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 757 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 21.6 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 value of products represents the selling value at the factory. 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.

The statistics for automobile repairing, collected for 1914 and 1919, have been excluded from tables 755 and 757. Figures in the third section of table 755 and in table 761 have been revised to exclude data for "Coffee and spices, roasting and grinding" for all years and "Peanuts, walnuts, and other nuts, processed or shelled", beginning 1927, no data having been collected for these industries at the 1933 Census. These revisions have not been made in tables 757 and 758. As there are no comparable figures for "Peanuts, walnuts, etc.," for years prior to 1927, no adjustment for this industry can be made in figures for earlier years. Data for "Poultry killing, dressing, and packing, wholesale" are included for all years except 1927, for which year this industry was not canvassed. In table 755, data for central-administrative-office employees have been excluded beginning 1923. The figures for 1914, 1919, and 1921, however, include such data.

At the census for 1933 the smaller establishments in many industries were canvassed by means of an abridged schedule which did not call for detailed data on production, and therefore the production figures (derived from data reported on the standard schedules) for certain industries are somewhat incomplete. In cases in which the degree of incompleteness was sufficient to affect the comparableness of the statistics for different census years, the figures for 1931 have been adjusted so as to make them comparable with those for 1933.

No. 755.—MANUFACTURES: SUMMARY, 1849 TO 1933

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Horsepower	Salaries	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture
	In thousands				In millions of dollars				
Factories and hand and neighborhood industries:									
1849	123	[1]	957	[2]	[1]	237	555	1,019	464
1859	140	[1]	1,311	[2]	[1]	379	1,032	1,886	854
1869	252	[1]	2,054	[3] 2,346	[1]	620	1,991	3,386	1,395
1879	254	[1]	2,733	[3] 3,411	[1]	948	3,397	5,370	1,973
1889	355	[1]	4,252	[3] 5,939	[1]	1,891	5,162	9,372	4,210
1899	512	[1]	5,306	[3] 10,098	[1]	2,321	7,344	13,000	5,657
Factories, excluding hand and neighborhood industries and establishments with products valued at less than $500:									
1899	208	364	4,713	[4]	381	2,008	6,576	11,407	4,831
1904	216	520	5,468	[3] 13,488	574	2,610	8,500	14,794	6,294
1909	268	790	6,615	[3] 18,675	939	3,427	12,143	20,672	8,529
1914	273	963	7,024	[3] 22,421	1,274	4,068	14,359	24,217	9,858
Factories, excluding establishments with products valued at less than $5,000:									
1914	176	[5] 956	6,888	[5] 22,264	[5] 1,266	[5] 4,063	14,162	23,837	9,675
1919	214	[5] 1,429	8,990	[5] 29,298	[5] 2,864	[5] 10,463	36,989	61,737	24,748
1921	196	1,141	6,938	[2]	2,551	8,193	25,155	43,427	18,272
1923	196	1,350	8,768	33,057	3,001	10,999	34,481	60,258	25,778
1925	187	1,256	8,384	35,773	2,922	10,730	35,936	62,714	26,778
1927	191	1,296	8,334	38,769	3,216	10,836	34,803	62,278	27,476
1929	210	1,354	8,822	42,869	3,582	11,607	38,178	69,961	31,783
1931	174	[2]	6,507	[2]	[2]	7,173	21,681	41,038	19,358
1933	142	803	6,056	[2]	1,357	5,262	16,821	31,359	14,538

[1] No comparable data. [2] Data not collected. [3] Includes purchased power other than electric.

[4] Data approximately the same as given for factories and hand and neighborhood industries, as the amount of horsepower used in the latter is small.

[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. 756.—MANUFACTURES; ESTABLISHMENTS CLASSIFIED ACCORDING TO AVERAGE NUMBER OF WAGE EARNERS

Number of wage earners	1929				1933			
	Establishments	Average number of wage earners	Percent of total		Establishments	Average number of wage earners	Percent of total	
			Establishments	Wage earners			Establishments	Wage earners
Total	209,862	8,821,757	100.0	100.0	141,769	6,055,736	100.0	100.0
None	7,395		3.5		4,518		3.2	
1 to 5	95,204	278,391	45.4	3.1	57,152	158,275	40.3	2.6
6 to 20	53,212	592,402	25.3	6.7	40,176	445,088	28.3	7.4
21 to 50	24,893	810,305	11.9	9.2	18,576	600,670	13.1	9.9
51 to 100	12,426	888,802	5.9	10.1	9,262	659,347	6.5	10.9
101 to 500	14,016	2,917,345	6.7	33.1	10,304	2,126,216	7.3	35.1
501 to 2,500	2,510	2,319,258	1.2	26.3	1,661	1,519,974	1.2	25.1
2,501 or more	206	1,015,254	.1	11.5	120	546,166	.1	9.0

No. 757.—MANUFACTURES: ESTABLISHMENTS, CLASSIFIED BY VALUE OF PRODUCTS [1]

NOTE.—See general note, p. 715. Data by size of establishments not compiled for 1927, 1931, and 1933

Class of establishments according to value of products	Establishments		Wage earners		Value of products	
	Number	Percent distribution	Average number	Percent distribution	Amount	Percent distribution
Less than $5,000: [2]						
1921	[3] 53,999		[3] 40,924	0.6	[3] $136,926,075	0.3
1919	60,215		41,252	.5	151,631,298	.2
1914	95,408		127,495	1.8	228,653,956	.9
$5,000 and over:						
1929	210,959	100.0	8,838,743	100.0	70,434,863,443	100.0
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	43,653,282,333	99.7
1919	214,383	100.0	9,000,059	99.5	62,041,795,316	99.8
1914	177,110	100.0	6,896,190	98.2	23,987,360,617	99.1
$5,000 to $20,000:						
1929	69,423	32.9	202,958	2.3	771,417,436	1.1
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	79,699	37.2	227,977	2.5	866,086,290	1.4
1914	86,587	48.9	423,829	6.0	893,459,166	3.7
$20,000 to $100,000:						
1929	75,225	35.7	693,155	7.8	3,587,697,276	5.1
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	75,627	35.3	773,701	8.6	3,487,756,280	5.6
1914	56,557	31.9	995,743	14.2	2,540,949,405	10.5
$100,000 to $500,000:						
1929	44,153	20.9	1,672,983	18.9	10,023,771,653	14.2
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	39,447	18.4	1,712,854	18.9	8,929,364,110	14.4
1914 [4]	30,147	17.0	3,000,612	42.7	8,759,391,117	36.2
$500,000 to $1,000,000:						
1929	10,395	4.9	1,121,547	12.7	7,294,860,945	10.4
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	9,197	4.2	1,112,815	12.3	6,457,485,019	10.4
1914	[5]		[5]		[5]	
$1,000,000 and over:						
1929	11,763	5.6	5,148,100	58.3	48,757,116,133	69.2
1925	10,583	5.7	4,760,229	56.7	42,366,941,140	67.5
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	10,413	4.9	5,172,712	57.2	42,301,103,617	68.0
1914	3,819	2.2	2,476,006	35.3	11,794,060,929	48.7

[1] To make the percentages for the number of establishments comparable, those for all 6 years have been based on the number of establishments reporting products valued at $5,000 or more. The percentages for other items, however, have not been similarly adjusted, the comparability of these percentages having been affected very slightly by the omission of small establishments in 1923, 1925, and 1929.

[2] No data for establishments with products under $5,000 in value have been collected since 1921.

[3] Data for these 53,999 establishments are not included in other tables showing statistics for 1921.

[4] Includes data for the $500,000 to $1,000,000 class.

[5] Data included with the $100,000 to $500,000 class.

Source of tables 756 and 757: Bureau of the Census, Department of Commerce.

No. 758.—MANUFACTURES: Prime Movers, Motors, and Generators, Number and Rated Capacity

Note.—See general note, p. 715. No data for prime movers were collected for 1931 and 1933

Year, division, and industry group	Establishments reporting power equipment	Prime movers and electric motors driven by purchased energy									Electric motors driven by energy generated in establishments reporting		Electric generators	
		Aggregate horsepower	Steam engines and turbines		Internal combustion engines		Water wheels and water turbines		Electric motors driven by purchased energy					
			Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Horsepower	Number	Kilowatts
United States:														
1929	193,969	42,931,061	77,225	17,361,926	11,288	1,233,853	6,523	1,559,618	2,724,843	22,775,664	852,432	12,376,376	17,270	7,793,875
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	167,649	35,772,628	82,176	16,916,856	14,362	1,186,116	8,393	1,800,828	1,724,180	15,868,828	772,445	10,254,745	23,635	6,887,045
1923	173,475	33,094,228	90,057	16,700,993	15,721	1,224,262	9,293	1,903,310	1,445,003	13,365,663	616,422	8,821,551	(1)	(1)
1929														
New England	16,953	4,686,822	5,823	1,680,519	600	35,738	2,546	742,393	299,089	2,228,167	140,722	1,336,725	2,557	1,010,837
Middle Atlantic	58,812	11,623,682	17,003	4,904,163	2,372	340,381	1,434	248,183	808,620	6,130,955	256,518	3,618,960	4,719	1,955,256
East North Central	42,845	12,602,451	16,694	5,173,593	2,132	409,876	1,008	240,792	812,193	6,778,190	262,181	4,314,421	4,749	2,564,286
West North Central	16,614	2,210,192	5,096	763,032	923	76,394	242	84,658	163,371	1,286,108	37,307	512,188	1,155	387,545
South Atlantic	19,011	4,318,015	12,388	1,744,461	1,827	152,423	884	153,562	255,163	2,267,569	73,840	1,050,273	1,439	778,208
East South Central	9,395	1,999,354	6,962	934,783	1,170	40,090	138	10,096	95,196	1,014,385	26,344	338,983	760	294,894
West South Central	9,919	1,749,555	6,438	860,613	1,227	118,041	17	820	73,906	770,081	16,118	371,123	928	280,322
Mountain	3,974	938,689	1,784	445,035	345	22,400	65	7,386	33,927	463,868	10,308	248,163	339	181,273
Pacific	16,446	2,802,301	5,032	855,727	642	38,510	189	71,723	183,378	1,836,341	28,594	535,540	625	341,254
Food and kindred products	53,457	4,607,913	15,268	1,459,719	3,807	213,859	1,870	102,360	356,621	2,831,975	67,938	642,530	2,854	475,695
Textiles and their products	25,706	4,145,998	3,942	1,572,940	207	18,746	1,560	397,639	486,793	2,156,673	160,246	1,044,623	2,546	973,891
Forest products	24,912	3,674,204	22,057	2,308,514	2,179	64,396	532	48,951	161,803	1,252,343	75,085	900,862	2,038	634,028
Paper and allied products	2,940	3,166,804	3,202	1,316,808	108	19,136	1,725	871,408	68,591	959,452	53,177	1,248,776	1,499	968,021
Printing, publishing, and allied industries	24,072	649,441	417	40,088	207	3,150	5	7	255,791	606,196	8,468	31,002	167	22,615
Chemicals and allied products	6,940	2,312,295	4,619	1,032,488	500	31,369	84	20,289	102,966	1,228,149	53,939	553,039	1,130	451,509
Products of petroleum and coal	1,369	1,755,258	10,104	1,066,904	651	72,954	9	2,300	26,509	613,100	22,031	604,471	463	332,507
Rubber products	509	821,312	370	245,031	10	338	20	3,080	33,266	572,363	11,832	240,921	134	150,569
Leather and its manufactures	4,014	436,342	1,000	188,973	65	5,570	33	6,105	59,127	235,694	15,781	119,994	545	110,021
Stone, clay, and glass products	7,938	2,854,402	2,965	932,769	1,520	97,796	77	25,080	96,430	1,798,757	29,615	812,862	1,019	579,134
Iron, steel, and products, excl. machinery	6,503	9,200,822	6,092	4,778,047	566	610,967	159	19,662	222,667	3,792,146	130,512	4,106,875	1,573	1,761,940
Nonferrous metals and their products	6,522	1,570,217	834	501,330	154	8,645	55	7,194	97,620	1,053,048	23,635	343,572	446	252,357
Machinery, excl. transportation equipment	12,634	3,647,343	2,161	753,381	801	59,674	278	18,355	393,554	2,815,433	101,601	793,463	1,389	480,461
Transportation equipment—air, land, water	2,516	2,271,192	1,353	521,417	220	11,596	19	29,531	196,548	1,708,648	49,949	481,682	440	310,072
Railroad repair shops	1,965	1,153,147	1,892	437,538	102	4,424	5	150	47,460	711,035	19,766	278,247	562	179,664
Miscellaneous	11,972	664,371	949	205,979	191	10,733	92	7,007	119,097	440,652	28,807	173,457	465	111,391

[1] Not called for on schedule.

Source: Bureau of the Census, Department of Commerce.

