
	1925	2,363	457,755	668,192	563,046	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
	1899	1,404	180,677	(2)	113,876	227,609	113,733	(2)
16. Miscellaneous industries.	1927	14,368	440,966	530,387	1,374,703	3,310,050	1,935,346	840,919
	1925	14,293	440,340	510,122	1,353,006	3,129,654	1,776,648	735,940
	1923	15,502	475,893	529,026	1,429,924	3,005,555	1,575,631	703,780
	1921	15,810	418,175	442,433	1,315,863	2,558,297	1,242,435	(1)
	1919	25,286	516,520	511,667	1,461,557	2,995,414	1,533,856	752,150
	1914	26,632	443,040	228,105	604,336	1,272,095	667,758	450,845
	1899	25,739	301,888	(2)	241,136	575,512	334,376	(2)

[1] Not called for on schedule.
[2] Data not compiled for 1899 by groups.
[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. 806.—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. As to comparability of figures see general note, page 791. No data for horsepower were collected for 1921. Horsepower figures for 1919 and 1914 in certain industries differ from those in certain previous reports because of exclusion here and inclusion in the previous reports of data for purchased power other than electric. For totals for all industries and for 16 great groups see Table 805. 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 1927. For other industries 1914, 1925, and 1927 have been shown except as indicated by footnotes

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD AND KINDRED PRODUCTS								
Animal products, total.[1]	1927	11,774	189,645	249,881	3,815,254	4,563,036	747,782	965,363
	1925	11,697	187,183	242,672	3,713,754	4,453,477	739,723	870,194
	1923	12,449	203,548	254,414	3,238,978	3,951,221	712,242	783,488
	1921	11,160	180,535	229,036	2,657,977	3,241,845	583,868	
	1914	12,272	146,039	90,751	1,828,078	2,128,665	300,587	448,447
Butter	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	
	1914	4,356	14,149	10,120	212,547	243,379	30,832	91,448
Cheese	1927	2,738	3,520	4,897	100,788	118,448	17,660	20,976
	1925	2,935	3,308	4,320	103,569	118,678	15,109	20,830
	1914	3,082	2,908	2,066	46,759	51,745	4,986	19,209
Condensed and evaporated milk.	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
	1914	190	6,002	3,662	55,720	69,161	13,441	19,602
Ice cream	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	2,762	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	
	1914	2,437	10,376	6,845	32,772	55,983	23,211	45,408
Slaughtering and meat packing, wholesale.	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	
	1914	1,279	98,832	62,136	1,441,663	1,651,965	210,302	252,079
Sausage and sausage casings, not made in slaughtering and meat-packing establishments.	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
	1914	533	2,616	1,820	17,926	23,083	5,157	7,840
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.	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
	1914	395	11,156	4,103	20,692	33,349	12,657	12,861
Vegetable products and beverages, total.[1]	1927	38,013	489,875	573,506	4,208,179	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	
	1914	55,015	389,044	211,968	2,067,903	2,836,179	768,276	2,053,255
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.	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	
	1914	3,825	62,915	23,095	138,966	210,091	71,125	106,487
Chocolate and cocoa products, not including confectionery.	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
	1914	36	4,160	2,036	24,483	35,713	11,230	19,676
Coffee and spice,[2] roasting and grinding.	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	
	1914	696	8,549	4,508	116,520	150,749	34,229	26,556

For footnotes see p. 819.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD AND KINDRED PRODUCTS—Con.								
Confectionery	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	
	1914	2,317	51,610	20,644	93,693	153,685	59,992	52,379
Chewing gum	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
	1914	74	2,048	828	7,322	17,160	9,838	3,030
Flavoring extracts, flavoring sirups, and bitters.	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
	1914	566	2,390	1,150	13,904	26,696	12,792	3,526
Flour and other grain-mill products.	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	
	1914	10,788	30,718	24,593	752,270	877,680	125,410	821,406
Bread and other bakery products.	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	227,286
	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	
	1914	25,963	124,052	76,867	274,257	491,893	217,636	106,797
Feeds, prepared, for animals and fowls.[3]	1927	447	7,632	9,703	244,676	299,793	55,117	115,855
Lard substitutes and vegetable cooking oils.[4]	1927	33	2,655	2,624	137,079	148,468	11,389	33,462
Macaroni, spaghetti, vermicelli, and noodles.[5]	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
	1914	373	3,534	1,638	7,938	12,884	4,945	8,562
Oleomargarine and other butter substitutes, not made in slaughtering and meat-packing establishments.	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
	1914	17	917	584	10,257	15,080	4,822	3,431
Food preparations, not elsewhere classified.[6]	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
	1923	638	10,656	10,146	85,269	138,798	53,529	32,605
	1921	638	8,870	8,489	68,376	109,838	41,462	
	1914	814	6,944	3,521	35,923	55,858	19,936	17,346
Corn sirup, corn oil, and starch.	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
	1914	89	4,509	3,550	40,208	52,615	12,407	41,454
Peanuts: Grading, roasting, cleaning, and shelling.[7]	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
	1914	61	2,353	569	12,571	14,996	2,425	4,232
Peanuts, walnuts, and other nuts, processed.[8]	1927	144	7,376	3,287	45,890	55,950	10,059	13,956
Rice cleaning and polishing.	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
	1914	59	1,253	646	20,616	23,039	2,423	15,571
Sugar, beet	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
	1914	60	7,997	6,606	41,399	62,605	21,206	76,705
Sugar, cane, not including products of refineries.	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
	1914	181	3,632	1,561	15,958	21,635	5,677	113,246
Sugar refining, cane	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	89,098
	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	
	1914	18	11,253	7,823	264,085	289,399	25,314	49,666
Malt	1927	23	500	904	17,187	20,274	3,087	15,390
	1925	23	568	903	19,986	24,069	4,083	15,259
	1914	97	1,989	1,828	39,199	48,133	8,934	32,494

For footnotes see p. 819.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD AND KINDRED PRODUCTS—Con.								
Vinegar and cider	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
	1914	618	1,229	713	4,440	7,811	3,371	13,117
Cereal preparations [8]	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
	1914	137	5,177	3,134	36,767	59,985	23,218	25,820
Beverages [9]	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
	1921	3,867	33,202	45,652	116,102	237,628	121,526	
	1914	5,463	15,506	8,864	26,779	58,401	31,622	24,721
Ice, manufactured	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
	1914	2,543	23,011	14,841	17,755	60,386	42,631	458,938
TEXTILES AND THEIR PRODUCTS								
Textile-mill products, total. [10]	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	
	1914	5,942	950,880	404,606	1,185,091	1,935,344	750,253	2,522,862
Cotton goods	1927	1,347	467,596	380,910	871,592	1,567,401	695,809	2,358,830
	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	2,158,299
	1921	1,328	412,058	328,227	707,442	1,278,221	570,779	
	1914	1,179	379,366	146,130	431,603	676,569	244,966	1,563,823
Cotton small wares [11]	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
	1923	228	16,387	15,957	38,615	73,223	34,608	31,926
Lace goods	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
	1914	41	7,440	3,468	5,677	13,207	7,530	8,817
Knit goods	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	
	1914	1,622	150,520	59,758	146,687	258,913	112,226	122,919
Silk manufactures	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	
	1914	902	108,170	47,109	144,442	254,011	109,569	111,417
Woolen goods	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	
	1914	501	49,165	24,204	63,696	103,816	40,120	133,052
Worsted goods	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	
	1914	298	109,527	51,749	182,801	275,668	92,868	242,521
Felt goods, wool or hair	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
	1914	53	4,035	2,089	8,308	13,693	5,385	14,016
Hats, wool-felt	1927	17	2,185	2,284	4,785	9,382	4,597	2,422
	1925	22	1,354	1,986	5,123	8,949	3,826	2,550
	1914	30	1,249	600	978	1,945	967	3,091
Hats, fur-felt	1927	146	15,927	22,887	51,105	99,300	48,195	20,526
	1925	146	15,156	20,466	40,124	80,066	39,942	17,948
	1914	224	21,318	12,071	16,947	37,350	20,403	20,774
Carpets and rugs, wool, *other than rag.*	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
	1914	97	31,309	14,716	42,280	69,128	26,848	42,794

For footnotes see p. 819.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES, ETC.—Con.								
Wool shoddy	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
	1914	64	2,145	1,056	5,300	7,707	2,407	12,244
Wool pulling	1927	18	524	769	12,466	14,640	2,174	2,403
	1925	23	573	841	13,637	15,209	1,572	2,706
	1914	34	708	452	6,632	8,273	1,641	2,248
Wool scouring	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
	1914	24	1,059	617	3,176	4,565	1,389	7,579
Cordage and twine	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
	1914	105	15,769	6,996	43,605	59,762	16,157	55,272
Jute goods	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
	1914	34	7,987	3,960	12,580	16,514	3,934	28,533
Flax and hemp, dressed	1927	7	62	51	116	283	167	654
	1925	9	82	89	244	459	215	1,457
	1914	16	116	45	185	283	98	832
Linen goods	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
	1914	21	3,507	1,386	4,289	6,960	2,671	9,932
Mats and matting, grass and coir.	1927	7	422	398	669	1,537	868	1,425
	1925	10	902	767	1,526	3,492	1,965	2,147
	1914	12	869	455	1,170	2,236	1,066	1,643
Haircloth	1927	16	385	480	2,689	3,616	927	1,312
	1925	15	355	387	1,897	2,746	849	1,053
	1914	19	595	290	1,654	2,396	742	1,589
Dyeing and finishing textiles.	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	
	1914	507	48,467	24,872	56,705	109,292	52,587	129,327
Cloth, sponging and refinishing.	1927	52	736	1,502	161	3,458	3,297	933
	1925	61	931	1,889	203	3,889	3,685	975
	1914	51	901	658	133	1,531	1,398	677
Wearing apparel made from purchased fabrics, total.	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	1,741,618	3,243,849	1,502,231	119,744
	1923	16,904	490,413	568,139	1,852,229	3,443,940	1,591,711	132,317
	1921	16,784	473,574	534,312	1,424,284	2,710,657	1,286,373	
	1914	14,953	510,595	250,114	673,013	1,297,273	624,260	117,911
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.[12]	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
	1921	4,539	165,206	201,882	447,545	934,776	487,231	
	1914	4,830	173,747	86,828	230,032	458,211	228,179	35,252
Clothing, work (except shirts), men's.[12]	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
	1923	583	36,647	28,235	100,877	161,993	61,116	12,392
Clothing, men's, buttonholes.	1927	40	412	429	98	918	820	132
	1925	30	327	347	71	658	587	87
	1914	139	672	326	90	638	548	205
Shirts	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	
	1914	792	51,972	19,179	50,665	95,815	45,150	17,117
Furnishing goods, men's, not elsewhere classified.[13]	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
	1914	551	22,459	8,416	31,593	52,453	20,860	5,840

For footnotes see p. 819.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES, ETC.—Con.								
Collars, men's	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
	1914	35	10,100	4,494	6,566	18,531	11,965	3,359
Gloves and mittens, cloth or chiefly cloth, made from purchased fabrics.[12]	1927	131	10,206	6,670	17,392	30,202	12,810	4,112
	1925	139	9,061	5,709	17,977	29,532	11,554	4,102
	1923	129	8,864	5,296	18,292	28,126	9,834	3,143
Suspenders, garters and elastic woven goods, made from purchased webbing.[11]	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
	1923	100	3,458	2,892	13,934	24,297	10,363	809
Hats and caps, except felt and straw.	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
	1914	580	7,322	4,508	9,268	18,593	9,325	1,313
Clothing, women's, exclusive of corsets and allied garments made in knitting mills.	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	
	1914	5,564	108,907	92,574	252,345	473,888	221,543	27,874
Corsets and allied garments.	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
	1914	167	20,496	7,977	19,587	40,551	20,964	6,962
Handkerchiefs[14]	1927	115	6,659	5,264	18,205	31,588	13,383	2,665
Millinery[15]	1927	1,148	33,311	46,788	103,490	209,495	106,005	7,920
Other articles made from purchased fabrics, total.[1]	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	
	1914	2,455	44,437	21,063	155,633	212,195	56,562	76,305
Awnings, tents, sails, and canvas covers.	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
	1914	888	5,073	2,954	10,155	18,138	7,983	2,602
Bags, other than paper, not made in textile mills.	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
	1914	138	9,358	3,789	67,022	79,049	12,027	10,381
Belting, other than leather and rubber, made from purchased fabrics.[11]	1927	11	343	411	1,490	3,212	1,722	1,457
	1925	11	254	264	1,596	3,112	1,516	914
	1923	13	335	351	1,674	3,312	1,638	930
Embroideries[15]	1927	1,069	8,964	10,962	7,960	32,419	24,459	2,930
Trimmings (not made in textile mills) and lace-trimmed articles, not elsewhere classified.[14]	1927	773	9,495	11,989	33,350	64,423	31,073	3,864
Horse blankets, fly nets, and related products.	1927	16	660	574	1,878	3,379	1,501	1,421
	1925	20	694	564	2,535	3,897	1,362	1,773
	1914	37	1,669	668	3,569	5,150	1,581	1,903
Flags and banners	1927	46	1,046	898	2,282	4,536	2,254	700
	1925	49	1,031	890	2,332	4,588	2,256	629
	1914	87	1,495	690	1,750	3,601	1,851	637
Regalia, badges, and emblems.	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
	1914	138	2,010	980	2,205	5,025	2,820	655
Hat and cap materials, men's.	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
	1914	98	1,775	804	5,052	6,929	1,877	2,946
Nets and seines	1927	21	869	776	3,348	5,401	2,053	1,162
	1925	21	885	762	3,479	5,157	1,678	1,190
	1914	15	1,058	379	2,257	3,088	831	1,934

For footnotes see p. 819.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES, ETC.—Con.								
House-furnishing goods, not elsewhere classified.	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
	1914	370	6,935	3,306	17,391	26,453	9,062	11,276
Carpets and rugs, rag	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
	1914	463	2,130	995	722	2,786	2,064	2,656
Linoleum [16]	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
	1914	18	4,428	2,604	11,252	17,602	6,350	18,782
Oilcloth	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
	1914	13	1,223	609	6,524	7,996	1,472	3,490
Artificial leather	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
	1914	10	795	485	4,108	6,097	1,989	1,674
Asphalted-felt-base floor coverings.[16]	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
	1923	9	1,682	2,204	9,140	25,280	16,140	2,700
Upholstering materials, not elsewhere classified.	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
	1914	70	2,454	1,101	5,285	7,879	2,594	6,198
Waste [17]	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
	1914	79	3,082	1,239	15,473	17,959	2,486	8,506
FOREST PRODUCTS								
Basic industries, total.	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	
	1914	28,723	515,780	249,118	288,890	738,816	449,926	2,203,552
Excelsior	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
	1914	99	1,177	558	1,403	2,516	1,113	10,715
Lumber and timber products, not elsewhere classified.	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	
	1914	27,229	479,786	239,977	281,952	715,310	433,358	2,190,359
Turpentine and rosin	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
	1914	1,394	34,817	8,583	5,536	20,990	15,454	2,478
Wood reworking industries, total.	1927	5,389	113,824	145,542	351,547	653,934	302,388	706,207
	1925	5,527	127,519	164,482	431,397	778,051	346,654	659,953
	1923	4,963	120,239	151,573	430,991	762,017	331,026	553,302
	1921	5,118	91,924	110,717	298,050	518,386	220,336	
	1914	6,955	113,117	71,000	198,996	340,476	141,479	466,155
Lumber: Planing-mill products, not made in planing mills connected with sawmills.	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	
	1914	5,841	96,214	61,949	184,227	307,672	123,445	410,259
Window and door screens and weather strip.	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
	1914	220	3,194	1,894	4,261	9,167	4,906	8,128
Wood, turned, and shaped, n. e. c.	1927	555	11,856	12,093	18,294	42,128	23,834	56,358
	1925	521	10,352	10,190	15,576	35,491	19,915	44,664
	1914	828	11,615	5,645	9,166	19,047	9,881	42,541
Lasts and related products.	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
	1914	66	2,094	1,511	1,343	4,589	3,246	5,227

For footnotes see p. 819.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOREST PRODUCTS—Continued								
Wooden container industries, total.	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	
	1914	3,090	66,085	31,588	93,052	151,500	58,447	174,968
Boxes, wooden, except cigar boxes.	1927	748	30,797	29,250	75,797	133,903	58,195	135,637
	1925	824	34,834	33,765	86,391	152,295	65,903	143,519
	1914	1,174	38,548	18,206	52,840	86,567	33,727	124,249
Boxes, cigar, wooden	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
	1914	238	5,835	2,299	4,269	8,337	4,068	5,251
Cooperage	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	30,753
	1914	1,259	17,128	9,161	32,944	50,017	17,073	38,177
Baskets and rattan and willow ware, not including furniture.	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
	1914	419	4,574	1,923	2,999	6,578	3,579	7,201
Furniture and related industries, total.	1927	3,587	201,497	256,169	423,935	964,470	540,535	477,958
	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	
	1914	3,964	142,280	80,809	138,396	302,571	164,174	258,354
Furniture, including store and office fixtures.[18]	1927	3,222	186,302	236,109	389,390	879,706	490,317	445,179
	1925	3,229	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	
	1914	3,338	130,423	73,402	124,096	271,610	147,514	239,952
Refrigerators and refrigerator cabinets, excl. of mechanical refrigerating equipment.	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
	1914	134	5,617	3,572	7,343	15,052	7,709	11,151
Billiard and pool tables, bowling alleys, and accessories.	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
	1914	54	1,453	985	2,488	4,894	2,406	3,197
Mirror and picture frames.	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
	1914	438	4,787	2,850	4,468	11,014	6,546	4,054
Other allied products, total.	1927	816	38,091	43,860	215,307	344,075	128,769	149,226
	1925	750	35,432	40,347	139,009	241,866	102,857	121,807
	1923	738	35,897	37,673	123,252	219,076	95,824	127,535
	1921	726	31,820	32,727	107,790	197,437	89,647	
	1914	735	28,032	14,382	46,601	83,091	36,491	73,467
Caskets, coffins, burial cases, and morticians' goods.	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
	1914	287	9,468	5,382	13,257	26,325	13,068	18,969
Rules, wood, metal, and other.[19]	1923	11	219	218	239	759	520	714
	1914	10	408	224	187	634	447	441
Cork products	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
	1914	52	3,454	1,582	4,751	7,875	3,124	5,786
Matches	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
	1914	20	3,800	1,758	5,202	12,556	7,354	7,457
Pulp goods	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
	1914	24	1,654	884	2,191	4,483	2,292	8,820
Wood preserving	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
	1914	68	2,830	1,785	16,060	21,055	4,995	11,551
Wooden goods, not elsewhere classified.	1927	193	4,081	4,240	7,770	18,402	10,632	21,067
	1925	200	4,596	4,672	9,060	20,238	11,177	20,446
	1914	274	6,418	2,767	4,952	10,162	5,210	20,383

For footnotes see p. 819.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
PAPER AND PAPER PRODUCTS								
Paper and wood pulp.	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	
	1914	718	88,457	53,246	213,181	332,147	118,966	1,611,954
Paper [20]	1927	710	98,566	130,475	572,786	919,891	347,106	[21]2,642,806
Wood pulp [20]	1927	219	24,794	31,527	151,325	218,198	66,873	([22])
Manufactures of paper, total [1]	1927	2,060	102,146	111,569	360,821	661,690	300,869	171,989
	1925	1,980	98,903	104,546	315,708	588,597	272,799	148,510
	1923	1,958	99,278	99,765	306,210	558,882	252,672	135,910
	1921	1,880	80,278	76,518	224,416	414,895	190,480	
	1914	1,759	79,368	36,176	102,278	190,569	88,291	85,670
Bags, paper, exclusive of those made in paper mills.	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
	1914	59	3,505	1,659	12,201	17,603	5,402	3,677
Boxes, paper and other, not elsewhere classified.	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	
	1914	1,043	45,311	18,705	36,268	74,711	38,443	37,340
Labels and tags	1927	121	6,141	8,060	16,259	34,398	18,138	6,869
	1925	113	5,356	6,730	13,096	28,045	14,950	4,808
	1914	108	2,660	1,459	2,908	6,584	3,676	2,155
Paper patterns	1927	17	1,060	1,418	2,569	13,782	11,213	1,101
	1925	16	1,243	1,595	2,001	13,665	11,664	813
	1914	25	1,073	577	626	3,026	2,400	356
Card cutting and designing.	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
	1914	58	517	265	421	1,055	634	441
Cardboard, not made in paper mills.	1927	9	658	849	2,868	5,581	2,713	1,779
	1925	13	978	1,188	3,475	7,288	3,813	1,705
	1914	18	1,159	580	2,962	4,350	1,388	2,685
Envelopes	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
	1914	90	6,970	3,378	10,235	18,481	8,246	5,196
Wall paper	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
	1914	48	4,738	2,703	8,536	15,887	7,351	6,930
Paper goods, not elsewhere classified.	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
	1914	310	13,495	6,850	28,120	48,871	20,751	26,890
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES								
Printing and publishing. [1]	1927	22,541	261,671	473,221	661,959	2,507,426	1,845,467	481,194
	1925	21,056	251,272	438,533	610,059	2,269,638	1,659,580	408,308
	1923	20,452	246,455	399,388	585,936	2,021,356	1,435,420	357,048
	1921	20,318	229,489	356,671	589,279	1,827,809	1,238,530	
	1914	31,612	228,369	167,548	226,582	810,508	583,926	295,567
Printing and publishing, book and job.	1927	11,449	141,278	240,393	250,487	906,469	655,982	193,617
	1925	10,322	133,316	219,330	228,690	806,887	578,197	169,283
	1923	10,075	129,890	201,217	220,203	738,227	518,024	152,363
	1921	9,758	121,055	181,066	216,139	690,075	473,936	
	1914	12,115	113,121	78,414	96,453	307,331	210,878	113,210
Printing and publishing, music.	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
	1914	180	873	573	1,047	7,271	6,224	594
Printing and publishing, newspaper and periodical.	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	
	1914	19,317	114,375	88,561	129,082	495,906	366,824	181,763

For footnotes see pp. 819 and 820.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	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.[1]	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
	1914	3,120	56,812	39,596	39,227	123,591	84,365	45,882
Bookbinding and blank-book making.	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
	1914	1,124	21,693	11,575	13,334	38,104	24,770	10,842
Engravers' materials	1927	17	178	294	1,289	2,169	879	864
	1925	16	177	276	1,202	2,014	812	921
	1914	13	106	73	551	768	217	491
Engraving, steel and copperplate, and plate printing.	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
	1914	399	6,859	4,527	3,915	13,786	9,871	5,670
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.	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
	1914	486	1,536	1,076	596	3,134	2,538	1,035
Engraving, wood	1927	23	132	291	76	641	565	45
	1925	22	117	234	46	525	479	32
	1914	72	302	310	96	719	623	68
Photo-engraving, not done in printing establishments.	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
	1914	376	6,211	6,167	2,798	15,359	12,561	3,724
Lithographing	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
	1914	336	15,171	11,861	14,017	39,136	25,119	15,024
Stereotyping and electrotyping, not done in printing establishments.	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
	1914	189	3,457	3,001	2,255	8,154	5,899	6,743
Printing materials, not including type or printing ink.	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
	1914	94	423	340	763	2,111	1,348	638
Type founding	1927	19	525	658	749	2,684	1,935	1,230
	1925	18	537	603	705	2,451	1,745	1,236
	1914	31	1,054	666	901	2,320	1,419	1,647
CHEMICALS AND ALLIED PRODUCTS								
Total, exclusive of alcohol and liquor industries.[1]	1927	7,500	252,106	316,027	1,782,569	3,315,228	1,532,659	1,840,049
	1925	7,224	243,152	294,425	1,790,263	3,150,089	1,359,826	1,736,714
	1923	7,129	244,950	286,836	1,682,215	2,894,730	1,212,515	1,643,164
	1921	7,243	198,040	222,289	1,328,942	2,192,371	863,429	
	1914	9,459	187,756	105,988	830,915	1,299,085	468,170	992,703
Chemicals and allied products other than animal, vegetable, and compounded oils, total.[1]	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	291,444	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	
	1914	10,268	232,817	153,307	762,608	1,667,267	904,659	1,181,322
Ammunition and related products.	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
	1914	32	11,493	6,751	16,277	30,840	14,563	11,354
Explosives	1927	100	5,803	8,131	36,894	72,490	35,596	38,236
	1925	103	5,697	7,731	37,877	69,669	31,791	37,808
	1914	111	6,306	4,488	25,627	41,433	15,806	45,778

For footnotes see p. 819.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
CHEMICALS, ETC.—Continued								
Fireworks	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
	1914	41	1,324	616	1,206	2,296	1,090	707
Baking powders, yeast, and other leavening compounds.	1927	47	3,032	4,794	24,619	85,151	60,531	42,816
	1925	49	2,931	4,063	23,376	74,593	51,217	36,033
	1914	124	2,270	1,241	10,895	22,339	11,444	7,862
Blacking, stains, and dressings.	1927	176	1,716	2,181	9,186	22,548	13,363	4,005
	1925	171	1,869	2,104	9,734	25,055	15,322	2,659
	1914	197	1,786	877	5,129	9,882	4,753	2,442
Bluing	1927	20	155	151	594	1,674	1,080	363
	1925	23	176	185	1,017	2,167	1,150	366
	1914	66	254	105	489	1,184	695	216
Bone black, carbon black, and lampblack.	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
	1914	27	339	231	686	1,464	778	1,786
Candles	1927	17	709	761	2,959	6,531	3,392	996
	1925	20	626	673	2,786	5,114	2,328	922
	1914	15	387	183	1,119	1,731	612	359
Chemicals, not elsewhere classified.[23]	1927	457	50,510	75,261	284,795	548,536	263,741	552,410
	1925	715	55,694	80,435	271,646	547,003	275,357	524,677
	1923	736	74,897	99,845	316,901	630,870	313,969	572,892
	1921	692	46,306	58,024	190,502	390,768	200,266	
	1914	395	32,311	22,066	89,451	158,054	68,603	267,907
Cleaning and polishing preparations.	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
	1914	398	1,239	619	3,895	9,152	5,257	2,543
Drug grinding	1927	25	659	820	5,634	9,205	3,522	4,662
	1925	22	622	710	4,921	8,446	3,525	4,389
	1914	29	1,059	583	5,215	8,080	2,865	4,972
Druggists' preparations.	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
	1914	416	9,277	4,755	22,935	48,010	25,075	8,368
Patent and proprietary medicines and compounds.	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	33,340
	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	
	1914	2,903	13,328	6,675	35,940	102,463	66,523	18,326
Perfumery, cosmetics, and toilet preparations.	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
	1914	496	2,897	1,280	7,465	16,899	9,434	1,815
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.	1927	122	2,414	2,971	23,074	35,677	12,603	29,172
	1925	125	2,495	2,987	22,763	34,784	12,021	32,634
	1914	112	2,839	1,613	13,238	20,620	7,382	23,288
Fertilizers	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	16,808	16,026	144,978	180,375	35,397	
	1914	784	22,815	10,532	107,955	153,196	45,241	113,926
Compressed and liquefied gases.[24]	1927	313	3,212	4,948	11,749	50,547	38,799	70,489
Glue and gelatin	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
	1914	57	3,129	1,854	9,368	13,733	4,365	13,299
Mucilage, paste, and other adhesives, not elsewhere classified.[25]	1927	80	502	679	4,270	7,945	3,675	2,219
	1925	84	561	766	5,563	9,853	4,291	2,574
	1914	127	700	399	3,338	5,695	2,357	2,311