No. 759.—SUMMARY BY 16 GENERAL GROUPS OF INDUSTRIES

NOTE.—See general note, p. 715

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
All industries	1933	141,769	6,055,736	5,261,576	16,820,822	31,358,840	14,538,018	(1)
	1931	174,255	6,506,701	7,173,232	21,680,760	41,038,402	19,357,643	(1)
	1929	209,862	8,821,757	11,607,287	38,177,900	69,960,910	31,783,010	42,869,403
	1927	190,938	8,334,184	10,835,978	34,802,594	62,278,116	27,475,523	38,769,183
	1925	187,390	8,384,261	10,729,969	35,935,648	62,713,714	26,778,066	35,772,628
	1923	195,580	8,768,491	10,999,282	34,480,854	60,258,471	25,777,616	33,056,870
	1921	195,555	6,937,688	8,192,952	25,154,807	43,427,224	18,272,417	(1)
1. Food and kindred products.[2]	1933	40,285	666,237	620,558	4,210,015	6,604,036	2,394,021	(1)
	1931	47,767	635,359	725,669	5,315,248	7,958,362	2,643,113	(1)
	1929	55,277	737,931	890,866	8,296,258	11,606,368	3,310,110	4,561,020
	1927	48,900	665,279	812,445	7,803,405	10,612,293	2,808,888	4,086,735
	1925	48,171	666,420	795,781	7,789,007	10,479,678	2,690,671	3,893,719
	1923	51,186	674,049	787,553	6,786,732	9,275,354	2,478,622	3,696,731
	1921	51,506	619,292	738,938	5,980,646	8,074,617	2,087,842	(1)
2. Textiles and their products.	1933	19,265	1,474,325	1,017,301	2,533,168	4,811,238	2,278,070	(1)
	1931	23,750	1,420,808	1,238,179	3,019,986	5,849,032	2,829,046	(1)
	1929	27,404	1,707,798	1,733,031	5,103,846	9,243,303	4,139,457	4,145,998
	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)
3. Forest products[3]	1933	12,295	454,171	289,097	509,182	1,127,405	618,223	(1)
	1931	16,016	509,665	440,176	763,631	1,646,922	883,291	(1)
	1929	26,724	866,599	926,201	1,559,732	3,531,282	1,971,550	3,645,711
	1927	20,004	854,957	919,303	1,611,552	3,404,762	1,793,210	3,308,241
	1925	21,759	911,906	965,883	1,700,607	3,631,461	1,930,854	3,449,673
	1923	21,546	923,331	951,862	1,644,700	3,583,309	1,938,609	3,319,100
	1921	21,282	697,556	663,301	1,181,314	2,423,847	1,242,532	(1)
4. Paper and allied products.	1933	2,697	196,380	172,842	654,647	1,172,743	518,096	(1)
	1931	2,883	194,581	214,337	758,010	1,357,582	599,572	(1)
	1929	3,126	233,393	287,331	1,092,722	1,892,251	799,529	3,166,804
	1927	2,972	224,437	272,154	1,082,363	1,785,998	703,634	2,813,694
	1925	2,727	221,502	263,097	919,657	1,546,814	627,157	2,574,707
	1923	2,685	219,026	250,144	878,764	1,456,970	578,206	2,313,562
	1921	2,600	184,756	202,703	669,070	1,071,800	402,730	(1)
5. Printing, publishing, and allied industries.	1933	19,395	264,106	355,625	377,845	1,733,437	1,355,593	(1)
	1931	24,918	316,769	538,011	581,021	2,497,214	1,916,194	(1)
	1929	27,522	357,988	636,371	766,484	3,170,140	2,403,656	649,441
	1927	25,433	328,603	586,183	755,038	2,859,860	2,104,823	569,528
	1925	23,826	315,264	542,419	694,577	2,596,871	1,902,294	486,087
	1923	23,114	307,993	492,906	665,654	2,315,318	1,649,664	429,967
	1921	22,777	282,500	434,728	663,300	2,078,764	1,415,464	(1)
6. Chemicals and allied products.[2]	1933	6,527	237,480	220,771	968,473	2,117,513	1,149,041	(1)
	1931	7,444	230,370	263,271	1,255,459	2,650,635	1,395,176	(1)
	1929	8,224	279,198	351,984	1,935,058	3,702,672	1,767,614	2,297,530
	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	2,884,731	1,212,515	1,643,164
	1921	7,243	198,040	222,289	1,328,942	2,192,371	869,558	(1)
7. Products of petroleum and coal.	1933	1,211	110,453	144,649	1,285,561	1,871,494	585,933	(1)
	1931	1,317	120,146	182,368	1,551,734	2,264,817	713,083	(1)
	1929	1,497	147,216	229,050	2,546,840	3,647,748	1,100,908	1,755,258
	1927	1,418	141,655	217,485	2,262,699	3,060,226	797,527	1,513,314
	1925	1,582	136,366	210,034	2,356,583	3,230,009	873,425	1,241,877
	1923	1,650	138,330	212,882	1,981,370	2,778,888	797,518	1,092,914
	1921	1,560	115,006	180,452	1,760,805	2,372,039	611,235	(1)
8. Rubber products	1933	408	106,283	99,117	211,397	472,744	261,347	(1)
	1931	453	99,259	112,596	252,867	614,265	361,398	(1)
	1929	525	149,148	207,306	578,678	1,117,460	538,783	821,312
	1927	516	141,997	198,074	660,370	1,225,077	564,707	790,622
	1925	630	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)

For footnotes see p. 719.

No. 759.—Summary by 16 General Groups of Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
9. Leather and its manufactures.	1933	3,265	282,000	222,487	544,737	996,773	452,036	(1)
	1931	3,702	272,757	262,130	666,200	1,189,876	523,676	(1)
	1929	4,285	318,472	359,461	1,132,022	1,906,201	774,179	436,424
	1927	4,272	316,081	364,537	1,088,816	1,869,615	780,799	419,843
	1925	4,252	314,128	355,419	1,013,013	1,764,017	751,005	413,331
	1923	4,880	344,745	388,811	1,083,647	1,880,828	797,181	413,332
	1921	4,827	280,363	314,652	934,825	1,545,207	610,382	(1)
10. Stone, clay, and glass products.	1933	4,528	173,000	142,142	212,155	608,699	396,545	(1)
	1931	6,408	222,856	248,860	316,468	925,318	608,850	(1)
	1929	8,514	328,417	432,817	526,340	1,561,415	1,035,075	2,854,402
	1927	8,673	350,017	464,273	594,774	1,612,549	1,017,774	2,709,131
	1925	8,478	353,036	467,012	603,427	1,640,652	1,037,225	2,348,157
	1923	8,317	351,692	453,567	573,472	1,563,121	989,648	1,936,054
	1921	8,347	252,990	307,065	428,259	1,033,091	604,832	(1)
11. Iron and steel and their products, not including machinery.	1933	5,133	554,108	500,379	1,400,830	2,463,001	1,062,171	(1)
	1931	5,965	597,953	705,125	1,806,370	3,277,406	1,471,035	(1)
	1929	6,640	880,882	1,380,987	3,862,873	7,137,928	3,275,055	9,200,822
	1927	6,340	834,967	1,263,812	3,544,615	6,197,595	2,652,980	8,322,730
	1925	6,063	850,783	1,283,841	3,734,085	6,460,222	2,726,138	7,518,726
	1923	6,353	892,185	1,324,173	4,152,741	6,827,670	2,674,929	[4] 7,259,009
	1921	6,251	571,426	730,875	2,140,171	3,455,541	1,315,370	(1)
12. Nonferrous metals and their products.	1933	4,919	188,271	166,722	641,127	1,068,753	427,627	(1)
	1931	6,310	208,855	240,177	862,187	1,449,262	587,074	(1)
	1929	7,522	314,741	443,467	2,465,444	3,597,058	1,131,614	1,570,217
	1927	6,761	272,667	383,185	1,783,213	2,677,107	893,894	1,226,411
	1925	7,006	276,616	382,652	1,948,438	2,839,550	891,112	1,162,140
	1923	7,501	297,798	395,079	1,767,638	2,637,160	869,522	1,171,192
	1921	7,353	212,680	256,893	886,265	1,408,059	521,795	(1)
13. Machinery, not including transportation equipment.[3]	1933	9,710	538,593	501,770	789,239	2,069,419	1,280,180	(1)
	1931	11,339	693,834	795,461	1,215,246	3,405,689	2,190,442	(1)
	1929	13,143	1,101,053	1,647,347	2,720,831	7,103,864	4,383,033	3,675,836
	1927	12,147	893,059	1,296,750	2,079,037	5,406,887	3,327,850	3,019,512
	1925	11,974	868,203	1,237,948	2,010,111	5,077,947	3,067,836	2,737,674
	1923	12,279	916,192	1,264,475	1,913,219	4,777,895	2,864,676	2,317,579
	1921	12,511	668,081	839,943	1,377,477	3,268,085	1,890,608	(1)
14. Transportation equipment, air, land, and water.	1933	1,551	307,373	319,316	1,292,290	2,058,195	765,906	(1)
	1931	2,068	373,759	468,609	1,736,928	2,898,626	1,161,698	(1)
	1929	2,550	583,355	943,222	3,683,148	6,047,209	2,364,061	2,271,192
	[5] 1927	2,537	494,905	803,208	2,907,949	4,693,972	1,786,022	2,027,686
	1925	2,778	559,578	908,488	3,389,101	5,451,753	2,062,652	1,888,961
	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)
15. Railroad repair shops.	1933	1,901	241,875	284,450	191,845	506,032	314,187	(1)
	1931	2,167	309,034	435,248	298,824	740,763	441,939	(1)
	1929	2,297	398,156	637,311	548,344	1,269,917	721,573	1,153,147
	1927	2,309	428,672	648,908	545,492	1,289,695	744,203	1,110,821
	1925	2,363	457,755	668,192	563,646	1,332,679	769,033	942,248
	1923	2,348	523,430	772,968	631,358	1,520,093	888,734	[4] 798,005
	1921	2,326	418,285	671,956	506,571	1,267,343	760,771	(1)
16. Miscellaneous industries.	1933	8,679	261,081	204,351	[6] 998,314	1,677,357	679,044	(1)
	1931	11,758	300,696	303,015	[6] 1,280,580	2,312,635	1,032,055	(1)
	1929	14,612	417,410	500,534	[7] 1,359,280	3,426,095	[7] 2,066,815	664,289
	1927	14,313	440,366	529,587	[7] 1,377,985	3,316,780	[7] 1,938,795	837,428
	1925	14,207	439,400	508,677	[7] 1,351,478	3,125,011	[7] 1,773,533	732,401
	1923	15,427	475,281	528,205	[7] 1,429,234	3,002,855	[7] 1,573,621	701,177
	1921	15,748	417,929	441,860	[7] 1,315,180	2,556,937	[7] 1,241,757	(1)

[1] Not called for on schedule.
[2] Figures for 1931 and prior years revised; data for alcoholic liquors industries transferred from group 6 to group 1. Group 1 also revised to exclude data for "Coffee and spice roasting and grinding" all years and "Peanuts, walnuts, and other nuts processed or shelled" for 1927 to 1931 (no comparable figures for the latter industry for earlier years); these industries were not canvassed in 1933.
[3] Figures for 1931 and earlier years revised; data for "Refrigerators and refrigerator cabinets exclusive of mechanical refrigerating equipment" transferred from group 3 to group 13.
[4] Revised; revision not carried into total for all groups.
[5] 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.
[6] Includes internal revenue tax paid by tobacco manufacturers. This amounted to $422,027,000 in 1931, and $400,843,000 in 1933.
[7] The "Cost of materials" does not include internal revenue tax paid by tobacco manufacturers and the "Value added by manufacture" for these years is, therefore, overstated by the amount of this tax.

Source: Bureau of the Census, Department of Commerce.

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES

NOTE.—The figures given in this table do not represent exactly the numbers of wage earners, values of products, etc., assignable to the classes of commodities from which the industries derive their names, as it is necessary for census purposes to classify each establishment as a whole in some one industry, according to its product of chief value, although in many cases a single establishment manufactures two or more classes of commodities. The figures for cost of materials and value of products for each group and each subgroup include considerable duplication due to the use of the products of one industry as the materials for another, and in some cases similar duplication occurs within an industry. No data for horsepower were collected for 1931 and 1933. For totals for all industries and for 16 great groups see table 759. Five census years have been shown for all industries that reported $200,000,000 or more in value of products or over 50,000 wage earners in 1929, and three census years for other industries, except as indicated by footnotes

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD AND KINDRED PRODUCTS								
Animal products, total.	1933	10,370	178,791	170,076	1,870,028	2,415,559	545,531	----------
	1931	11,922	171,093	208,922	2,671,813	3,353,725	681,912	----------
	1929	12,761	201,745	262,186	4,263,957	5,148,496	884,539	1,091,228
	1927	11,774	189,645	249,881	3,815,254	4,563,036	747,782	965,363
	1925	11,863	189,933	245,304	3,752,515	4,498,931	746,416	875,878
Butter	1933	3,166	16,498	15,062	316,843	385,512	68,669	----------
	1931	3,367	15,667	18,023	393,228	463,472	70,245	----------
	1929	3,527	19,097	24,198	635,874	746,418	110,544	164,413
	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
Cheese	1933	2,157	3,141	2,910	46,791	57,334	10,542	----------
	1931	2,371	2,964	3,564	54,081	68,072	13,991	----------
	1929	2,758	3,401	4,588	92,727	110,645	17,918	24,739
Condensed and evaporated milk.	1933	436	6,331	6,100	96,698	131,086	34,388	----------
	1931	485	6,121	7,256	109,397	148,598	39,201	----------
	1929	535	7,065	8,796	163,787	209,110	45,323	85,258
	1927	464	7,390	9,191	159,680	200,086	40,406	63,969
	1925	402	7,118	8,391	140,041	171,247	31,206	53,937
Ice cream	1933	2,118	14,367	16,145	66,315	158,386	92,072	----------
	1931	2,948	17,819	25,416	110,504	268,515	158,011	----------
	1929	3,150	22,399	33,803	155,964	328,414	172,450	230,882
	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
Meat packing, wholesale.	1933	1,078	113,193	112,266	1,202,539	1,490,085	287,546	----------
	1931	1,209	106,707	134,530	1,839,260	2,180,823	341,564	----------
	1929	1,277	122,505	165,867	2,974,128	3,434,654	460,526	524,989
	1927	1,250	119,095	161,584	2,663,740	3,057,216	393,475	489,576
	1925	1,269	120,422	159,355	2,625,192	3,050,286	425,094	441,516
Poultry killing, dressing, and packing, wholesale.	1933	437	7,471	4,862	51,853	66,157	14,304	----------
	1931	497	6,982	5,944	77,667	97,560	19,893	----------
	1929	485	7,769	7,285	106,866	130,161	23,296	13,500
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.	1933	714	7,797	8,259	62,741	86,438	23,698	----------
	1931	741	6,242	8,366	59,272	84,333	25,060	----------
	1929	681	5,897	8,850	81,372	108,246	26,875	25,755
Canned and preserved fish, crabs, shrimps, oysters, and clams.	1933	264	9,993	4,473	26,248	40,560	14,311	----------
	1931	304	8,591	5,222	28,404	42,352	13,948	----------
	1929	348	13,612	8,799	53,240	80,849	27,609	21,692
Vegetable products except beverages, total.	1933	22,895	423,716	376,508	2,161,744	3,510,035	1,348,292	----------
	1931	27,443	414,051	451,559	2,518,798	4,177,353	1,658,555	----------
	1929	33,198	474,051	545,557	3,353,812	5,919,863	2,066,052	2,228,566
	1927	29,157	425,212	491,970	3,331,390	5,585,104	1,753,714	1,993,975
	1925	28,963	422,528	477,278	3,352,972	5,494,876	1,641,904	1,914,075
Canned and dried fruits and vegetables; preserves, jellies, fruit butters, pickles, and sauces.	1933	2,072	84,274	45,239	268,420	439,988	171,568	----------
	1931	2,535	80,184	54,001	322,005	513,001	190,996	----------
	1929	2,997	98,866	74,979	462,062	750,342	288,280	224,097
	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
Chocolate and cocoa products, not including confectionery.	1933	54	6,460	6,115	41,572	67,754	26,182	----------
	1931	55	5,677	6,649	50,045	87,346	37,301	----------
	1929	59	6,249	7,778	79,549	119,541	39,991	63,236
Confectionery	1933	1,218	50,609	32,991	114,164	211,833	97,669	----------
	1931	1,566	51,262	42,153	144,748	284,157	139,409	----------
	1929	2,021	63,501	56,443	215,192	393,270	178,077	112,644
	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