For footnotes see p. 820.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
CHEMICALS, ETC.—Continued								
Grease and tallow, not including lubricating greases.	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
	1914	369	5,106	3,512	17,061	24,901	7,840	17,935
Ink, printing	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
	1914	70	1,391	1,064	6,806	13,830	7,024	7,648
Ink, writing	1927	24	491	576	2,209	5,342	3,133	743
	1925	28	524	596	2,424	6,084	3,660	700
	1914	54	512	263	1,236	2,784	1,548	561
Alcohol, ethyl [26]	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
	1914	434	6,295	3,994	40,997	206,779	165,782	51,670
Liquors, malt [27]	1919	729	34,259	45,171	94,792	379,905	285,113	322,130
	1914	1,250	62,070	53,244	129,724	442,149	312,425	405,049
Liquors, vinous	1927	13	150	177	1,206	2,693	1,487	999
	1925	27	265	262	1,765	3,436	1,671	1,490
	1914	318	2,292	1,194	9,489	16,618	7,129	9,339
Paints and varnishes	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	
	1914	800	16,083	10,180	88,465	145,624	57,159	67,593
Rayon [24]	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	60,966
Salt	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
	1914	98	5,089	3,041	6,273	14,070	7,797	29,007
Soap	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	
	1914	371	14,172	8,088	88,867	127,942	39,075	34,105
Sulphuric, nitric, and mixed acids.	1927	35	1,837	3,014	11,882	23,555	11,672	23,875
	1925	36	2,196	3,103	11,066	23,307	12,241	22,120
	1914	32	3,064	2,213	6,734	15,215	8,481	21,002
Wood distillation and charcoal manufacture.	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
	1914	142	3,010	1,646	6,729	10,284	3,555	10,179
Animal, vegetable, and compounded oils, total.	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	19,021	330,416	384,954	54,538	
	1914	1,193	25,596	11,113	248,517	297,363	48,846	277,740
Oil, cake, and meal, cottonseed.	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	
	1914	882	21,810	8,490	180,976	212,127	31,151	249,781
Oils, essential	1927	14	169	258	3,427	4,642	1,215	758
	1925	14	178	281	4,363	5,882	1,519	1,064
	1914	105	249	133	1,565	2,314	749	1,959
Oil, cake, and meal, linseed.	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
	1914	25	1,488	1,127	39,555	44,882	5,327	15,511
Oils, not elsewhere classified.	1927	187	3,441	4,977	72,678	103,388	30,710	20,686
	1925	191	3,615	4,963	85,202	117,776	32,574	17,989
	1914	181	2,049	1,363	26,420	38,040	11,620	10,489

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No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
PRODUCTS OF PETROLEUM AND COAL								
Coke, not including gas-house coke.	1927	171	21,082	34,168	286,729	382,013	95,284	451,874
	1925	237	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	16,670	23,833	108,791	221,313	52,522	
	1914	231	21,107	14,289	69,188	99,275	30,137	117,127
Fuel, manufactured	1927	20	274	446	4,873	7,203	2,330	9,594
	1925	14	246	369	3,936	6,019	2,084	6,573
	1914	14	141	112	699	863	254	3,444
Gas, manufactured, illuminating and heating.	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	59,609	191,120	450,097	258,977	358,605
	1921	954	34,956	53,306	202,253	411,196	208,942	
	1914	1,284	43,792	26,802	76,779	220,238	143,459	213,303
Lubricating greases not made in petroleum refineries.	1927	45	568	799	6,314	11,656	5,342	3,181
	1925	53	607	820	6,796	13,239	6,443	3,867
	1914	77	476	282	2,767	4,919	2,152	2,595
Petroleum refining	1927	354	71,234	113,717	1,752,997	2,142,049	389,051	552,051
	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	1,793,760	368,647	349,154
	1921	366	63,189	102,294	1,382,170	1,727,440	345,270	
	1914	176	25,366	19,397	325,265	396,361	71,097	128,190
RUBBER PRODUCTS								
Boots and shoes, rubber.	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
	1914	23	18,687	9,986	23,956	53,822	29,866	24,561
Rubber tires and inner tubes.[28]	1927	109	78,256	120,064	499,221	869,688	370,467	451,724
	1925	126	81,640	120,614	559,340	925,002	365,662	403,227
	1923	160	73,963	108,623	365,165	644,194	279,029	370,551
Rubber goods, other than tires, inner tubes, and boots and shoes.[29]	1927	385	36,893	46,931	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	
	1914	319	55,335	34,181	139,079	247,172	108,093	174,681
LEATHER AND ITS MANUFACTURES								
Leather: Tanned, curried, and finished.[30]	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	
	1914	741	55,936	31,915	284,245	367,202	82,957	171,734
Finished products of leather, total.[31]	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	
	1914	6,017	251,124	137,443	468,890	737,393	268,503	139,490
Belting, leather	1927	173	2,164	2,925	16,185	27,266	11,080	6,729
	1925	168	2,644	3,505	18,868	31,811	12,943	6,889
	1914	151	2,951	2,070	15,480	23,036	7,556	7,385
Boots and shoes, other than rubber	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	130,563
	1923	1,606	225,216	250,346	527,457	1,000,078	472,621	128,559
	1921	1,505	183,502	204,954	478,432	867,476	389,044	
	1914	1,355	191,555	105,695	310,357	501,760	191,403	95,966
Boot and shoe cut stock, not made in boot and shoe factories.[30]	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
	1914	236	7,819	4,052	51,451	59,965	8,514	6,013

For footnotes see p. 820.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
LEATHER, ETC.—Con.								
Boot and shoe findings, not made in boot and shoe factories	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
	1914	369	6,714	3,226	20,304	28,303	7,999	5,436
Gloves and mittens, leather,[32]	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	3,265
	1914	352	10,668	4,558	12,171	21,614	9,443	3,308
Pocketbooks, purses, and cardcases.	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
	1914	64	1,466	702	1,784	3,351	1,567	242
Saddlery and harness	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
	1914	2,551	12,969	7,996	33,086	53,559	20,473	10,362
Trunks, suitcases, and bags.	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
	1914	561	9,911	5,540	13,626	26,472	12,846	7,510
Leather goods, not elsewhere classified.	1927	413	7,188	8,379	21,540	43,292	21,752	3,051
	1925	364	6,685	7,396	20,474	40,512	20,038	3,223
	1914	378	7,071	3,604	10,632	19,334	8,702	3,233
STONE, CLAY, AND GLASS PRODUCTS								
Industries using stone as a material, total.	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	478,239	1,365,906
	1923	4,621	118,560	167,466	273,369	697,461	424,092	1,071,210
	1921	4,752	84,565	109,834	212,557	464,613	252,056	
	1914	9,530	115,642	74,637	119,163	277,562	158,399	808,040
Concrete products	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
	1914	3,548	10,255	6,308	8,904	21,934	13,030	20,274
Marble, granite, slate, and other stone products.	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
	1914	4,901	54,891	37,960	37,802	107,055	69,253	206,115
Lime	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
	1914	627	12,429	6,040	7,558	18,391	10,833	39,079
Cement	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	264,099	163,332	642,840
	1921	125	26,231	34,416	102,360	203,627	101,267	
	1914	133	27,916	18,192	51,987	101,756	49,769	490,402
Wall plaster, wall board, and floor composition.	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
	1914	165	5,389	3,453	7,993	16,544	8,551	36,599
Asbestos products, other than steam packing or pipe and boiler covering.[33]	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
	1923	56	6,078	6,640	20,027	36,820	16,793	26,855
	1921	40	2,026	1,948	6,076	13,030	6,954	
	1914	32	962	484	1,360	2,814	1,454	2,861
Emery wheels and other abrasive and polishing appliances.	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
	1914	49	2,387	1,491	3,006	7,130	4,124	4,080
Grindstones, pulp stones, and millstones.[34]	1927	23	468	560	258	1,621	1,363	3,585
	1925	21	454	560	292	1,631	1,339	3,005
	1914	14	686	323	116	684	568	2,160
Hones, whetstones, and similar products.	1927	8	192	182	337	819	481	1,136
	1925	6	156	158	394	787	393	891
	1914	16	170	64	87	260	173	864

For footnotes see p. 820.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
STONE, CLAY, ETC.—Continued								
Sand-lime brick	1927	45	790	1,051	1,158	3,616	2,458	8,598
	1925	41	801	1,119	1,238	3,760	2,522	6,396
	1914	45	557	322	350	994	644	5,606
Industries using clay and other earths as materials, total.	1927	2,598	148,350	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	
	1914	4,095	134,429	76,153	62,481	191,418	128,937	513,164
Clay products (other than pottery) and nonclay refractories.[35]	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	
	1914	3,239	100,182	54,907	42,723	135,921	93,198	442,480
Pottery, including porcelain ware.	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
	1914	350	26,705	16,666	12,032	36,943	24,911	22,337
China firing and decorating, not done in potteries.	1927	31	366	428	682	1,692	1,010	43
	1925	31	333	386	672	1,590	918	38
	1914	51	295	160	330	727	397	22
Crucibles	1927	11	258	344	772	1,982	1,210	1,688
	1925	11	284	381	755	2,092	1,337	1,476
	1914	10	302	171	1,270	1,886	616	875
Graphite, ground and refined.	1927	13	289	341	1,319	2,932	1,612	3,011
	1925	11	228	278	1,328	2,569	1,241	2,927
	1914	11	250	181	723	1,724	1,001	2,602
Minerals and earths, ground or otherwise treated.	1927	245	8,270	9,833	17,625	41,260	23,635	116,909
	1925	250	8,762	9,832	17,165	42,381	25,216	127,649
	1914	244	4,707	2,485	4,561	10,307	5,746	44,667
Statuary and art goods, factory product.	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
	1914	190	1,988	1,583	842	3,910	3,068	781
Glass and manufactures of glass, total.	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	
	1914	1,165	85,753	55,294	59,173	149,720	90,547	172,772
Glass	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	80,036	213,471	127,435	
	1914	348	74,502	48,656	46,016	123,085	77,069	162,934
Glass cutting, staining, and ornamenting.	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
	1914	635	8,067	4,670	7,143	16,446	9,303	5,358
Mirrors, framed and unframed.	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
	1914	182	3,184	1,968	6,014	10,189	4,175	4,480
IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY								
Crude iron and steel and rolled products, total.	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	
	1914	587	278,072	210,923	855,406	1,236,319	380,913	3,925,869

For footnotes see p. 820.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
IRON AND STEEL, ETC.—Continued								
Iron and steel: Blast furnaces.	1927	116	27,958	44,258	579,555	708,904	129,349	(35)
	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	
	1914	160	29,356	22,781	264,580	317,654	53,074	1,222,273
Iron and steel: Steel works and rolling mills.	1927	486	361,312	601,275	1,689,655	2,779,840	1,090,185	[36] 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	
	1914	427	248,716	188,142	590,826	918,665	327,839	2,703,596
Other iron and steel products, total.	1927	5,744	446,231	618,872	1,275,698	2,710,508	1,434,810	1,541,979
	1925	5,473	451,356	624,042	1,304,972	2,748,773	1,443,801	1,375,072
	1923	5,760	467,747	627,827	1,280,890	2,666,903	1,386,013	1,259,334
	1921	5,627	317,585	376,829	774,169	1,554,960	780,787	
	1914	5,744	340,277	211,065	460,404	901,309	440,905	661,947
Bolts, nuts, washers, and rivets, not made in rolling mills.[37]	1927	115	13,614	17,324	38,302	75,876	37,574	69,403
	1925	127	13,907	17,942	38,507	75,926	37,419	59,767
	1914	102	10,658	5,961	12,913	23,403	10,490	28,885
Cast-iron pipe	1927	82	22,892	25,982	48,225	95,089	46,864	63,196
	1925	77	23,033	27,438	48,847	100,919	52,073	54,820
	1914	59	12,557	7,076	16,930	26,659	9,729	25,864
Doors, shutters, and window sash and frames, metal.	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
	1914	43	1,985	1,538	1,996	5,184	3,188	3,170
Forgings, not made in steel works or rolling mills.[37]	1927	209	15,399	23,258	51,635	103,672	52,037	126,887
	1925	218	20,290	31,313	68,081	134,511	66,429	120,014
	1914	191	10,689	7,487	14,611	28,961	14,350	36,543
Horseshoes, not made in rolling mills.[37]	1927	10	195	282	467	1,363	897	1,088
	1925	9	193	275	496	1,408	912	1,042
	1914	22	588	362	690	1,786	1,096	1,984
Nails, spikes, etc., not made in rolling mills.[37]	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
	1914	64	2,644	1,508	3,594	7,199	3,605	8,135
Springs, steel: Railway, vehicle, heavy machine, etc., not made in rolling mills.[37]	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
	1914	84	3,703	2,602	6,143	11,595	5,452	8,025
Steel barrels, kegs, and drums.[38]	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
	1923	39	2,668	3,363	14,818	23,249	8,431	7,907
	1921	31	2,013	2,323	9,267	14,525	5,258	
Structural and ornamental iron work, not made in rolling mills.[37]	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	
	1914	1,235	47,167	33,429	87,622	159,378	71,756	109,058
Iron and steel, processed.[38, 39]	1927	33	231	392	510	1,443	934	1,716
	1925	26	306	557	643	2,114	1,471	1,870
	1923	265	1,376	2,406	2,925	9,112	6,187	6,209
Wrought pipe, not made in rolling mills.[37]	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
	1914	36	8,845	5,750	26,296	37,655	11,359	17,532
Firearms	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
	1914	29	7,064	5,067	2,670	10,544	7,874	7,374
Galvanizing and other coating, not done in rolling mills.	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
	1914	48	1,580	922	6,293	8,480	2,187	2,335

For footnotes see p. 820.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
IRON AND STEEL, ETC.—Continued.								
Hardware, not elsewhere classified.	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	84,096
	1921	456	35,228	36,240	41,520	120,600	79,080	
	1914	597	43,724	23,831	30,861	77,360	46,499	56,839
Pens, steel and brass	1927	6	534	594	293	1,658	1,365	307
	1925	5	487	498	265	1,446	1,180	273
	1914	5	573	243	117	514	397	244
Plumbers' supplies, not including pipe or marble, slate, and vitreous china sanitary ware.	1927	231	29,245	40,212	55,633	148,879	93,246	90,203
	1925	239	33,280	46,954	63,610	167,878	104,268	84,534
	1914	260	18,479	11,703	18,670	43,386	24,716	28,112
Safes and vaults	1927	25	3,386	4,494	7,226	18,440	11,213	9,688
	1925	35	3,865	5,398	8,266	23,044	14,778	10,054
	1914	39	2,972	1,860	2,646	7,257	4,611	8,496
Screw-machine products.	1927	205	9,967	13,778	20,895	48,138	27,243	31,835
	1925	193	8,987	12,669	18,788	43,779	24,991	30,514
	1914	66	3,643	2,310	3,058	7,248	4,190	7,848
Screws, wood	1927	13	3,723	4,277	5,015	11,882	6,867	11,633
	1925	12	5,084	5,525	6,288	15,836	9,548	11,970
	1914	12	4,446	1,951	2,350	6,217	3,867	8,044
Steam fittings and steam and hot-water heating apparatus.	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	
	1914	295	26,388	16,738	26,921	63,922	37,001	38,362
Stoves and ranges (other than electric), and warm-air furnaces.	1927	564	45,180	64,327	93,096	258,286	165,190	100,609
	1925	564	46,514	66,299	95,873	264,303	168,430	94,126
	1914	551	37,325	25,865	33,955	89,390	55,435	49,055
Tin cans and other tinware, not elsewhere classified.[40]	1927	236	29,721	35,001	169,421	253,479	84,057	64,005
	1925	221	29,901	34,302	175,779	260,360	84,581	48,728
	1923	241	30,511	32,816	135,980	215,971	79,991	41,272
	1921	244	22,711	24,595	108,748	168,305	59,557	
	1914	294	22,584	12,217	53,841	81,931	28,090	17,865
Tools and cutlery: Cutlery (not including silver and plated cutlery) and edge tools.	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
	1914	252	16,561	9,076	8,186	25,541	17,355	34,665
Files	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
	1914	48	4,349	2,135	1,595	5,608	4,013	8,771
Saws	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
	1914	100	4,560	3,020	4,714	12,517	7,803	11,744
Other tools, not including machine tools.	1927	657	25,232	34,465	37,057	117,431	80,374	85,963
	1925	663	25,340	34,204	39,023	121,263	82,240	78,686
	1914	661	16,866	10,217	12,235	33,893	21,658	37,248
Vault, sidewalk, and floor lights, coal-hole covers, and ventilating equipment.[41]	1923	24	296	446	1,213	2,991	1,778	254
	1914	45	601	457	959	2,051	1,092	486
Wire, drawn from purchased bars or rods (excludes steel works and rolling mills).	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
	1914	54	17,600	11,021	56,424	81,841	25,417	83,900
Wirework, not elsewhere classified.	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
	1914	552	12,126	6,719	24,114	41,789	17,675	21,405

For footnotes see p. 820.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
NONFERROUS METALS AND THEIR PRODUCTS.								
Products for remanufacture, total.[1]	1927	1,336	80,721	116,243	458,029	705,126	247,097	483,832
	1925	1,267	79,488	113,574	486,301	721,386	235,085	431,605
	1923	1,266	83,359	111,866	448,267	679,182	230,915	372,603
	1921	1,125	51,668	60,085	186,949	297,455	110,506	
	1914	1,165	46,540	28,803	151,609	208,407	56,799	139,761
Aluminum manufactures.	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
	1914	37	4,614	2,611	14,421	19,598	5,177	12,297
Babbitt metal, white metal, type metal, and solder.	1927	64	1,087	1,534	36,784	44,673	7,889	3,597
	1925	67	1,465	2,221	44,081	50,650	6,569	3,907
	1914	109	1,035	701	15,652	19,180	3,528	2,881
Brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper, not elsewhere classified.[42]	1927	1,106	64,187	92,894	327,605	519,892	192,288	404,512
	1925	1,044	62,942	90,613	337,641	519,725	182,084	361,242
	1923	1,035	64,713	88,839	331,757	511,470	179,713	305,839
	1921	911	39,830	46,260	130,627	214,904	84,277	
	1914	992	40,306	25,084	115,487	162,199	46,712	121,974
Lead: Bar, pipe, and sheet.	1927	27	649	923	13,802	17,003	3,202	3,816
	1925	29	728	986	19,594	23,180	3,586	4,090
	1914	27	585	407	6,048	7,431	1,383	2,609
Smelting and refining, total.[1]	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	
	1914	250	37,774	31,258	629,704	737,629	107,924	273,551
Primary, total	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	84	34,889	51,123	825,549	947,352	121,803	444,903
	1921	80	18,580	24,401	364,277	422,972	58,694	
	1914	88	34,733	28,983	572,744	669,139	96,395	261,419
Copper	1927	26	13,924	20,582	527,764	609,299	81,535	323,799
	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	
	1914	37	17,731	16,149	379,157	444,022	64,865	194,980
Lead	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	
	1914	22	7,385	6,134	154,015	171,579	17,564	29,734
Zinc	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
	1914	29	9,617	6,700	39,573	53,538	13,965	36,705
Secondary, total	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
	1914	162	3,041	2,275	56,960	68,490	11,530	12,132
Gold, silver, and platinum, reducing and refining, not from ore.	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
	1914	78	456	391	25,709	28,588	2,879	2,061
Metals other than gold, silver, or platinum, not from the ore.	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
	1914	84	2,585	1,884	31,251	39,902	8,651	10,071
Metals not elsewhere classified.[43]	1923	4	257	387	4,541	5,382	841	1,144
	1921	5	434	748	4,055	7,060	3,005	
	1919	13	2,041	2,963	14,957	20,074	5,117	11,700

For footnotes see pp. 819 and 820.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
NONFERROUS METALS, ETC.—Con.								
Manufactures of metals.[1]	1927	5,094	155,737	213,608	387,315	877,418	490,103	254,325
	1925	5,419	158,610	212,415	390,283	867,878	477,595	242,869
	1923	5,961	171,960	221,202	401,978	882,975	480,997	235,789
	1921	6,454	139,687	168,359	279,469	618,264	338,795	
	1914	8,293	153,932	93,893	182,481	381,894	199,413	136,014
Bells [44]	1923	9	218	226	328	792	465	426
	1921	9	203	200	277	645	368	
	1914	12	445	244	438	970	532	787
Clocks, time-recording devices, and clock movements.	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
	1914	48	6,754	3,653	4,008	11,032	7,024	5,993
Watches and watch movements.	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
	1914	15	12,390	7,524	2,669	14,275	11,606	6,624
Watch and clock materials and parts, except watchcases.	1927	17	415	407	315	1,309	994	210
	1925	25	501	480	376	1,363	987	219
	1914	25	670	380	343	1,015	672	621
Watchcases	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
	1914	31	3,514	1,938	4,002	7,831	3,829	2,369
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.	1927	1,981	24,527	33,668	98,386	191,129	92,743	35,880
	1925	2,107	24,996	37,825	84,080	175,043	90,963	35,273
	1914	4,527	28,714	20,518	50,174	94,891	44,717	21,275
Fire extinguishers, chemical.	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
	1914	27	256	200	574	1,298	724	269
Stamped and enameled ware, not elsewhere classified.	1927	365	28,504	35,155	65,581	141,793	76,212	66,726
	1925	370	29,704	36,107	77,487	154,096	76,609	64,346
	1914	270	28,731	15,243	32,472	65,121	32,649	34,561
Gas and electric fixtures, lamps, lanterns and reflectors.	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
	1914	611	18,047	10,677	22,102	45,378	23,276	18,213
Needles, pins, hooks and eyes, and snap fasteners.	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
	1914	49	5,339	2,507	3,242	7,891	4,649	4,783
Gold and silver, leaf and foil.	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
	1914	79	1,135	498	1,452	2,432	980	360
Jewelry	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
	1914	1,914	28,289	18,302	39,116	81,006	41,890	13,862
Pens, gold	1927	8	137	198	444	732	288	80
	1925	13	226	299	589	1,115	526	121
	1914	12	246	174	302	642	340	138
Silversmithing and silverware.	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
	1914	108	7,070	4,795	8,275	19,786	11,511	7,899
Plated ware	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
	1914	72	8,717	5,001	8,304	18,484	10,180	10,494
Tin and other foils, not including gold and silver; collapsible tubes.	1927	27	3,642	4,002	22,454	32,302	9,848	21,619
	1925	26	3,618	4,001	21,342	30,060	8,719	18,712
	1914	14	1,031	528	3,672	5,068	1,396	2,458
Electroplating	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
	1914	479	2,584	1,713	1,336	4,773	3,437	5,308

For footnotes see pp. 819 and 820.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MACHINERY, EXCEPT TRANSPORTATION EQUIPMENT								
Agricultural implements.	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
	1914	601	48,459	34,593	73,509	164,087	90,578	121,256
Cash registers and calculating machines.	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
	1914	52	8,956	6,110	3,992	30,520	26,528	10,619
Electrical machinery, apparatus, and supplies.[45]	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	548,027	1,293,002	744,375	480,268
	1921	1,333	161,204	194,242	344,070	833,985	489,915	
	1914	1,030	118,078	73,806	154,728	335,170	180,442	226,320
Engines, turbines, and water wheels.	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	70,378	124,543	266,998	142,455	165,137
	1921	296	35,567	52,005	111,698	199,499	87,801	
	1914	446	29,657	21,421	31,460	72,121	40,661	62,106
Foundry and machine-shop products, not elsewhere classified.[46]	1927	8,318	397,814	591,065	872,790	2,259,794	1,387,004	1,538,856
	1925	8,154	397,838	590,801	883,708	2,232,986	1,349,278	1,424,259
	1923	8,531	448,777	642,431	936,231	2,337,073	1,400,842	1,234,326
	1921	9,013	321,363	412,359	653,364	1,565,527	912,163	
	1914	10,640	362,471	244,146	358,122	866,545	508,423	763,821
Gas machines and gas and water meters.	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
	1914	123	4,972	3,310	6,118	15,184	9,066	5,681
Machine tools[47]	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
	1919	403	53,111	66,179	59,034	212,400	153,366	100,294
Metal-working machinery (other than machine tools).[48]	1927	62	6,125	9,958	10,861	31,749	20,887	23,078
	1925	49	5,994	9,221	10,698	31,390	20,692	22,190
Pumps (hand and power) and pumping equipment.	1927	278	18,671	27,119	52,765	130,591	77,826	64,763
	1925	253	17,935	25,278	50,328	120,148	69,820	56,470
	1914	183	8,322	5,555	9,459	24,214	14,755	17,141
Refrigerators, mechanical.[45]	1927	22	11,285	17,712	42,651	96,514	53,862	40,034
Scales and balances	1927	60	3,906	5,461	7,454	24,655	17,202	8,766
	1925	71	4,262	5,783	7,349	27,237	19,888	9,771
	1914	83	4,467	2,934	3,174	9,734	6,560	6,187
Sewing machines, cases, and attachments.	1927	41	11,838	15,879	16,782	45,222	28,440	41,988
	1925	41	12,121	16,100	18,610	46,298	27,689	27,439
	1914	50	18,007	11,091	10,200	27,238	17,038	24,010
Textile machinery and parts.[46]	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
	1923	428	35,672	46,023	49,705	140,661	90,956	56,295
Typewriters and supplies.	1927	75	16,681	20,912	15,956	69,112	53,156	17,920
	1925	70	14,969	18,804	15,157	63,080	47,923	15,568
	1914	107	11,091	6,967	5,501	24,500	18,999	10,872
Washing machines, wringers, driers, and ironing machines for household use.	1927	75	7,789	10,950	34,528	74,951	40,423	20,697
	1925	82	7,077	9,990	32,748	69,568	36,820	18,028
	1914	111	2,302	1,221	4,149	7,600	3,451	4,898
Windmills and windmill towers.	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
	1914	31	1,955	1,252	2,555	5,496	2,941	3,997

For footnotes see p. 820.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TRANSPORTATION EQUIPMENT								
Motor vehicles, not including motor cycles.	1927	264	187,910	321,664	1,889,426	2,848,443	959,017	725,674
	1925	297	197,728	341,210	2,103,192	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	
	1914	300	79,307	66,934	292,598	503,230	210,632	104,963
Motor-vehicle bodies and motor-vehicle parts.	1927	1,213	181,489	291,291	641,307	1,151,426	510,120	551,659
	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	
	1914	971	47,785	34,993	63,610	129,601	65,991	67,912
Motor cycles, bicycles, and parts.	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
	1914	78	6,680	4,739	10,928	22,234	11,306	8,718
Carriages, wagons, sleighs, and sleds.[19]	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
	1923	396	8,109	9,319	18,683	37,373	18,690	26,509
	1921	837	8,025	9,903	16,884	33,114	16,230	
	1914	4,622	41,627	26,697	52,602	107,639	55,037	75,439
Carriage, wagon, sleigh, and sled materials.	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
	1914	456	11,087	6,059	13,546	24,850	11,303	38,195
Carriages and sleds, children's.	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
	1914	92	5,900	3,181	5,682	11,752	6,070	5,652
Aircraft and parts	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
	1914	16	108	135	134	790	656	195
Locomotives, not made in railroad repair shops.	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
	1914	19	17,391	11,085	23,546	43,374	19,828	50,373
Cars, electric and steam-railroad, not built in railroad repair shops.	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	
	1914	117	58,128	43,861	138,550	205,271	66,721	135,898
Ship and boat building, steel and wooden, including repair work.	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
	1914	1,147	44,489	32,931	38,597	88,682	50,085	115,114
RAILROAD REPAIR SHOPS								
Car and general construction and repairs, steam-railroad repair shops.	1927	1,794	397,088	600,517	515,070	1,205,191	690,120	1,037,404
	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	
	1914	1,362	339,518	234,505	243,829	514,041	270,212	433,904
Car and general construction and repairs, electric-railroad repair shops.	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
	1914	649	26,384	18,645	17,609	38,577	20,968	44,989
MISCELLANEOUS INDUSTRIES								
Musical instruments and phonographs, total.	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	
	1914	737	48,768	30,855	49,323	119,089	70,365	57,526

For footnotes see p. 820.