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD, ETC.—Contd.								
Chewing gum	1933	31	2,445	2,299	12,599	41,654	29,055	----------
	1931	35	2,147	2,464	16,824	51,340	34,516	----------
	1929	37	2,265	2,733	23,231	60,160	36,929	10,350
Flavoring extracts and flavoring sirups.	1933	383	2,287	2,184	20,323	54,169	33,836	----------
	1931	626	5,204	6,877	48,575	119,238	70,663	----------
	1929	642	5,041	7,071	55,518	129,086	73,568	33,838
Flour and other grain-mill products.	1933	1,932	23,207	22,591	438,671	574,210	135,539	----------
	1931	2,412	22,840	27,298	461,091	598,041	136,950	----------
	1929	4,022	27,028	35,072	868,873	1,060,269	191,397	641,456
	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
Bread and other bakery products.	1933	14,830	182,382	196,672	427,465	919,778	492,313	----------
	1931	17,718	183,161	239,331	505,477	1,190,048	684,571	----------
	1929	20,785	200,841	274,562	737,100	1,526,111	789,011	355,523
	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
Feeds, prepared, for animals and fowls.[1]	1933	710	8,791	7,866	122,070	161,343	39,273	----------
	1931	796	8,449	9,402	162,734	209,921	47,187	----------
	1929	750	10,223	12,821	327,920	402,753	74,833	170,482
	1927	447	7,632	9,703	244,676	299,793	55,117	115,855
Macaroni, spaghetti, vermicelli, and noodles.	1933	296	5,492	4,265	20,385	35,892	15,507	----------
	1931	309	4,764	4,474	20,311	36,225	15,914	----------
	1929	353	5,072	5,384	27,336	47,074	19,738	24,448
Oleomargarine (margarine) not made in meat-packing establishments.	1933	16	841	855	8,312	12,766	4,454	----------
	1931	32	1,043	1,352	15,269	22,818	7,548	----------
	1929	41	1,534	2,264	30,890	46,522	15,632	6,670
Food preparations, not elsewhere classified.	1933	802	10,664	8,992	100,609	152,754	52,144	----------
	1931	782	8,939	9,120	90,171	147,546	57,375	----------
	1929	862	10,616	11,658	96,388	171,861	75,473	36,716
Corn sirup, corn sugar, corn oil, and starch.	1933	28	7,591	8,575	47,420	93,361	45,941	----------
	1931	43	6,652	7,963	54,034	98,723	44,690	----------
	1929	35	6,730	9,873	104,285	165,984	61,699	84,686
Rice cleaning and polishing.	1933	50	1,636	1,022	22,697	30,683	7,987	----------
	1931	55	1,503	1,276	31,813	40,360	8,547	----------
	1929	60	1,589	1,449	38,444	48,794	10,350	22,901
Shortenings (other than lard), vegetable cooking oils, and salad oils.	1933	49	3,658	3,217	68,149	85,830	17,681	----------
	1931	50	3,692	4,011	99,841	115,302	15,461	----------
	1929	40	[2] 2,996	[2] 3,381	139,031	154,553	15,522	36,647
Sugar, beet	1933	84	10,706	10,884	76,127	127,133	51,006	----------
	1931	67	6,241	7,548	62,325	85,673	23,348	----------
	1929	82	7,496	10,021	70,961	108,553	37,592	146,393
Sugar, cane, not including products of refineries.	1933	67	2,371	1,228	11,594	18,233	6,639	----------
	1931	68	2,032	1,333	10,008	13,981	3,973	----------
	1929	70	2,319	1,642	12,223	18,326	6,103	66,779
Sugar refining, cane	1933	19	11,495	12,237	281,536	337,075	55,539	----------
	1931	19	11,855	15,547	335,933	395,303	59,370	----------
	1929	21	13,912	17,850	438,399	507,389	68,990	98,637
	1927	21	13,996	17,707	551,594	597,446	45,851	86,979
	1925	21	14,502	18,955	549,896	606,633	56,737	89,098
Malt	1933	30	848	1,283	20,662	27,923	7,261	----------
	1931	27	540	866	13,920	19,242	5,322	----------
	1929	28	590	1,057	18,924	23,603	4,679	18,098
Vinegar and cider	1933	121	844	724	3,943	6,631	2,687	----------
	1931	137	848	885	4,249	7,506	3,257	----------
	1929	172	979	1,022	6,016	10,450	4,434	8,674
Cereal preparations	1933	103	7,115	7,270	55,015	111,026	56,011	----------
	1931	111	7,018	9,005	69,427	141,583	72,157	----------
	1929	121	6,488	8,876	101,472	175,223	73,752	66,291
Beverages and ice, total.	1933	7,020	63,732	73,974	178,243	678,442	500,199	----------
	1931	8,402	50,215	65,188	124,637	427,284	302,647	----------
	1929	9,318	62,135	83,123	178,489	538,009	359,519	1,241,226
	1927	7,969	50,422	70,594	156,762	464,153	307,392	1,127,397
	1925	7,345	53,959	73,199	183,520	485,872	302,351	1,103,766

[1] Because of a change in classification, no comparable figures can be shown for earlier years.
[2] Revised; revision not carried into total.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOOD, ETC.—Contd.								
Beverages, nonalcoholic	1933	2,903	15,123	14,197	41,873	111,297	69,424	
	1931	4,250	23,905	30,082	76,045	212,567	136,522	
	1929	5,154	28,281	38,314	103,026	270,324	167,298	149,166
	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
Ice, manufactured	1933	3,329	21,332	22,849	26,959	139,263	112,304	
	1931	4,111	25,217	33,656	35,078	192,027	156,949	
	1929	4,110	32,184	42,399	39,808	210,952	171,144	1,077,295
	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
Liquors, distilled, and ethyl alcohol	1933	51	2,514	2,476	23,916	60,850	36,935	
	1931	27	997	1,331	13,132	21,741	8,608	
	1929	30	1,484	2,131	35,046	54,285	19,239	13,577
Liquors, vinous	1933	212	1,262	972	9,302	24,084	14,782	
	1931	14	96	119	381	949	568	
	1929	24	186	278	609	2,448	1,839	1,188
Liquors, malt [3]	1933	525	23,501	33,480	76,194	342,947	266,754	
TEXTILES AND THEIR PRODUCTS								
Textile-mill products, total [4]	1933	5,647	954,757	651,109	1,388,144	2,673,215	1,285,071	
	1931	6,111	886,979	744,568	1,495,283	2,964,558	1,469,275	
	1929	6,974	1,096,163	1,052,971	2,820,993	5,043,171	2,222,178	3,843,398
	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
Cotton goods	1933	1,057	379,445	216,384	476,769	861,170	384,401	
	1931	1,140	329,962	219,680	404,855	805,792	400,937	
	1929	1,281	424,916	324,289	898,029	1,524,177	626,148	2,269,346
	1927	1,347	467,596	380,910	871,592	1,567,401	695,809	[2] 2,328,830
	1925	1,366	445,184	353,883	1,077,153	1,714,368	637,215	2,236,363
Cotton small wares	1933	172	13,237	10,059	17,558	38,890	21,331	
	1931	174	12,826	11,617	19,693	41,991	22,298	
	1929	202	15,281	15,449	33,636	65,170	31,534	27,308
Lace goods	1933	44	5,911	5,582	5,426	16,929	11,503	
	1931	42	6,043	6,289	6,123	19,162	13,040	
	1929	42	6,854	7,670	10,112	29,237	19,125	10,466
Knit goods	1933	1,577	189,698	132,030	237,661	498,350	260,689	
	1931	1,706	178,011	149,589	284,053	585,677	301,624	
	1929	1,888	208,488	210,714	456,701	899,717	443,016	181,879
	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
Silk and rayon goods	1933	1,087	110,322	74,110	143,611	290,578	146,966	
	1931	1,211	109,225	97,409	212,847	422,772	209,925	
	1929	1,491	130,467	137,547	412,181	731,200	319,019	220,225
	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
Woolen goods	1933	344	48,536	38,721	79,021	150,197	71,176	
	1931	381	42,878	42,999	83,050	157,356	74,305	
	1929	460	58,474	66,014	165,882	290,939	125,057	195,247
	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
Worsted goods	1933	227	78,691	63,167	180,482	307,683	127,200	
	1931	240	76,659	74,584	195,617	338,887	143,270	
	1929	264	88,485	98,138	336,649	536,067	199,418	372,536
	1927	288	92,571	101,666	329,408	516,670	187,262	364,422
	1925	329	98,168	108,835	400,784	596,266	195,483	377,215
Felt goods, wool, hair, or jute	1933	51	5,048	4,981	12,285	27,583	15,298	
	1931	53	4,430	5,072	12,918	28,192	15,274	
	1929	54	5,540	7,531	26,224	45,466	19,242	25,655
Hats, wool-felt	1933	9	1,631	1,264	1,838	4,369	2,531	
	1931	9	1,543	1,390	2,283	5,432	3,149	
	1929	14	2,028	2,315	4,678	9,056	4,377	2,811
Hats, fur-felt	1933	117	12,540	11,935	19,138	40,600	21,462	
	1931	138	14,084	16,538	29,509	59,616	30,107	
	1929	159	16,539	22,503	55,298	102,004	46,706	19,894

[3] This classification was abandoned at the census for 1923, and no statistics collected until 1933.
[4] Figures for 1929 and prior years include "Flax and hemp, dressed", treated as a quasi-agricultural industry subsequent to the census for 1929.

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES AND THEIR PRODUCTS—Contd.								
Carpets and rugs, wool, other than rag.	1933	54	21,206	18,186	30,032	71,425	41,393	
	1931	61	22,903	24,109	38,876	88,204	49,328	
	1929	67	32,623	40,014	86,651	176,915	90,264	65,205
Wool shoddy	1933	44	1,527	1,233	6,291	10,477	4,186	
	1931	40	1,069	1,122	3,332	5,952	2,620	
	1929	50	1,762	2,109	10,127	15,345	5,218	15,940
Wool pulling	1933	16	678	670	7,087	10,226	3,138	
	1931	14	640	915	5,359	7,378	2,019	
	1929	18	596	907	10,917	13,648	2,731	1,847
Wool scouring	1933	20	1,395	1,418	1,189	4,404	3,215	
	1931	21	1,377	1,968	1,160	4,640	3,480	
	1929	21	1,302	1,771	3,022	6,241	3,220	8,241
Cordage and twine	1933	110	11,145	7,373	18,284	38,714	20,429	
	1931	117	11,087	8,627	24,402	47,557	23,155	
	1929	123	14,489	12,334	54,573	91,455	36,882	73,021
Jute goods	1933	20	4,248	2,563	4,813	12,463	7,651	
	1931	20	3,785	2,881	5,824	12,791	6,967	
	1929	20	4,931	4,276	11,968	21,870	9,902	35,079
Linen goods	1933	12	1,593	1,156	2,216	4,370	2,153	
	1931	14	1,567	1,417	2,510	5,226	2,716	
	1929	16	2,195	2,185	5,214	9,737	4,522	11,006
Mats and matting, grass and coir.	1933	7	221	186	228	609	382	
	1931	6	311	258	297	875	578	
	1929	7	467	440	685	1,692	1,007	1,293
Haircloth	1933	9	603	481	1,326	2,382	1,056	
	1931	13	400	417	1,395	2,425	1,030	
	1929	13	450	527	2,551	3,855	1,305	1,113
Dyeing and finishing textiles.	1933	626	66,309	58,423	142,802	278,942	136,140	
	1931	666	67,603	76,577	161,099	322,187	161,088	
	1929	732	79,327	94,245	235,712	465,821	230,108	304,057
	1927	743	73,851	91,697	210,681	406,047	195,366	287,212
	1925	697	70,749	83,983	[2]220,678	[2]408,515	187,837	252,701
Cloth sponging and refinishing.	1933	44	683	1,188	85	2,855	2,770	
	1931	45	576	1,107	81	2,447	2,366	
	1929	46	902	1,457	88	3,361	3,273	800
Wearing apparel made from purchased fabrics, total.	1933	10,642	462,857	322,813	940,902	1,797,548	856,646	
	1931	13,837	472,168	433,473	1,299,110	2,488,861	1,189,751	
	1929	16,195	536,561	596,659	1,867,042	3,536,041	1,668,999	137,880
	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
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.	1933	2,219	119,253	92,266	214,640	445,220	230,580	
	1931	2,945	121,964	115,041	263,675	551,416	287,741	
	1929	3,691	149,868	179,769	440,505	901,104	460,599	40,325
	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
Clothing, work (including work shirts), men's. [5]	1933	558	55,281	26,071	82,469	135,336	52,867	
Clothing, men's, buttonholes.	1933	17	238	146	27	265	238	
	1931	26	222	176	34	313	279	
	1929	32	292	314	61	574	513	104
Shirts (except work shirts) and nightwear, men's. [5]	1933	585	53,816	26,113	59,657	119,717	60,060	
Furnishing goods, men's, not elsewhere classified. [5]	1933	363	16,676	9,521	31,423	55,659	24,236	
Collars, men's	1933	11	1,213	793	1,602	3,236	1,635	
	1931	16	2,048	1,419	2,788	6,684	3,897	
	1929	15	2,952	2,263	3,630	8,740	5,110	1,281

[2] Revised; revision not carried into total.

[5] Because of changes in the schedule used for collecting data for the "Clothing, work (including work shirts), men's", "Furnishing goods, men's, not elsewhere classified", and "Shirts (except work shirts) and nightwear, men's" industries, no comparable statistics for these industries can be shown for earlier years.

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES AND THEIR PRODUCTS—Contd.								
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.	1933	91	8,586	3,547	8,743	16,012	7,270	----------
	1931	106	7,101	3,319	8,912	14,539	5,627	----------
	1929	125	9,279	5,914	19,289	29,883	10,594	3,702
Suspenders, garters, and other elastic woven goods, made from purchased webbing.	1933	62	2,617	1,827	7,996	12,781	4,785	----------
	1931	71	3,257	2,443	9,995	17,165	7,170	----------
	1929	91	4,341	3,971	17,906	30,473	12,567	1,180
Hats and caps, except felt and straw, men's.	1933	299	4,053	2,968	6,181	12,659	6,478	----------
	1931	379	3,459	3,662	8,173	16,867	8,694	----------
	1929	576	5,826	7,694	16,908	35,901	18,993	1,796
Clothing, women's, not elsewhere classified.	1933	5,350	159,832	127,418	456,424	846,300	389,876	----------
	1931	7,046	173,890	189,187	704,259	1,292,253	587,994	----------
	1929	8,082	187,500	243,851	934,414	1,709,581	775,167	35,291
	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
Corsets and allied garments.	1933	179	14,017	9,388	29,035	58,092	29,058	----------
	1931	204	13,977	11,496	31,694	71,923	40,229	----------
	1929	213	13,664	12,446	36,035	76,802	40,767	6,048
Handkerchiefs	1933	74	4,701	2,442	8,060	14,924	6,864	----------
	1931	88	4,761	3,221	10,255	18,798	8,543	----------
	1929	105	6,014	4,636	16,343	29,554	13,211	2,409
Millinery	1933	834	22,574	20,313	34,646	77,347	42,701	----------
	1931	1,134	26,612	32,565	71,795	144,575	72,780	----------
	1929	1,293	32,206	42,715	98,090	195,693	97,604	10,176
Other articles made from purchased fabrics, total.	1933	2,976	56,712	43,379	204,122	340,475	136,353	----------
	1931	3,802	61,661	60,138	225,593	395,613	170,019	----------
	1929	4,235	75,074	83,402	415,811	664,091	248,280	164,720
	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
Awnings, tents, sails, and canvas covers.	1933	751	4,509	3,973	10,583	21,412	10,829	----------
	1931	913	5,351	6,397	15,106	31,697	16,591	----------
	1929	1,002	7,162	8,559	25,328	49,238	23,909	4,995
Bags, other than paper, not made in textile mills.	1933	169	10,543	6,977	69,537	92,115	22,578	----------
	1931	189	11,985	9,111	79,173	104,991	25,818	----------
	1929	202	11,828	9,645	144,275	170,176	25,900	19,159
Belting, other than leather and rubber, not made in textile mills.	1933	5	171	143	537	1,017	480	----------
	1931	8	193	180	553	1,138	586	----------
	1929	9	255	299	1,328	2,789	1,461	1,648
Embroideries	1933	547	4,652	3,874	3,266	12,194	8,928	----------
	1931	732	5,561	6,330	4,538	20,224	15,687	----------
	1929	813	6,622	7,868	6,609	25,287	18,678	2,279
Trimmings (not made in textile mills) and stamped art goods for embroidering.	1933	365	5,113	4,075	11,922	23,120	11,198	----------
	1931	520	6,212	6,853	13,824	30,308	16,485	----------
	1929	639	7,934	9,762	20,783	45,180	24,397	3,068
Horse blankets, fly nets, and related products.	1933	9	539	355	824	1,568	745	----------
	1931	9	387	228	618	1,134	516	----------
	1929	14	582	498	1,471	2,895	1,424	1,375
Flags and banners	1933	42	573	392	954	2,112	1,158	----------
	1931	48	782	639	1,329	2,754	1,425	----------
	1929	54	938	794	1,771	3,836	2,065	577
Regalia, robes, vestments, and badges.	1933	56	921	654	1,058	2,836	1,778	----------
	1931	81	1,422	1,444	2,129	5,689	3,560	----------
	1929	77	1,757	1,825	3,227	7,927	4,700	1,105
Hat and cap materials, men's.	1933	76	1,898	1,465	6,199	9,716	3,517	----------
	1931	95	1,935	2,077	6,554	11,010	4,456	----------
	1929	112	2,564	2,876	17,305	25,031	7,726	5,164
Nets (fish) and seines	1933	13	423	315	1,072	1,895	824	----------
	1931	13	572	438	1,283	2,682	1,399	----------
	1929	19	903	769	3,789	6,164	2,375	1,155

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
TEXTILES AND THEIR PRODUCTS—Contd.								
House-furnishing goods not elsewhere classified and miscellaneous articles made of textiles.	1933	708	14,677	9,787	55,690	84,723	29,032	
	1931	914	14,195	12,047	52,022	86,821	34,799	
	1929	964	15,794	16,150	76,625	127,602	50,977	16,866
Carpets and rugs, rag	1933	26	677	464	609	1,851	1,242	
	1931	51	1,003	918	1,026	3,332	2,306	
	1929	94	1,529	1,562	1,659	5,511	3,852	2,416
Linoleum	1933	5	2,821	2,800	6,756	19,098	12,342	
	1931	6	2,895	3,595	7,866	22,984	15,118	
	1929	7	5,544	8,560	27,489	57,250	29,761	51,647
Oilcloth	1933	8	1,251	1,461	6,864	12,653	5,789	
	1931	9	1,229	1,811	8,256	13,986	5,730	
	1929	9	1,412	2,144	14,925	23,107	8,183	5,017
Artificial leather	1933	22	1,952	1,955	8,148	13,584	5,436	
	1931	21	1,941	2,477	9,083	15,195	6,112	
	1929	17	2,590	3,956	22,268	32,961	10,693	14,650
Asphalted-felt-base floor covering.	1933	13	2,271	2,546	9,564	22,714	13,150	
	1931	15	1,946	2,734	9,151	19,993	10,842	
	1929	14	2,345	3,501	14,279	31,889	17,610	11,092
Upholstering materials, not elsewhere classified.	1933	37	685	455	1,654	3,100	1,446	
	1931	46	899	810	2,860	5,329	2,469	
	1929	53	1,410	1,317	7,046	11,234	4,188	3,915
Waste, processed	1933	124	3,036	1,686	8,887	14,768	5,881	
	1931	132	3,153	2,049	10,223	16,344	6,120	
	1929	136	3,905	3,316	25,633	36,014	10,381	18,592
FOREST PRODUCTS								
Basic industries, total.	1933	4,676	216,461	119,117	130,595	368,985	238,389	
	1931	6,010	225,831	163,833	167,715	463,117	295,402	
	1929	14,164	460,482	437,840	432,337	1,314,763	882,426	1,997,963
	1927	8,723	453,131	431,496	508,680	1,259,370	750,690	1,795,875
	1925	10,286	504,711	473,085	593,935	1,468,427	874,492	2,064,631
Excelsior	1933	50	809	432	863	2,094	1,231	
	1931	61	927	683	1,412	2,983	1,571	
	1929	66	1,241	1,219	2,440	5,009	2,569	10,667
Lumber and timber products, not elsewhere classified.	1933	3,783	189,367	113,183	123,450	350,464	227,013	
	1931	4,996	196,647	155,870	160,511	443,629	283,118	
	1929	12,915	419,084	421,585	419,603	1,273,472	853,869	1,985,301
	1927	7,510	413,946	413,362	493,959	1,214,646	720,687	1,781,734
	1925	9,207	[2] 467,090	456,716	579,475	1,421,162	841,687	2,049,500
Turpentine and rosin	1933	843	26,285	5,501	6,282	16,427	10,145	
	1931	953	28,257	7,280	5,793	16,506	10,713	
	1929	1,183	40,157	15,036	10,294	36,282	25,988	1,995
Wood-reworking industries, total.	1933	3,106	53,863	39,175	89,844	177,116	87,272	
	1931	4,430	75,574	78,144	157,063	310,678	153,615	
	1929	6,081	114,640	142,566	337,264	655,345	318,080	787,660
	1927	5,582	117,905	149,783	359,316	672,336	313,020	727,274
	1925	5,727	132,115	169,154	440,457	798,288	357,831	680,399
Planing-mill products (including general millwork) made in planing mills not connected with sawmills.	1933	2,356	35,388	26,117	67,880	124,235	56,355	
	1931	3,453	54,493	58,552	125,760	235,681	109,920	
	1929	4,849	90,134	116,423	296,008	553,583	257,575	677,998
	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
Window and door screens and weather strip.	1933	123	1,571	1,223	2,911	6,314	3,403	
	1931	207	2,564	2,971	5,713	13,539	7,826	
	1929	280	4,034	4,958	10,513	24,452	13,939	14,034
Wood turned and shaped and other wooden goods, n. e. c.[6]	1933	580	15,500	10,147	17,746	41,523	23,777	
	1931	719	17,020	14,602	23,907	55,710	31,804	
	1929	894	18,712	18,617	28,429	69,620	41,191	88,398

[2] Revised; revision not carried into total.
[6] Owing to a change in classification, data for 1929 are not strictly comparable with data for later years.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
FOREST PRODUCTS—Continued								
Lasts and related products.	1933	47	1,404	1,687	1,308	5,044	3,737	
	1931	51	1,497	2,020	1,683	5,747	4,065	
	1929	58	1,760	2,569	2,315	7,690	5,375	7,230
Wooden-container industries, total.	1933	1,217	42,007	24,183	59,078	108,952	49,874	
	1931	1,490	43,277	33,056	73,825	139,016	65,192	
	1929	1,769	54,972	51,078	129,656	235,178	105,522	196,844
	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
Boxes, wooden, except cigar boxes.	1933	595	21,753	12,515	29,056	54,995	25,938	
	1931	675	22,864	17,572	39,705	74,667	34,962	
	1929	792	30,554	29,194	74,082	135,026	60,944	137,261
Boxes, cigar, wooden	1933	77	3,426	1,782	2,209	5,904	3,695	
	1931	92	3,777	2,564	3,473	8,859	5,386	
	1929	118	4,374	3,508	5,238	12,459	7,221	5,518
Cooperage	1933	361	8,457	6,261	22,913	35,618	12,705	
	1931	500	8,208	7,663	24,333	39,143	14,810	
	1929	586	10,691	11,706	41,516	64,842	23,326	33,885
Baskets and rattan and willow ware, not including furniture.	1933	184	8,371	3,625	4,900	12,435	7,536	
	1931	223	8,428	5,257	6,314	16,347	10,033	
	1929	273	9,353	6,671	8,820	22,851	14,031	20,180
Furniture and related industries, total.[1]	1933	2,506	108,298	78,421	145,924	305,960	160,035	
	1931	3,340	131,310	130,077	223,071	497,197	274,125	
	1929	3,996	199,235	250,447	436,225	976,176	539,951	518,706
	1927	3,428	193,787	245,683	401,549	911,805	510,256	464,444
	1925	3,434	186,283	232,297	393,491	893,504	500,014	410,941
Furniture, including store and office fixtures.[1]	1933	2,411	105,488	76,346	142,587	297,730	155,143	
	1931	3,148	127,605	125,972	217,896	482,289	264,393	
	1929	3,778	193,399	242,832	426,454	948,116	521,662	503,970
	1927	3,228	188,143	238,240	392,099	885,204	493,106	455,881
	1925	3,239	181,016	225,298	384,875	868,720	483,845	402,719
Billiard and pool tables, bowling alleys, and accessories.	1933	17	407	228	514	1,123	609	
	1931	32	592	613	1,396	3,761	2,366	
	1929	40	1,390	1,863	3,238	8,821	5,583	6,402
Mirror and picture frames.	1933	138	2,403	1,847	2,823	7,107	4,284	
	1931	160	3,113	3,492	3,780	11,146	7,367	
	1929	178	4,446	5,752	6,533	19,238	12,705	8,334
Other allied products, total.	1933	730	33,545	28,202	83,741	166,393	82,652	
	1931	746	33,673	35,065	141,957	236,913	94,957	
	1929	714	37,270	44,269	224,250	349,821	125,571	144,538
	1927	623	34,010	39,620	207,537	325,673	118,136	128,159
	1925	550	30,836	35,675	129,949	221,629	91,680	101,421
Caskets, coffins, burial cases, and other morticians' goods.	1933	396	12,155	11,837	25,674	58,740	33,066	
	1931	399	11,932	14,225	28,519	69,810	41,291	
	1929	414	13,033	16,411	39,350	88,282	48,932	39,609
Cork products	1933	30	2,797	2,168	5,277	11,604	6,327	
	1931	31	3,018	3,027	6,617	14,877	8,260	
	1929	35	3,842	4,209	12,603	23,023	10,421	14,829
Matches	1933	18	4,726	4,037	11,679	26,373	14,693	
	1931	19	3,369	3,493	10,875	18,473	7,597	
	1929	21	3,760	4,118	12,526	20,351	7,825	17,997
Pulp goods and molded composition products.[1]	1933	101	6,840	5,927	10,023	25,731	15,708	
	1931	86	5,654	6,105	10,805	27,239	16,435	
Wood preserving	1933	185	7,027	4,233	31,087	43,945	12,858	
	1931	211	9,700	8,214	85,141	106,514	21,374	
	1929	199	13,077	14,940	147,703	190,945	43,242	57,913

[1] Because of a change in classification, no comparable figures can be shown for earlier years.
[2] Includes "Hammocks", formerly treated as a separate industry, for all years, and also includes, for 1927 and later years, sewing-machine cases, formerly a part of the industry "Sewing machines, cases, and attachments." "Furniture and related industries, total" excludes for all years "Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment", which was abandoned as a separate industry classification and included with "Refrigerators and refrigerating and ice-making apparatus" in the machinery group for the census of 1933.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
PAPER AND PAPER PRODUCTS								
Paper and pulp, total. [8]	1933	781	107,298	99,194	393,662	695,654	301,991	----------
	1931	[2] 848	107,902	126,836	495,089	851,530	356,442	----------
	1929	883	128,049	173,078	723,361	1,206,114	482,754	2,968,431
	1927	929	123,360	162,002	724,111	1,138,090	413,979	2,642,806
	1927	*764*	*123,360*	*162,002*	*615,556*	*1,029,535*	*413,979*	*2,642,806*
	1925	763	123,842	160,146	605,860	971,882	366,022	2,427,010
Paper [1]	1933	600	87,224	81,091	311,767	560,963	249,196	----------
	1931	650	87,683	104,042	384,420	684,971	300,551	----------
	1929	685	103,320	140,398	574,608	967,186	392,578	[9]
	1927	710	98,566	130,475	572,786	919,891	347,106	[9]
Pulp (wood and other fiber). [1]	1933	181	20,074	18,103	81,896	134,692	52,796	----------
	1931	[2] 198	20,219	22,844	110,668	166,559	55,891	----------
	1929	198	24,729	32,679	148,753	238,928	90,176	[9]
	1927	219	24,794	31,527	151,325	218,198	66,873	[9]
Converted paper products, total. [10]	1933	1,916	89,082	73,648	260,984	477,089	216,105	----------
	[2] 1931	2,069	89,186	89,936	271,005	520,921	249,916	----------
	1929	2,243	105,344	114,253	369,361	686,137	316,775	198,373
	1927	2,043	101,077	110,152	358,252	647,908	289,656	170,888
	1925	1,964	97,660	102,951	313,797	574,932	261,135	147,697
Bags, paper, exclusive of those made in paper mills.	1933	96	7,665	5,813	29,296	49,379	20,084	----------
	1931	95	6,836	6,423	33,427	54,291	20,864	----------
	1929	95	6,970	6,661	43,238	64,621	21,383	13,416
Boxes, paper, not elsewhere classified.	1933	1,104	47,220	37,614	126,326	223,004	96,679	----------
	1931	1,214	46,722	44,085	113,251	217,872	104,621	----------
	1929	1,249	55,654	57,110	159,840	294,253	134,414	80,064
	1927	1,219	56,398	57,701	168,464	306,555	138,091	81,300
	1925	1,229	57,148	57,172	151,712	281,944	130,232	76,185
Card cutting and designing.	1933	64	1,804	1,535	4,029	10,138	6,108	----------
	1931	72	2,041	2,408	6,674	15,953	9,279	----------
	1929	70	2,338	2,725	9,286	19,648	10,362	3,909
Cardboard, not made in paper mills.	1933	12	492	452	1,406	2,793	1,388	----------
	1931	12	520	599	1,656	3,594	1,938	----------
	1929	13	609	819	2,665	5,629	2,964	1,549
Envelops	1933	163	7,981	6,755	15,918	33,896	17,978	----------
	1931	162	8,924	9,658	22,452	46,943	24,491	----------
	1929	171	10,367	11,527	29,928	61,287	31,359	13,077
Wall paper	1933	39	3,239	3,116	6,851	15,800	8,948	----------
	1931	50	3,734	3,994	9,150	20,194	11,044	----------
	1929	56	4,705	5,732	13,480	30,008	16,527	12,740
Paper goods, not elsewhere classified.	1933	438	20,681	18,364	77,158	142,079	64,921	----------
	[2] 1931	464	20,409	22,769	84,395	162,074	77,679	----------
	1929	436	20,227	23,810	100,369	182,648	82,279	67,145
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES								
Printing and publishing, total.	1933	16,857	213,786	292,472	325,939	1,524,990	1,199,050	----------
	[2] 1931	21,978	255,480	438,630	513,208	2,212,267	1,699,059	----------
	1929	24,360	281,119	506,290	660,029	2,760,196	2,100,167	544,588
	1927	22,558	262,740	474,639	664,528	2,521,208	1,856,680	482,295
	1925	21,072	252,515	440,427	612,060	2,283,304	1,671,244	409,121
Printing and publishing, book, music, and job.	1933	9,224	104,699	128,982	141,289	519,990	378,751	----------
	[2] 1931	11,767	135,977	212,931	213,928	804,019	590,091	----------
	1929	12,836	151,459	252,891	268,291	1,021,897	753,606	212,404
	1927	11,585	143,341	243,488	254,714	936,133	681,418	196,061
	1925	10,447	135,514	222,887	232,519	835,642	603,123	171,459

[1] Because of a change in classification, no comparable figures can be shown for earlier years.

[2] Revised; revision not carried into total.

[8] The separation of the industry "Paper and pulp" into the "Paper" and "Pulp (wood and other fiber)" industries for 1927 resulted in counting as 2 establishments each mill which manufactured both paper and pulp and in a duplication in the statistics as combined. The figures for 1927 to 1933 are, therefore, not strictly comparable with those for 1925. Figures in italics have been adjusted for comparison with 1925, counting as a single unit mills manufacturing both pulp and paper.