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Musical instruments and parts and materials, not elsewhere classified.	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
	1914	241	1,831	1,161	1,023	3,625	2,602	1,765
Organs	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
	1914	85	3,063	1,993	2,660	6,297	3,637	3,666
Pianos	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
	1914	255	23,877	15,705	29,091	62,775	33,684	25,838
Piano and organ materials.	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
	1914	138	10,616	5,655	9,502	19,876	10,374	14,569
Phonographs	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
	1914	18	9,381	6,341	7,048	27,116	20,068	11,688
Tobacco manufactures, total.	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	
	1914	13,951	178,872	77,856	207,134	490,165	283,032	34,756
Tobacco, chewing and smoking, and snuff.	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
	1923	206	16,301	12,739	146,374	222,966	76,592	18,621
	1921	226	16,628	12,742	156,477	241,741	85,264	
	1914	436	25,980	9,550	76,604	175,281	98,677	21,273
Cigars and cigarettes	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	
	1914	13,515	152,892	68,306	130,530	314,884	184,354	13,483
Other industries, total.	1927	11,781	268,682	364,375	863,878	1,919,919	1,056,041	686,429
	1925	11,209	261,228	336,062	828,476	1,806,967	978,491	596,547
	1923	11,295	271,227	333,168	790,459	1,678,830	888,372	570,037
	1921	10,838	223,077	267,034	612,186	1,296,820	684,633	
	1914	11,944	215,400	119,394	347,879	662,241	314,361	358,563
Artificial and preserved flowers and plants.	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
	1914	217	4,808	1,991	3,207	7,614	4,407	237
Artificial limbs	1927	130	592	908	720	3,216	2,495	1,001
	1925	123	562	794	627	3,021	2,394	955
	1914	153	488	369	316	1,498	1,182	589
Artists' and draftsmen's materials.	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
	1914	44	604	315	2,065	3,238	1,173	1,860
Brooms	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
	1914	868	5,642	2,624	7,884	14,085	6,201	4,495
Brushes, other than rubber.	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
	1914	359	7,213	3,461	9,327	17,894	8,567	6,298
Buttons	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
	1914	517	14,511	6,424	8,702	20,712	12,010	14,009

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Combs and hairpins, not made from metal or rubber.	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
	1914	66	2,773	1,393	2,853	5,478	2,625	2,453
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.	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
	1914	236	5,551	3,363	9,248	18,950	9,702	11,639
Dental goods including dental-laboratory work.	1927	342	5,674	6,998	21,928	42,695	20,767	4,341
	1925	326	5,303	6,132	21,124	38,769	17,645	4,366
	1914	172	3,080	1,616	10,715	16,160	5,445	1,874
Enameling and japanning.	1927	111	2,259	3,017	3,299	9,143	5,843	6,893
	1925	95	1,550	2,170	2,250	6,896	4,646	3,775
	1914	112	1,542	798	1,064	2,547	1,483	1,715
Fancy and miscellaneous articles, not elsewhere classified.	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
	1914	493	7,399	3,567	8,429	17,659	9,230	4,465
Feathers, plumes, and manufactures thereof.	1927	38	322	397	534	1,438	904	103
	1925	70	888	976	1,881	4,179	2,298	334
	1914	239	4,483	1,988	6,102	11,451	5,349	308
Foundry supplies	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
	1914	57	555	301	997	2,013	1,016	4,689
Fur goods	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	
	1914	1,322	9,030	6,335	23,847	43,633	19,786	3,225
Furs, dressed	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	9,853
	1914	96	1,525	923	906	2,875	1,969	2,207
Hair work	1927	69	515	598	830	2,279	1,449	21
	1925	85	804	975	3,046	6,090	3,043	13
	1914	205	1,193	581	1,529	3,335	1,806	68
Hand stamps and stencils and brands.	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
	1914	384	1,767	1,149	1,425	4,486	3,061	1,355
Hats, men's, straw	1927	48	3,263	4,232	11,783	21,718	9,935	1,554
	1925	83	5,920	5,823	15,178	28,154	12,976	3,541
	1914	149	9,483	5,253	14,086	25,444	11,358	5,144
Instruments, professional and scientific.	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
	1914	307	7,107	4,652	5,582	17,495	11,913	6,731
Ivory, shell, and bone work, not including buttons, combs, or hairpins.	1927	22	294	330	328	911	583	599
	1925	29	488	555	728	1,879	1,152	892
	1914	54	795	391	958	1,896	938	650
Jewelry and instrument cases.	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
	1914	125	2,393	1,094	1,450	3,621	2,171	1,012
Lapidary work	1927	92	547	1,221	9,133	12,352	3,218	513
	1925	83	589	1,285	7,273	10,123	2,850	515
	1914	89	584	641	3,941	5,360	1,419	534

No. 806.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Mattresses and bed springs, not elsewhere classified.	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
	1914	1,000	11,747	6,723	22,399	38,717	16,318	20,604
Models and patterns, not including paper patterns.	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
	1914	762	4,274	3,103	2,045	8,605	6,560	5,801
Motion pictures, not including projection in theaters.[59]	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
	1919	50	3,646	6,709	19,579	36,705	17,126	4,169
Optical goods	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
	1914	314	7,919	4,649	6,606	18,188	11,582	7,710
Paving materials, other than brick or granite.	1927	592	19,250	25,003	38,008	103,249	65,242	263,760
	1925	604	17,941	22,368	33,435	90,630	57,195	207,469
	1914	609	19,540	11,184	14,163	35,678	21,515	137,862
Pencils, lead	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
	1914	14	4,330	1,944	4,564	8,328	3,764	3,728
Pens, fountain and stylographic.	1927	54	3,360	3,943	9,638	23,255	13,617	3,334
	1925	60	3,490	4,055	7,741	24,035	16,295	3,213
	1914	55	1,154	718	1,614	6,865	5,251	1,157
Photographic apparatus and materials.	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	22,366
	1914	146	8,674	5,545	11,539	39,041	27,502	10,439
Pipes, (tobacco)	1927	23	1,897	2,279	2,723	7,274	4,551	1,928
	1925	28	1,970	2,291	2,718	7,299	4,581	2,052
	1914	47	2,354	1,188	2,308	4,220	1,912	1,641
Roofing materials, not including wood, slate, burnt tile, asbestos, or metal other than metal shingles and ceilings.	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
	1914	170	4,088	2,642	17,605	27,978	10,373	11,702
Sandpaper, emery paper, and other abrasive paper and cloth.	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
	1914	12	681	359	2,686	4,328	1,642	3,992
Signs and advertising novelties.	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
	1914	776	9,566	5,933	9,059	24,792	15,733	7,345
Soda-water apparatus	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
	1914	67	2,229	1,661	3,333	8,781	4,898	3,705
Sporting and athletic goods, not incl. firearms or ammunition.	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
	1914	162	5,602	2,771	6,952	13,235	6,283	4,116
Stationery goods, not elsewhere classified.	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
	1914	189	7,728	3,791	10,763	21,903	11,140	5,687
Steam and other packing, pipe and boiler covering, and gaskets, not made in textile mills.	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
	1914	149	4,213	2,525	8,176	14,213	6,037	17,165
Surgical appliances	1927	205	6,718	7,463	30,043	57,408	27,365	8,661
	1925	180	5,888	6,043	26,187	55,264	29,077	11,572
	1914	238	4,282	2,211	7,998	14,920	7,822	6,359

For footnotes see p. 820.

No. 806.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Theatrical scenery and stage equipment.	1927	39	561	1,380	2,330	5,745	3,415	998
	1925	33	391	854	1,520	3,578	2,058	413
	1914	7	88	89	125	327	202	65
Toys (not including children's wheel goods or sleds), games, and playground equipment.	1927	397	14,738	15,543	25,805	63,956	38,150	19,028
	1925	352	6,901	13,785	22,179	55,734	33,554	19,038
	1914	290	7,887	3,499	5,779	13,757	7,978	6,719
Umbrellas, parasols, and canes.	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
	1914	265	4,792	2,167	8,592	13,813	5,221	2,544
Whips	1927	7	90	89	176	310	135	252
	1925	9	103	73	132	308	176	158
	1914	40	1,163	559	1,341	3,162	1,821	1,071
Window shades and fixtures.	1927	336	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
	1914	286	4,077	2,181	11,889	17,444	5,555	6,594
All other industries [21]	1923	5	633	1,014	13,636	15,526	1,890	1,330
	1921	16	1,506	2,076	9,386	16,246	6,360	----------
	1914	82	6,486	4,720	64,062	76,504	12,442	11,900

[1] Because of a change in classification of some industries in this group for 1927 the figures for previous years have been revised to preserve comparability.

[2] No data were compiled for 1925 except for San Francisco, Calif.

[3] "Feeds, prepared, for animals and fowls," prior to 1927 was treated as a subclassification under "Food preparations, not elsewhere classified." Because of the transfer to this industry for 1927 of a certain class of establishments formerly classified under "Flour and other grain-mill products" the figures for earlier years are not comparable with those for 1927.

[4] "Lard substitutes and cooking fats" was treated as a subclassification under "Food preparations, not elsewhere classified," prior to 1927. The figures for 1927 are not comparable with those for earlier years because of transfer for 1927 to this industry classification of data for those establishments manufacturing, primarily, vegetable cooking oils, which data were to a large extent formerly included in those for "Oils, not elsewhere classified."

[5] For censuses prior to 1927 this industry was treated as a subclassification under "Food preparations, not elsewhere classified," but for 1927 it was treated as a separate industry.

[6] For censuses prior to 1927 this industry covered the manufacture of cereal preparations; prepared feeds for animals and fowls; lard substitutes; macaroni, spaghetti, etc.; and the treating of nuts (except peanuts). For 1927 separate industry classifications designate establishments engaged primarily in these activities, and accordingly the figures for prior years for the "Food preparations, not elsewhere classified," industry have been revised.

[7] For 1927 included in "Peanuts, walnuts, and other nuts, processed."

[8] 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.

[9] For 1914 reported as "Mineral and soda waters."

[10] The manufacture of asbestos textiles prior to 1925 treated as an industry in this group is now classified as a branch of the "Asbestos products, other than steam packing or pipe and boiler covering" industry, p. 808, therefore data have been excluded from statistics for textile-mill products for 1923 and earlier years.

[11] Because of a change in classification no comparable statistics can be given for prior years.

[12] The industry classification "Clothing, men's, youths', and boys', not elsewhere classified," for 1921 and 1914 includes men's work clothing, except shirts. For 1927, 1925, and 1923 statistics for this class of wearing apparel are shown separately as "Clothing, work (except shirts), men's."

[13] "Gloves and mittens, cloth" treated as a part of the "Furnishing goods, men's" industry for 1914; statistics for 1914 for the latter industry are therefore not strictly comparable with those for later years.

[14] "Handkerchiefs" and "Trimmings" 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," and data for "Trimmings" were included in "Millinery and lace goods."

[15] Included in the classification "Millinery and lace goods," which was abandoned at the census for 1927. No comparable figures can be given for earlier years.

[16] "Asphalted felt-base-floor coverings" included in "Linoleum" for 1914. Figures for "Linoleum" for 1914 are therefore not comparable with those for later years.

[17] Includes "Oakum" for 1914.

[18] Includes data for "Hammocks," heretofore treated as a separate industry.

[19] Classified in other industries for 1927 and 1925.

[20] No separate statistics prior to 1927.

[21] Combined total for paper and pulp.

[22] Not reported separately; included with paper.
[23] See footnote 24.
[24] "Rayon" included in "Chemicals, not elsewhere classified," for 1923 and prior years; compressed and liquefied gases included prior to 1927.
[25] The figures for 1925 differ from those previously published because of a change in the classification in 1927 of establishments manufacturing rubber cement as their principal product from this group to the "Rubber goods, other than tires, inner tubes, and boots and shoes" industry, in the "Rubber products" group. The figures for 1914 have not been revised and therefore are not strictly comparable with later years.
[26] Includes distilled liquors in 1914.
[27] At the census for 1921 the malt-liquor industry covered almost entirely the manufacture of cereal beverages ("Near beer" and similar soft drinks) and the data for that year have been included with those for "Beverages." (See p. 798.) The "Liquors, malt" industry has been abandoned as a separate classification.
[28] Included in "Rubber goods, other than tires, inner tubes, and boots and shoes" prior to 1921.
[29] Includes for all years "Belting and hose, rubber" formerly treated as a separate industry. For 1914 also includes, "Rubber tires and inner tubes."
[30] The figures for 1925 have been revised due to a counterbalance change in "Leather: Tanned, curried, and finished" and "Boot and shoe cut stock."
[31] The figures for 1925 and 1923 have been revised due to a change in the industries making up this subclass.
[32] The figures for 1927 and 1925 are not comparable with those for 1914 because of the inclusion in the earlier year of statistics for certain establishments manufacturing gloves of cloth and leather combined; for later years this class of establishments was included in the cloth-glove industry.
[33] Includes asbestos textiles, prior to 1925 classified as a separate industry.
[34] For 1914 "Millstones" are included in "All other industries," p. 819.
[35] Title prior to 1923 "Brick and tile, terra cotta, and fire-clay products."
[36] Included with "Steelworks and rolling mills."
[37] Similar products are manufactured to a large extent by steelworks and rolling mills. The figures here given refer only to establishments engaged primarily in the manufacture of the specified classes of products.
[38] Included in "Foundry and machine-shop products" for 1914. (See p. 814.)
[39] Data for establishments engaged in job welding are included in the figures for 1923 but are not included for 1927 and 1925, as job-welding establishments were not canvassed for those years.
[40] "Tin plate and terneplate" are treated as products of the "Iron and steel, steel works and rolling mills" industry.
[41] Classified in other industries subsequent to 1923.
[42] Figures for 1927 and 1925 include data for bells, shown as a separate industry under "Manufactures of metals" for previous years.
[43] No establishments were classified in this industry at the censuses for 1927, 1925, or 1914.
[44] Abandoned as a separate industry classification; statistics for 1927 and 1925 included with those for "Brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper, not elsewhere classified."
[45] Refrigerators, mechanical, for censuses prior to 1927 included in "Electrical machinery, apparatus, and supplies" and "Foundry and machine-shop products."
[46] "Foundry and machine-shop products, not elsewhere classified," include for 1914: "Iron and steel, processed," "Machine tools," "Steel barrels, kegs, and drums," and "Textile machinery and parts," data for which were not specifically called for at that census. (See also footnote 45.)
[47] Not classified separately prior to 1919. Included in "Foundry and machine-shop products."
[48] For censuses prior to 1925 not separately classified; included in "Foundry and machine-shop products."
[49] Data for establishments engaged solely in repair work are included for 1921 and 1914 but not for 1927, 1925, and 1923. The differences between the figures for 1923, 1921, and 1914 and those published in previous reports are due to the inclusion here and the exclusion from the previous reports of data for wheelbarrows.
[50] The figures for 1919 do not cover the entire industry and are not, therefore, comparable with those for later years.
[51] At the censuses for 1927 and 1925 it was possible to present statistics for every industry covered by the census classifications; but for the preceding census years it was necessary to combine the figures for certain unimportant industries in order to avoid disclosing operations of individual establishments.

Source: Bureau of the Census, Department of Commerce.

No. 807.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED: BY GEOGRAPHIC DIVISIONS AND STATES

NOTE.—Data for "Coffee and spice roasting and grinding" (not tabulated for 1925) are included in the figures for 1914, 1921, 1923, and 1927. Data for "automobile repairing" (not collected since 1919) and for "Poultry killing and dressing" (not collected for 1927) 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. No data for establishments with products valued at less than $5,000 are included in the statistics for 1921 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. Statistics for horsepower were not collected for 1921

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
United States	1927	191,866	8,349,755	10,848,803	35,133,137	62,718,347	27,585,210	38,825,681
	1925	187,224	8,381,511	10,727,338	35,896,886	62,668,260	26,771,373	35,766,944
	1923	196,182	8,776,846	11,007,851	34,683,915	60,529,574	25,845,659	33,092,222
	1921	196,098	6,944,315	8,200,359	25,291,734	43,618,566	18,326,832	----------
	1914	176,997	6,894,846	4,067,096	14,267,137	23,974,957	9,707,820	22,288,669
New England	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
	1921	19,057	1,071,699	1,161,291	2,521,634	4,902,508	2,380,874	----------
	1914	25,193	1,140,233	628,409	1,057,674	2,926,675	1,269,001	3,098,836
Middle Atlantic	1927	62,276	2,467,791	3,491,680	10,488,832	19,533,075	9,044,243	10,968,754
	1925	58,894	2,491,035	3,434,606	10,682,119	19,469,206	8,727,086	10,106,390
	1923	66,004	2,694,015	3,595,211	11,124,014	19,738,280	8,614,265	9,627,810
	1921	67,176	2,246,089	2,770,713	8,131,944	14,587,831	6,455,888	----------
	1914	85,466	2,355,940	1,370,131	4,680,993	8,953,644	3,372,651	6,641,348
East North Central	1927	43,671	2,309,860	3,340,801	10,525,393	18,988,400	8,463,007	11,056,846
	1925	42,857	2,335,335	3,345,354	10,756,307	19,016,851	8,260,544	10,046,917
	1923	43,948	2,386,791	3,333,375	10,162,499	17,817,291	7,654,791	9,033,225
	1921	43,503	1,710,418	2,211,699	6,871,575	11,797,244	4,925,669	----------
	1914	59,896	1,680,281	1,072,538	3,795,039	6,542,261	2,747,222	5,391,978
West North Central	1927	16,192	448,192	550,698	3,170,989	4,733,112	1,562,123	2,033,074
	1925	16,181	451,008	550,974	3,192,756	4,696,380	1,503,624	1,851,114
	1923	16,535	468,646	562,901	2,834,116	4,281,956	1,447,840	1,704,192
	1921	17,247	383,357	575,054	2,361,639	3,485,107	1,123,468	----------
	1914	27,199	381,595	235,471	1,397,841	2,032,192	634,352	1,235,147
South Atlantic	1927	17,029	879,060	794,265	2,487,871	4,631,952	2,144,081	3,805,038
	1925	16,570	838,799	757,015	2,548,720	4,531,307	1,982,587	3,517,308
	1923	17,044	831,992	729,328	2,438,201	4,237,727	1,799,525	3,143,936
	1921	16,427	646,170	564,904	1,739,105	2,984,347	1,245,242	----------
	1914	28,925	685,252	293,063	1,003,068	1,682,999	679,931	2,266,238
East South Central	1927	7,637	359,542	331,280	1,025,122	1,808,818	783,696	1,787,386
	1925	8,071	355,902	322,615	1,041,046	1,807,034	765,988	1,614,945
	1923	7,500	347,150	310,319	987,113	1,701,561	714,448	1,461,574
	1921	7,240	259,073	225,235	642,525	1,091,660	449,136	----------
	1914	14,410	264,378	117,987	387,011	700,668	313,657	1,156,654
West South Central	1927	8,208	267,142	281,156	1,644,155	2,399,410	755,255	1,419,558
	1925	7,876	264,970	267,691	1,719,519	2,543,225	823,706	1,316,629
	1923	7,942	267,042	265,272	1,374,691	2,080,207	705,516	1,227,242
	1921	8,090	229,508	238,006	1,149,033	1,723,055	574,021	----------
	1914	12,417	211,940	116,129	526,907	802,538	275,631	964,470
Mountain	1927	3,919	94,957	130,304	659,600	981,091	321,490	829,256
	1925	3,844	100,353	134,567	687,992	1,045,885	357,893	757,906
	1923	3,970	103,803	143,392	609,141	955,772	346,632	714,807
	1921	4,016	82,000	118,577	396,215	616,843	220,629	----------
	1914	6,079	81,113	66,358	272,215	437,568	165,353	459,516
Pacific	1927	15,189	424,463	599,969	2,082,311	3,614,013	1,531,702	2,359,614
	1925	14,758	414,985	575,207	2,040,494	3,454,286	1,413,792	2,269,714
	1923	14,155	420,454	591,352	1,850,861	3,256,822	1,405,961	1,886,942
	1921	13,333	316,001	432,920	1,478,065	2,429,971	951,906	----------
	1914	16,206	235,515	178,247	647,342	1,067,889	420,548	1,093,002
New England: Maine	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
	1921	1,761	75,710	83,429	192,102	339,562	147,459	----------
	1914	3,378	82,149	43,254	117,655	200,450	82,795	486,032

No. 807.—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, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
New England—Contd.								
New Hampshire	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	376,740
	1923	1,078	75,314	79,074	185,754	333,125	147,370	352,656
	1921	1,122	67,416	67,893	139,269	246,346	107,078	
	1914	1,736	78,993	40,642	114,993	182,844	67,851	340,605
Vermont	1927	880	26,241	32,305	69,957	134,080	64,073	172,762
	1925	951	27,563	32,326	74,387	138,270	63,882	178,806
	1923	1,021	30,783	34,695	80,776	149,952	69,176	177,212
	1921	1,101	25,767	28,068	63,689	113,904	50,216	
	1914	1,772	32,704	18,617	42,706	76,991	34,285	171,738
Massachusetts	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	667,172	799,363	1,835,013	3,570,543	1,735,530	1,931,787
	1921	9,994	579,071	641,361	1,441,035	2,849,414	1,408,378	
	1914	12,013	606,698	341,310	931,384	1,641,373	709,989	1,380,912
Rhode Island	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
	1921	1,759	112,745	119,414	277,693	517,118	239,425	
	1914	2,190	113,425	59,366	162,425	279,546	117,121	266,884
Connecticut	1927	2,877	240,806	304,504	596,014	1,284,730	688,724	847,395
	1925	3,062	242,362	301,200	612,642	1,274,952	662,309	790,087
	1923	3,130	263,232	314,829	612,961	1,288,281	675,320	727,021
	1921	3,320	210,990	221,126	407,846	836,164	428,318	
	1914	4,104	226,264	125,220	288,511	545,472	256,961	452,665
Middle Atlantic:								
New York	1927	36,650	1,072,284	1,605,378	4,804,173	9,400,061	4,595,889	3,671,185
	1925	33,392	1,066,198	1,533,889	4,704,751	8,968,262	4,263,512	3,348,184
	1923	38,183	1,150,889	1,581,322	4,764,027	8,959,964	4,195,938	3,263,325
	1921	38,102	1,000,399	1,303,387	3,686,851	6,972,679	3,285,829	
	1914	48,203	1,057,857	631,042	2,108,607	3,814,661	1,706,054	2,321,817
New Jersey	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
	1921	8,784	381,773	460,471	1,484,334	2,556,143	1,071,808	
	1914	9,742	373,605	211,136	883,465	1,406,633	523,168	783,706
Pennsylvania	1927	17,314	987,414	1,315,993	3,728,062	6,715,563	2,987,502	5,800,634
	1925	17,298	999,460	1,324,481	3,890,514	6,901,762	3,011,248	5,373,972
	1923	19,054	1,695,057	1,434,963	4,320,510	7,381,688	3,061,178	5,107,593
	1921	20,290	863,917	1,006,856	2,960,759	5,059,009	2,098,250	
	1914	27,521	924,478	527,953	1,688,921	2,832,349	1,143,428	3,535,825
East North Central:								
Ohio	1927	10,961	669,097	968,181	2,877,126	5,230,323	2,353,197	3,734,761
	1925	11,131	676,661	975,738	3,028,002	5,345,593	2,317,591	3,482,583
	1923	11,186	699,073	979,606	2,908,096	5,145,180	2,237,084	3,307,687
	1921	11,466	494,134	626,885	1,916,968	3,298,138	1,381,170	
	1914	15,658	510,435	317,924	1,020,782	1,782,808	762,026	1,985,950
Indiana	1927	4,726	280,717	375,218	1,227,169	2,153,479	926,311	1,602,113
	1925	4,762	280,633	364,789	1,254,852	2,121,382	866,530	1,420,496
	1923	4,960	291,000	374,383	1,188,542	2,029,859	841,317	1,381,686
	1921	5,094	206,310	251,286	824,235	1,375,066	550,832	
	1914	8,022	197,503	119,258	423,857	730,795	306,938	707,982
Illinois	1927	14,711	623,468	914,103	2,921,092	5,386,003	2,464,911	2,456,997
	1925	14,104	622,127	897,729	2,922,438	5,317,636	2,395,198	2,247,083
	1923	14,334	645,561	913,160	2,793,595	5,039,880	2,246,285	1,942,418
	1921	13,935	513,741	701,385	2,096,770	3,703,050	1,606,280	
	1914	18,388	506,943	340,910	1,340,183	2,247,323	907,140	1,294,421
Michigan	1927	5,800	488,856	760,602	2,346,678	4,244,941	1,898,263	2,214,747
	1925	5,598	508,573	792,214	2,466,267	4,372,996	1,906,729	1,887,740
	1923	5,696	503,306	769,066	2,270,764	3,882,174	1,611,409	1,471,545
	1921	5,717	304,463	419,963	1,305,661	2,206,129	900,468	
	1914	8,724	271,090	182,252	592,801	1,086,162	493,361	726,777

No. 807.—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, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
East North Central—Continued.								
Wisconsin	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	7,332	247,851	297,160	1,001,502	1,720,198	718,696	920,889
	1921	7,291	191,770	214,141	727,941	1,214,861	486,920	
	1914	9,104	194,310	112,193	417,415	695,172	277,757	676,848
West North Central:								
Minnesota	1927	3,886	98,833	123,619	726,301	1,066,727	340,336	584,328
	1925	3,881	100,514	123,656	768,798	1,099,688	330,889	507,928
	1923	3,894	103,935	125,505	646,710	962,084	315,375	460,114
	1921	4,080	85,760	107,201	584,460	849,199	264,738	
	1914	5,974	92,834	58,507	336,849	493,354	156,505	358,163
Iowa	1927	3,061	73,692	91,247	496,940	769,341	272,401	330,702
	1925	3,219	74,258	91,517	489,901	746,330	256,429	306,188
	1923	3,381	77,339	93,700	427,374	681,680	254,306	281,533
	1921	3,472	61,463	77,789	329,083	510,034	180,951	
	1914	5,614	63,113	39,860	205,451	310,750	105,299	189,800
Missouri	1927	5,422	195,378	230,017	1,004,709	1,605,173	660,464	656,269
	1925	5,100	194,682	230,428	976,783	1,602,850	626,067	589,806
	1923	5,283	196,601	227,893	941,847	1,544,378	602,531	553,247
	1921	5,433	156,309	182,816	726,278	1,159,876	433,598	
	1914	8,386	152,182	89,197	388,715	637,952	249,237	389,376
North Dakota	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
	1921	388	3,107	4,669	26,265	36,358	10,093	
	1914	609	3,275	2,416	14,484	21,147	6,663	13,980
South Dakota	1927	472	5,551	6,786	63,620	83,001	19,381	24,676
	1925	502	5,107	6,172	45,324	62,702	16,377	21,347
	1923	489	5,146	6,211	33,673	47,321	13,648	16,458
	1921	574	4,635	6,350	26,846	41,558	14,711	
	1914	898	3,788	2,628	17,079	24,139	7,060	16,324
Nebraska	1927	1,277	26,110	34,296	326,917	420,296	93,379	141,506
	1925	1,303	27,108	35,936	347,445	442,084	94,639	133,303
	1923	1,378	31,238	39,732	313,782	414,725	100,944	120,999
	1921	1,387	27,548	37,275	244,938	331,951	87,013	
	1914	2,492	25,144	16,893	174,114	221,616	47,502	89,258
Kansas	1927	1,767	45,368	59,925	518,141	681,570	163,429	279,426
	1925	1,856	46,078	58,691	531,198	698,096	166,898	275,831
	1923	1,770	50,835	64,721	440,026	589,623	149,596	255,111
	1921	1,913	44,525	58,955	423,767	556,131	132,364	
	1914	3,136	41,259	25,970	261,148	323,234	62,086	178,246
South Atlantic:								
Delaware	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
	1921	460	17,754	19,596	50,118	86,756	36,638	
	1914	808	22,155	11,382	31,649	56,035	24,386	64,324
Maryland	1927	3,205	126,700	141,903	564,120	943,411	379,290	579,713
	1925	3,179	125,761	138,560	568,108	925,688	357,580	544,558
	1923	3,163	128,802	136,255	568,605	902,936	334,331	497,945
	1921	3,120	107,049	110,446	386,064	636,640	250,576	
	1914	4,797	111,585	53,792	238,972	377,749	138,777	262,199
Dist. of Columbia	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
	1921	490	8,640	12,955	30,261	67,640	37,379	
	1914	514	8,877	6,069	12,239	28,978	16,739	24,745
Virginia	1927	2,432	114,918	110,378	346,166	671,347	325,181	503,726
	1925	2,552	112,126	105,881	314,524	589,236	274,712	441,795
	1923	2,743	111,578	104,680	304,493	548,153	243,661	431,237
	1921	2,569	88,554	85,062	268,918	454,233	185,316	
	1914	5,508	102,820	44,873	155,320	264,039	108,719	337,567

No. 807.—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, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
South Atlantic—Contd.								
West Virginia	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
	1921	1,550	60,536	78,549	170,876	310,423	139,547	
	1914	2,749	71,078	43,784	110,033	193,512	83,479	278,219
North Carolina	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	800,051
	1923	2,670	173,687	127,538	516,149	951,911	435,762	702,832
	1921	2,602	135,833	94,235	379,965	665,118	285,153	
	1914	5,507	136,844	46,038	169,942	289,412	119,470	506,352
South Carolina	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
	1921	1,107	76,251	51,410	141,902	236,421	94,519	
	1914	1,885	71,824	24,173	91,009	138,891	47,882	335,710
Georgia	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
	1921	2,809	98,264	69,916	243,939	381,297	137,357	
	1914	4,639	104,461	38,128	160,089	253,271	93,182	357,130
Florida	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
	1921	1,720	53,289	42,734	67,063	145,821	78,758	
	1914	2,518	55,608	24,822	33,816	81,112	47,296	99,992
East South Central:								
Kentucky	1927	1,851	74,912	83,859	250,633	447,765	197,132	318,755
	1925	1,860	76,562	84,940	254,933	453,731	198,798	257,965
	1923	1,965	76,697	82,626	242,067	426,669	184,602	251,554
	1921	2,028	58,808	62,613	173,286	302,290	129,004	
	1914	4,184	64,586	31,830	114,829	230,249	115,420	237,802
Tennessee	1927	2,098	114,968	101,198	351,436	614,041	262,604	475,243
	1925	2,157	107,570	95,201	356,841	600,026	243,186	447,291
	1923	2,304	106,481	92,469	333,492	554,581	221,089	391,435
	1921	2,241	75,295	65,677	224,598	372,478	147,880	
	1914	4,775	74,373	33,083	123,430	212,071	88,641	286,844
Alabama	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
	1921	1,855	82,748	66,747	186,407	302,809	116,401	
	1914	3,242	78,717	33,897	107,411	178,798	71,386	445,604
Mississippi	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
	1921	1,116	42,222	30,197	58,234	114,084	55,850	
	1914	2,209	46,702	19,177	41,340	79,550	38,210	186,404
West South Central:								
Arkansas	1927	1,146	40,032	35,288	103,815	182,751	78,936	183,041
	1925	1,257	43,977	37,538	110,605	195,208	84,543	177,011
	1923	1,231	44,545	37,770	90,709	172,541	81,832	165,154
	1921	1,289	33,431	27,804	64,677	119,029	54,353	
	1914	2,604	41,979	20,752	44,907	83,941	39,034	177,106
Louisiana	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
	1921	1,851	85,170	76,761	311,589	479,100	167,510	
	1914	2,211	77,665	39,544	157,886	255,313	97,427	354,765
Oklahoma	1927	1,373	27,932	35,785	269,418	371,718	102,300	185,480
	1925	1,274	26,163	34,036	298,522	400,292	101,770	156,608
	1923	1,239	25,444	33,036	229,685	314,459	84,774	152,956
	1921	1,396	22,230	29,514	203,204	283,061	79,857	
	1914	2,518	17,443	11,011	70,970	102,006	31,036	97,103

No. 807.—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, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
West South Central—Continued.								
Texas	1927	4,065	116,763	130,409	842,927	1,206,580	363,653	635,455
	1925	3,603	106,772	116,354	844,906	1,237,675	392,769	572,712
	1923	3,691	102,334	111,436	646,883	978,524	331,641	506,194
	1921	3,563	88,677	103,927	569,563	841,864	272,302	
	1914	5,084	74,853	44,821	253,144	361,279	108,135	335,496
Mountain:								
Montana	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
	1921	571	11,384	16,791	49,166	80,771	31,605	
	1914	939	13,704	13,001	46,744	84,446	37,702	91,671
Idaho	1927	470	13,513	18,971	47,927	86,256	38,329	89,830
	1925	487	15,782	20,698	52,857	96,642	43,785	82,497
	1923	510	16,347	22,886	43,134	87,429	44,295	72,146
	1921	485	10,783	15,183	36,057	57,067	21,010	
	1914	698	8,919	7,491	14,892	28,454	13,562	50,297
Wyoming	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
	1921	254	7,254	13,890	48,320	80,247	31,926	
	1914	337	2,989	2,312	5,559	11,223	5,664	10,004
Colorado	1927	1,483	32,001	43,194	173,277	278,221	104,944	254,530
	1925	1,414	31,958	43,002	171,128	278,693	107,565	219,852
	1923	1,377	31,226	40,653	150,003	255,190	105,097	176,076
	1921	1,491	27,625	38,611	147,249	221,324	74,076	
	1914	2,126	27,278	20,200	89,756	136,839	47,083	162,701
New Mexico	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	10,463	16,863
	1921	194	4,477	4,880	6,159	13,897	7,738	
	1914	368	3,776	2,695	4,430	9,320	4,890	12,468
Arizona	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
	1921	269	4,774	6,809	26,495	39,110	12,615	
	1914	322	6,898	6,229	39,283	64,090	24,807	54,095
Utah	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
	1921	645	13,310	18,392	74,873	111,055	36,183	
	1914	1,109	13,894	10,852	62,283	87,112	24,879	59,536
Nevada	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
	1921	107	2,393	4,020	7,896	13,371	5,475	
	1914	180	3,655	3,578	9,317	16,083	6,766	18,744
Pacific:								
Washington	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	748,110
	1923	3,029	111,663	156,435	372,044	678,543	306,499	593,330
	1921	2,908	77,518	99,191	259,685	448,165	188,479	
	1914	3,829	67,205	51,703	136,609	245,326	108,717	389,344
Oregon	1927	1,779	57,179	75,717	187,771	342,852	155,081	339,511
	1925	1,907	59,563	78,190	193,457	352,764	159,306	387,749
	1923	1,909	62,655	81,769	195,922	363,715	167,794	322,297
	1921	1,730	40,167	49,305	123,670	223,664	99,994	
	1914	2,320	28,829	20,932	63,258	109,762	46,504	214,165
California	1927	10,066	262,816	378,321	1,504,655	2,593,247	1,088,592	1,339,695
	1925	9,635	249,529	350,792	1,474,278	2,442,183	967,905	1,133,855
	1923	9,217	245,136	353,149	1,282,895	2,214,563	931,668	971,315
	1921	8,695	198,316	284,333	1,094,710	1,758,142	663,432	
	1914	10,057	139,481	105,613	447,475	712,801	265,326	489,493

Source: Bureau of the Census, Department of Commerce.

No. 808.—MANUFACTURES IN CITIES HAVING

NOTE.—All figures except number of wage earners in thousands of dollars. Data for the "Automobile but not in those for later years. Data for the "Coffee and spice roasting and grinding" industry are compiled. See also general note, p. 791

City and State	Wage earners (average for the year)				Wages (thousands of dollars)			
	1914	1923	1925	1927	1914	1923	1925	1927
Akron, Ohio	24,680	44,903	52,546	53,008	17,310	71,284	80,476	85,731
Albany, N. Y.	9,371	10,542	9,609	9,378	5,635	13,823	12,383	13,030
Atlanta, Ga.	12,585	16,005	18,208	18,583	6,004	16,116	17,643	17,674
Baltimore, Md.	73,769	90,208	85,771	84,005	35,509	93,667	93,582	93,404
Birmingham, Ala.	10,863	14,817	16,054	16,611	6,505	16,595	18,120	18,966
Boston, Mass.	78,894	82,978	77,334	77,149	49,444	107,875	103,812	104,852
Bridgeport, Conn.	30,042	33,207	28,763	28,415	16,929	37,882	34,904	36,615
Buffalo, N. Y.	54,416	70,054	66,015	63,615	34,818	96,573	96,000	95,126
Cambridge, Mass.	16,749	25,674	21,945	20,929	10,217	30,999	27,409	26,334
Camden, N. J.	22,541	27,842	22,700	26,712	12,978	33,413	29,175	35,799
Chicago, Ill.	313,710	385,685	370,041	372,061	213,737	571,725	563,635	576,159
Cincinnati, Ohio	59,861	65,665	63,715	62,493	33,159	78,724	80,996	79,701
Cleveland, Ohio	103,317	141,648	132,852	131,146	67,351	205,388	201,378	201,092
Columbus, Ohio	17,236	27,618	24,590	24,228	11,177	37,236	33,272	32,482
Dallas, Tex.	5,284	8,143	9,412	9,459	3,464	9,420	11,104	10,471
Dayton, Ohio	24,061	29,665	29,341	30,218	14,076	41,779	43,665	44,392
Denver, Colo.	11,062	15,629	15,077	15,054	7,942	19,942	19,971	19,458
Des Moines, Iowa	5,306	9,558	8,007	7,253	3,560	12,665	11,456	9,592
Detroit, Mich.	99,603	171,025	172,742	189,649	69,447	282,741	293,896	318,096
Fall River, Mass.	36,834	37,018	30,596	31,489	16,131	35,509	28,241	29,342
Fort Worth, Tex.	2,308	6,249	6,968	7,419	1,542	7,558	8,492	9,079
Grand Rapids, Mich.	17,427	24,033	25,479	24,449	10,296	32,669	36,294	35,420
Hartford, Conn.	17,137	23,611	21,758	22,038	11,312	30,354	29,858	29,930
Houston, Tex.	5,607	9,242	9,007	12,044	3,590	11,851	10,805	14,909
Indianapolis, Ind.	30,971	45,818	41,805	42,136	19,042	54,364	51,394	54,969
Jersey City, N. J.	31,021	33,264	30,607	24,732	17,651	44,736	42,496	36,340
Kansas City, Kans.	13,695	16,264	14,137	13,509	8,176	19,460	17,575	18,397
Kansas City, Mo.	16,252	22,956	25,576	25,486	10,504	29,118	32,884	32,147
Los Angeles, Calif.	23,744	55,467	58,026	66,608	18,277	81,468	85,736	99,845
Louisville, Ky.	25,930	37,620	37,672	34,366	14,196	42,145	43,355	39,822
Lowell, Mass.	29,904	27,162	21,570	18,787	14,002	28,256	21,179	18,886
Memphis, Tenn.	8,389	10,508	9,988	9,435	4,901	10,836	11,319	10,130
Milwaukee, Wis.	61,839	74,590	77,432	86,550	36,270	93,424	105,123	120,806
Minneapolis, Minn.	28,295	33,462	31,730	34,065	18,895	41,163	40,311	43,057
Nashville, Tenn.	8,573	11,685	10,549	12,975	4,321	10,735	9,691	12,776
New Bedford, Mass.	33,343	37,917	35,696	35,084	16,558	41,146	37,100	36,389
New Haven, Conn.	24,993	26,108	22,863	25,096	14,462	30,648	28,464	31,136
New Orleans, La.	17,348	21,575	22,118	22,289	8,538	18,737	20,291	21,645
New York, N. Y.	585,279	579,005	538,845	552,507	357,498	851,186	844,548	904,646
Newark, N. J.	63,084	70,066	66,854	62,727	36,647	89,465	89,640	89,568
Norfolk, Va.	5,263	5,083	5,429	4,556	2,258	5,875	5,990	5,257
Oakland, Calif.	7,706	15,027	15,537	15,867	5,966	21,096	21,654	23,174
Omaha, Nebr.	8,922	18,142	15,463	14,780	5,810	23,195	21,048	19,644
Paterson, N. J.	30,925	33,247	33,779	32,354	16,195	41,277	45,003	45,826
Philadelphia, Pa.	251,286	274,319	246,680	243,608	138,249	356,438	332,415	334,811
Pittsburgh, Pa.	69,620	76,665	65,414	61,892	45,068	110,466	94,458	89,039
Portland, Oreg.	11,273	21,534	20,077	20,318	8,542	28,244	26,736	27,214
Providence, R. I.	44,176	45,495	41,207	42,735	24,482	52,970	49,710	50,818
Reading, Pa.	24,131	28,712	27,247	26,383	11,885	34,775	32,748	31,712
Richmond, Va.	17,282	18,833	18,137	19,351	8,440	18,995	17,961	19,094
Rochester, N. Y.	44,113	58,649	52,589	56,685	26,600	77,646	73,406	80,316
St. Louis, Mo.	85,058	113,253	105,022	109,428	51,150	135,468	130,857	134,915
St. Paul, Minn.	19,483	22,841	23,664	21,449	12,796	29,108	30,701	28,163
Salt Lake City, Utah	4,931	6,224	4,898	4,709	3,801	7,509	5,876	5,955
San Antonio, Tex.	4,083	5,581	5,440	6,363	2,412	5,335	5,367	6,385
San Francisco, Calif.	31,758	43,638	41,720	41,909	25,289	61,376	61,040	61,134
Scranton, Pa.	12,559	13,093	12,578	11,115	6,040	13,537	13,697	12,311
Seattle, Wash.	12,429	17,842	19,220	20,601	9,935	25,323	27,610	29,623
Spokane, Wash.	3,020	4,580	6,098	5,678	2,465	5,973	7,981	7,617
Springfield, Mass.	14,240	19,089	17,693	16,782	9,350	23,965	23,189	22,012
Syracuse, N. Y.	17,551	23,921	23,086	22,562	11,031	31,631	31,118	32,196
Toledo, Ohio	27,076	41,613	37,269	38,727	18,124	57,537	57,451	57,049
Trenton, N. J.	19,828	24,045	22,322	19,965	11,134	30,913	30,135	25,887
Washington, D. C.	8,877	9,823	9,753	9,519	6,069	14,796	15,320	15,669
Wilmington, Del.	15,048	14,993	13,549	13,993	8,674	19,041	17,057	17,926
Worcester, Mass.	29,452	36,449	31,142	30,377	17,633	47,244	42,330	41,268
Yonkers, N. Y.	12,650	14,005	12,662	13,414	6,455	18,803	17,677	18,511
Youngstown, Ohio	15,861	20,516	19,215	18,566	12,349	35,202	33,682	31,494

[1] Data not available for 1923.

IN 1920, 100,000 OR MORE INHABITANTS

repairing" and the "Poultry killing and dressing" industries have been included in the figures for 1914 not included in the figures for 1925, except for San Francisco, the only city for which these statistics were

Value of products				Value added by manufacture			City and State
1914	1923	1925	1927	1914	1925	1927	
122,292	406,837	565,391	567,482	56,230	234,796	252,035	Akron, Ohio.
25,211	53,026	52,178	58,185	13,811	26,972	30,533	Albany, N. Y.
41,279	122,284	131,237	115,830	18,162	59,193	51,488	Atlanta, Ga.
215,172	654,256	678,384	692,575	94,639	259,304	266,655	Baltimore, Md.
43,144	89,423	100,204	109,039	17,632	46,518	48,791	Birmingham, Ala.
284,802	553,600	585,992	617,973	134,234	295,722	310,021	Boston, Mass.
85,126	148,856	149,098	158,697	40,394	80,562	87,360	Bridgeport, Conn.
247,516	590,692	675,436	649,302	89,520	244,903	246,696	Buffalo, N. Y.
57,484	185,524	165,833	155,477	25,949	89,182	90,749	Cambridge, Mass.
71,824	180,766	164,051	196,860	35,730	81,703	99,146	Camden, N. J.
1,483,498	3,323,341	3,439,163	3,478,754	581,565	1,557,016	1,588,906	Chicago, Ill.
210,860	433,469	457,539	437,954	96,753	216,410	216,342	Cincinnati, Ohio.
352,418	1,096,503	1,094,780	1,040,754	153,925	494,888	484,236	Cleveland, Ohio.
57,608	186,843	178,289	169,068	26,972	80,612	82,211	Columbus, Ohio.
31,065	92,189	112,158	98,009	11,495	42,961	37,511	Dallas, Tex.
71,071	187,934	206,104	235,166	38,117	122,839	144,537	Dayton, Ohio.
46,982	120,790	125,763	116,748	18,946	53,232	48,068	Denver, Colo.
23,747	102,919	83,624	76,108	11,472	40,218	35,558	Des Moines, Iowa.
400,348	1,438,247	1,599,340	1,736,933	178,099	693,169	778,423	Detroit, Mich.
64,663	172,396	134,495	120,324	27,502	47,790	49,638	Fall River, Mass.
9,974	75,163	100,329	109,637	4,142	24,496	26,890	Fort Worth, Tex.
49,792	130,278	145,706	135,254	25,797	81,742	80,576	Grand Rapids, Mich.
42,831	101,894	109,678	111,089	25,187	64,248	69,953	Hartford, Conn.
25,868	80,134	87,445	102,154	9,744	36,573	41,952	Houston, Tex.
139,700	346,858	344,925	345,815	48,636	141,486	145,715	Indianapolis, Ind.
164,528	313,999	340,735	270,842	52,746	139,235	111,347	Jersey City, N. J.
159,760	262,447	288,545	296,646	20,433	48,913	51,266	Kansas City, Kans.
60,953	196,674	221,349	222,136	28,972	93,833	95,572	Kansas City, Mo.
103,458	417,654	531,827	610,539	44,517	256,337	304,370	Los Angeles, Calif.
105,223	240,538	263,693	242,696	49,624	113,870	108,770	Louisville, Ky.
56,049	100,998	81,136	69,171	22,945	37,574	35,104	Lowell, Mass.
39,133	95,537	108,877	91,670	16,128	40,210	34,147	Memphis, Tenn.
223,555	514,591	541,912	627,416	98,679	250,025	296,505	Milwaukee, Wis.
187,854	338,329	338,824	348,417	56,655	117,440	130,731	Minneapolis, Minn.
33,276	83,042	79,331	94,435	13,915	31,957	40,245	Nashville, Tenn.
65,575	149,999	143,551	125,542	28,001	63,471	60,656	New Bedford, Mass.
57,752	113,925	110,506	124,034	30,435	64,603	70,115	New Haven, Conn.
69,814	135,184	155,106	151,893	29,253	61,845	61,747	New Orleans, La.
2,292,832	5,349,077	5,324,414	5,722,071	1,063,677	2,605,621	2,868,237	New York, N. Y.
210,601	448,172	490,047	482,739	97,163	238,120	244,635	Newark, N. J.
13,710	29,232	35,455	29,127	6,390	15,551	14,092	Norfolk, Va.
28,522	122,492	144,841	159,003	13,523	60,741	64,629	Oakland, Calif.
66,438	315,971	339,004	307,472	18,372	59,786	58,005	Omaha, Nebr.
78,420	194,858	200,977	207,470	37,799	94,626	105,426	Paterson, N. J.
784,500	1,998,750	1,937,415	1,861,502	333,303	887,935	880,726	Philadelphia, Pa.
246,694	610,189	518,964	508,529	96,779	224,582	220,292	Pittsburgh, Pa.
55,697	154,415	150,521	146,974	21,798	65,359	63,869	Portland, Oreg.
115,335	215,654	212,118	214,617	51,365	105,050	105,372	Providence, R. I.
53,232	134,502	132,405	121,095	21,846	64,055	60,929	Reading, Pa.
62,491	146,413	157,450	220,743	31,932	83,477	128,598	Richmond, Va.
140,697	337,362	337,548	368,111	82,167	201,041	222,868	Rochester, N. Y.
360,480	914,277	874,557	937,416	156,674	361,137	387,917	St. Louis, Mo.
68,682	150,355	194,013	160,331	32,863	86,753	77,677	St. Paul, Minn.
16,663	47,572	32,589	35,115	8,130	15,708	15,669	Salt Lake City, Utah
17,849	34,756	38,634	45,165	7,759	15,638	20,164	San Antonio, Tex.
162,300	416,318	426,810	429,728	65,260	181,283	192,036	San Francisco, Calif.
28,722	64,169	61,282	55,704	12,923	28,080	26,735	Scranton, Pa.
64,475	155,781	159,566	168,032	26,705	69,998	73,295	Seattle, Wash.
16,636	40,562	43,156	46,170	7,182	17,030	18,071	Spokane, Wash.
44,429	104,568	109,516	103,922	22,514	63,146	57,872	Springfield, Mass.
52,164	149,145	154,029	147,903	28,413	83,019	81,632	Syracuse, N. Y.
115,949	360,375	371,120	360,115	44,555	143,475	114,901	Toledo, Ohio.
54,822	116,623	126,516	107,417	24,879	63,547	57,694	Trenton, N. J.
28,987	73,108	83,577	90,390	16,739	50,073	54,291	Washington, D. C.
39,403	80,016	76,502	81,706	17,262	34,526	37,556	Wilmington, Del.
82,829	212,043	210,461	193,502	37,035	105,065	97,371	Worcester, Mass.
67,223	144,896	120,467	107,998	15,115	36,553	32,974	Yonkers, N. Y.
92,111	272,184	236,180	207,379	23,034	65,177	63,901	Youngstown, Ohio.

Source: Bureau of the Census, Department of Commerce.

No. 809.—INDEXES OF PRODUCTION OF MANUFACTURES AND MINERALS

NOTE.—The manufactures index covers 50 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						
	1923	1924	1925	1926	1927	1928	1929	1923	1924	1925	1926	1927	1928	1929
January	100	99	106	109	105	106	117	101	103	105	92	116	103	118
February	100	102	106	108	107	110	116	99	104	99	95	117	103	120
March	103	101	106	108	109	111	120	102	98	95	104	118	103	107
April	106	95	103	107	109	110	123	111	92	100	107	107	105	115
May	106	88	102	106	111	109	125	108	93	105	104	109	105	116
June	105	84	102	108	109	111	129	108	92	101	106	105	101	113
July	103	82	103	107	107	111	126	111	92	104	107	99	101	114
August	100	88	102	111	107	113	124	110	92	107	109	106	105	114
September	100	93	104	112	105	116	122	97	97	89	110	104	107	118
October	98	95	107	110	102	115	117	107	96	90	114	105	114	118
November	96	97	109	106	99	113	105	105	96	94	118	101	113	110
December	96	102	111	103	99	115	96	98	99	93	119	103	112	116

No. 810.—MANUFACTURES PRODUCTION: INDEXES FOR GROUPS OF INDUSTRIES

NOTE.—These indexes cover the 50 industries totaled in Table 809. They have been adjusted for seasonal variations and for the number of working days in the month

[Monthly average 1923–1925=100]

Year and month	Total	Iron and steel	Textiles	Food products	Paper and printing	Lumber[1]	Automobiles	Leather and shoes	Cement, brick, and glass[2]	Nonferrous metals	Petroleum refining	Rubber tires	Tobacco manufactures
1919	84	82	92	94	76	79	50	104	55	67	54	------	82
1920	87	99	84	84	87	79	58	97	66	78	64	------	87
1921	67	46	87	83	70	68	41	90	63	39	64	55	85
1922	87	83	99	94	85	89	66	102	80	69	74	77	89
1923	101	105	105	99	94	99	102	110	95	94	86	86	96
1924	94	89	91	103	99	96	91	94	95	99	99	98	99
1925	105	106	104	98	107	105	107	96	110	107	115	116	105
1926	108	113	104	97	114	101	108	98	113	112	127	116	112
1927	106	104	113	96	112	95	86	103	109	109	136	120	118
1928	111	119	107	98	118	*94*	110	103	120	115	152	144	124
1929	119	129	115	97	125	*90*	135	105	132	125	168	135	134
1928													
January	106	107	107	103	114	*92*	90	99	114	100	135	124	119
February	110	113	108	110	116	*93*	98	103	117	108	140	135	120
March	111	114	107	105	118	*94*	108	102	112	108	141	134	120
April	110	122	101	98	119	*95*	105	97	111	109	147	133	120
May	109	116	107	96	120	*93*	104	93	116	111	149	133	120
June	111	115	108	93	118	*91*	114	108	123	115	153	143	125
July	111	124	100	89	118	*94*	116	112	119	113	155	149	125
August	113	121	107	90	118	*87*	130	112	126	117	160	151	129
September	116	128	107	95	119	*88*	136	110	130	117	162	169	128
October	115	126	112	98	116	*81*	119	103	122	121	160	167	128
November	113	120	113	102	121	*85*	92	97	122	126	159	154	124
December	115	123	111	104	121	*87*	101	92	130	128	158	144	127
1929													
January	117	117	116	103	122	*89*	150	95	134	124	159	148	131
February	116	126	113	101	123	*78*	148	98	123	123	160	152	129
March	120	132	116	96	125	*83*	159	99	135	129	160	152	126
April	123	135	120	102	124	*86*	153	97	127	137	165	161	142
May	125	145	121	97	127	*83*	148	101	124	137	168	158	142
June	129	155	121	96	128	*85*	162	113	134	126	170	162	139
July	126	151	118	96	124	*87*	142	114	138	127	171	141	131
August	124	148	120	99	125	*88*	143	116	142	122	176	119	133
September	122	139	116	98	129	------	133	116	143	126	173	116	136
October	117	124	118	96	126	------	113	113	141	121	178	114	135
November	105	100	108	96	122	------	81	105	130	119	171	94	130
December	96	90	96	95	118	------	49	93	117	114	166	80	133

[1] Figures printed in italics are not comparable with those for earlier years.
[2] Beginning 1928 data for paving brick are excluded. Data included for face brick July to December, 1929, are estimates.

Source of Tables 809 and 810: Federal Reserve Board.

No. 811.—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. The products listed under cotton goods and cotton small wares, woolen and worsted goods, felt goods, wool carpets and rugs, wool-felt hats, fur-felt hats, and wool shoddy represent only the output of concerns classified as engaged primarily in the respective industries. Certain quantities, usually small, of some of the products are also made in establishments classed under other industries. The values of such quantities for 1927 are as follows: Cotton goods, $9,914,973 (not including products of cordage and twine mills); woolen and worsted goods, $14,145,016; felt goods, $997,972; wool-felt hats, $646,154; carpets and rugs, $71,951; fur-felt hats $862,462. The articles listed under other industries of the textile group include data for the same commodities made as secondary products outside the industry to which they properly belong.