[9] Because of the fact that in many cases a paper mill and a pulp mill are supplied with power from the same power plant, it is impossible to give separate figures for each industry.

[10] Owing to a change in classification, data for 1931 and 1933 are not strictly comparable with data for prior years.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES—Con.								
Printing and publishing, newspaper and periodical.	1933	7,633	109,087	163,490	184,700	1,004,999	820,299	----------
	1931	10,211	119,503	225,699	299,280	1,408,248	1,108,968	----------
	1929	11,524	129,660	253,399	391,738	1,738,299	1,346,561	332,184
	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	1,068,121	237,662
Industries allied to printing and publishing, total.	1933	2,538	50,320	63,154	51,905	208,448	156,543	----------
	1931	2,948	62,308	100,586	69,802	290,237	220,435	----------
	1929	3,162	76,869	130,081	106,454	409,944	303,489	104,853
	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
Bookbinding and blank-book making.	1933	863	16,865	16,091	15,686	56,011	40,325	----------
	1931	1,050	21,216	25,356	21,392	79,780	58,388	----------
	1929	1,108	24,754	31,779	30,755	102,783	72,029	21,741
Engravers' materials	1933	16	224	243	868	1,685	817	----------
	1931	21	275	444	1,166	2,319	1,153	----------
	1929	19	313	448	1,795	3,129	1,335	1,493
Engraving, steel, copper plate, and wood, and plate printing.	1933	343	5,033	5,265	3,637	16,223	12,585	----------
	1931	432	6,995	9,503	6,425	27,425	21,001	----------
	1929	483	10,272	14,813	11,947	47,901	35,954	8,560
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.	1933	77	1,089	1,094	921	3,425	2,505	----------
	1931	133	1,467	2,048	1,440	5,607	4,168	----------
	1929	189	2,240	3,212	2,583	10,934	8,351	2,965
Photo-engraving, not done in printing establishments.	1933	600	7,907	14,788	5,602	37,583	31,981	----------
	1931	617	10,095	24,990	7,408	56,020	48,611	----------
	1929	654	12,353	31,831	11,003	77,382	66,379	9,349
Lithographing	1933	346	14,579	18,123	21,449	68,188	46,739	----------
	1931	364	16,215	25,723	26,607	87,433	60,826	----------
	1929	376	18,979	32,022	38,992	121,014	82,022	35,471
Stereotyping and electrotyping, not done in printing establishments.	1933	207	3,734	6,488	2,609	20,006	17,397	----------
	1931	223	4,857	10,917	3,590	24,582	20,991	----------
	1929	230	6,487	13,771	6,547	35,617	29,070	21,347
Printers' supplies [11]	1933	86	888	1,062	1,134	5,327	4,193	----------
	1931	108	1,188	1,605	1,775	7,070	5,296	----------
	1929	103	1,471	2,205	2,833	11,183	8,350	3,927
CHEMICALS AND ALLIED PRODUCTS								
Chemicals and allied products, other than animal, vegetable, and compounded oils, total.[12]	1933	5,960	220,507	212,519	838,522	1,947,491	1,108,969	----------
	1931	6,835	215,176	251,063	1,035,312	2,376,978	1,341,667	----------
	1929	7,545	259,159	334,407	1,543,776	3,232,556	1,688,780	1,965,380
	1927	6,719	227,344	292,208	1,388,674	2,819,315	1,430,641	1,519,832
	1925	6,451	220,452	273,479	1,334,621	2,590,233	1,255,612	1,452,687
Ammunition and related products.	1933	24	5,806	4,848	10,473	27,861	17,388	----------
	1931	20	5,873	4,993	11,014	28,366	17,353	----------
	1929	21	7,223	8,273	19,842	43,809	23,967	17,051
Explosives	1933	66	4,168	4,135	12,705	35,106	22,401	----------
	1931	78	4,733	5,572	19,519	46,258	26,739	----------
	1929	95	5,614	8,488	31,764	72,540	40,775	51,612
Fireworks	1933	30	919	702	970	2,520	1,550	----------
	1931	37	1,350	1,097	1,406	3,722	2,317	----------
	1929	50	1,811	1,931	2,465	6,584	4,119	1,746
Baking powder, yeast, and other leavening compounds.	1933	40	2,690	3,654	13,112	31,975	18,863	----------
	1931	45	2,881	4,798	20,746	47,027	26,281	----------
	1929	48	3,006	4,847	22,598	52,337	29,738	42,788

[11] At censuses prior to 1933, two separate industries, "Printing materials, not including type or printing ink" and "Type founding."

[12] The figures for 1931 and prior years differ from those previously published because of the transfer of the statistics for "Liquors, distilled" (formerly entitled "Alcohol, ethyl, and distilled liquors") and "Liquors, vinous" to group 1, "Food and kindred products."

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
CHEMICALS AND ALLIED PRODUCTS—Continued								
Bluing	1933	16	77	86	323	1,033	710	
	1931	20	95	94	402	1,179	777	
	1929	20	105	107	469	1,365	896	169
Bone black, carbon black, and lampblack.	1933	48	1,449	1,206	4,010	8,507	4,497	
	1931	62	1,039	1,344	5,022	9,535	4,513	
	1929	77	1,915	2,583	9,096	20,170	11,074	11,268
Blacking, stains, and dressings.	1933	154	1,625	1,504	6,909	19,056	12,146	
	1931	156	1,501	1,666	6,941	20,343	13,402	
	1929	170	1,617	1,959	8,345	24,682	16,337	3,317
Candles	1933	19	673	561	1,844	4,128	2,284	
	1931	23	713	711	2,481	5,396	2,915	
	1929	20	781	923	3,251	6,686	3,436	1,971
Chemicals, not elsewhere classified.[13]	1933	541	53,190	59,229	221,453	476,503	255,049	
	1931	558	48,522	66,360	246,068	533,175	287,107	
	1929	551	62,199	94,630	363,577	738,048	374,472	854,358
	1927	492	52,347	78,275	296,677	572,091	275,414	576,285
	1925	751	57,890	83,637	282,712	570,310	287,598	546,797
Cleaning and polishing preparations.	1933	327	2,755	2,722	14,753	41,048	26,296	
	1931	388	2,449	2,969	16,979	48,007	31,028	
	1929	429	2,713	3,356	19,399	50,780	31,381	10,609
Drug grinding	1933	22	630	614	3,448	6,399	2,951	
	1931	23	661	711	5,457	9,159	3,702	
	1929	26	677	841	5,675	9,669	3,994	5,277
Druggists' preparations.[14]	1933	411	12,920	13,154	43,571	146,776	103,205	
	1931	*440*	*14,087*	*15,984*	*51,197*	*173,897*	*122,701*	
	1931	392	9,476	10,552	32,208	109,448	77,240	
	1929	429	10,688	12,452	43,776	124,778	81,003	19,448
Patent or proprietary medicines and compounds.[14]	1933	965	8,740	7,500	38,233	138,145	99,912	
	1931	*1,246*	*9,586*	*10,226*	*51,799*	*194,421*	*142,622*	
	1931	1,298	13,475	14,885	68,416	254,514	186,098	
	1929	1,522	16,434	18,781	94,770	318,907	224,137	44,588
	1927	1,282	15,071	16,667	84,641	278,243	193,602	34,082
	1925	1,279	14,802	15,592	84,790	247,564	162,774	33,840
Perfumes, cosmetics, and other toilet preparations.[14]	1933	490	8,978	7,470	33,175	97,049	63,874	
	1931	*658*	*10,026*	*9,674*	*44,184*	*153,818*	*109,634*	
	1931	663	10,748	10,446	46,556	158,175	111,618	
	1929	815	13,109	13,763	58,299	193,441	135,142	12,150
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.	1933	124	2,141	2,212	13,518	23,322	9,804	
	1931	116	1,962	2,390	15,521	26,469	10,948	
	1929	126	2,419	3,114	25,336	39,836	14,500	22,575
Fertilizers	1933	522	13,063	7,274	69,053	94,939	25,886	
	1931	599	14,551	12,146	106,481	154,350	47,869	
	1929	638	20,926	17,884	159,801	232,511	72,710	166,984
	1927	621	18,612	17,650	138,143	190,385	52,242	156,274
	1925	587	19,644	17,743	137,808	206,773	68,965	152,193
Compressed and liquefied gases.	1933	326	2,763	3,154	8,586	32,007	23,421	
	1931	349	2,844	3,896	10,135	41,806	31,672	
	1929	354	3,390	5,378	14,529	52,190	37,661	85,293
Glue and gelatin	1933	63	2,013	2,033	8,328	17,163	8,834	
	1931	72	2,559	3,325	15,460	27,516	12,055	
	1929	74	2,993	4,236	18,978	32,458	13,480	23,584
Mucilage, paste, and other adhesives, except glue and rubber cement.	1933	55	213	237	1,295	2,478	1,184	
	1931	69	282	350	1,889	3,621	1,732	
	1929	84	414	547	3,669	6,638	2,970	2,564
Grease and tallow, not including lubricating greases.	1933	201	3,988	4,099	14,141	26,238	12,097	
	1931	238	4,067	5,225	17,533	29,241	11,708	
	1929	297	5,475	7,862	40,142	61,608	21,466	41,686

[13] Includes "Compressed and liquefied gases" prior to 1927.

[14] Because of changes in classification, the statistics for 1931 and prior years are not strictly comparable with those for 1933. The figures in italics for 1931 have been adjusted for comparison with 1933.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
CHEMICALS AND ALLIED PRODUCTS—Continued								
Ink, printing	1933	160	2,094	2,663	12,604	26,166	13,563	
	1931	171	2,247	3,479	14,532	32,188	17,656	
	1929	147	2,448	3,957	19,205	42,750	23,545	20,300
Ink, writing	1933	22	355	321	1,226	2,522	1,296	
	1931	23	347	363	1,463	3,535	2,073	
	1929	29	416	480	1,993	4,595	2,602	847
Paints and varnishes	1933	961	22,880	23,791	153,026	289,442	136,416	
	1931	1,039	22,521	29,425	193,737	350,726	156,989	
	1929	1,063	29,211	42,245	334,132	568,976	234,844	180,315
	1927	1,006	28,061	40,185	307,724	519,010	211,285	163,187
	1925	923	25,490	35,420	293,943	470,736	176,793	143,111
Rayon and allied products.	1933	34	44,306	38,613	44,031	156,932	112,900	
	1931	32	38,735	38,231	36,181	132,632	96,452	
	1929	29	39,106	44,697	33,335	149,546	116,211	195,844
Salt	1933	50	5,036	4,814	9,154	29,011	19,857	
	1931	53	4,728	5,549	10,864	31,430	20,566	
	1929	58	5,458	6,735	14,188	37,869	23,681	57,711
Soap	1933	235	14,304	14,140	93,507	200,128	106,621	
	1931	248	14,163	17,740	121,829	257,719	135,889	
	1929	282	14,363	18,995	180,353	310,192	129,839	65,856
	1927	256	13,432	19,716	172,244	287,060	114,816	62,025
	1925	272	15,406	18,526	184,874	278,273	93,400	56,697
Wood distillation and charcoal manufacture.	1933	54	2,731	1,782	5,073	11,036	5,963	
	1931	63	2,654	2,745	6,474	11,440	4,966	
	1929	91	4,648	5,293	14,791	29,594	14,803	25,509
Animal, vegetable, and compounded oils, total.	1933	567	16,973	8,252	129,951	170,022	40,072	
	1931	609	15,194	12,207	220,147	273,657	53,509	
	1929	679	20,039	17,577	391,282	470,116	78,834	332,150
	1927	781	24,762	23,818	393,895	495,913	102,018	320,217
	1925	773	22,700	20,946	455,642	559,856	104,214	284,027
Oil, cake, and meal, cottonseed.	1933	475	14,242	5,376	78,229	104,212	25,982	
	1931	504	12,268	8,335	147,165	181,347	34,182	
	1929	553	15,825	11,203	249,020	298,376	49,356	284,395
	1927	547	18,434	14,259	220,038	276,338	56,300	270,500
	1925	535	16,215	11,412	244,315	295,685	51,369	239,005
Oils, essential	1933	12	175	222	2,243	3,094	851	
	1931	12	128	199	2,707	3,505	798	
	1929	22	265	326	3,804	6,653	2,849	1,894
Oil, cake, and meal, linseed.	1933	22	1,625	1,684	33,853	40,463	6,610	
	1931	28	1,837	2,278	50,306	62,883	12,576	
	1929	29	2,715	4,098	101,563	119,927	18,364	31,191
Oils, not elsewhere classified.	1933	58	931	970	15,625	22,254	6,629	
	1931	65	961	1,394	19,970	25,922	5,952	
	1929	75	1,234	1,950	36,896	45,160	8,264	14,670
PRODUCTS OF PETROLEUM AND COAL								
Coke-oven products	1933	97	13,066	15,527	123,275	165,731	42,456	
	1931	112	14,383	22,134	162,793	226,509	63,716	
	1929	153	20,552	33,380	281,592	416,348	134,756	393,211
	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
Fuel briquettes	1933	24	296	262	1,886	2,944	1,058	
	1931	23	301	357	3,035	4,568	1,533	
	1929	23	426	584	5,919	9,498	3,579	14,893
Gas, manufactured, illuminating and heating.	1933	543	26,250	36,980	79,189	295,480	216,292	
	1931	638	34,523	49,442	152,580	467,751	315,172	
	1929	754	43,065	[2] 61,322	188,416	512,653	324,236	544,024
	1927	828	48,497	68,356	211,786	516,705	304,920	496,014
	1925	919	46,998	67,436	178,423	455,460	277,037	428,132

[2] Revised; revision not carried into total.