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
COTTON-GOODS AND SMALL-WARES INDUSTRIES							
All products, total value					688,094	1,789,043	1,632,221
Sheetings	Sq. yard	2,665,627	1,638,169	1,857,476	133,332	180,357	167,888
Print cloth	do		1,166,374	1,583,861		98,453	109,826
Voiles	do		124,479	151,654		14,438	15,012
Lawns, nainsooks, cambrics, and similar muslins	do	1,153,242	326,087	272,454	60,218	43,323	32,101
Tobacco, cheese, butter, bunting, and bandage cloths	do		451,633	660,424		16,269	19,298
Ginghams	do	489,661	356,476	290,619	36,706	57,591	37,129
Shirtings	do	185,326	455,397	378,530	15,948	75,757	55,437
Drills	do	289,970	286,115	347,776	21,257	42,389	40,663
Twills and sateens	do	392,109	532,331	413,997	32,892	84,133	50,336
Ticks and denims	do	229,330	228,854	313,401	24,948	56,397	60,150
Osnaburgs	do	(1)	118,069	164,976	(1)	18,449	17,900
Cotton flannel (canton flannel, flannelettes, and blanketings)	do	263,862	340,416	400,097	24,352	53,607	55,386
Tire duck	do	251,368	40,762	35,474	49,179	16,629	11,343
Ducks (except tire)	do		193,334	218,505		53,827	57,929
Tire fabrics (except tire duck)	do	(1)	201,365	190,457	(1)	88,997	69,631
Tapestries	do	10,138	15,737	18,619	5,412	17,390	16,612
Pile fabrics:							
Plushes, velvets, velveteens, etc.	do	29,129	33,478	42,689	8,540	40,679	45,710
Corduroys	do		21,593	23,171		9,553	8,677
Turkish towels and toweling	do	275,799	50,663	169,997	29,805	18,253	42,611
Towels, etc. (except pile fabrics)	do		75,903			19,897	
Cotton table damask	do	(1)	53,468	33,523	(1)	3,384	6,751
Blankets	do	(1)	92,077	107,263	(1)	29,548	29,452
Bedspreads and quilts (crochet, marseilles, and satin)	do	(1)	52,637	71,283	(1)	16,703	18,950
Bags made from fabric woven by establishment	do	3129,357	12,694	17,558	39,706	12,665	3,271
Small wares					4 4,927	67,127	62,156
Yarns for sale	Pound	497,987	628,170	664,745	127,364	313,907	253,802
Thread	do	26,507	34,167	29,992	22,917	53,284	46,409
Batting, wadding, and mattress felts	do	(1)	90,681	129,836	(1)	14,134	16,304
Cotton waste for sale	do	317,360	419,604	485,308	14,422	40,824	26,842
All other products					86,169	231,294	254,040
COTTON-LACE INDUSTRY							
All products, total value					13,207	30,843	27,298
Nottingham lace curtains	Pair	5,591	4,560	6,036	4,679	10,277	11,305
Nottingham lace curtain nets	Lin. yard	7,505	28,612	19,197	1,258	8,823	5,518
Levers laces	Sq. yard	7,237	8,982	(5)	3,681	6,548	6,263
All other products					3,589	5,195	4,212

[1] Not reported separately.
[2] Includes "All other terry weaves."
[3] Includes bags and bagging.
[4] Not strictly comparable with 1925 and 1927 because of changes in classification of certain products.
[5] Data not available.

No. 811.—Textile Manufactures: Production—Continued

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
KNIT GOODS							
All products, total value					258,913	809,960	816,620
Hose	Doz. pair	44,186	59,597	110,006	63,145	302,219	453,593
Half hose	do	30,978	40,180		34,954	101,646	
Sueded cotton gloves	do	2,470	70	28	10,520	744	350
Gloves and mittens (except sueded)	do		1,231	1,022		8,340	6,987
Shirts and drawers	Dozen	21,759	11,262	8,492	57,523	60,845	38,961
Union suits	do	6,273	11,500	9,786	35,596	99,215	83,685
Bathing suits	do	274	695	740	2,034	16,322	15,857
Scarfs and shawls	do	63	492	188	714	4,661	2,215
Headwear	do	987	805	700	3,456	4,511	3,877
Neckties	do	[6]	2,705	1,810	[6]	8,961	5,853
Jersey cloth and tricollette	Sq. yard	10,594	42,172	44,439	4,379	36,451	37,697
Stockinette	do					2,168	957
Glove and shoe linings	do	6,222			670	4,632	4,773
Towels and towelings	do	[1]	976	920	[1]	701	659
Cotton yarns for sale	Pound	17,053	8,098	6,169	3,990	3,639	1,891
Cotton waste for sale	do	12,999	12,309	15,299	629	1,321	1,013
All other products					41,303	153,584	158,252
SILK GOODS							
All products, total value					254,011	808,979	750,124
Broad silk:							
All silk	Sq. yard	[7] 142,713	384,725	385,530	96,690	426,000	376,919
Silk mixed	do	[7] 73,320	98,391	127,296	41,030	103,121	108,696
Velvets	do	[7] 16,318	6,078	5,484	8,570	14,525	11,909
Plushes	do	[7] 9,115	925	1,310	10,136	2,352	2,748
Upholstery and tapestry	do	[7] 478	2,675	3,705	840	5,037	8,303
Organzine, tram, and crêpe twist for sale	Pound	4,070	9,660	11,409	16,024	66,478	70,247
Spun silk for sale	do	1,607	4,692	4,456	4,577	20,364	15,696
Machine twist	do	660	860	723	4,037	8,971	6,474
Sewing, embroidery, and other floss silks	do	902	764	659	5,645	6,020	5,768
Ribbons					38,201	52,061	36,041
Laces, embroideries, nets, veils, veilings, etc.					[8] 1,329	1,326	
Fringes and gimps					1,025	6,794	7,508
Braids and binding					3,073	14,513	11,285
All other products					22,834	81,417	88,530
WOOLEN AND WORSTED GOODS							
All products, total value					379,484	957,790	817,978
Suitings, dress goods, overcoatings, and cloakings [9]	Sq. yard	455,044	460,922	414,320	238,310	566,302	456,458
All-wool woolen	do	90,950	153,323	136,635	55,660	198,964	167,484
All-wool worsted	do	222,421	179,163	173,754	141,778	275,617	231,998
Wool and cotton mixed	do	31,400	26,124	30,433	11,711	25,943	20,844
Cotton-warp woolen	do	53,510	60,933	46,609	13,598	40,029	24,785
Cotton-warp worsted	do	56,763	41,379	26,889	15,563	25,749	14,342
Flannels for underwear (all wool)	do	2,176	672	[5]	880	299	[5]
Flannels for underwear (cotton mixed)	do	4,996	999	[5]	1,090	649	[5]
Domett flannels and shirtings	do	16,092	7,206	8,413	2,814	3,440	3,627
Satinets and linseys	do	8,415	11,877	3,974	1,535	4,244	1,282
Blankets, all-wool	do	6,490	11,084	17,295	4,187	10,989	12,359
Horse blankets	do	8,165	1,410	1,069	2,018	787	631
Yarns for sale	Pound	132,560	151,000	145,728	85,872	210,692	183,430
Noils and wool waste for sale	do	50,395	42,591	43,419	10,140	17,887	18,491
All other products					32,638	142,502	138,705

[1] Not reported separately.
[5] Data not available.
[6] Included in "All other products."
[7] Linear yards. Comparable figures in square yards not available.
[8] Exclusive of embroideries, which are included in "All other products."
[9] Includes data only for the five classes specified below. Data for other suitings such as mohair, mohair and cotton mixed, woolen-worsted, etc., are included in figures for "all other products."

No. 811.—Textile Manufactures: Production—Continued

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
FELT GOODS							
All products, total value					13,693	43,776	41,895
Felt cloths	Pound		6,391	6,401	797	15,821	15,009
Trimming and lining felts, skirts and skirtings.	do		2,690	3,708	1,321	2,088	3,122
Boot and shoe linings	do		1,163	1,723	1,513	957	1,165
Hair felting	do		31,058	31,095	635	5,209	6,675
All other felts					8,829	16,516	13,644
All other products					598	3,185	2,880
HATS, WOOL-FELT							
All products, total value					1,944	8,949	9,382
Hats	Dozen	381	373	386	1,777	6,340	5,528
Hat bodies and hats in the rough.	do	6	185	379	13	1,347	2,734
All other products					154	1,261	1,120
CARPETS AND RUGS							
All products, total value					69,128	187,779	166,388
Carpets	Sq. yard	17,311	21,859	16,872	15,187	49,024	40,778
Rugs, made of sewed strips	do	20,855	14,264	9,340	25,946	53,628	35,106
Rugs, woven whole	do	28,174	35,977	40,981	23,551	79,233	87,333
All other products					4,444	5,894	3,671
WOOL SHODDY							
All products, total value					7,707	21,022	12,597
Recovered wool fiber	Pound	43,156	67,543	40,823	5,977	19,057	10,710
All other products					1,730	1,965	1,887
CORDAGE AND TWINE AND JUTE AND LINEN GOODS [10]							
All products, total value						148,965	132,031
Rope, cable, and cordage:							
Manila hemp	Pound		101,006	105,614		21,791	22,607
Sisal	do		43,094	30,712		6,469	4,439
Hennequin	do		5,223	12,992		778	1,840
Cotton	do		25,903	27,404		9,278	7,602
All other	do		58,033	55,929		9,661	8,154
Twine, binder	do		233,661	169,795		29,249	19,457
Twine, cotton	do		49,941	64,208		19,734	20,160
Twine, other	do		56,591	74,065		11,000	12,813
Yarns for sale	do		97,475	88,539		19,475	15,742
Linen thread	do		2,857	2,708		4,694	4,211
Linen woven goods	Sq. yard		7,847	8,533		2,933	2,695
Jute bagging	do		45,871	48,272		5,048	5,200
All other products						8,855	7,111
HATS, FUR-FELT							
All products, total value					37,350	80,086	99,300
Hats	Dozen	2,119	1,733	2,052	33,604	62,224	73,333
Hat bodies and hats in the rough.	do	329	953	1,176	2,373	14,401	18,871
All other products					1,373	3,441	7,096
FLOOR COVERING, OILCLOTH, AND ARTIFICIAL LEATHER [10]							
All products, total value						136,307	133,239
Oilcloth (cotton back)	Sq. yard		81,020	105,284		18,822	18,763
Linoleum (jute back)	do		52,830	49,921		44,513	42,031
Floor covering (felt back) [11]	do		77,889	111,793		30,029	34,900
Artificial leather [11]	do		68,580	61,792		35,790	29,165
All other products						7,153	4,819

[10] Comparable figures for 1914 not available.

[11] "Artificial leather" and "Asphalted felt-base floor covering" were given separate classifications for the first time at the census of 1923.

Source: Bureau of the Census, Department of Commerce.

No. 812.—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)		
		1914	1925	1927	1914	1925	1927
Total value					200,196	[1] 636,972	[1] 655,319
Acids:							
Acetic	Pound	70,618	65,592	76,432	1,272	4,438	5,524
Boric (boracic)	do	8,584	15,605	21,010	589	1,202	1,583
Carbonic	do	50,446	59,721	74,344	2,321	5,128	6,048
Citric	do	2,658	7,598	7,058	1,516	3,470	3,151
Hydrochloric (muriatic)	Ton	85	155	162	1,349	2,976	3,016
Mixed (sulphuric-nitric)	do	43	61	61	2,204	3,767	3,821
Nitric	do	15	27	29	1,592	3,560	3,559
Oleic	Pound	21,933	53,276	55,686	1,301	5,171	4,778
Phosphoric	do	12,420	21,330	22,397	680	1,489	1,682
Stearic	do	14,351	26,877	37,277	1,243	3,379	3,832
Sulphuric (basis 50° B)	Ton	2,338	4,700	4,972	15,395	38,230	42,886
Sulphuric reclaimed (50° B for 1925 and 1927)	do	136	210	191	519	1,479	1,089
Other acids					2,856	4,985	7,208
Alums	Ton	157	307	341	3,468	8,735	9,525
Aluminous abrasives	do	[2]	16	20	[2]	1,789	1,970
Other aluminum compounds					[2]	1,057	2,068
Bleaching compounds:							
Chlorine	Pound	12,217	104,960	180,163	473	4,236	6,678
Hypochlorites (calcium, sodium)	Ton	155	131	135	2,916	5,842	5,589
Peroxide bleaches	Pound	32,595	34,696	30,305	1,303	3,341	3,079
Sulphur bleaches					610	3,748	3,629
Coal-tar products:							
Crudes					8,065	25,403	24,862
Intermediates						25,324	22,844
Dyes and other finished products					5,427	61,474	58,350
Gases, compressed and liquefied					10,415	55,532	[3]
Nitrogen compounds:							
Ammonia (aqua)	Pound	35,544	66,228	46,225	1,412	3,027	1,260
Ammonia (anhydrous)	do	16,660	31,725	45,115	3,141	6,772	4,011
Ammonium chloride	do	11,512	[4]	[4]	641	[4]	[4]
Other ammonium compounds					472	5,268	6,325
Ferric ferrocyanide	Pound	[2]	4,971	4,104	2,399	1,620	1,365
Other cyanides	do					5,044	4,946
Other nitrogen compounds					1,805	7,927	8,178
From coke-oven operations not included in total value (Bureau of Mines)—							
Ammonium sulphate	do	[2]	986,179	1,225,625	[2]	22,465	23,905
Liquor (NH_3 equivalent)	do	[2]	47,129	49,011	[2]	4,386	2,335
Plastics:							
Pyroxylin, including collodion	Pound	[2]	47,005	[5] 16,298	3,778	27,878	[5] 14,410
Finished articles of pyroxylin					5,527	10,984	6,801
Rubber substitutes	*Pound*						
Artificial silk, visca, cellophane, etc	do				4,591	[3]	[3]
Other plastics						9,870	6,992
Potassium compounds:							
Bitartrate (cream of tartar)	Pound	12,696	7,073	7,595	3,125	1,472	1,747
Iodide	do	[2]	495	528	4,731	1,821	1,897
Other						2,778	5,663
Sodium compounds:							
Bichromate and chromate	Ton	12	28	31	1,125	3,527	3,780
Biborate (borax)	do	27	50	65	2,072	4,083	5,079
Carbonates—							
Soda ash	do	935	1,369	1,466	10,938	32,244	29,939
Sal soda (crystals)	do	107	64	55	1,510	1,332	1,371
Bicarbonate	do	90	123	121	1,439	3,652	3,647
Modified sodas	do	[2]	47	54	[2]	1,551	1,828
Hydroxide (caustic)	do	292	487	561	9,105	27,392	29,193
Repacked caustic	do	[2]	27	21	[2]	4,415	4,128
Phosphates	do	15	80	97	853	5,755	6,985
Silicate	do	169	395	505	1,649	5,717	6,826

[1] Not including value of rayon for 1925 and 1927 nor value of compressed and liquefied gases for 1927. (See footnote 3.)
[2] No data.
[3] Treated as a separate industry; for gases compressed and liquefied, 1927, see Table 814, p. 834.
[4] Included in other ammonium compounds.
[5] Data for pyroxylin solutions and thinners excluded for 1927 in this table but included under "Paint and Varnish" in Table 814.

No. 812.—CHEMICALS: PRODUCTS MADE FOR SALE—Continued

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
Sodium compounds—Continued.							
Sulphates—							
Salt cake	Ton	90	141	175	842	2,339	2,787
Glauber's salt	do	35	58	53	428	1,265	1,082
Thiosulphate (hypo)	do	(2)	24	24	(2)	1,051	993
Other	do	(2)	104	123	(2)	529	744
Sulphide	do	20	24	38	517	1,203	1,692
Other					2,148	13,466	13,806
Miscellaneous:							
Acetone	Pound	10,426			1,100		
Barium compounds					361	1,498	1,607
Bismuth compounds					(2)	1,216	938
Calcium—							
Acetate	Ton	82	73	69	2,139	3,437	4,021
Arsenate	Pound	(2)	15,199	27,282	(2)	1,075	1,665
Carbide	Ton	(2)	128	202	(2)	6,599	9,298
Chloride	do	45	171	191	342	3,719	4,443
Hypochlorite	do	(2)	115	111	(2)	3,967	4,148
Phosphate	do	12	36	34	1,299	4,455	4,914
Other					(2)	893	2,658
Carbon bisulphide	Pound	(2)	39,875	44,972	(2)	1,934	2,160
Cobalt compounds and alloys					(2)	413	518
Copper sulphate (blue vitriol)	Pound	37,152	32,297	56,667	1,599	1,684	2,774
Ethyl acetate	Gallon	(2)	2,907	4,607	(2)	2,407	3,701
Ferro-alloys (not blast furnace)	Ton	(2)	150	197	(2)	15,255	17,049
Formaldehyde	Pound	8,426	21,972	26,447	655	1,891	2,432
Glycerin (glycero) refined	do	59,810	94,303	89,585	10,779	16,991	19,185
Iron sulphate (copperas)	Ton	46	53	62	353	603	673
Lead arsenate	Pound	8,642	11,938	21,528	512	1,778	3,190
Silver nitrate	Ounce	(2)	4,339	4,897	[6]846	2,023	1,957
Sulphur, refined	Ton	31	47	44	1,141	2,121	1,799
Tin—							
Oxide	Pound	8,291	4,788		2,029	2,905	10,583
Chloride	do		12,599			3,832	
Other	do					47	
Vanillin	do	121	215	300	526	1,134	1,923
Zinc chloride	do		58,947	58,268	[7]1,131	1,993	1,921
All other products					59,391	132,764	160,274
Intergroup duplications					[8]13,269	[8]49,398	[8]21,858

[2] No data. [6] Includes other silver salts. [7] Includes other zinc compounds.

[8] 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. 813.—NATURAL DYESTUFFS AND TANNING MATERIALS: PRODUCTION [1]

Product	Quantity (thousands of pounds)			Value (thousands of dollars)		
	1914	1925	1927	1914	1925	1927
All products, total value				21,388	36,278	37,192
Natural dyestuffs:						
Extracts	40,779	23,402	26,500	1,739	1,971	2,049
Ground, chipped, or dry	(2)	1,226	921	124	44	20
Tanning extracts:						
Oak and chestnut	328,198	303,089	319,155	4,130	5,353	5,671
Hemlock	18,978	8,622	6,506	340	284	210
Sumac	4,512	4,212	5,525	130	261	277
Quebracho	109,597	82,385	124,557	2,945	2,395	3,010
Other					2,040	1,854
Other tanning materials				354	409	409
Mordants				392	985	959
Sizes:						
Dextrin	18,914	56,350	31,917	706	3,336	2,093
Rosin	20,717	146,859	157,691	373	5,498	5,869
Gum, other than rosin	3,832	44,358	16,042	205	2,279	920
Starches, glue, and other	(2)	28,422	30,980	1,769	1,592	2,405
Turkey red oil	11,682	14,338	15,580	820	1,552	1,560
Softeners and other assistants				717	3,224	3,622
All other products				6,639	5,055	6,264

[1] Products made in all industries, sometimes as by-products, are included. [2] No data.

Source of Tables 812 and 813: Bureau of the Census, Department of Commerce.

No. 814.—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 812), petroleum refining (Table 787), manufactured gas (Table 776), 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	1914	1925	1927	1914	1925	1927
BONE BLACK, CARBON BLACK, AND LAMPBLACK							
All products, total value					2,972	17,189	16,369
Bone black	Pound	44,509	64,135	59,359	1,532	2,540	2,524
Carbon black	do	22,869	177,417	198,429	918	9,640	10,955
Lampblack	do	(1)	12,032	8,800	504	1,435	1,040
All other products					18	3,574	1,850
FERTILIZERS							
All products, total value					169,018	214,809	198,923
Fertilizers	Ton	8,432	8,157	8,027	153,261	192,112	170,461
Complete and ammoniated fertilizers	do	5,612	5,058	5,163	121,677	146,606	130,310
Superphosphates for sale	do	1,693	2,639	2,435	14,779	35,180	30,003
Concentrated phosphates for sale	do	68			1,367		
Other fertilizers	do	1,059	460	429	15,438	10,327	10,148
Sulphuric acid (basis 50°), total[2]	do	1,406	2,008	2,045			
Made for sale	do	129	663	775	769	4,812	6,158
Fish scrap	do	63	72	96	1,916	2,928	3,349
All other products					13,072	14,957	18,955
PAINT AND VARNISH							
All products, total value					149,173	511,990	558,947
Colors (pigments)	Pound	459,052	1,608,119	1,773,889	17,450	103,919	105,756
Paints in paste form	do	420,012	434,583	408,722	29,038	55,707	49,554
Ready mixed paints	Gallon	41,048	87,640	94,071	41,691	158,376	165,664
Water paints and kalsomine, dry or in paste	Pound	61,904	110,618	122,456	2,055	4,636	6,321
Varnishes, japans, and lacquer, including enamels	Gallon	37,412	88,692	106,452	32,252	136,491	170,579
Fillers:							
Liquid	do	966	722	566	670	922	722
Paste and dry	Pound	49,588	42,004	41,486	1,319	2,304	2,109
Putty	do	69,828	101,209	102,703	1,250	3,926	4,255
Bleached shellac	do	8,655	11,136	10,611	1,807	5,991	5,015
Other products					21,641	39,727	48,972
SOAP							
All products, total value					135,304	282,728	293,352
Hard soaps	Pound	1,696,484	2,109,133	2,219,228	104,465	191,384	191,458
Toilet soaps	do	169,926	272,207	287,696		49,387	53,573
Soap chips	do	97,746	325,013	373,216		36,284	39,422
Laundry and foots soap	do	1,428,812	1,444,018	1,502,183		98,247	93,092
All other hard soaps	do		67,865	56,133		7,466	5,371
Powdered soaps	do	367,744	142,322	173,930	(1)	15,790	18,130
Soap powders, cleaners, cleansing, scouring, and washing powders	do		547,986	526,453		25,858	26,910
Soft soap	do	57,002	61,189	59,014	1,697	2,514	4,231
Liquid soap	do	(1)	22,047	24,934	(1)	2,122	3,241
Special soap articles[2]	do	(1)	52,836	63,708	833	3,932	4,902
Glycerin (for sale)—							
Crude	do	12,745	25,842		1,818	3,518	
Refined	do	32,674	72,597		5,776	13,092	
Perfumes and toilet preparations[2]					6,805	24,518	44,480
All other products					13,910		
COMPRESSED AND LIQUEFIED GASES							
All products, total value					[3]10,415	[3]55,532	62,344
Acetylene	Cu. ft	121,696	525,746	682,481	2,318	13,515	16,196
Hydrogen	do	1,669	150,502	103,714	17	877	742
Oxygen	do	104,714	2,073,826	2,359,896	1,829	22,577	23,987
Nitrous oxide (laughing gas)	Gallon	17,338	54,882	66,392	213	729	810
Other gases					6,038	17,834	20,129
All other products					(4)	(4)	480

[1] Data not available.
[2] Includes only output of industry specified above.
[3] Excludes "All other products."
[4] Separate data not available.

No. 814.—Miscellaneous Industries Involving Chemical Processes: Census Statistics of Products—Continued.

Industry and product	Quantity (thousands of unit specified)				Value (thousands of dollars)		
	Unit	1914	1925	1927	1914	1925	1927
DRUGGISTS' PREPARATIONS							
All products, total value					49,376	80,921	108,502
Caffeine	Pound		322	399	16,232	1,047	1,178
Codein	do		6	9		702	1,169
Morphine	do		6	11		922	1,391
Strychnine	do		14	28		122	190
Nicotine	do		711	790		1,682	2,011
Other, including quinine and other cinchona alkaloids, and alkaloids not itemized.						1,802	1,215
Biological products					6,224	10,622	18,411
Tinctures, fluid extracts, medicinal syrups, and other liquid preparations not otherwise accounted for.					13,900	30,232	38,612
Pills, tablets, powders, etc., not otherwise accounted for.					12,288	32,554	41,745
Pharmaceutical metals and their salts					732	1,176	2,580
PATENT AND PROPRIETARY MEDICINES							
All products, total value					83,455	174,806	184,073
For sale to the general public					83,455	134,188	140,679
Ethical specialties (dispensed on prescription).						40,118	43,394
PATENT AND PROPRIETARY COMPOUNDS							
All products, total value					16,514	72,988	84,132
Antiseptics					16,514	13,842	17,864
Liquid deodorants	Pound			6,378		2,719	1,517
Block and crystal deodorants	do			514			380
Powder deodorants	do			1,672			347
Other deodorants	do			630			320
Coal-tar disinfectants	do			23,231		5,775	3,825
Pine oil disinfectants	do			2,897			442
Chloride of lime and chlorine products	do			1,391			124
Other disinfectants	do			7,284			1,698
Germicides						1,366	2,237
Sprays, fly	Pound			18,408		18,904	6,101
Insect powder (pyrethrum)	do			2,731			1,772
Fluoride powders and mixtures	do			615			310
Moth repellants	do			3,680			1,104
Other household insecticides	do			14,197			3,621
Agricultural insecticides and fungicides.							8,782
All other compounds						30,442	33,679
PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS							
All products, total value					34,206	147,393	178,474
Perfumes					34,206	20,358	15,302
Toilet waters							8,469
Creams						35,549	29,219
Rouges							11,492
Dentifrices						25,736	30,093
Hair tonics						9,991	11,639
Face powders						21,378	21,583
Talcum powders							8,003
Other toilet powders							3,097
All other toilet preparations						34,382	38,979
ICE, MANUFACTURED							
All products, total value					67,320	193,267	190,556
Ice:							
Ice industry	Ton	18,325	38,813	39,058	55,258	180,782	178,639
Can ice	do	17,146	38,229	38,864	52,150	178,157	177,765
Plate ice	do	1,179	585	193	3,108	2,623	874
Other industries	do	2,718	1,350	1,229	6,934	6,208	5,761
All other products, etc					5,128	6,187	6,156

Source: Bureau of the Census, Department of Commerce.

No. 815.—LEATHER: PRODUCTION BY PRINCIPAL KINDS

NOTE.—For value of products of the tanning industry see Table 806, p. 807

Kind	1914	1924	1925	1926	1927	1928	1929
Sole leather, cattle--1,000 backs, bends, sides	18,098	14,640	14,879	13,615	15,829	16,138	14,516
Belting leather--1,000 butts and butt bends	974	1,231	809	809	929	847	990
Harness leather--1,000 sides	2,944	1,269	1,288	1,169	1,016	813	642
Bag case and strap leather--do	1,005	1,056	1,175	1,183	1,105	812	947
Upholstery leather:[1]							
Whole-hide grains--1,000 hides	654	466	463	405	354	321	273
Machine buffed--do	(2)	183	163	196	148	149	141
Whole hide splits--1,000 pieces	1,105	917	832	807	938	709	672
Upper leather (other than patent):[1]							
Cattle (including kip side)--1,000 sides	8,258	14,329	15,338	15,476	13,459	11,485	12,610
Calf and kip--1,000 skins	15,869	15,981	13,621	14,943	16,150	14,975	14,540
Goat and kid--do	29,875	34,641	40,887	48,415	49,417	52,862	54,355
Cabretta--do	(2)	2,380	2,412	2,344	1,551	2,064	1,672
Sheep and lamb--do	16,795	18,148	14,124	13,973	14,849	16,952	17,752
Patent leather (other than upholstery):[1]							
Cattle (including kip side)--1,000 sides	1,791	8,854	8,628	7,459	8,388	7,831	5,954
Horse and colt--1,000 half fronts	1,259	802	684	610	416	425	271
Goat and kid--1,000 skins	3,615	865	991	504	430	734	302
Glove and garment leather:[1]							
Horse, colt, ass, and mule—							
Half fronts--thousands	614	1,000	1,146	1,009	1,459	1,500	1,857
Shanks--do		1,165	1,011	1,143	1,154	1,301	1,420
Cabretta--1,000 skins	(2)	1,197	1,678	2,071	1,820	1,014	1,066
Sheep and lamb--do	3,912	5,561	5,326	5,297	7,576	9,026	8,633
Fancy and bookbinders' leather:[1]							
Sheep and lamb--1,000 skins	[3] 6,051	2,847	1,984	2,369	2,825	3,201	2,618
Goat and kid--do	(2)	338	541	664	717	1,116	889
Splits (other than upholstery) finished and rough--1,000 pieces	(2)	20,361	24,023	24,617	24,645	21,945	22,465

[1] Figures shown for principal kinds only. [2] Not available. [3] Reported as "fancy" only.

Source: Bureau of the Census, Department of Commerce.

No. 816.—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 806, p. 807. Data for 1922 to 1929 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

[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. 817.—RUBBER-MANUFACTURING INDUSTRY: PRODUCTS

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
All products, total value					300,994	1,260,805	1,231,970
Tires and inner tubes:							
Pneumatic—							
Automobile and truck	Number	15,929	136,172	134,405	125,780	774,727	739,070
Motor cycle and bicycle	do	3,728	2,512	3,046	6,906	3,961	3,695
Solid—							
Truck	do	(1)	1,035	813	(2)	43,870	34,985
All other	do	(1)			13,736	1,991	1,673
Boots, rubber	Pair	4,024	4,739	5,362	12,648	16,028	16,746
Shoes and overshoes, rubber	do	57,212	52,339	71,577	37,858	80,077	90,994
Shoes, canvas, with rubber soles	do	(1)	25,000	28,810	(1)	23,818	25,456
Heels, sold as such or on hand	do	(1)	342,196	318,346	(1)	26,092	25,504
Soles, including composition or fiber	do	(1)	36,064	40,820	(1)	10,384	9,341
Rubberized fabrics, sold as such or on hand:							
Automobile and carriage	Yard	(1)	25,232	17,363	(1)	13,873	11,048
All other	do	(1)	25,840	38,445	(1)	7,760	15,493
Belting					7,939	23,481	21,947
Hose					16,854	35,644	41,472
Packing					3,508	4,444	4,853
Clothing					6,799	7,748	(3)
Druggists' and stationers' sundries					7,512	18,462	15,732
Hard-rubber goods					(1)	29,111	18,891
All other manufactures of rubber					41,384	113,955	122,206
Reclaimed rubber	Pound	(1)	243,852	330,436	11,135	23,021	27,373
All other products					8,885	2,358	5,491

[1] Not reported for 1914.
[2] Included in "All other solid."
[3] Included in "All other manufactures of rubber."

Source: Bureau of the Census, Department of Commerce.

No. 818.—PRINTING AND PUBLISHING: CENSUS STATISTICS

Publications	1914	1921	1923	1925	1927
	Value (thousands of dollars)				
Total	810,508	1,827,809	2,021,356	2,269,638	2,507,426
Newspapers and periodicals, printed and published or published only	419,210	1,005,270	1,154,786	1,321,611	1,459,688
Subscriptions and sales	163,577	328,283	360,893	398,338	429,467
Advertising	255,633	676,987	793,893	923,273	1,030,221
Newspapers	283,589	734,321	803,497	892,094	977,548
Periodicals, other than newspapers	135,621	270,949	351,289	429,517	482,040
Newspapers and periodicals, printed for publication by others	8,577	35,301	36,893	56,488	54,975
Books and pamphlets	87,637	166,663	178,474	201,708	232,920
Sheet music and books of music	7,626	14,293	14,163	14,133	17,147
Job printing, general, electrotyping, engraving, and lithographing	278,401	566,648	623,047	669,937	737,021
Blank books	4,153	7,564			
All other products	4,904	32,070	13,993	5,761	5,675
	Aggregate circulation per issue				
Newspapers and periodicals:					
Daily	28,777,454	32,341,678	35,733,107	38,039,682	42,343,210
Sunday	16,479,943	20,853,355	24,511,693	25,630,056	27,695,859
Triweekly	549,495	523,872	431,504	400,730	468,534
Semiweekly	2,483,629	1,540,206	2,024,653	1,934,095	2,026,760
Weekly	50,336,963	43,521,178	47,860,508	50,815,443	55,985,413
Monthly	79,190,838	83,459,144	91,654,028	111,875,957	120,693,490
Quarterly	18,853,901	21,745,216	22,197,918	22,840,186	21,247,360
All other classes	8,922,684	6,962,012	7,629,173	8,450,308	8,156,399

Source: Bureau of the Census, Department of Commerce.

No. 819.—ENGINES, WATER TURBINES, TRACTORS, AND LOCOMOTIVES

[Value in thousands of dollars]

Class	1914	1921	1923	1925	1927
Total	131,019	242,526	407,088	310,556	367,026
Steam engines	21,784	30,357	26,765	24,411	22,573
Reciprocating marine	1,300	5,916	1,170	636	1,703
Reciprocating stationary and portable	11,822	8,775	12,882	7,962	5,406
Stationary turbines	8,662	12,342	10,328	14,055	14,499
Marine turbines	(1)	2,321	(1)	(1)	965
Not reported as to type	(1)	1,003	2,385	1,758	
Internal-combustion engines (not including tractors)	45,314	74,699	110,752	117,894	141,161
Diesel and semi-Diesel type—					
Marine	(2)	8,273	14,013	7,353	7,062
Other				15,875	13,347
Other internal-combustion engines—					
Marine—					
Stationary	7,570	7,604	8,492	8,833	7,370
Detachable				2,561	5,553
Motor vehicle [3]	11,623	31,005	[4] 59,074	[4] 55,624	63,636
Other stationary and portable	[5] 26,121	[5] 27,817	29,173	27,648	34,699
Aircraft engines [6]					9,494
Tractors and traction engines	17,651	53,169	78,320	102,905	136,950
Tractors, internal-combustion	17,651	53,169	76,427	102,647	136,837
Traction engines, steam			1,893	258	113
Tractor trucks (semitractors)				(7)	2,172
Water turbines	[8] 3,633	[8] 4,624	6,732	5,338	5,441
Engines and turbines not specified as to kind of power				[9] 13,707	414
Locomotives, steam	42,637	79,677	184,469	46,301	58,315

[1] No data.
[2] Not reported separately; included with stationary and portable internal-combustion engines.
[3] Excluding engines built for installation in motor vehicles manufactured in the same establishments.
[4] Includes some aviation engines for 1923 and 1925 and a few motor-cycle engines for 1923.
[5] Includes data for motor-cycle and aviation engines for 1914 and 1921, and for Deisel engines for 1914.
[6] 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 4 and 5).
[7] Reported with "Engines and turbines," etc., to avoid disclosing operations of individual establishments.
[8] Includes data for a small number of water motors not reported separately.
[9] Reported as secondary products by establishments in other industries; tractor trucks also included.

Source: Bureau of the Census, Department of Commerce.

No. 820.—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 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 819, 821, 822, and 823

Class	1914	1921	1923	1925	1927
Adding and calculating machines and parts	14,734	30,016	51,996	51,289	[1] 53,132
Agricultural machinery	64,866	58,136	82,130	85,471	129,595
Aircraft	481	5,099	9,077	8,102	14,505
Baker's' machinery and equipment	2,555	10,560	14,451	17,212	20,015
Blowers and fans	(2)	12,518	14,386	16,210	20,436
Bottling machinery	1,359	6,642	5,969	10,139	11,584
Clay-working machinery (brick, pottery, etc.)	2,439	3,772	5,508	5,298	4,308
Canning machinery	(2)	5,139	9,691	9,766	7,339
Cars and trucks, industrial and mining	(2)	(2)	17,919	24,267	21,741
Cash registers and parts	16,935	23,944	44,382	42,326	[1] 40,345
Cement and concrete machinery:					
Cement-making machinery	(2)	(2)	3,680	4,146	4,619
Cement and concrete-block machinery	(2)	(2)	(2)	1,461	656
Concrete mixers	(2)	(2)	13,602	12,620	12,674
Other cement and concrete machinery	(2)	(2)	(2)	5,604	2,584
Condensers	(2)	(2)	4,588	4,938	5,899
Confectionery and ice-cream machinery	(2)	5,157	5,029	5,143	5,682
Conveying machinery:					
Bucket type	(2)	(2)	(2)	14,717	10,726
Belt type	(2)	(2)	(2)	8,601	10,520
Other	(2)	(2)	(2)	7,370	12,282

Footnotes at end of table.

No. 820.—Machinery: Value of the Principal Classes Manufactured—Continued

[Values in thousands of dollars]

Class	1914	1921	1923	1925	1927
Cotton gins	4,902	2,721	7,175	12,808	9,543
Cranes (including hoists and derricks)	(3)	20,445	42,197	43,936	44,454
Dairy, cheese-factory, and butter-factory machinery	12,998	17,759	16,486	15,177	16,536
Dredging and excavating machinery:					
Power shovels	(3)	12,858	23,634	26,609	32,106
Other	2,969	4,991	15,622	19,232	19,776
Electrical machinery	50,601	89,800	128,384	134,513	154,644
Elevators and elevator machinery	17,228	40,931	52,516	47,430	43,152
Engines (steam or internal-combustion) and water wheels [4]	93,635	186,488	266,285	317,255	359,607
Flour-mill and grain-mill machinery	(3)	8,663	9,084	7,946	7,967
Gas machines and apparatus	4,426	4,554	7,243	6,242	5,082
Glass-making machinery	1,091	4,088	2,651	2,666	3,085
Hydraulic machinery:					
Hydraulic rams	(3)	(3)	(3)	218	450
Other	(3)	(3)	(3)	4,720	2,456
Laundry machinery	7,565	12,983	19,077	24,198	27,204
Lawn mowers	2,848	6,401	8,258	8,047	9,269
Leather-working machinery, other than shoe	1,066	2,526	2,575	2,222	2,000
Locomotives (steam, electric, and internal-combustion) [5]	43,374	90,111	194,673	58,359	70,508
Machine tools	(3)	(3)	89,964	91,459	107,102
Metal-working machinery, other than machine tools	(3)	(3)	(3)	47,353	39,201
Meters, gas and water	11,638	18,181	23,397	24,502	24,978
Mining machinery, other than oil-well	13,254	30,290	[6] 47,590	34,827	35,259
Motion-picture cameras and projectors	(3)	2,869	2,031	4,620	8,345
Motor cycles and bicycles	15,919	12,710	20,752	15,906	13,804
Motor vehicles, except motor cycles	458,761	1,326,120	2,611,735	2,946,821	2,540,714
Oil-mill machinery, cottonseed, and other	1,878	1,472	3,037	4,132	4,697
Oil-well machinery	10,569	27,415	52,158	47,299	62,126
Ore crushers	(3)	3,322	4,862	3,252	2,893
Packing-house machinery	(3)	4,133	5,441	5,370	5,577
Paper-mill and pulp-mill machinery	8,588	[7] 31,581	18,736	21,209	27,098
Pneumatic machinery (other than pneumatic tools):					
Air compressors	5,158	15,729	27,762	29,473	29,319
Other pneumatic machinery	(3)	(3)	(3)	1,109	867
Printing machinery	19,228	54,870	68,630	67,056	63,240
Pumps and pumping equipment	[8] 27,457	[8] 69,255	92,815	121,345	129,127
Refrigerating machinery	10,522	33,174	36,542	62,593	110,246
Road-making machinery	3,545	17,858	24,264	26,297	27,728
Rubber-working machinery	2,726	8,003	6,849	10,164	9,951
Scales and balances	(3)	15,885	21,836	23,691	22,166
Sewing machines, cases, cabinets, attachments, and parts	27,238	35,608	42,993	45,131	43,179
Shoe machinery	5,959	9,482	10,663	11,769	12,334
Slot-vending machines	(3)	2,466	3,777	4,202	7,059
Stokers, mechanical	(3)	7,161	14,095	9,420	10,213
Sugar-mill machinery	1,972	12,075	9,112	8,643	6,601
Textile machinery and parts	(3)	115,167	127,406	109,354	102,200
Transmission machinery	(3)	(3)	11,359	15,350	18,246
Typewriters and parts	20,517	33,361	39,521	50,190	[1] 51,942
Vacuum cleaners	2,059	21,726	36,870	40,285	36,972
Washing machines, clothes wringers, driers, and ironing machines for domestic use	(3)	32,444	57,551	70,761	73,847
Well-drilling machinery, other than oil-well	(3)	1,353	1,074	1,843	1,545
Windmills and windmill towers	(3)	3,953	4,636	5,682	4,555
Woodworking machinery	13,393	25,682	44,447	39,620	29,569

[1] Figures not strictly comparable with earlier years which include value of parts and attachments; for 1927 figures represent only value of machines.
[2] Not reported separately.
[3] No comparable data.
[4] Excluding steam boilers made for sale as separate units.
[5] Includes steam locomotives only for 1914; for 1921 and later years, steam, gasoline, and electric locomotives.
[6] Not strictly comparable with figures for other years due to changes in classification.
[7] Includes machinery used for converting paper into boxes, bags, etc., for 1921, but not for other years.
[8] Not strictly comparable with figures for 1923, 1925, and 1927; includes power pumps and equipment only for 1914 and 1921; for 1923, 1925, and 1927 also includes hand pumps.

Source: Bureau of the Census, Department of Commerce.

No. 821.—METAL-WORKING MACHINERY (INCLUDING MACHINE TOOLS): PRODUCTION

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)		
	1919	1925	1927	1919	1925	1927
Metal-working machinery, total value				[1]	138,812	148,491
Machine tools				179,747	91,459	107,101
Metal-working machinery, other than machine tools				[1]	47,353	39,201
Machine tools:						
Bending machines	153	807	439	942	642	369
Boring machines	1,433	802	598	8,768	3,032	3,352
Broaching machines	549	435	255	1,395	540	372
Cutting-off machines	[2]	1,786	2,056	[2]	497	602
Drilling machines	16,642	[3]	6,891	11,430	7,046	7,745
Forging machines	[2]	85	738	[2]	779	2,481
Gear-cutting machines	2,688	1,271	1,267	5,845	4,258	4,417
Grinding machines	[3]	[3]	5,965	15,803	10,734	12,250
Hammers, stationary	38,535	855	324	4,952	829	560
Lathes	29,031	[3]	11,067	37,475	16,345	18,750
Milling machines	11,480	[3]	2,978	18,526	6,489	8,545
Pipe cutting and threading machines	4,118	2,637	2,281	2,481	1,305	1,344
Planers	1,482	193	196	8,129	1,105	1,867
Portable tools	[3]	[3]	[3]	10,908	11,896	16,802
Presses	35,786	[3]	[3]	6,357	7,995	8,770
Punching machines (stationary)	[2]	1,034	587	[2]	1,910	862
Riveting machines (stationary)	[2]	[3]	1,338	[2]	687	673
Screw machines (automatic)	6,227	2,301	1,810	9,625	5,919	5,209
Shapers	4,515	1,125	986	4,231	1,615	1,629
Shears (power)	1,367	1,892	1,771	1,566	1,351	1,308
Slotters	[2]	62	36	[2]	405	182
Threading machines (excepting pipe)	[2]	[3]	[3]	[2]	839	1,613
All other machine tools	[3]	[3]	[3]	31,314	5,241	7,399
Metal-working machinery, other than machine tools:						
Rolling-mill machines	[1]	[1]	[3]	[1]	15,001	14,308
Sheet-metal working machines	[1]	[1]	[3]	[1]	17,468	17,545
Wire-drawing machines	[1]	[1]	[3]	[1]	670	1,504
Other metal-working machines	[1]	[1]	[3]	[1]	14,214	5,844

[1] No comparable data, due to changes in classification.
[2] Not reported separately.
[3] Data incomplete.

Source: Bureau of the Census, Department of Commerce.

No. 822.—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	1914	1921	1923	1925	1927
Total value	359,432	884,594	1,377,515	1,653,550	1,753,596
Generators (not specified elsewhere):					
Alternating current—					
Number	[1] 2,512	1,687	1,975	2,098	2,856
Kilovolt-amperes (thousands)	[1] 1,188	2,994	[2]	3,674	3,632
Value	[1] 7,437	15,513	18,508	17,899	18,335
Direct current—					
Number	[3] 9,633	5,691	10,308	15,972	16,559
Kilowatts (thousands)	221	185	[2]	[2]	[2]
Value	[3] 2,967	2,923	4,235	5,317	4,503

[1] Figures not comparable with those for later years because of change in classification; synchronous condensers and frequency changers reported with rotating converting apparatus for 1914.
[2] No comparable data.
[3] Not comparable with figures for later years; exclude generators under 10 kilowatts. (See note 4.)

No. 822.—Electrical Machinery, Apparatus, and Supplies: Value of Products by Classes—Continued

[All figures in thousands of dollars]

Product	1914	1921	1923	1925	1927
Automotive generators and motors for charging, lighting, and starting	[4] 5,933	27,443	54,007	56,221	58,128
Self-contained power and lighting outfits	([5])	4,043	7,685	11,143	9,598
Transformers, induction-voltage regulators, and current-limiting reactors	14,514	42,103	59,115	62,153	66,804
Motor-generator sets and dynamotors	5,368	6,311	7,305	8,264	6,764
Control apparatus, railway, vehicle, motor, and other	[6] 8,395	19,551	33,177	31,303	34,181
Electric locomotives (mining, industrial, and railway)	3,721	9,397	8,865	10,331	9,858
Stationary motors (not fan), total	27,594	58,078	84,778	92,648	97,673
Fractional horsepower	[7] 1,191	16,907	23,939	28,249	33,903
One horsepower and over—					
Direct current	9,800	9,358	13,865	15,797	15,628
Alternating current	16,604	31,814	46,973	48,602	48,142
Railway and vehicle motors, not including automotive starter-motors	7,234	6,974	10,586	7,515	10,528
Electric fans	4,836	8,611	9,914	10,896	10,755
Motor parts and supplies	4,512	9,394	13,825	12,947	14,147
Storage batteries, parts and supplies	13,081	48,558	92,843	110,212	97,808
Primary batteries	9,522	14,609	21,446	40,982	46,283
Primary battery parts and supplies	800	3,716	3,776	4,054	6,298
Carbons: Electrodes for lighting and furnaces, brushes, and specialties	3,603	5,528	14,746	13,955	14,364
Incandescent lamps	17,350	59,728	71,966	73,558	87,933
Telegraph apparatus	[6] 202	244	2,086	2,922	5,561
Telephone apparatus	22,816	101,992	92,398	81,510	115,452
Fire-alarm apparatus	1,254	2,404	2,640	3,490	3,611
Radio apparatus, including tubes	[6] 702	10,648	54,000	176,990	198,436
Household apparatus and appliances:					
Vacuum cleaners, portable	([5])	19,753	35,982	39,971	36,222
Flatirons	1,467	4,731	8,199	7,998	7,917
Cooking utensils	[6] 1,327	3,164	5,486	7,921	11,668
Ranges, disk stoves, and hot plates	[8] 671	[8] 1,795	3,677	7,901	12,119
Radiators and radiant heaters	([5])	1,151	1,862	2,028	1,439
Electric measuring instruments	8,787	21,033	28,221	31,050	34,133
Switchboards, panel boards, cabinets, circuit breakers, and switches	[6] 15,383	36,299	57,856	69,759	71,924
Magneto-generators	22,261	4,065	10,304	9,930	7,708
Spark plugs		10,013	13,660	13,878	13,372
Coils		6,511	7,868	7,837	8,467
Insulated wires and cables	69,506	98,333	184,472	210,617	210,048
Searchlights, flood lights, headlights; motion-picture, photo-engraving, and stage projectors	2,082	1,943	2,479	2,801	4,561
Railway signals and attachments	([5])	1,620	4,466	14,030	22,340
Fuses, cut-outs and fuse plugs	1,757	4,483	9,245	10,393	10,891
Wiring devices	[6] 7,580	21,806	34,966	34,806	32,703
Lightning arresters and choke coils	1,189	2,044	3,834	5,961	6,327
Electric railway line materials	([5])	2,691	8,796	4,240	5,446
Conduits, underground and interior	4,875	19,346	37,500	[9] 46,330	[9] 42,133
Electric-signaling apparatus (other than railway)	675	6,444	7,142	5,081	6,365
Electrotherapeutic apparatus, exclusive of X-ray tubes and motor-driven devices	2,653	6,820	5,991	9,788	13,802
All other	57,290	152,779	237,610	275,321	[10] 277,249

[4] Not comparable with figures for later years; includes generators under 10 kilowatts, not used as automotive generators.
[5] Not reported separately.
[6] Not strictly comparable with figures for later years because of changes in classification.
[7] Reported as motors for miscellaneous uses.
[8] Reported as "stoves and ranges" in 1914 and as "ranges" in 1921.
[9] Not strictly comparable with preceding years; includes interior conduits only.
[10] Includes "All other" products made in electrical establishments and $85,490,897, the value of custom work and repairs.

Source: Bureau of the Census, Department of Commerce.

No. 823.—FARM EQUIPMENT: PRODUCTION

NOTE.—For all wagons, see Table 825; for all tractors, see Table 819

Class	Number				Value (thousands of dollars)			
	1926	1927	1928	1929	1926	1927	1928	1929
All products, total value					461,400	460,881	524,255	607,069
Plows and listers					33,143	29,477	32,159	42,365
Moldboard plows	630,189	525,446	552,107	656,859	18,812	14,812	15,512	20,346
Disk plows	24,250	21,425	25,952	46,504	2,220	2,396	3,119	7,145
Listers	56,087	35,690	38,645	[1] 48,576	2,232	1,538	1,646	[1] 2,085
Other plows	14,743	13,988	16,268	18,622	800	1,686	2,396	1,136
Attachments and parts, incl. plow stocks and steel plow shapes					9,584	9,045	9,486	11,653
Harrows, rollers, pulverizers, and stalk cutters					15,553	13,868	14,687	16,813
Disk harrows	141,964	122,680	134,127	138,849	8,062	7,051	7,491	8,712
Spike-tooth harrow sections	315,844	242,459	283,612	339,192	2,219	1,725	1,963	2,307
Spring-tooth harrow sections	117,757	117,434	133,029	126,306	1,316	1,242	1,509	1,445
Stalk cutters	11,722	10,400	10,456	11,696	448	377	396	439
Other, incl. attachments and parts					3,508	3,473	3,328	3,910
Planting and fertilizing machinery					26,591	24,560	26,505	31,145
Corn planters, one and two row	72,242	55,927	59,569	74,778	3,383	2,601	2,775	3,425
Combined corn and cotton planters	74,248	44,529	45,715	93,959	2,205	1,093	1,048	2,565
Combined listers and drills	22,908	9,231	5,289	7,004	1,671	674	430	604
Grain drills	47,113	58,629	73,434	138,849	5,275	6,638	8,736	10,035
Broadcast seeders	77,439	78,512	72,275	[2] 14,081	654	679	618	[2] 360
Manure spreaders	67,322	67,722	62,559	61,000	8,245	8,298	7,364	7,190
Other, incl. attachments and parts					5,158	4,572	5,534	6,976
Cultivators and weeders					20,311	14,296	15,864	22,857
1-horse	136,454	132,244	159,173	202,755	755	698	834	979
1-row	215,345	121,237	129,379	166,948	8,138	4,405	4,730	5,906
2-row	64,723	41,307	37,567	54,505	5,239	3,504	3,191	4,487
Hand cultivators (wheeled hoes)	143,832	147,065	133,214	153,434	506	447	413	459
Other cultivators and weeders	64,195	58,189	93,108	120,476	2,338	2,917	4,013	6,249
Attachments and parts					3,335	2,325	2,683	4,777
Harvesting machinery					46,007	57,319	67,291	87,719
Grain binders	79,155	71,091	67,099	65,069	12,134	10,831	10,610	10,661
Combines (harvester—thresher)	11,760	18,307	25,392	36,957	15,863	26,885	35,693	50,684
Corn binders	26,449	21,423	21,174	15,246	3,641	2,933	2,943	2,143
Potato diggers	10,134	15,780	19,930	12,767	586	1,003	1,290	739
Other harvesting machinery	29,594	24,604	27,213	32,434	4,177	3,733	5,456	5,398
Attachments and parts					9,606	11,934	11,299	18,039
Haying machinery					13,951	15,387	16,058	18,711
Mowers	112,269	110,644	121,936	126,360	5,988	6,007	6,503	7,050
Rakes	72,537	86,489	87,644	98,870	3,028	3,590	3,647	4,121
Loaders	19,793	25,102	24,895	24,920	1,630	2,018	2,034	1,991
Other haying machinery	10,128	7,041	9,028	11,113	389	363	479	612
Attachments and parts					2,916	3,409	3,395	4,937
Machines for preparing crops for market or use					34,127	32,329	33,466	30,103
Threshers	17,320	16,595	19,261	14,571	17,361	15,044	16,861	12,774
Ensilage and fodder cutters	14,802	15,280	14,740	11,530	2,197	2,088	2,099	1,708
Corn shellers	44,713	47,396	48,915	40,378	1,219	1,168	1,493	1,573
Corn huskers and shredders	3,531	2,448	1,423	972	1,775	1,150	711	460
Hay presses	3,457	3,325	3,674	3,460	1,061	1,072	1,082	1,196
Feed grinders and crushers	108,752	104,755	101,335	101,592	1,915	2,049	2,540	3,215
Other machines	80,225	72,091	163,336	108,638	2,435	2,513	1,705	2,483
Attachments and parts					6,164	7,245	6,975	6,724
Tractors	181,995	200,504	175,934	228,978	145,913	159,531	191,978	227,633
Wheeled types	170,202	184,594	152,266	195,980	100,243	101,649	113,376	141,653
Tracklaying type, all sizes	7,772	10,319	19,203	27,101	22,024	27,720	48,211	53,602
Motor cultivators	3,921	5,591	4,465	5,895	569	814	822	903
Attachments and parts					23,076	29,348	29,070	31,470
Horse-drawn vehicles	154,741	119,330	136,826	114,287	13,658	8,884	9,974	8,813
Farm wagons	74,693	50,810	57,081	40,687	6,887	4,427	4,946	3,790
Farm trucks	57,291	48,278	62,889	60,969	2,415	1,926	2,521	2,518
Buggies	8,854	7,019	4,269	2,589	756	612	403	222
All other (incl. 2-wheeled carts)	13,903	13,223	12,587	10,022	337	360	260	251
Attachments and parts					3,263	1,559	1,844	2,032
Miscellaneous equipment					112,141	105,230	116,238	120,910
Stalls, stanchions, and stock pens					2,616	2,743	2,877	3,125
Stock tanks and waterers	250,978	305,065	353,583	361,026	1,953	1,895	2,022	2,087
Cream separators	194,270	191,996	203,857	172,187	9,229	8,093	9,673	7,695
Internal-combustion engines	177,247	131,610	140,833	146,690	12,910	8,619	9,016	9,134
Windmills and windmill towers	133,011	120,597	149,923	132,166	4,670	4,555	5,573	5,411
Other, incl. attachments and parts					80,763	79,320	87,112	93,458

[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."

Source: Bureau of the Census, Department of Commerce.

No. 824.—MUSICAL INSTRUMENTS AND PHONOGRAPHS: PRODUCTION

Industry and product	Number			Value (thousands of dollars)		
	1923	1925	1927	1923	1925	1927
MUSICAL INSTRUMENTS AND MATERIALS						
All products, total value				175,336	170,742	131,086
Pianos:						
Upright	105,748	87,285	69,864	21,675	16,874	12,262
Upright, player	170,549	143,831	76,447	46,296	38,167	20,028
Upright player, reproducing type	12,658	5,476	4,096	4,649	2,193	1,420
Grand—						
Baby	38,024	40,357	43,772	16,101	16,244	17,541
Baby, player	6,769	12,884	7,713	5,429	8,360	5,856
Parlor	5,899	9,170	8,757	3,835	5,483	5,320
Parlor, player	2,737	2,699	1,224	3,065	3,631	1,726
Concert	666	579	293	932	453	290
Automatic and electric	4,539	4,303	3,574	2,380	2,322	1,640
Organs:						
Pipe	1,712	1,955	2,451	9,654	12,808	16,667
Reed	7,772	4,360	3,091	538	442	385
Band and orchestral instruments:						
Wind instruments				7,812	9,478	8,395
Brass				7,305	8,846	6,550
Wood				507	632	1,845
Stringed instruments				3,469	5,859	4,201
Percussion and other instruments (chimes, xylophones, drums, bells, traps, etc.)				2,288	2,886	2,715
Perforated music rolls				5,262	6,068	3,217
Pneumatic player actions for installation in player pianos and cabinet player attachments made separate from pianos				14,693	14,782	6,608
Parts and materials for musical instruments other than pianos and organs				1,851	1,867	1,992
Orchestrions				38		
Organ parts and materials, for sale as such				1,265	1,842	1,810
Piano parts and materials, for sale as such				17,695	15,223	13,828
All other products				4,894	4,157	3,350
Receipts for custom work, repairing, etc.				1,515	1,653	1,815
PHONOGRAPHS [1]						
All products, total value				107,311	61,057	95,296
Phonographs:	*Thousands*	*Thousands*	*Thousands*			
For disk records	978	642	[3] 1,046	55,395	22,614	[3] 40,242
All other [2]	20			1,642		
Disk records	92,855	82,125	104,766	35,714	26,791	31,486
Cylinder records and blanks	5,249		(4)	658		205
Needles, parts, and all other				13,902	11,652	14,273

[1] Excludes subsidiary products reported by establishments engaged primarily in other industries, which amounted to $1,301,787 in 1923; $3,603,378 in 1925, and $3,089,298 in 1927.
[2] Dictating machines and other phonographs using cylinder records.
[3] Includes data for combination phonographs and radios to avoid disclosing production of individual establishments.
[4] Number not reported for 1927.