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
PRODUCTS OF PETROLEUM AND COAL—Continued								
Lubricating oils and greases, not made in petroleum refineries.	1933	158	1,794	2,087	16,774	28,702	11,928	----
	1931	168	2,115	2,960	22,809	41,704	18,895	----
	1929	177	2,577	3,739	39,571	69,584	30,013	13,281
Petroleum refining	1933	389	69,047	89,793	1,064,437	1,378,637	314,200	----
	1931	376	68,824	107,474	1,210,517	1,524,285	313,768	----
	1929	390	80,596	131,177	2,031,341	2,639,665	608,324	789,849
	1927	354	71,234	113,717	1,752,997	2,142,649	389,651	552,651
	1925	359	65,324	104,645	1,889,678	2,376,657	486,979	393,753
RUBBER PRODUCTS								
Boots and shoes, rubber.	1933	13	18,102	14,440	14,124	42,019	27,895	----
	1931	15	15,882	13,770	12,298	47,905	35,607	----
	1929	22	25,659	29,945	34,396	102,538	68,141	62,603
Rubber tires and inner tubes.	1933	44	52,976	54,737	139,392	299,313	159,921	----
	1931	48	49,159	63,089	173,604	406,283	232,679	----
	1929	91	83,263	127,082	429,607	770,177	340,570	463,257
	1927	109	78,256	120,064	499,221	869,688	370,467	451,724
	1925	126	81,640	120,614	559,940	925,002	365,062	403,227
Rubber goods, other than tires, inner tubes, and boots and shoes.	1933	351	35,205	29,939	57,881	131,411	73,531	----
	1931	390	34,218	35,738	66,965	160,077	93,112	----
	1929	412	40,226	50,279	114,674	244,746	130,071	295,452
	1927	385	36,893	45,931	117,777	230,781	113,005	270,539
	1925	381	35,230	42,613	121,224	219,869	98,645	197,051
LEATHER AND ITS MANUFACTURES								
Leather: Tanned, curried, and finished.	1933	374	44,191	43,076	138,177	237,202	99,025	----
	1931	418	42,047	49,542	172,786	271,138	98,352	----
	1929	471	49,932	63,414	337,598	481,340	143,742	229,660
	1927	494	52,924	67,887	331,985	494,256	162,271	220,530
	1925	531	52,263	65,834	296,953	452,186	155,233	215,678
Finished products of leather, total.	1933	2,891	237,811	179,411	406,560	759,571	353,010	----
	1931	3,284	230,710	212,588	493,415	918,738	425,324	----
	1929	3,814	268,540	296,047	794,424	1,424,861	630,436	206,764
	1927	3,778	263,157	296,650	756,832	1,375,360	618,528	199,313
	1925	3,721	261,865	289,585	716,059	1,311,831	595,772	197,653
Belting and packing, leather.	1933	152	1,684	1,733	7,018	14,880	7,862	----
	1931	178	1,640	1,968	7,302	14,522	7,220	----
	1929	207	2,602	3,550	20,680	35,632	14,952	6,826
Boots and shoes, other than rubber.	1933	1,132	190,914	142,054	286,303	553,425	267,122	----
	1931	1,156	181,374	163,271	337,627	653,880	316,252	----
	1929	1,341	205,640	222,408	515,055	965,923	450,867	140,329
	1927	1,357	203,110	225,090	494,553	944,714	450,161	138,706
	1925	1,460	206,992	225,788	481,632	925,383	443,751	139,569
Boot and shoe cut stock, not made in boot and shoe factories.	1933	159	6,544	5,808	43,618	56,280	12,662	----
	1931	191	8,584	8,148	64,132	79,734	15,602	----
	1929	210	9,499	10,320	107,546	133,448	25,902	15,828
Boot and shoe findings, not made in boot and shoe factories.	1933	328	10,254	8,110	18,247	37,014	18,767	----
	1931	361	9,088	[1]8,264	18,142	37,366	19,225	----
	1929	382	10,376	11,058	31,964	58,625	26,661	20,259
Gloves and mittens, leather.	1933	194	8,129	6,434	11,377	23,470	12,093	----
	1931	227	7,884	7,554	13,136	28,024	14,887	----
	1929	257	9,203	9,204	20,206	39,123	18,917	3,498
Pocketbooks, purses, and cardcases.	1933	218	8,107	5,954	15,349	28,345	12,996	----
	1931	260	8,747	9,793	22,601	43,147	20,546	----
	1929	290	10,430	15,229	35,352	68,628	33,276	1,828
Saddlery, harness, and whips.	1933	147	2,515	2,054	6,146	10,364	4,218	----
	1931	185	1,974	1,926	5,268	9,339	4,071	----
	1929	268	3,396	3,761	13,914	23,563	9,648	4,780

[1] Revised; revision not carried into total.

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
LEATHER, ETC.—Continued								
Trunks, suitcases, and bags.	1933	270	5,117	3,749	9,328	17,368	8,040	----------
	1931	371	6,198	6,343	13,232	26,715	13,483	----------
	1929	467	11,359	13,757	31,694	63,969	32,275	10,220
Leather goods, not elsewhere classified.	1933	291	4,547	3,516	9,176	18,425	9,250	----------
	1931	355	5,221	5,321	11,974	26,012	14,038	----------
	1929	392	6,035	6,760	18,013	35,951	17,938	3,196
STONE, CLAY, AND GLASS PRODUCTS								
Industries using stone as a material, total.	1933	2,516	58,226	51,875	91,736	261,044	169,308	----------
	1931	3,762	84,787	107,105	165,666	463,441	297,774	----------
	1929	5,146	116,411	171,790	268,246	751,210	482,965	1,856,952
	1927	5,156	126,569	187,879	303,632	787,843	484,211	1,672,639
	1925	4,852	123,699	178,644	300,793	779,031	478,238	1,365,906
Concrete products	1933	766	4,422	3,592	9,289	20,538	11,249	----------
	1931	1,432	9,253	10,728	22,373	53,192	30,819	----------
	1929	2,438	16,505	22,688	34,035	92,901	58,866	67,651
Marble, granite, slate, and other stone products.	1933	1,129	16,541	16,760	17,777	55,041	37,264	----------
	1931	1,588	27,700	41,651	34,405	119,395	84,990	----------
	1929	1,881	37,817	63,041	57,638	192,164	134,526	305,915
Lime	1933	167	5,972	4,079	6,543	16,200	9,657	----------
	1931	203	6,706	6,012	8,896	22,200	13,304	----------
	1929	237	8,554	9,476	13,908	35,816	21,908	90,276
Cement	1933	148	15,829	13,870	26,932	86,921	59,989	----------
	1931	164	24,317	29,884	56,098	148,845	92,747	----------
	1929	174	33,368	48,849	95,242	267,509	172,267	1,183,989
	1927	161	36,322	53,111	120,012	293,565	173,553	1,069,390
	1925	145	38,437	53,912	114,169	300,895	186,726	871,650
Wall board, insulating board, gypsum, and other plasters, and floor composition.	1933	161	4,404	3,457	8,984	26,725	17,741	----------
	1931	204	5,866	6,482	17,869	51,720	33,852	----------
	1929	236	7,462	10,080	28,313	70,663	42,350	142,354
Abrasive wheels, stones, paper, and cloth, and related products.[1]	1933	77	4,890	4,981	11,349	30,159	18,810	----------
	1931	73	4,614	5,540	11,727	31,647	19,919	----------
Asbestos products, other than steam packing or pipe and boiler covering.	1933	58	6,084	5,075	10,789	25,255	14,466	----------
	1931	67	6,009	6,452	13,837	35,174	21,337	----------
	1929	67	8,092	10,777	25,408	56,164	30,756	40,458
Sand-lime brick	1933	10	84	61	74	205	131	----------
	1931	31	322	357	461	1,268	806	----------
	1929	40	566	776	945	2,971	2,026	7,346
Industries using clay and other earths as materials, total.	1933	1,374	58,456	39,486	38,424	122,831	84,406	----------
	1931	1,807	80,969	75,223	59,977	209,286	149,309	----------
	1929	2,370	133,668	158,476	122,823	441,270	318,447	641,300
	1927	2,598	148,850	182,466	156,264	488,559	332,295	707,248
	1925	2,688	150,953	189,012	155,937	502,770	346,833	700,775
Clay products (other than pottery) and nonclay refractories.	1933	928	31,944	18,967	19,994	64,603	44,609	----------
	1931	1,264	51,128	44,368	36,969	127,336	90,367	----------
	1929	1,760	93,657	107,348	82,734	297,879	215,145	535,567
	1927	1,857	101,230	122,311	100,642	321,890	221,248	531,269
	1925	1,950	103,061	127,508	100,768	335,822	235,054	518,680
Pottery, including porcelain ware.	1933	231	23,632	17,891	12,179	43,718	31,539	----------
	1931	275	27,023	26,981	16,393	65,866	49,473	----------
	1929	313	35,409	43,656	27,007	110,622	83,615	61,868
China firing and decorating, not done in potteries.	1933	14	152	127	378	762	384	----------
	1931	21	220	236	551	1,128	577	----------
	1929	27	317	420	640	1,554	914	53
Graphite, ground and refined.	1933	10	168	146	763	1,490	727	----------
	1931	9	183	183	976	1,962	986	----------
	1929	11	494	627	1,458	3,760	2,302	3,156
Minerals and earths, ground or otherwise treated.	1933	107	1,874	1,565	4,389	9,684	5,295	----------
	1931	88	1,090	1,127	3,817	7,295	3,478	----------
	1929	88	1,679	2,188	8,938	17,409	8,471	39,117

[1] Because of a change in classification, no comparable figures can be shown for earlier years.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
STONE, CLAY, ETC.—Continued								
Statuary and art goods (except concrete), factory production.	1933	84	686	789	721	2,574	1,853	----------
	1931	150	1,325	2,328	1,271	5,700	4,429	----------
	1929	171	2,112	4,236	2,045	10,045	8,000	1,539
Glass and manufactures of glass, total.	1933	638	56,317	50,781	81,995	224,825	142,830	----------
	1931	839	57,100	66,531	90,824	252,592	161,767	----------
	1929	998	78,338	102,552	135,272	368,934	233,663	356,150
	1927	919	74,598	93,928	134,879	336,147	201,268	329,244
	1925	938	78,384	99,356	146,697	358,851	212,154	281,476
Glass	1933	213	49,797	45,222	63,410	191,948	128,538	----------
	1931	229	49,917	57,882	73,575	216,265	142,690	----------
	1929	263	67,527	87,795	103,294	303,819	200,525	341,979
	1927	269	65,825	81,353	109,911	282,304	172,483	318,298
	1925	310	69,371	86,736	113,652	295,959	182,307	271,639
Mirrors and other glass products made of purchased glass.	1933	425	6,520	3,559	18,585	32,877	14,292	----------
	1931	610	7,183	8,650	17,250	36,327	19,077	----------
	1929	735	10,811	14,757	31,978	65,116	33,138	14,171
IRON AND STEEL AND THEIR PRODUCTS, NOT INCLUDING MACHINERY								
Crude iron and steel and rolled products, total.	1933	466	288,945	270,367	876,046	1,357,574	481,529	----------
	1931	526	278,206	357,645	1,091,015	1,714,214	623,199	----------
	1929	591	419,534	730,974	2,514,377	4,137,214	1,622,837	7,532,530
	1927	602	389,270	645,534	2,269,210	3,488,744	1,219,534	6,781,058
	1925	595	399,914	660,297	2,429,378	3,711,354	1,281,976	6,143,927
Blast-furnace products.	1933	72	12,098	11,564	183,957	213,685	29,729	----------
	1931	80	13,572	19,259	259,132	311,371	52,240	----------
	1929	105	24,960	41,959	610,294	771,425	161,132	[15]
	1927	116	27,958	44,258	579,555	708,904	129,349	[15]
	1925	122	29,188	45,312	617,417	765,286	147,869	1,380,394
Steel works and rolling-mill products.	1933	394	276,847	258,803	692,089	1,143,889	451,800	----------
	1931	446	264,634	338,387	831,884	1,402,843	570,959	----------
	1929	486	394,574	689,016	1,904,083	3,365,789	1,461,706	[16]7,532,530
	1927	486	361,312	601,275	1,689,655	2,779,840	1,090,185	[16]6,781,058
	1925	473	370,726	614,985	1,811,961	2,946,068	1,134,107	4,763,533
Other iron and steel products, total.[17]	1933	4,667	265,166	230,012	524,784	1,105,426	580,642	----------
	1931	5,439	319,747	347,480	715,355	1,563,191	847,837	----------
	1929	6,049	461,348	650,013	1,348,497	3,000,714	1,652,217	1,668,292
	1927	5,738	445,697	618,278	1,275,405	2,708,850	1,433,445	1,541,672
	1925	5,468	450,869	623,544	1,304,707	2,747,327	1,442,621	1,374,799
Bolts, nuts, washers, and rivets, not made in rolling mills.[18]	1933	103	8,486	7,155	15,350	32,874	17,523	----------
	1931	116	10,518	10,177	16,872	39,483	22,611	----------
	1929	117	16,175	22,116	44,212	102,392	58,180	66,343
Cast-iron pipe and fittings.	1933	71	9,454	5,847	8,992	20,916	11,924	----------
	1931	78	16,066	14,559	20,977	47,938	26,960	----------
	1929	72	19,741	22,552	34,289	80,261	45,971	69,757
Doors, shutters, and window sash and frames, molding, and trim, metal.	1933	125	3,572	3,123	5,953	13,377	7,423	----------
	1931	139	6,816	8,898	14,572	35,608	21,036	----------
	1929	148	9,557	17,065	30,178	72,160	41,982	25,027
Forgings, iron and steel, not made in plants operated in connection with steel works or rolling mills.[18]	1933	181	7,953	7,354	16,896	32,523	15,627	----------
	1931	202	9,971	11,444	22,657	47,700	25,043	----------
	1929	218	20,882	34,505	71,607	156,249	84,642	147,491

[15] Not reported separately; included with "Steel works and rolling-mill products."
[16] Combined total for "Blast-furnace products" and "Steel works and rolling-mill products."
[17] Figures for 1929 and prior years include "Iron and steel, processed", abandoned as a separate industry classification in 1931 and, beginning with that year, included with "Foundry and machine-shop products, not elsewhere classified," in the machinery group.
[18] Similar products are manufactured to a considerable extent by departments of "Steel works and rolling-mill products" industry. The figures here given refer only to establishments engaged primarily in the manufacture of the specified classes of products.

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
IRON AND STEEL, ETC.—Continued								
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.[18]	1933	39	1,695	1,590	2,704	6,973	4,269	----------
	1931	46	1,570	1,670	2,982	6,828	3,846	----------
	1929	55	2,027	2,553	5,956	12,855	6,899	9,096
Springs, steel, except wire, not made in plants operated in connection with rolling mills.[14] [18]	1933	60	2,112	1,972	5,543	10,413	4,869	----------
	1931	*77*	*2,561*	*3,101*	*6,367*	*12,614*	*6,248*	----------
	1931	98	2,938	3,634	7,541	15,158	7,617	----------
	1929	86	5,842	9,314	25,372	46,672	21,300	24,318
Steel barrels, kegs, and drums.	1933	58	6,517	6,026	18,035	30,399	12,364	----------
	1931	52	3,253	3,513	12,990	21,644	8,654	----------
	1929	53	4,110	5,769	21,947	37,825	15,878	15,289
Structural and ornamental metal work, not made in plants operated in connection with rolling mills.[18]	1933	962	21,377	18,624	63,169	107,612	44,443	----------
	1931	1,302	37,510	47,875	131,649	238,033	106,384	----------
	1929	1,482	54,947	87,786	244,696	477,037	232,341	266,175
	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
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.[18]	1933	44	6,552	5,580	20,821	34,957	14,135	----------
	1931	51	8,045	9,890	42,291	75,041	32,749	----------
	1929	50	11,417	18,762	70,121	124,659	54,538	68,630
Firearms	1933	22	3,382	3,164	2,169	9,214	7,045	----------
	1931	24	4,264	4,711	2,501	10,611	8,110	----------
	1929	21	6,838	9,210	4,117	21,970	17,853	15,427
Galvanizing and other coating, not done in plants operated in connection with rolling mills.[18]	1933	54	761	661	1,164	2,691	1,527	----------
	1931	60	1,011	1,170	1,669	4,060	2,391	----------
	1929	65	1,125	1,564	3,939	7,667	3,727	2,266
Hardware, not elsewhere classified.	1933	381	32,550	26,937	30,040	85,077	55,037	----------
	1931	451	36,118	37,269	38,318	115,900	77,582	----------
	1929	485	52,306	67,702	76,480	229,478	152,997	112,705
	1927	485	47,834	60,827	71,877	208,254	136,377	99,674
	1925	476	52,349	65,562	77,503	225,053	147,550	98,278
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.	1933	232	15,893	12,922	17,561	46,886	29,325	----------
	1931	238	19,688	20,440	26,003	70,936	44,933	----------
	1929	255	27,960	37,067	49,033	129,674	80,641	100,821
Safes and vaults	1933	21	933	643	938	2,918	1,980	----------
	1931	25	2,044	2,176	4,073	11,607	7,534	----------
	1929	27	3,033	4,439	6,392	19,362	12,970	10,806
Screw-machine products and wood screws.	1933	255	10,236	8,950	13,485	33,449	19,964	----------
	1931	275	12,047	13,478	16,142	43,698	27,556	----------
	1929	273	19,881	28,987	39,463	105,975	66,512	64,840
Steam and hot-water heating apparatus and steam fittings.	1933	227	22,301	19,541	20,061	69,234	49,173	----------
	1931	238	28,996	29,558	29,704	102,501	72,797	----------
	1929	240	39,621	58,975	72,708	228,310	155,602	137,339
	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
Stoves and ranges (other than electric), and warm-air furnaces.	1933	543	30,193	26,969	46,284	117,737	71,453	----------
	1931	589	32,580	35,275	61,833	169,106	107,273	----------
	1929	609	46,616	65,147	100,747	271,747	171,000	113,100
	1927	564	45,180	64,327	93,096	258,286	165,190	100,009
	1925	564	46,514	66,299	95,873	264,303	168,430	94,126
Tin cans and other tinware, not elsewhere classified.[19]	1933	194	23,343	22,693	137,046	207,946	70,900	----------
	1931	199	25,271	27,978	149,121	223,634	74,513	----------
	1929	232	31,497	38,173	194,987	296,901	101,915	77,332
	1927	236	29,721	35,001	169,421	253,479	84,057	64,005
	1925	221	29,901	34,392	175,779	260,360	84,581	48,728

[14] Because of changes in classification, the statistics for 1931 and prior years are not strictly comparable with those for 1933. The figures in italics for 1931 have been adjusted for comparison with those for 1933.