Source: Bureau of the Census, Department of Commerce.

No. 825.—VEHICLES AND AIRCRAFT: PRODUCTION

Industry and product	Number			Value (thousands of dollars)		
	1914	1925	1927	1914	1925	1927
MOTOR VEHICLES						
Motor-vehicle industry, total value of products				503,230	3,198,123	2,848,443
Motor vehicles made in motor-vehicle industry	568,781	4,176,519	[1] 3,354,805	458,761	2,951,921	[1] 2,546,807
Other products of motor-vehicle industry				44,469	246,202	301,636
Motor vehicles made in other industries	[2] 4,258	1,728	967	[2] 6,297	730	1,119
Total motor vehicles, incl. chassis and trailers	[2] 573,039	4,178,247	3,355,772	[2] 465,058	2,952,651	2,547,926
Passenger vehicles	543,881	3,581,240	2,826,274	414,542	2,527,575	2,175,545
Touring, open	451,032	1,095,186	211,278	345,973	516,206	113,305
Roadsters, runabouts, and sport (speedsters), open	81,597	390,062	197,880	45,890	180,845	116,100
Closed	11,098	2,080,697	2,407,160	22,350	1,786,834	1,917,344
Public conveyances (cabs, etc.)		15,295	8,968		43,690	27,982
All other	154		988	329		814
Government and municipal vehicles	728	1,233	1,599	3,941	10,488	11,521
Business vehicles	24,172	341,811	329,673	40,278	287,243	258,404
Delivery cars	4,391	35,976	60,981	4,750	24,080	33,883
Trucks	19,519	303,824	266,492	34,741	257,804	220,050
All other	262	2,011	2,200	787	5,359	4,471
Chassis	[3]	240,790	178,487	[3]	121,516	95,244
Passenger	[3]	87,780	56,074	[3]	39,919	27,156
Business	[3]	153,010	122,413	[3]	81,597	68,088
Trailers	[3]	12,823	19,739	[3]	4,937	7,212
Tractors [4]	[3]	350		[3]	892	
MOTOR CYCLES, BICYCLES, AND PARTS						
All products				22,234	25,319	22,013
Motor cycles	62,154	39,350	35,197	12,162	8,876	8,001
Bicycles	299,029	303,446	255,456	3,757	7,031	5,803
Parts, repairs, and all other products				6,315	9,412	8,209
CARS, STEAM AND ELECTRIC RAILROAD [5]						
All products				205,271	390,771	312,509
Steam:						
Passenger (day coaches only)	1,653	532	967	19,607	11,991	22,621
Sleeping, baggage, express, etc., in passenger service	1,792	1,589	998	24,404	42,949	29,759
Box	50,481	49,230	19,645	40,953	101,024	45,319
Flat	4,781	2,306	1,656	3,120	3,225	2,338
Gondolas	25,077	21,402	10,479	22,809	42,002	20,023
Hopper	9,754	3,243	8,734	10,708	5,870	19,917
Refrigerator	5,800	4,704	9,004	8,077	14,741	25,633
Stock	3,929	3,310	1,016	2,587	5,877	1,882
Tank	1,250	5,396	5,455	1,255	10,702	10,449
Other varieties	15,584	4,420	2,520	6,709	8,800	6,946
Electric:						
Passenger	2,335	1,753	1,194	8,076	19,030	19,320
Other varieties	207	81	98	714	419	438
All other products, including repairs				56,252	124,141	107,364
CARRIAGES AND WAGONS						
All products				109,657	29,583	22,648
Wagons	572,409	211,418	125,704	36,533	16,400	8,475
Carriages and buggies	550,401	20,646	7,019	34,193	1,884	612
Other conveyances	54,605	4,054	6,611	1,557	2,147	3,011
All other products, parts, repairs, etc.				37,373	9,152	10,550
AIRCRAFT						
All products					12,775	21,614
Airplanes	[6]	711	1,888	[6]	5,908	12,225
Seaplanes	[6]	78	107	[6]	765	2,280
Under construction at close of year	[6]	259		[6]	1,429	
Parts and engines for sale as such				[6]	3,795	5,037
All other products, including repairs				[6]	878	2,072

[1] Exclusive of tractors which were included with "Other products of motor-vehicle industry."
[2] The numbers and values of the complete vehicles manufactured in 1914 by establishments in the bodies and parts branch and in other industries are included in the totals but not in the distribution by class.
[3] Not reported separately.
[4] 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. For total production of tractors, see Table 810.
[5] Not including cars built or repair work done by railroad companies.
[6] Figures not available.

Source: Bureau of the Census, Department of Commerce.

No. 826.—COTTON SPINDLES, COTTON CONSUMPTION, AND STOCKS

NOTE.—The statistics for 1915 to 1929 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 halfbales, 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
1911	30,804	29,523	11,085	16,511	1,927	456	4,498	2,249	1,882	367
1912	31,583	30,579	11,583	17,140	1,856	500	5,129	2,636	2,076	417
1913	32,150	31,520	12,227	17,311	1,981	455	5,483	2,802	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

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	[6] 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
1911	4,498	4,323	4,259	64	175	207	499	417	81	43
1912	5,129	4,922	4,827	95	208	238	818	733	85	53
1913	5,483	5,250	5,196	55	233	303	718	638	80	60
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	150
1929	7,091	6,778	6,777	1	313	879	1,052	932	120	187

[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 1909.
[6] Average, 1907 to 1910.
[7] Average, 1909 and 1910.

Source: Bureau of the Census, Department of Commerce.

No. 827.—COTTON SPINDLE HOURS AND COTTON CONSUMPTION

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				
	1925	1926	1927	1928	1929	1925	1926	1927	1928	1929
Total	94,600	97,029	104,450	92,729	99,899	92.9	95.4	104.7	95.3	104.7
January	8,554	8,356	8,554	8,263	9,227	97.2	98.6	102.0	101.0	111.0
February	7,893	8,121	8,239	7,970	8,223	100.5	103.2	106.5	101.3	110.7
March	8,615	9,169	9,638	8,310	8,911	100.0	102.2	109.8	96.8	109.4
April	8,520	8,345	8,788	7,415	8,861	100.2	98.2	105.6	94.8	110.3
May	7,932	7,503	8,983	7,966	9,164	93.8	88.9	108.9	95.1	110.9
June	7,686	7,606	9,191	7,252	8,160	89.2	88.4	109.3	88.4	104.8
July	7,310	6,750	8,033	6,251	7,757	84.6	78.7	99.1	79.7	100.3
August	6,935	7,487	8,971	7,424	8,130	80.1	87.4	102.9	87.1	97.7
September	7,107	8,257	8,776	6,963	7,881	83.8	98.5	106.6	90.1	104.0
October	7,963	8,367	8,727	8,698	9,004	89.5	98.9	105.0	103.5	108.7
November	7,825	8,483	8,690	8,518	7,812	96.0	101.3	106.7	107.4	100.9
December	8,261	8,585	7,859	7,698	6,770	99.4	100.7	93.9	98.3	88.2

Source: Bureau of the Census, Department of Commerce.

No. 828.—COTTON SPINDLE ACTIVITY AND CONSUMPTION, BY STATES

NOTE.—All data except as specified are for years ended July 31. See headnote, Table 827

Section and State	Cotton spindles in place (thousands)			Spindle hours (millions)			Cotton consumed, excluding linters (thousands of bales)				
	Aug. 31, 1911	July 31, 1928	July 31, 1929	1926–27	1927–28	1928–29	1911–1915 average	1921–1925 average	1926–27	1927–28	1928–29
United States	30,804	357,540	34,820	102,605	96,451	99,604	5,257	5,889	7,190	6,834	7,091
The South	11,657	18,508	18,848	65,865	65,273	68,360	2,740	3,811	5,194	5,114	5,392
New England	17,045	15,463	14,549	33,052	27,862	28,253	2,101	1,732	1,675	1,438	1,448
Other States	2,102	1,569	1,423	3,688	3,316	2,991	416	326	321	282	251
Alabama	968	1,628	1,805	5,085	5,213	6,036	275	385	570	552	617
Connecticut	1,270	1,122	1,105	2,544	2,567	2,736	127	106	104	106	111
Georgia	1,981	3,080	3,125	10,270	10,735	11,319	589	840	1,153	1,168	1,270
Maine	1,067	1,106	1,059	2,117	1,991	1,964	170	159	136	122	122
Massachusetts	10,013	9,350	8,587	20,116	15,785	15,698	1,269	1,023	973	790	779
New Hampshire	1,463	1,414	1,391	2,745	2,591	2,501	292	206	232	207	206
New Jersey	483	379	331	757	730	643	56	43	36	35	32
New York	964	802	688	1,922	1,704	1,560	199	168	162	140	128
North Carolina	3,354	6,192	6,223	23,002	22,045	22,143	840	1,197	1,640	1,584	1,631
Pennsylvania	280	114	98	259	221	185	48	29	27	24	18
Rhode Island	2,527	2,326	2,290	5,197	4,633	5,049	232	228	219	204	219
South Carolina	4,187	5,492	5,586	21,428	21,102	22,559	743	941	1,245	1,229	1,302
Tennessee	253	602	617	1,945	2,124	2,350	74	108	151	158	176
Virginia	373	709	709	1,839	1,660	1,585	85	112	130	120	106
All other States	1,021	1,224	1,156	3,379	3,350	3,276	258	325	411	395	374

Source: Bureau of the Census, Department of Commerce.

No. 829.—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	1921	1922	1923	1924	1925	1926	1927	1928	1929
Black blasting powder	6,401	7,155	8,078	6,683	6,279	6,307	5,868	4,870	4,802
Railway and other construction work	164	310	370	341	382	301	249	317	275
Coal mining	5,613	6,190	7,020	5,625	5,297	5,444	4,503	4,036	4,082
Metal mining [1]					138	114	86	84	91
Quarrying and nonmetallic mineral mining [1]					240	236	231	202	183
Other mining	185	168	175	144					
All other purposes	439	487	513	572	221	212	199	231	170
High explosives other than "permissible"	170,952	209,476	267,405	273,328	286,435	310,518	303,488	292,785	326,993
Railway and other construction work	18,317	22,434	31,930	40,647	39,916	44,982	48,253	50,767	60,060
Coal mining	34,232	25,498	37,829	36,608	26,947	35,229	34,173	30,077	31,752
Metal mining [1]					102,523	110,374	102,122	96,088	108,939
Quarrying and nonmetallic mineral mining [1]					71,501	76,186	73,506	74,820	79,505
Other mining	50,977	78,074	105,004	103,836					
All other purposes	67,426	83,470	92,642	92,231	45,448	43,747	40,413	41,032	46,738
"Permissible" explosives	41,134	43,430	60,371	55,134	58,353	67,685	63,847	60,708	62,669
Railway and other construction work	263	154	324	265	263	242	216	158	154
Coal mining	38,056	40,198	56,807	52,147	52,256	65,143	60,942	57,261	60,244
Metal mining [1]					3,533	216	191	231	165
Quarrying and nonmetallic mineral mining [1]					838	581	536	1,243	370
Other mining	852	1,453	783	515					
All other purposes	1,934	1,625	2,457	2,207	1,463	1,503	1,902	1,814	1,735

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

No. 830.—EXPLOSIVES: AMOUNTS (EXCLUDING EXPORTS) MANUFACTURED IN THE UNITED STATES AND SOLD IN EACH STATE, CALENDAR YEAR, 1929

NOTE.—See headnote to Table 829

State of sale	Black blasting powder	High explosives other than "permissible"	"Permissible" explosives	State of sale	Black blasting powder	High explosives other than "permissible"	"Permissible" explosives
	Kegs [1]	*Pounds*	*Pounds*		*Kegs* [1]	*Pounds*	*Pounds*
Total	4,801,826	326,993,276	62,669,434	Montana	84,546	8,617,915	20,100
				Nebraska	1,381	497,225	----------
Alabama	79,260	7,709,405	3,719,900	Nevada	22,542	5,041,050	----------
Alaska	22	2,375,604	45,050	New Hampshire	544	407,750	----------
Arizona	12,938	13,727,925	500	New Jersey	187	3,106,300	25
Arkansas	66,422	3,326,694	149,950	New Mexico	15,340	3,603,725	334,800
California	133,529	17,324,670	1,700	New York	11,072	15,022,487	99,025
Colorado	73,465	5,229,110	680,950	North Carolina	7,642	2,073,350	12,400
Connecticut	503	1,222,675	225	North Dakota	35,842	267,750	54,600
Delaware	49	94,828	2,250	Ohio	308,515	11,265,713	188,625
Florida	9,707	2,987,600	----------	Oklahoma	77,493	9,812,953	312,508
Georgia	13,384	1,623,600	----------	Oregon	23,687	6,172,475	75
Idaho	9,818	6,261,415	1,050	Pennsylvania	952,873	44,248,397	33,022,536
Illinois	701,115	7,666,244	4,219,525	Rhode Island	126	121,850	----------
Indiana	371,156	3,896,850	831,125	South Carolina	10,670	719,704	----------
Iowa	207,915	3,128,090	3,075	South Dakota	2,023	1,458,145	3,200
Kansas	171,724	7,638,683	301,100	Tennessee	90,018	5,523,300	252,300
Kentucky	405,260	6,193,050	2,949,233	Texas	50,744	13,068,977	96,200
Louisiana	15	5,092,219	29,350	Utah	18,587	10,695,335	1,148,100
Maine	977	934,725	----------	Vermont	5,026	740,150	----------
Maryland [2]	23,135	1,372,650	191,000	Virginia	72,845	4,696,075	908,025
Massachusetts	2,995	4,134,775	----------	Washington	49,861	12,508,422	754,625
Michigan	8,660	23,328,165	1,900	West Virginia	446,578	6,981,925	11,167,870
Minnesota	29,833	14,741,330	----------	Wisconsin	4,116	5,945,475	----------
Mississippi	2,587	2,095,750	200	Wyoming	56,074	1,274,278	1,050,025
Missouri	123,025	11,016,493	107,312				

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

Source of Tables 829 and 830: Bureau of Mines, Department of Commerce.

No. 831.—FERMENTED LIQUORS AND DISTILLED SPIRITS PRODUCED

Year ended June 30—	Distilled spirits			Fermented liquors	Year ended June 30—	Distilled spirits			Fermented liquors
	Exclusive of fruit brandy	Fruit brandy	Total			Exclusive of fruit brandy	Fruit brandy	Total	
	1,000 tax gallons.[1]	*1,000 tax gallons.*[1]	*1,000 tax gallons.*[1]	*1,000 barrels*[2]		*1,000 tax gallons.*[1]	*1,000 tax gallons.*[1]	*1,000 tax gallons.*[1]	*1,000 barrels*[2]
1905	147,811	5,449	153,259	[3] 49,522	1922	81,086	1,077	82,163	[4] 6,348
1910	156,238	7,656	163,894	[3] 59,485	1923	123,208	1,417	124,626	[4] 5,269
1915	132,134	8,522	140,656	[3] 59,808	1924	136,682	847	137,530	[4] 4,891
1917	277,834	8,251	286,085	[3] 60,817	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

[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. 832.—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	Specially denatured	Total
	Proof gallons		*Proof gallons*	*Wine gallons*	*Wine gallons*	*Wine gallons*
1913		21	16,953,553	5,223,241	4,608,418	9,831,659
1915		23	25,411,719	5,386,647	8,599,822	13,986,469
1917		44	93,762,423	10,508,919	45,170,678	55,679,598
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	27,128,230	30,436,913	57,565,143
1924	135,897,726	83	121,576,196	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	92,418,026
1929	200,832,051	77	182,778,966	52,405,451	54,555,006	106,960,458

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

No. 833.—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 835

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	1920	639,982	168,597	146,907	324,478
1901–1905	451,461	124,411	12,444	314,606	1921	612,251	143,228	158,336	310,687
1906–1910	524,193	139,206	22,079	362,908	1922	646,816	151,709	169,597	325,510
1911–1915	578,283	151,890	52,207	374,186	1923	689,036	159,753	200,395	328,889
1916–1920	650,460	155,312	130,320	364,828	1924	693,858	153,413	217,700	322,745
1921–1925	672,077	151,421	198,069	322,588	1925	718,426	149,001	244,315	325,109
1913	593,235	162,986	56,559	373,690	1926	737,354	152,372	267,584	317,399
1917	659,581	157,732	113,279	388,570	1927	744,288	152,510	290,464	301,314
1918	692,014	149,837	146,056	396,121	1928	754,625	151,290	310,159	293,176
1919	648,384	151,504	166,783	330,097	1929[1]	781,676	155,371	339,638	286,667

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

Source of Tables 831, 832, and 833: Reports of the Commissioner of Internal Revenue, Treasury Department.

No. 834.—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 1929 to 25,943,998 cigars, 4,835,240,330 cigarettes, and 1,131,864 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	557,300	16,704	65,903,991
1920	412,630	138,563	11,766	8,681	219,271	34,349	8,096,759	633,222	28,039	47,430,105
1921	386,951	113,384	9,261	6,893	222,723	34,690	6,726,095	670,483	14,518	52,085,012
1922	419,506	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	9,902	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	17,429	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 [2]	377,755				[3] 337,718	40,037	6,551,083	420,167	10,264	119,038,842

State	Number of factories Jan. 1, 1929, making—			Production in 1928 (calendar year)				
	Tobacco and snuff	Cigars	Cigarettes	Tobacco and snuff (1,000 pounds)	Cigars (thousands)		Cigarettes (thousands)	
					Large	Small	Large	Small
Total	1,243	7,502	133	386,333	6,373,182	415,535	10,403	108,705,506
California	33	236	11	124	66,297	38,454	48	4,399,034
Connecticut	11	157		52	35,650			
Florida	12	304	2	5	601,998			3,596
Georgia	2	53	2	5	30,095			3,256
Illinois	142	846	6	34,096	83,719		567	3,354
Indiana	42	190		364	183,488			
Kentucky	42	65	3	25,330	76,371			716,553
Louisiana	56	48	1	93	73,268			4,252
Maryland	6	96	1	2	44,490			11
Massachusetts	31	363	8	394	113,681		78	4,156
Michigan	37	221	3	15,195	270,816			4,618
Minnesota	32	159		76	27,502	1		
Missouri	18	189	2	54,037	34,244			17,748
New Hampshire	2	24		1	55,361			
New Jersey	24	213	4	9,358	768,789	5,473	3	5,345,482
New York	290	1,621	61	7,027	526,618	22,104	9,312	9,475,383
North Carolina	14	17	7	122,826	16,555			65,138,977
Ohio	97	453		59,401	481,749	7		
Pennsylvania	146	1,032	12	4,908	2,186,995	85,333	260	3,322,494
Tennessee	20	31		20,561	96,851			
Virginia	14	42	8	16,702	341,322	264,163	135	20,266,199
West Virginia	8	37	1	11,468	81,509			392
Wisconsin	55	437		716	46,421			
All other	109	668	1	2,994	129,396			

[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.

Source: Annual Report of the Commissioner of Internal Revenue.

No. 835.—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 833

	1923	1924	1925	1926	1927	1928	1929
Leaf tobacco consumed in manufacture:							
In registered factories	689,036	693,858	718,426	737,354	744,288	754,625	781,676
In bond	34,305	28,589	18,519	19,059	16,073	28,132	13,267
Manufactured tobacco imported:							
From Porto Rico	3,878	3,535	4,151	3,564	2,967	3,088	2,914
Other countries	5,037	3,894	4,001	3,859	3,498	3,264	2,682
Exports of manufactured tobacco	41,907	37,060	29,726	33,834	26,358	40,203	30,572
Remaining for consumption	690,349	692,816	715,371	730,002	740,468	748,906	769,967
Per capita consumption—pounds	6.18	6.09	6.20	6.23	6.24	6.24	6.32

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. 836.—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 include all cities having a population of 50,000 or over in 1920 and some cities having a population of 25,000 or over. The estimated cost of buildings authorized in 257 identical cities since 1921 is as follows: 1921, $1,573,000,000; 1922, $2,459,000,000; 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. 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				
	1925	1926	1927	1928	1929	1925	1926	1927	1928	1929
						1,000 dollars	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
Akron, Ohio	5,351	5,024	5,495	5,356	5,560	14,454	15,983	20,196	19,485	21,640
Albany, N. Y	3,492	2,992	2,684	2,226	1,784	14,704	25,754	16,189	14,894	9,035
Allentown, Pa	1,588	1,706	1,663	1,556	1,388	8,687	9,218	6,588	5,935	4,510
Altoona, Pa	1,709	1,548	1,480	1,313	1,932	3,002	3,023	3,641	3,361	1,984
Atlanta, Ga	3,849	3,784	4,085	3,952	2,946	10,153	17,173	11,861	27,395	12,564
Atlantic City, N. J	1,786	1,216	1,091	839	701	11,625	9,255	5,823	7,411	7,483
Augusta, Ga	1,409	1,436	1,965	2,233	1,915	1,436	1,167	1,459	1,551	1,137
Baltimore, Md	21,927	22,135	20,625	17,099	19,332	45,458	42,456	28,438	33,945	33,175
Bayonne, N. J	554	429	338	504	329	3,086	2,876	1,950	1,995	1,107
Berkeley, Calif	4,280	3,200	2,669	2,487	1,806	10,056	7,334	6,683	6,077	6,369
Bethlehem, Pa	678	767	803	743	604	6,150	2,151	2,477	3,843	2,905
Binghamton, N.Y	1,962	1,832	2,441	2,273	2,747	4,497	3,278	4,291	3,456	3,988
Birmingham, Ala	6,198	5,595	5,392	5,687	3,071	16,662	17,174	21,787	14,225	8,234
Boston, Mass	10,965	9,815	9,339	9,255	8,169	70,718	51,484	60,987	55,699	53,824
Bridgeport, Conn	1,040	1,020	1,145	1,135	1,172	3,719	3,458	5,187	3,527	4,242
Brockton, Mass	1,075	900	952	887	927	1,720	1,879	1,433	1,726	1,437
Brookline, Mass	608	533	536	588	479	9,806	4,951	5,902	6,291	5,022
Buffalo, N. Y	9,450	7,230	6,605	5,545	4,326	26,774	27,413	33,073	24,402	24,128
Cambridge, Mass	1,256	1,084	1,057	1,052	941	11,711	8,270	9,557	8,084	12,166
Camden, N. J	2,114	2,246	1,751	1,293	1,131	7,913	6,571	5,330	7,423	6,164
Canton, Ohio	2,635	2,359	1,944	1,579	1,507	8,966	5,321	4,156	3,662	3,456
Charleston, S. C	573	402	433	454	673	732	466	586	561	671
Chattanooga, Tenn	2,740	3,079	3,006	2,939	3,218	4,977	4,808	4,874	4,703	2,261
Chester, Pa	709	693	664	489	343	3,442	3,586	2,396	1,747	1,099
Chicago, Ill	31,954	28,660	26,100	19,982	15,849	373,804	376,808	365,065	323,509	210,796
Chicopee, Mass	960	596	445	406	417	3,654	1,557	1,117	1,276	1,442
Cincinnati, Ohio	7,802	8,332	8,662	9,431	8,971	31,970	1,557	30,570	35,459	31,037
Cleveland, Ohio	16,128	13,912	12,108	10,593	9,863	67,916	29,257	45,481	56,159	37,733
Columbus, Ohio	7,160	7,046	6,030	5,350	3,557	29,353	25,251	23,283	16,237	10,613
Council Bluffs, Iowa	669	498	376	283	347	1,772	2,022	930	810	674
Covington, Ky	844	797	726	580	409	2,915	2,152	1,722	1,592	1,479
Dallas, Tex	5,283	4,262	3,533	3,428	3,251	28,354	16,123	9,774	8,089	9,669
Davenport, Iowa	853	662	708	1,235	1,489	1,831	1,183	2,053	1,350	2,342
Dayton, Ohio	3,388	2,922	3,118	2,617	2,017	12,484	11,011	10,332	10,358	6,348
Denver, Colo	7,064	6,152	7,339	6,154	6,111	24,713	13,873	15,755	16,771	16,576
Des Moines, Iowa	2,130	1,383	1,243	1,299	1,171	6,184	5,869	2,876	4,510	4,082
Detroit, Mich	41,892	40,204	28,104	28,541	26,554	180,133	183,721	145,556	129,260	100,537
Dubuque, Iowa	1,067	966	918	328	793	1,291	1,729	1,288	877	834
Duluth, Minn	2,781	2,229	2,453	2,175	1,700	7,059	1,686	4,431	3,289	3,686
East Orange, N. J	1,264	1,306	1,134	928	769	7,495	9,035	12,313	7,632	5,946
East St. Louis, Ill	1,519	1,325	1,200	1,003	805	5,081	4,469	5,563	2,707	2,392
Elizabeth, N. J	1,766	1,119	1,454	910	731	8,998	11,166	10,923	5,504	4,095
El Paso, Tex	793	642	1,162	1,014	1,181	2,217	1,202	1,793	2,144	4,325
Erie, Pa	2,241	2,062	1,956	1,779	1,694	8,538	6,091	5,393	4,764	6,431
Evansville, Ind	1,885	2,278	1,861	1,805	1,354	3,270	4,468	3,416	5,111	4,421
Everett, Mass	725	660	667	535	418	2,194	3,485	2,098	1,761	1,125
Fall River, Mass	1,302	809	842	592	607	3,796	2,156	1,841	2,836	792
Fitchburg, Mass	685	452	318	202	230	2,128	1,564	638	822	546
Flint, Mich	4,388	6,487	8,785	6,700	6,717	6,274	13,029	22,087	14,423	14,684
Fort Wayne, Ind	2,759	2,565	1,844	1,646	1,927	10,923	7,751	6,002	5,011	7,039
Fort Worth, Tex	2,291	4,271	4,812	4,560	3,237	8,434	19,402	28,484	11,544	11,262
Galveston, Tex	2,859	2,906	2,551	2,243	1,895	1,703	3,201	2,974	2,677	3,613
Gary, Ind	2,717	3,305	2,857	1,966	1,162	13,058	22,074	15,017	6,041	3,146
Grand Rapids, Mich	6,471	9,610	8,386	5,401	4,415	12,187	16,869	12,319	8,187	6,087
Hamilton, Ohio	1,118	993	632	841	756	2,208	2,529	1,783	2,063	2,411