[18] Similar products are manufactured to a considerable extent by departments of "Steel works and rolling-mill products" industry. The figures here given refer only to establishments engaged primarily in the manufacture of the specified classes of products.

[19] "Tin plate and terneplate" is treated as part of the "Steelworks and rolling-mill products" industry.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
IRON AND STEEL, ETC.—Continued								
Tools and cutlery:								
Cutlery (not including silver and plated cutlery) and edge tools.	1933	200	10,807	8,848	8,647	38,718	30,071	----------
	1931	221	12,485	12,194	8,983	52,337	43,354	----------
	1929	239	14,991	17,651	14,789	78,661	63,872	49,886
Files	1933	23	2,634	2,431	1,567	7,391	5,824	----------
	1931	26	3,016	2,719	1,221	7,316	6,095	----------
	1929	33	3,974	5,240	3,053	14,114	11,062	12,091
Saws	1933	71	2,528	2,347	3,003	9,926	6,923	----------
	1931	78	3,005	3,084	4,035	11,572	7,537	----------
	1929	81	4,137	5,727	6,884	22,615	15,731	11,894
Tools, not including edge tools, machine tools, files, or saws.	1933	294	9,598	8,158	10,521	34,199	23,678	----------
	1931	355	10,833	11,209	13,725	42,417	28,692	----------
	1929	534	19,305	25,808	32,111	99,462	67,352	65,965
Wire drawn from purchased rods.	1933	78	14,656	14,321	39,615	75,476	35,861	----------
	1931	82	14,476	17,179	45,187	83,370	38,183	----------
	1929	81	22,467	35,110	126,182	213,997	87,815	150,620
	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
Wirework, not elsewhere classified.	1933	429	17,633	14,155	35,220	74,520	39,300	----------
	1931	494	17,226	17,382	40,308	86,694	46,386	----------
	1929	547	22,388	27,912	68,144	146,805	78,661	48,864
NONFERROUS METALS AND THEIR PRODUCTS								
Smelting and refining, total.	1933	214	18,236	17,023	302,328	359,012	56,684	----------
	1931	237	21,906	27,064	401,151	484,682	83,530	----------
	1929	250	36,046	56,447	1,344,040	1,519,642	175,601	618,485
	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	[2]479,412
Primary, total	1933	59	14,567	13,549	231,885	273,286	41,401	----------
	1931	76	18,477	22,716	335,713	408,589	72,876	----------
	1929	75	30,981	49,239	1,199,025	1,345,800	146,775	596,081
	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	[2]456,496
Copper	1933	19	5,596	5,387	142,672	158,610	15,938	----------
	1931	27	8,642	10,708	226,520	269,384	42,864	----------
	1929	26	14,544	23,952	920,351	994,784	74,432	412,244
	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	[2]321,909
Lead	1933	14	2,105	2,325	60,534	70,454	9,920	----------
	1931	16	2,584	3,569	78,745	90,726	11,982	----------
	1929	19	4,819	7,577	203,914	232,115	28,201	59,936
	1927	18	5,398	7,690	202,859	225,138	22,279	48,298
	1925	17	6,115	9,002	254,881	283,043	28,162	47,219
Zinc	1933	26	6,866	5,838	28,679	44,222	15,543	----------
	1931	33	7,251	8,439	30,449	48,479	18,030	----------
	1929	30	11,618	17,710	74,760	118,901	44,141	123,901
Secondary, total	1933	155	3,669	3,474	70,443	85,726	15,284	----------
	1931	161	3,429	4,348	65,438	76,093	10,655	----------
	1929	175	5,065	7,208	145,015	173,842	28,827	22,404
Gold, silver, and platinum, refining and alloying.	1933	61	745	980	39,036	44,604	5,567	----------
	1931	63	803	1,186	36,893	41,398	4,505	----------
	1929	69	931	1,634	61,570	67,959	6,389	4,230
Nonferrous metals other than gold, silver, and platinum, not from the ore.	1933	94	2,924	2,494	31,407	41,123	9,716	----------
	1931	98	2,626	3,162	28,546	34,695	6,150	----------
	1929	106	4,134	5,574	83,445	105,883	22,438	18,174
Metals and manufactures of metals, total.	1933	4,705	170,036	149,699	338,799	709,741	370,943	----------
	1931	6,073	186,949	213,113	461,036	964,580	503,544	----------
	1929	7,272	278,695	387,019	1,121,404	2,077,416	956,012	951,732
	1927	6,533	238,580	332,670	848,199	1,590,955	742,755	744,970
	1925	6,768	239,422	327,859	878,245	1,595,045	716,800	678,128

[2] Revised; revision not carried into total.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
NONFERROUS METALS, ETC.—Contd.								
Aluminum products	1933	109	13,634	11,900	34,027	61,464	27,437	----------
	1931	138	13,803	16,106	41,605	76,300	34,695	----------
	1929	150	21,210	29,693	94,036	153,457	59,421	107,846
Clocks, watches, time-recording devices, and materials and parts.[20]	1933	53	12,850	10,003	9,468	31,656	22,188	----------
	1931	75	16,213	15,686	12,880	45,563	32,683	----------
	1929	81	21,450	25,750	21,388	77,467	56,079	22,794
Collapsible tubes	1933	17	1,750	1,482	3,834	6,924	3,090	----------
	1931	17	1,737	1,634	4,142	7,634	3,492	----------
	1929	17	1,821	1,782	5,386	8,913	3,527	2,272
Watch cases	1933	20	1,169	1,006	760	2,657	1,897	----------
	1931	31	1,669	1,767	1,361	4,219	2,858	----------
	1929	40	3,404	4,626	4,631	13,491	8,860	5,581
Sheet-metal work, not specifically classified.	1933	1,229	13,050	12,658	35,463	68,807	33,344	----------
	1931	1,762	19,365	25,158	56,342	116,443	60,101	----------
	1929	2,161	28,593	43,255	112,648	222,485	109,837	53,749
	1927	1,981	24,527	38,668	98,386	191,129	92,743	35,880
	1925	2,107	24,996	37,825	84,080	175,043	90,963	35,273
Fire extinguishers, chemical.	1933	22	589	604	1,720	3,775	2,055	----------
	1931	25	571	617	1,796	4,453	2,656	----------
	1929	28	740	959	4,188	8,566	4,379	1,464
Stamped ware, enameled ware, and metal stampings; enameling, japanning, and lacquering.	1933	552	32,302	26,634	54,682	117,372	62,690	----------
	1931	566	28,378	30,662	53,618	122,696	69,078	----------
	1929	582	40,000	50,092	87,639	204,306	116,667	98,184
	1927	476	30,853	38,172	68,880	150,936	82,056	73,619
	1925	465	31,254	38,277	79,737	160,992	81,255	68,121
Lighting equipment	1933	357	10,538	9,506	19,241	46,173	26,933	----------
	1931	523	14,790	18,150	30,312	75,050	44,738	----------
	1929	614	23,580	33,269	57,918	144,966	87,047	40,209
Needles, pins, hooks and eyes, and snap fasteners.	1933	45	6,412	5,768	5,818	22,758	16,940	----------
	1931	46	5,354	5,667	4,842	20,342	15,500	----------
	1929	43	6,242	6,566	6,188	22,031	15,843	6,694
Nonferrous-metal alloys; nonferrous-metal products, except aluminum, not elsewhere classified.	1933	875	47,784	43,729	128,356	239,156	110,800	----------
	1931	1,056	48,913	55,109	195,338	331,439	136,101	----------
	1929	1,225	79,183	116,944	600,411	909,804	309,393	506,273
	1927	1,197	65,923	95,351	378,190	581,569	203,379	411,925
	1925	1,140	65,135	93,820	401,316	593,556	192,240	369,239
Gold leaf and foil	1933	31	608	348	684	1,402	718	----------
	1931	48	865	631	1,015	2,217	1,202	----------
	1929	75	1,177	1,134	1,933	3,978	2,045	383
Tin and other foils, not including gold foil.	1933	7	1,337	1,189	7,680	11,331	3,651	----------
	1931	8	[2] 1,218	998	7,383	12,226	4,843	----------
	1929	7	1,710	1,856	13,548	20,955	7,406	18,642
Jewelry[21]	1933	779	13,069	11,323	16,783	42,652	25,869	----------
	1931	1,052	16,724	20,231	28,684	75,123	46,438	----------
	1929	*1,436*	*26,287*	*35,485*	*66,506*	*155,544*	*89,037*	----------
	1929	1,536	27,922	37,980	79,805	177,387	97,582	27,402
Jewelers' findings and materials.[1] [21]	1933	60	1,811	1,604	5,503	9,250	3,747	----------
	1931	99	1,899	2,343	7,121	11,976	4,855	----------
Silverware and plated ware.	1933	126	9,177	8,229	12,425	34,333	21,907	----------
	1931	163	11,077	12,713	11,792	45,815	34,022	----------
	1929	179	15,735	22,578	26,886	85,882	58,997	36,224
Electroplating	1933	423	3,956	3,715	2,352	10,032	7,680	----------
	1931	464	4,107	5,642	2,802	13,084	10,282	----------
	1929	534	5,928	9,537	4,799	23,728	18,929	24,015
MACHINERY, EXCEPT TRANSPORTATION EQUIPMENT								
Agricultural implements.	1933	170	11,140	9,830	11,978	30,539	18,561	----------
	1931	219	17,529	19,106	32,244	84,288	52,044	----------
	1929	293	41,663	58,942	113,969	277,854	163,885	128,499
	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

[1] Because of a change in classification, no comparable figures can be shown for earlier years.
[2] Revised; revision not carried into total.
[20] Not including watch cases.
[21] Establishments classified in the "Jewelers' findings and materials" industry for 1931 were, for the most part, classified in the "Jewelry" industry in prior years; figures for the latter industry for 1931 are, therefore, not strictly comparable with those for prior years. Figures shown in italics have been adjusted for comparison with those for 1931.

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MACHINERY, ETC.—Continued.								
Cash registers, and adding, calculating, and card tabulating machines.	1933	40	10,908	13,026	5,869	42,023	36,154	----------
	1931	41	12,176	14,982	5,269	56,474	51,205	----------
	1929	46	16,840	29,746	10,766	110,001	99,235	28,257
Electrical machinery, apparatus, and supplies. [22]	1933	1,209	130,857	115,750	212,514	553,431	340,918	----------
	1931	1,379	180,106	204,488	337,125	995,010	657,886	----------
	1931	*1,567*	*214,734*	*237,763*	*423,511*	*1,179,408*	*755,897*	----------
	1929	1,802	328,722	456,378	971,018	2,300,916	1,329,898	893,519
	1927	1,777	241,566	336,230	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
Elevators and elevator equipment. [23]	1933	90	3,078	3,044	5,669	11,380	5,711	----------
	1931	94	4,516	4,180	13,119	26,317	13,198	----------
Engines, turbines, tractors, water wheels, and windmills.	1933	177	23,535	23,584	40,464	91,031	50,567	----------
	1931	204	34,130	39,232	82,515	193,963	111,448	----------
	1929	214	62,702	100,850	206,472	465,858	259,386	291,570
	1927	231	55,696	86,672	168,436	375,393	206,956	245,396
	1925	235	52,490	75,415	149,159	321,572	172,413	227,572
Foundry and machine-shop products, not elsewhere classified. [24]	1933	6,081	216,439	201,940	287,608	788,195	500,587	----------
	1931	*7,091*	*277,029*	*320,601*	*432,621*	*1,225,851*	*793,231*	----------
	1931	7,221	284,909	328,459	452,551	1,266,619	814,068	----------
	1929	8,605	454,441	697,509	1,038,066	2,791,462	1,753,396	1,804,886
	1927	*8,095*	*398,672*	*590,924*	*878,771*	*2,268,653*	*1,389,882*	*1,550,240*
	1927	8,380	403,939	601,023	883,652	2,291,543	1,407,891	1,561,934
	1925	8,203	403,832	600,022	894,406	2,264,376	1,369,970	1,446,458
Machine-tool accessories and machinists' precision tools and instruments.	1933	587	12,757	14,159	10,882	44,383	33,501	----------
	1931	718	17,533	26,559	16,320	69,033	52,713	----------
	1929	722	26,682	51,085	26,993	144,411	117,418	64,398
Machine tools [25]	1933	232	12,714	12,596	10,844	41,433	30,589	----------
	1931	279	21,262	25,150	21,901	81,287	59,386	----------
	1929	280	47,391	76,410	64,284	244,578	180,294	141,778
	1927	*288*	*52,383*	*47,403*	*43,151*	*145,855*	*102,703*	*125,426*
	1927	355	35,269	52,366	46,115	159,513	113,398	131,670
	1925	329	30,831	46,711	43,826	144,202	100,376	118,819
Meters (gas, water, etc. and gas generators.)	1933	63	3,156	2,948	4,012	12,848	8,836	----------
	1931	70	4,954	5,756	7,217	23,050	15,833	----------
	1929	72	6,101	8,932	15,187	40,623	25,436	11,029
Pumps (hand and power) and pumping equipment.	1933	257	11,110	10,379	20,257	49,002	28,745	----------
	1931	303	15,156	17,107	33,735	84,353	50,619	----------
	1929	322	23,106	34,920	66,802	164,009	97,207	82,403
Refrigerators, and refrigerating and ice-making apparatus. [26]	1933	204	26,398	24,335	69,601	140,762	71,161	----------
	1931	227	26,116	32,350	88,562	199,427	110,865	----------
	1929	222	26,667	39,378	98,864	222,049	123,185	73,446
	1927	187	20,836	30,329	67,746	154,677	86,931	[3] 56,767
Radio apparatus and phonographs. [27]	1933	156	32,879	29,654	58,521	121,802	63,281	----------
	1931	217	36,490	35,146	88,403	193,143	104,740	----------

[3] Revised; revision not carried into total.