No. 836.—Building Permits Issued in Principal Cities—Continued

City and State	Total number of buildings					Proposed cost of buildings				
	1925	1926	1927	1928	1929	1925	1926	1927	1928	1929
						1,000 dollars	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
Harrisburg, Pa.	1,039	1,091	1,037	844	778	3,385	4,333	3,569	5,595	7,958
Hartford, Conn.	2,717	3,100	2,321	1,931	2,192	21,804	16,217	17,530	11,278	16,144
Haverhill, Mass.	323	358	371	324	336	667	845	910	554	941
Hoboken, N. J.	268	248	271	239	265	1,749	1,230	1,520	565	748
Holyoke, Mass.	726	489	432	350	298	3,413	2,607	2,044	1,261	1,256
Houston, Tex.	6,598	5,887	5,880	6,072	3,972	35,041	28,498	27,326	35,310	29,133
Huntington, W.Va.	1,817	763	509	270	306	5,414	1,840	1,547	982	1,455
Indianapolis, Ind.	14,053	11,706	13,572	10,217	6,785	24,840	19,030	23,682	21,967	14,844
Jackson, Mich.	1,334	1,305	1,201	1,230	1,227	2,599	4,180	2,576	2,097	3,492
Jacksonville, Fla.	3,778	5,823	5,002	3,431	2,557	14,601	20,789	12,768	7,660	4,580
Jersey City, N. J.	2,061	1,833	1,554	1,375	1,219	24,989	20,903	13,852	13,876	14,585
Johnstown, Pa.	(1)	1,035	672	556	522	(1)	3,913	1,386	1,095	682
Kalamazoo, Mich.	1,421	1,394	1,494	1,513	1,349	2,053	1,984	2,223	2,035	2,410
Kansas City, Kans.	2,121	1,714	1,163	1,043	867	3,737	2,520	1,587	1,651	1,844
Kansas City, Mo.	6,386	3,899	2,919	2,345	1,946	38,256	21,576	14,822	15,541	14,845
Kenosha, Wis.	1,641	1,770	963	894	945	4,040	5,122	4,468	3,726	4,577
Knoxville, Tenn.	2,691	2,414	2,470	2,138	1,220	6,329	10,710	5,699	7,115	5,499
Lakewood, Ohio	1,378	901	870	625	550	7,317	4,293	3,516	4,622	1,830
Lancaster, Pa.	899	717	856	647	671	4,132	2,328	3,005	2,389	1,982
Lansing, Mich.	1,629	1,689	1,301	1,340	1,308	5,369	4,493	7,330	5,204	8,738
Lawrence, Mass.	534	370	261	222	241	3,005	1,729	913	603	854
Lincoln, Nebr.	1,621	1,151	1,068	1,070	980	7,007	5,936	4,399	3,643	2,560
Little Rock, Ark.	2,218	2,186	2,008	1,528	1,376	5,108	6,888	2,994	4,260	3,268
Long Beach, Calif.	4,538	3,667	4,197	4,988	4,949	12,261	8,565	13,639	16,308	18,044
Los Angeles, Calif.	43,979	37,478	37,655	33,195	31,722	152,646	123,006	123,027	101,679	93,020
Louisville, Ky.	5,109	4,059	3,278	3,215	2,466	29,504	20,252	23,341	18,120	13,205
Lowell, Mass.	1,105	853	787	633	676	2,624	1,578	971	942	704
Lynn, Mass.	1,404	1,390	1,265	1,279	1,133	4,633	4,612	3,878	3,787	3,942
McKeesport, Pa.	950	2,309	1,905	1,325	1,320	2,384	2,525	2,356	2,185	1,674
Macon, Ga.	1,628	2,085	1,943	1,817	1,416	1,730	1,759	2,886	2,350	988
Malden, Mass.	880	860	866	630	534	3,006	3,611	3,800	2,893	1,804
Manchester, N. H.	1,315	1,047	1,189	970	1,044	2,361	1,373	1,940	1,059	1,241
Medford, Mass.	1,195	1,291	1,109	1,131	904	5,596	5,759	4,371	4,515	3,483
Memphis, Tenn.	4,728	4,795	4,017	4,005	3,178	15,316	15,332	12,403	14,283	8,962
Milwaukee, Wis.	7,960	8,327	8,609	7,258	7,501	31,477	3,814	37,748	35,406	37,947
Minneapolis, Minn.	9,948	8,090	6,791	6,580	6,054	29,446	20,609	22,430	23,258	20,960
Mobile, Ala.	831	690	872	1,647	1,655	2,638	1,816	2,146	3,346	1,667
Montgomery, Ala.	1,072	1,015	1,444	2,916	2,320	1,012	1,626	2,531	5,289	2,769
Mt. Vernon, N. Y.	939	913	962	946	577	10,877	24,827	16,775	14,262	6,179
Nashville, Tenn.	1,907	2,210	2,097	2,227	2,327	6,886	5,243	7,078	5,555	5,695
Newark, N. J.	4,548	4,518	3,998	2,972	2,763	39,607	41,198	51,452	34,285	28,838
New Bedford, Mass.	1,083	830	1,422	681	581	8,297	2,269	2,167	1,095	780
New Britain, Conn.	1,473	1,559	1,437	1,227	1,051	7,717	5,789	4,104	3,532	1,195
New Haven, Conn.	1,921	2,386	1,514	1,330	1,323	8,075	19,467	11,741	8,793	12,762
New Orleans, La.	2,580	2,152	2,433	2,882	1,933	16,345	18,586	15,807	12,628	11,971
New Rochelle, N. Y.	1,031	983	905	845	740	9,410	8,154	9,736	11,233	7,585
New York, N. Y.:										
Borough of Brooklyn	27,696	26,064	22,431	18,358	13,271	255,226	283,659	220,969	198,285	146,016
Borough of Bronx	7,962	10,348	11,864	10,959	7,811	157,134	214,580	172,588	180,825	95,666
Borough of Manhattan	4,066	3,880	3,832	3,787	3,692	398,931	341,256	290,321	361,723	595,522
Borough of Queens	30,911	28,748	26,579	22,101	16,152	196,217	186,174	184,438	151,566	94,510
Borough of Richmond	3,484	3,350	3,671	3,766	2,868	13,096	14,002	12,017	15,273	10,534
Niagara Falls, N. Y.	1,471	1,368	1,343	1,577	1,805	6,715	4,244	4,791	4,869	5,071
Norfolk, Va.	1,594	1,388	1,464	1,383	1,185	2,898	2,772	3,347	3,840	2,730
Oakland, Calif.	13,082	9,979	7,027	5,092	4,264	38,964	27,728	20,518	19,537	14,396
Oak Park, Ill.	1,095	960	1,020	836	529	8,085	6,470	9,081	9,290	5,721
Oklahoma City, Okla.	2,576	2,459	3,168	3,965	4,280	5,777	7,723	12,682	13,522	22,501
Omaha, Nebr.	2,905	1,490	1,035	1,169	1,046	14,652	9,926	4,567	9,050	5,581
Passaic, N. J.	769	766	987	975	976	14,652	3,337	5,603	3,062	4,870
Paterson, N. J.	2,449	2,377	2,458	2,258	2,123	6,659	7,463	6,370	7,357	4,872
Pawtucket, R. I.	1,345	1,111	1,140	991	904	7,709	3,724	3,587	2,823	1,995
Peoria, Ill.	1,785	1,459	1,492	1,418	1,207	5,566	5,685	3,410	3,951	3,604

[1] Data not received.

No. 836.—Building Permits Issued in Principal Cities—Continued

City and State	Total number of buildings					Proposed cost of buildings				
	1925	1926	1927	1928	1929	1925	1926	1927	1928	1929
						1,000 dollars	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
Philadelphia, Pa	24,949	17,805	19,082	16,423	10,388	171,034	140,093	117,591	112,226	104,406
Pittsburgh, Pa	8,444	7,747	7,869	7,070	6,128	52,272	43,790	37,111	39,374	35,639
Portland, Me	1,271	1,156	1,368	1,351	1,214	2,002	4,222	2,327	2,739	2,133
Portland, Oreg	15,196	13,256	11,294	9,567	7,646	38,476	32,589	28,973	21,276	15,504
Portsmouth, Va	442	370	403	472	386	778	557	463	689	407
Providence, R. I	7,025	5,297	5,442	4,979	5,046	23,196	23,188	23,133	16,004	14,943
Pueblo, Colo	1,266	1,051	1,445	1,458	1,281	2,346	1,246	1,625	1,467	1,572
Quincy, Ill	454	421	435	369	321	1,257	1,328	1,073	1,277	832
Racine, Wis	1,295	1,306	1,373	1,078	1,264	5,265	4,067	6,391	4,417	4,783
Reading, Pa	2,805	2,542	2,367	2,179	2,483	6,814	5,267	4,614	3,808	6,111
Richmond, Va	3,522	3,217	3,891	2,317	2,151	19,398	10,025	15,216	8,845	9,146
Roanoke, Va	1,534	1,456	1,156	880	700	3,425	4,568	2,584	3,279	2,220
Rochester, N. Y	6,864	5,838	5,665	4,542	3,429	28,097	21,637	22,589	17,621	13,303
Rockford, Ill	1,959	1,946	2,116	1,875	1,652	6,476	5,539	6,553	5,737	5,083
Sacramento, Calif	2,991	2,486	2,267	1,859	1,101	11,324	7,699	8,814	5,524	4,381
Saginaw, Mich	1,844	1,663	1,426	1,658	1,801	2,935	3,085	3,611	4,350	3,121
St. Joseph, Mo	765	688	659	284	558	2,264	1,342	769	2,005	1,404
St. Louis, Mo	15,391	13,654	13,035	12,627	9,533	55,057	42,739	41,417	42,828	27,074
St. Paul, Minn	6,234	5,414	4,772	4,999	5,055	2,167	15,591	10,071	8,700	9,365
Salem, Mass	811	757	774	830	704	2,167	2,110	2,727	1,720	1,885
Salt Lake City, Utah	1,603	1,162	1,000	1,024	1,089	5,845	5,627	4,856	5,277	5,691
San Antonio, Tex	3,803	3,239	3,461	4,284	4,550	9,432	12,072	12,190	18,300	18,070
San Diego, Calif	7,746	7,930	6,652	5,150	3,811	18,061	19,831	13,877	12,150	11,415
San Francisco, Calif	8,087	7,385	6,932	6,648	5,505	50,093	57,154	46,449	37,504	33,426
Savannah, Ga	622	682	611	525	317	1,054	2,931	2,180	2,137	1,122
Schenectady, N. Y	1,583	1,082	1,192	1,175	1,341	7,160	4,010	4,318	3,428	3,431
Scranton, Pa	1,363	776	1,141	1,189	880	5,985	3,141	5,707	4,637	2,947
Seattle, Wash	11,803	10,924	9,906	9,512	7,924	30,627	34,218	29,070	34,807	29,101
Shreveport, La	2,951	2,969	2,426	2,921	2,838	5,435	5,357	3,946	4,846	3,535
Sioux City, Iowa	1,436	964	741	799	748	3,611	4,266	1,868	2,170	3,130
Somerville, Mass	1,067	1,044	822	407	639	5,653	5,066	3,386	1,424	3,076
South Bend, Ind	2,983	4,274	2,406	2,524	2,445	8,445	9,753	4,889	6,363	7,015
Spokane, Wash	2,749	2,418	2,142	2,187	2,241	4,367	4,191	3,657	5,737	4,148
Springfield, Ill	1,726	1,357	1,134	1,195	1,101	5,527	5,251	3,770	3,739	3,112
Springfield, Mass	2,765	2,275	1,954	1,539	1,367	15,002	8,734	8,906	5,977	5,095
Springfield, Ohio	1,215	1,174	945	1,017	1,006	1,543	1,447	1,694	1,557	1,750
Stockton, Calif	1,519	1,191	1,166	926	709	3,814	2,731	2,803	1,775	1,432
Superior, Wis	891	651	490	614	557	3,223	2,136	1,277	1,852	1,183
Syracuse, N. Y	3,546	3,394	3,961	3,103	2,512	11,920	14,274	21,990	13,220	11,267
Tacoma, Wash	3,759	4,555	2,453	2,341	2,538	7,074	11,088	4,765	4,660	4,053
Tampa, Fla	7,020	8,350	4,755	3,637	2,405	22,759	15,480	6,145	3,617	1,858
Terre Haute, Ind	1,897	1,755	1,586	1,696	1,189	1,536	2,064	1,213	973	799
Toledo, Ohio	6,349	6,034	6,192	5,334	4,802	15,503	13,046	15,514	17,346	13,507
Topeka, Kans	1,484	1,393	1,231	1,117	897	3,176	3,579	2,222	1,992	1,751
Trenton, N. J	2,377	1,476	1,353	1,062	824	7,923	4,931	4,530	4,106	3,675
Troy, N. Y	896	808	935	774	781	3,002	2,602	3,206	1,324	2,037
Tulsa, Okla	2,746	2,358	3,466	3,829	3,161	10,016	7,230	14,792	13,411	11,757
Union City, N. J.[1]	652	862	1,075	674	462	1,768	1,933	3,410	1,121	855
Utica, N. Y	1,024	876	672	680	486	5,157	5,532	3,381	3,917	2,497
Washington, D. C	10,805	9,324	6,954	6,916	5,641	65,490	64,970	39,263	53,975	56,128
Waterbury, Conn	1,109	1,231	1,287	907	746	5,088	5,252	5,016	3,488	2,999
Wheeling, W. Va	1,166	977	1,081	843	669	4,263	1,821	3,014	1,967	1,768
Wichita, Kans	2,341	2,278	2,322	2,390	2,712	5,042	5,184	5,849	7,974	8,652
Wilkes-Barre, Pa	1,560	1,405	1,376	1,337	922	3,901	3,941	4,934	3,896	3,225
Wilmington, Del	1,630	2,118	1,924	1,969	1,537	3,987	4,871	6,806	5,577	6,143
Worcester, Mass	3,133	2,820	2,381	1,999	1,925	18,089	12,985	8,815	7,260	7,251
Yonkers, N. Y	1,762	1,855	2,005	1,934	1,413	19,899	25,644	32,586	35,619	21,366
York, Pa	1,078	870	718	954	974	3,263	1,242	1,589	2,065	1,458
Youngstown, Ohio	2,813	2,466	2,291	2,191	1,787	11,953	9,614	9,007	8,638	5,894

[1] Formerly West Hoboken.

Source: Bureau of Labor Statistics, Department of Labor.

No. 837.—BUILDING PERMITS ISSUED, BY CLASSES

NOTE.—See headnote, Table 836. Figures for 1927 and 1928 represent 302 identical cities; 1929, 311 cities

Class of building	Number of buildings			Proposed cost (thousands of dollars)		
	1927	1928	1929	1927	1928	1929
All buildings	440,876	382,514	307,062	3,240,441	3,089,075	2,668,159
Residential buildings	208,763	180,534	126,952	1,961,900	1,908,322	1,477,478
1-family dwellings	164,268	143,889	104,798	789,383	710,901	516,296
2-family dwellings	25,227	19,956	12,990	208,578	153,128	98,999
1-family and 2-family dwellings with stores	3,329	2,620	1,507	34,979	26,679	14,355
Multifamily dwellings	13,663	12,063	6,662	736,830	776,419	490,957
Multifamily dwellings with stores	1,783	1,528	559	90,667	90,755	34,827
Hotels	201	234	275	69,393	114,290	284,604
Lodging houses	79	37	23	1,305	781	429
Other	213	207	138	30,764	35,370	37,011
Nonresidential buildings	232,113	201,980	180,110	1,278,542	1,180,753	1,190,680
Amusement buildings	943	947	748	128,209	84,677	43,215
Churches	1,118	1,002	855	58,390	48,852	40,882
Factories and workshops	4,181	3,932	3,927	141,307	152,411	141,620
Public garages	4,192	3,836	4,071	74,396	70,656	49,198
Private garages	181,859	155,478	135,637	65,449	54,921	48,637
Service stations	4,919	4,462	4,207	15,022	14,769	19,928
Institutions	332	303	274	75,132	65,002	75,703
Office buildings	1,271	1,352	1,136	242,853	255,801	240,950
Public buildings	339	243	327	47,451	29,378	87,554
Public works and utilities	593	516	629	45,389	38,671	45,444
Schools and libraries	837	843	753	155,542	142,154	128,897
Sheds	13,608	11,658	10,649	5,091	4,870	4,456
Stables and barns	358	356	324	823	581	969
Stores and warehouses	13,280	12,925	12,038	215,747	210,306	254,103
All other	4,283	4,127	4,535	7,239	7,704	9,124

Source: Bureau of Labor Statistics, Department of Labor.

No. 838.—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, common (average 82 yards)	Cement f. o. b. plant near Chicago	Structural steel	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	90.8	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	95.8	88.0	89.6
1928											
January–March	87.2	85.5	90.2	91.6	83.3	83.6	89.9	96.4	96.7	90.0	91.2
April–June	89.5	84.9	90.7	91.6	84.4	83.1	99.3	97.4	96.6	88.1	90.0
July–September	90.8	87.0	90.5	91.0	83.3	83.7	100.9	97.6	96.4	87.5	89.2
October–December	92.1	89.2	90.6	89.8	84.8	84.8	102.3	98.6	96.2	87.9	89.9
1929											
January–March	93.7	91.3	90.3	89.8	85.5	83.7	105.5	98.6	95.9	87.5	89.3
April–June	93.1	91.2	89.1	89.8	87.0	83.0	103.9	96.5	95.9	87.6	89.3
July–September	93.1	91.1	87.3	86.2	87.8	91.3	102.1	97.2	95.4	87.8	89.4
October–December	92.8	90.2	88.4	82.7	85.5	95.0	102.4	98.1	95.9	88.2	89.6

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. 839.—CONSTRUCTION CONTRACTS AWARDED

NOTE.—Data compiled from reports covering contracts awarded in small towns and rural districts as well as large cities. Certain public works (roads, etc.) not in the nature of buildings have no floor space reported. The total value of contracts awarded for the 25 States for years prior to 1919 were as follows: 1910, $805,700,000; 1911, $777,456,000; 1912, $868,103,000; 1913, $857,700,000; 1914, $720,240,000; 1915, $940,092,000; 1916, $1,356,984,000; 1917, $1,618,157,000; 1918, $1,689,240,000

[Floor space in thousands of square feet; values in thousands of dollars]

Year	Total	Residential	Commercial	Industrial	Public works and utilities	Educational	Hospitals and institutions	All other
27 NORTHERN AND EASTERN STATES [1]								
Number of projects: [2]								
1919	82,342	47,990	13,102	7,637	7,843	1,997	582	3,191
1920	57,851	28,966	10,752	6,137	6,406	2,027	587	2,976
1921	78,243	49,421	10,132	3,287	8,453	2,727	647	3,576
1922	107,652	72,996	12,636	3,876	10,427	3,301	718	3,698
1923	105,468	71,536	12,715	4,051	10,483	2,768	605	3,300
1924	109,052	77,713	12,172	3,463	8,673	2,793	660	3,578
1925	132,108	96,822	13,925	4,274	9,125	2,960	733	4,269
1926	132,338	93,722	14,728	4,620	10,885	2,935	799	4,649
1927	143,989	100,138	16,058	4,557	13,451	3,362	997	5,426
1928	161,142	112,710	18,053	4,949	15,867	3,499	963	5,101
1929	139,238	90,155	18,436	5,531	16,044	3,377	975	4,715
Floor space of buildings:								
1919	560,219	241,880	110,884	153,268	----------	22,979	6,821	24,388
1920	401,894	137,524	82,434	127,830	----------	26,278	6,277	21,551
1921	387,229	204,575	65,235	35,771	----------	40,583	10,683	30,382
1922	573,856	311,407	95,233	65,550	----------	54,592	11,779	35,295
1923	591,976	354,257	92,788	62,205	----------	44,332	9,997	28,397
1924	600,916	371,268	95,861	40,967	----------	46,875	12,707	33,238
1925	762,146	470,207	124,064	58,719	----------	51,204	12,020	45,932
1926	741,270	450,249	121,030	67,764	----------	44,478	13,131	44,610
1927	723,655	434,856	118,940	58,052	----------	45,197	16,967	49,644
1928	834,689	507,980	134,206	76,812	----------	52,986	18,183	44,523
1929	676,211	342,808	136,269	91,293	----------	51,952	17,529	36,361
Value of contracts:								
1919	2,579,881	849,206	405,666	512,924	502,006	119,515	39,192	151,372
1920	2,533,222	566,123	419,653	588,965	566,345	172,299	47,543	172,296
1921	2,360,189	877,870	338,028	173,316	459,356	243,652	70,135	197,832
1922	3,352,657	1,347,157	496,300	325,000	562,166	303,347	86,628	232,059
1923	3,494,118	1,582,751	446,124	378,315	557,368	272,529	62,044	194,487
1924	3,879,538	1,842,463	522,234	285,137	577,327	317,147	98,341	236,889
1925	5,043,028	2,350,907	717,253	413,321	704,113	369,490	97,634	381,311
1926	5,421,677	2,338,838	784,145	502,326	861,262	321,125	120,835	403,146
1927	5,473,161	2,326,942	834,425	376,761	1,025,444	323,780	148,980	436,829
1928	5,843,852	2,551,170	785,347	506,034	1,133,278	347,167	153,725	367,081
1929	5,016,031	1,753,685	832,711	589,250	1,039,285	342,739	140,782	317,580
37 STATES [3]								
Number of projects:								
1925	173,722	127,679	19,083	5,316	11,006	4,024	929	5,685
1926	170,723	120,473	20,249	5,777	13,261	3,993	985	5,985
1927	184,604	128,436	21,616	5,637	16,280	4,497	1,194	6,944
1928	200,257	139,133	23,583	6,067	19,012	4,761	1,141	6,560
1929	172,173	110,499	24,137	6,680	19,072	4,531	1,190	6,064
Floor space of buildings:								
1925	924,007	559,521	160,067	70,294	----------	61,308	14,036	58,783
1926	877,120	521,061	151,930	80,843	----------	54,565	14,790	53,932
1927	840,923	494,463	141,815	70,855	----------	55,475	18,803	59,513
1928	958,089	567,831	159,192	95,382	----------	63,203	20,094	53,377
1929	784,449	388,643	161,733	108,782	----------	60,644	19,494	45,153
Value of contracts:								
1925	6,007,598	2,747,882	872,444	490,942	901,619	426,386	111,050	457,277
1926	6,384,406	2,674,210	920,891	698,505	1,113,098	381,078	133,102	463,522
1927	6,303,055	2,573,317	932,911	494,050	1,263,835	379,796	162,474	496,673
1928	6,636,186	2,794,317	884,610	635,390	1,337,931	400,897	164,728	418,313
1929	5,771,301	1,932,728	932,688	756,512	1,248,342	381,908	152,204	366,919

[1] Prior to May, 1921, these figures covered 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.

[2] No data available prior to 1919.

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

Source: The F. W. Dodge Corporation.

No. 840.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: BY MONTHS

NOTE.—See headnote, Table 839

Month	Floor space of buildings [1] (thousands of square feet)				Value of construction (thousands of dollars)			
	1926	1927	1928	1929	1926	1927	1928	1929
Total	877,120	840,923	958,989	784,449	6,384,406	6,303,055	6,636,186	5,771,301
January	65,402	52,790	63,486	58,169	457,159	384,455	427,169	409,968
February	55,323	54,263	68,652	53,521	407,900	393,583	465,331	361,274
March	85,458	86,880	87,633	76,655	623,879	620,738	592,567	484,588
April	85,849	83,150	94,267	84,519	570,614	604,391	643,137	642,061
May	84,135	73,016	93,526	80,656	549,815	552,340	668,097	587,766
June	77,104	77,293	94,087	71,926	547,792	632,478	650,466	545,891
July	68,643	67,130	81,674	74,986	518,932	534,390	583,432	652,436
August	75,456	72,398	78,387	65,895	605,808	552,488	516,970	488,882
September	74,107	66,913	75,081	59,132	562,372	521,610	587,674	445,412
October	71,728	76,051	85,307	64,855	515,727	562,816	597,104	445,642
November	70,121	68,544	72,736	50,785	487,013	466,394	471,482	391,013
December	63,794	62,486	64,165	43,351	537,397	477,364	432,756	316,368

[1] Does not include floor space for public works and public utilities.

No. 841.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: BY CLASSES AND DISTRICTS

NOTE.—See headnote, Table 839. Philadelphia district includes eastern Pennsylvania, southern New Jersey, Maryland, Delaware, District of Columbia, and Virginia; Pittsburgh district, western Pennsylvania, West Virginia, Ohio, and Kentucky; Southeastern district, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Arkansas, and Louisiana; Chicago-St. Louis district, Illinois, Indiana, Iowa, Wisconsin, southern Michigan, Missouri, Kansas, Nebraska, and Oklahoma; Minneapolis district, Minnesota, North Dakota, South Dakota, and northern Michigan

Year and class	37 States	New England	New York and northern New Jersey	Philadelphia	Pittsburgh	Southeastern	Chicago-St. Louis	Minneapolis	Texas
	Floor space (in thousands of square feet)[1]								
Total, all classes:									
1925	924,007	82,322	251,363	96,005	96,752	125,404	218,654	17,050	36,457
1926	877,120	70,639	251,316	96,850	86,227	97,159	220,290	15,949	38,691
1927	840,923	62,581	223,007	96,008	86,105	79,891	243,183	12,771	37,377
1928	958,989	71,936	271,289	111,712	85,476	86,214	282,904	11,373	38,086
1929	784,449	61,835	184,186	98,240	78,365	73,348	242,935	10,649	34,889
1929									
Residential	388,643	33,813	105,525	51,097	32,224	29,645	116,566	3,583	16,190
Commercial	161,733	10,579	40,234	17,659	15,730	15,413	48,976	3,160	10,051
Industrial	108,782	6,622	12,194	13,967	14,140	15,126	43,018	1,352	2,363
Educational	60,644	5,495	12,781	7,524	7,626	6,239	17,353	1,173	2,453
Hospitals and institutions	19,494	1,633	5,048	2,203	3,087	1,466	5,272	286	499
All other	45,153	3,695	8,404	5,799	5,557	5,458	11,750	1,156	3,334
	Value (in thousands of dollars)								
Total, all classes:									
1925	6,007,598	477,181	1,601,329	552,318	828,912	779,212	1,488,060	95,229	185,353
1926	6,384,406	441,583	1,775,061	689,414	741,368	730,317	1,672,133	102,118	232,412
1927	6,303,055	412,767	1,684,446	721,148	758,135	610,789	1,812,849	83,816	219,105
1928	6,636,186	496,481	1,814,317	787,673	724,416	660,925	1,940,775	80,191	231,409
1929	5,771,301	398,382	1,467,273	671,500	685,536	537,469	1,698,836	94,505	217,800
1929									
Residential	1,932,728	153,269	502,522	246,197	166,140	118,826	579,467	16,090	60,217
Commercial	932,688	64,756	289,026	100,935	92,035	56,967	267,748	18,212	43,010
Industrial	756,512	43,255	77,227	88,424	111,388	150,547	256,134	12,322	16,716
Educational	381,908	42,308	98,233	52,268	42,899	26,789	100,991	6,039	12,381
Public works and utilities	1,248,342	49,651	283,781	106,054	203,711	144,331	365,607	32,482	64,726
Hospitals and institutions	152,204	14,374	44,711	17,413	23,412	8,248	38,676	2,195	3,174
All other	366,919	30,769	81,773	60,209	45,451	31,762	92,213	7,165	17,576

[1] Excludes floor space for public works and public utilities.

Source of Tables 840 and 841: The F. W. Dodge Corporation.

No. 842.—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	126,763	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	10,394	8,016	2,378
1881–1890	352,475	25,012	217,821	207,350	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	79,288	68,881	10,407
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	16,404	13,840	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	87,476		45,899	42,376	3,188	335	[5] 19,084	[5] 16,191	2,893
1929	89,503		48,565	45,284	4,520	466	[5] 21,748	[5] 18,665	3,083

[1] Including patents, designs, and reissues.
[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 4,282 renewals in 1926, 3,063 in 1927, 2,049 in 1928, and 1,712 in 1929.

Source: Reports of the Commissioner of Patents.