[22] Prior to 1931 this industry covered radio apparatus and tubes included for 1931 in a new classification, "Radio apparatus and phonographs." Figures for 1931 are, therefore, not comparable with those for prior years; figures shown in italics were adjusted for comparison with those for prior years.

[23] A new classification at the census for 1933, formerly a part of "Foundry and machine-shops products, n. e. c." The figures for 1931 were compiled for comparison with 1933.

[24] At the census for 1933 certain establishments formerly classified in this industry, were classified in the "Elevators and elevator equipment" and "Refrigerators and refrigerating and ice-making apparatus" industries, and the figures in italics for 1931 have been adjusted for comparison with 1933. At the census for 1929 certain establishments which had been formerly classified in this industry were classified as "Machine-tool accessories and machinists' precision tools and instruments." The figures in italics for 1927 were adjusted for comparison with 1929. This industry includes for 1931 and 1933 "Iron and steel processed", formerly treated as separate industry in the "Iron and steel" group. Figures for prior years have not been revised to include such data.

[25] For 1929 and 1931 certain establishments, formerly classified in this industry, were included in a new industry classification "Machine-tool accessories and machinists' precision tools and instruments." Figures for 1929 and 1931 are, therefore, not strictly comparable with those for prior years. Figures in italics have been adjusted for comparison with those for later years.

[26] This classification covers "Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment" and "Refrigerators, mechanical", formerly separate classifications in groups 3 and 13, respectively, and also includes, beginning 1931, statistics for a small number of establishments producing industrial ice-making and refrigerating machinery, formerly included in "Foundry and machine-shop products." As figures for 1927 and 1929 do not include the establishments producing industrial ice-making and refrigerating machinery, they are not comparable with those for later years.

[27] No comparable data for prior years. Radio apparatus was formerly included in "Electrical machinery, apparatus, and supplies" and "Phonographs", was a separate industry in the "Miscellaneous industries" group.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MACHINERY, ETC.—Continued								
Scales and balances	1933	45	2,187	1,825	2,162	8,333	6,171	----------
	1931	54	2,814	3,233	3,644	*14,561*	*10,917*	----------
	1929	59	4,118	5,995	7,438	30,381	22,943	9,738
Sewing machines and attachments.	1933	30	6,313	6,034	2,862	12,926	10,064	----------
	1931	34	8,090	8,792	6,091	20,148	14,057	----------
	1929	39	10,467	14,976	16,458	45,095	28,636	29,659
Textile machinery and parts.	1933	314	18,576	18,737	18,378	60,323	41,945	----------
	1931	330	18,808	21,238	18,175	65,798	47,623	----------
	1929	376	27,019	37,836	36,556	122,439	85,882	66,539
Typewriters and parts	1933	14	9,591	7,565	3,256	16,465	13,208	----------
	1931	20	10,924	10,328	3,785	22,057	18,271	----------
	1929	26	16,945	22,319	7,249	*61,858*	*54,609*	*23,383*
Washing machines, wringers, driers, and ironing machines, for household use.	1933	41	6,956	6,362	24,361	44,542	20,181	----------
	1931	59	6,201	7,212	24,521	50,929	26,408	----------
	1929	65	8,189	12,072	40,707	82,330	41,623	26,732
TRANSPORTATION EQUIPMENT								
Motor vehicles, not including motorcycles.[28]	1933	122	97,869	103,785	767,768	1,096,946	329,178	----------
	1931	178	134,866	156,756	1,044,406	1,567,526	523,120	----------
	1929	*210*	*224,688*	*364,467*	*2,394,561*	*3,709,515*	*1,314,954*	*707,842*
	1929	244	226,116	366,579	2,401,512	3,722,793	1,321,282	713,912
	1927	264	187,910	321,664	1,889,426	2,848,443	959,017	725,674
	1925	297	197,728	341,210	2,108,192	3,198,123	1,089,931	509,758
Motor-vehicle bodies and motor-vehicle parts.[28]	1933	701	145,745	148,322	439,633	761,225	321,592	----------
	1931	940	150,649	193,770	516,945	945,407	428,461	----------
	1929	*1,188*	*222,760*	*363,625*	*863,937*	*1,551,208*	*687,271*	*330,775*
	1929	1,154	221,332	366,503	856,986	1,537,930	680,944	824,705
	1927	1,213	181,489	291,291	641,307	1,151,426	510,120	551,639
	1925	1,358	228,382	372,721	862,721	1,523,280	660,558	662,255
Motorcycles, bicycles, and parts.	1933	19	3,038	2,639	6,162	12,055	5,894	----------
	1931	19	3,294	3,563	5,520	13,697	8,177	----------
	1929	21	4,392	6,264	11,281	23,895	12,613	11,124
Carriages, wagons, sleighs, and sleds.[14]	1933	53	1,409	922	2,350	4,753	2,402	----------
	1931	*70*	*1,321*	*1,199*	*2,494*	*5,161*	*2,666*	----------
	1931	75	1,431	1,389	2,918	6,179	3,261	----------
	1929	88	2,873	3,418	8,458	16,450	7,992	14,899
Carriages, and sleds, children's.	1933	46	3,971	2,877	5,671	10,985	5,314	----------
	1931	59	4,159	4,479	7,091	16,769	9,679	----------
	1929	79	7,102	8,313	13,515	28,818	15,303	10,895
Aircraft and parts	1933	64	7,816	10,308	7,957	26,460	18,503	----------
	1931	101	9,870	15,481	13,101	40,278	27,177	----------
	1929	132	14,710	21,924	27,368	71,153	43,785	16,505
Locomotives, other than electric, not made in railroad repair shops.	1933	13	2,374	1,863	4,266	6,927	2,661	----------
	1931	16	5,443	5,590	14,871	22,119	7,248	----------
	1929	16	11,045	17,994	52,808	83,858	31,050	98,482
Cars, electric and steam railroad, not built in railroad repair shops.	1933	138	14,266	14,710	27,310	46,148	18,837	----------
	1931	152	18,785	25,553	59,754	99,657	39,903	----------
	1929	147	40,015	63,387	223,889	328,220	104,331	238,455
	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
Ship and boat building, steel and wooden, including repair work.	1933	395	30,885	33,890	31,172	92,696	61,524	----------
	1931	518	45,262	62,028	72,322	186,993	114,671	----------
	1929	624	55,089	88,274	85,849	231,300	145,451	337,455
	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

[14] Because of changes in classification, the statistics for 1931 and prior years are not strictly comparable with those for 1933. The figures in italics for 1931 have been revised for comparison with 1933.

[28] At the census for 1931 trailers were included for the first time in the classification "Motor-vehicle bodies and motor-vehicle parts"; formerly these were included in "Motor vehicles, not including motorcycles." The statistics for 1929 in italics have been revised for statistics comparison with 1931 and 1933.

No. 760. MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
RAILROAD REPAIR SHOPS								
Railroad repair shops, steam.	1933	1,586	220,760	257,767	176,757	461,801	285,045	----------
	1931	1,783	282,405	396,394	276,705	678,922	402,217	----------
	1929	1,851	368,681	590,203	515,562	1,184,435	668,873	1,076,723
	1927	1,794	397,088	600,517	515,070	1,205,191	690,120	1,037,464
	1925	1,842	425,234	619,834	533,908	1,248,867	714,959	934,839
Railroad repair shops, electric.	1933	315	21,116	26,683	15,089	44,231	29,142	----------
	1931	384	26,629	38,854	22,119	61,841	39,722	----------
	1929	446	29,475	47,109	32,781	85,482	52,700	76,424
MISCELLANEOUS INDUSTRIES								
Musical instruments, total.	1933	170	6,106	5,097	5,424	15,715	10,292	----------
	1931	230	10,003	11,152	10,762	32,207	21,444	----------
	1929	316	18,625	25,782	30,030	79,981	49,951	49,092
Musical instruments and parts and materials, not elsewhere classified.	1933	72	2,064	1,678	1,624	5,114	3,490	----------
	1931	88	2,593	3,053	2,238	8,114	5,875	----------
	1929	106	3,176	4,581	3,825	14,274	10,449	6,060
Organs	1933	29	574	510	387	1,627	1,240	----------
	1931	42	1,460	1,763	1,627	5,710	4,083	----------
	1929	62	2,389	3,604	3,091	11,323	8,232	4,740
Pianos	1933	36	2,700	2,382	2,828	7,243	4,415	----------
	1931	50	4,737	5,157	5,892	15,293	9,401	----------
	1929	81	9,970	14,001	18,866	42,501	23,635	27,193
Piano and organ materials.	1933	33	768	527	584	1,732	1,148	----------
	1931	50	1,213	1,178	1,005	3,090	2,085	----------
	1929	67	3,090	3,597	4,248	11,883	7,635	11,099
Tobacco manufactures, total.	1933	804	87,325	50,933	[29] 659,095	909,082	249,987	----------
	1931	1,228	99,769	69,411	[29] 785,502) *363,476*	1,155,851	370,349	----------
	1929	1,788	116,119	94,579	429,272	1,246,242	[30]	64,984
	1927	2,156	129,299	105,251	420,667	1,163,768	[30]	52,385
	1925	2,623	132,132	111,558	425,769	1,091,001	[30]	42,075
Tobacco: Chewing and smoking, and snuff.	1933	112	10,223	7,037	[29] 82,946	131,935	48,988	----------
	1931	125	11,441	8,673	[29] 111,158) *66,878*	169,113	57,955	----------
	1929	152	10,811	8,955	72,494	179,333	[30]	15,467
Cigarettes [31]	1933	27	22,544	13,835	[29] 503,560	637,776	134,216	----------
	1931	40	20,146	14,664	[29] 550,049 *192,842*	759,389	204,340	----------
	1929	49	21,142	18,401	218,424	755,245	[30]	34,420
	1927	37	21,618	18,119	187,342	626,557	[30]	[32]
Cigars [31]	1933	665	54,558	30,061	[29] 72,589	139,372	66,783	----------
	1931	1,063	68,182	46,074	[29] 119,295 *103,761*	227,349	108,054	----------
	1929	1,587	84,165	67,222	138,354	311,664	[30]	15,097
	1927	1,960	94,556	76,470	148,014	338,967	[30]	[32]
Cigarettes and cigars [33]	1925	2,445	117,108	99,373	331,351	874,815	[30]	24,534
Other industries, total.	1933	7,705	167,652	148,321	333,795	752,560	418,765	----------
	1931	10,300	190,924	222,452	484,315	1,124,577	640,262	----------
	1929	12,508	282,666	380,173	899,978	2,099,872	1,199,894	550,213
	1927	11,786	282,298	383,751	904,627	2,021,945	1,117,318	731,445
	1925	11,191	271,555	348,762	851,795	1,863,381	1,011,585	638,790

[29] Figures include internal-revenue tax; figures in italics for 1931 exclude internal-revenue tax and are comparable with those for earlier years.

[30] No comparable figure because of the fact that the amount of internal-revenue tax is included in the "Cost of materials" for 1931 and 1933, but not for prior years, while this tax is included in the figures for "Value of products" for all years. ("Value added by manufacture" equals "value of products" less cost of materials, etc.")

[31] Separate data for cigarettes and cigars for 1925 are not available; combined data are shown below.

[32] Combined figure for cigarettes and cigars for 1927 is 35,810; separate figures are not available.

[33] Separate statistics for cigarettes and cigars for later years are shown above.

No. 760.—Manufactures: Summary for Individual Industries—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Artificial and preserved flowers and plants.	1933	131	2,338	1,567	2,481	6,445	3,964	----------
	1931	158	2,348	2,140	3,415	9,035	5,620	----------
	1929	191	3,216	3,218	5,527	14,425	8,898	625
Artists' materials	1933	56	844	727	2,014	4,961	2,947	----------
	1931	65	838	891	2,137	5,823	3,686	----------
	1929	68	1,167	1,429	4,155	9,460	5,304	3,397
Brooms	1933	260	3,757	2,111	4,601	9,073	4,472	----------
	1931	334	4,086	[2] 3,326	6,264	13,135	6,871	----------
	1929	407	4,542	4,169	9,648	19,166	9,519	4,672
Brushes, other than rubber.	1933	221	5,809	4,821	12,200	24,576	12,376	----------
	1931	264	5,891	5,992	14,228	30,827	16,600	----------
	1929	303	7,261	7,963	21,688	45,549	23,861	11,915
Buttons	1933	200	9,888	6,706	8,614	22,412	13,798	----------
	1931	212	8,224	6,661	8,303	21,525	13,221	----------
	1929	242	9,034	8,814	11,501	28,978	17,477	14,615
Carbon paper and inked ribbons.	1933	47	1,171	1,243	5,157	11,225	6,069	----------
	1931	54	1,198	1,463	6,034	13,476	7,442	----------
	1929	57	1,251	1,702	7,991	17,295	9,304	3,642
Combs and hairpins, not made from metal or rubber.	1933	17	411	279	471	911	441	----------
	1931	23	653	571	837	1,917	1,080	----------
	1929	24	656	641	1,007	2,482	1,476	1,015
Dentists' supplies and equipment, except instruments.	1933	79	3,120	2,452	6,945	16,437	9,492	----------
	1931	84	3,874	3,949	9,362	24,005	14,643	----------
	1929	87	4,559	5,359	17,327	35,180	17,853	6,216
Feathers, plumes, and manufactures thereof.	1933	40	322	265	227	835	608	----------
	1931	53	527	559	588	1,898	1,310	----------
	1929	39	257	310	386	1,141	755	100
Foundry supplies	1933	40	334	315	1,326	2,788	1,462	----------
	1931	52	428	492	2,080	3,998	1,918	----------
	1929	59	853	1,256	5,535	10,459	4,924	9,396
Fur goods	1933	1,463	8,210	11,500	50,061	80,524	30,464	----------
	1931	2,354	12,358	24,793	102,634	164,749	62,115	----------
	1929	2,855	15,752	33,330	176,107	277,593	101,486	5,511
	1927	2,756	16,640	37,671	195,323	299,615	104,292	5,655
	1925	2,000	16,556	35,164	159,316	254,266	94,950	4,985
Furs, dressed and dyed	1933	181	5,364	6,246	9,540	24,948	15,408	----------
	1931	243	5,160	7,968	16,221	37,873	21,652	----------
	1929	248	5,167	8,596	18,649	40,237	21,588	10,769
Hair work	1933	37	228	188	306	986	679	----------
	1931	52	267	288	311	1,184	874	----------
	1929	59	359	432	538	1,694	1,155	44
Hand stamps and stencils, and brands.	1933	256	2,196	2,062	1,855	7,637	5,782	----------
	1931	288	2,496	3,371	2,395	10,045	7,651	----------
	1929	332	2,971	4,081	3,811	15,036	11,225	3,596
Hats, straw, men's	1933	46	3,147	2,056	5,217	9,947	4,730	----------
	1931	50	2,823	2,784	7,253	13,892	6,639	----------
	1929	50	3,380	3,688	8,705	18,739	10,034	1,836
Instruments, professional and scientific, and gauges, except machinists' gages.	1933	210	6,211	6,712	6,300	25,287	18,987	----------
	1931	270	9,136	11,115	10,141	40,734	30,593	----------
	1929	276	16,876	22,682	28,411	89,746	61,335	22,816
Jewelry and instrument cases.	1933	62	1,095	841	1,135	3,096	1,961	----------
	1931	92	1,398	1,414	1,941	4,919	2,978	----------
	1929	113	2,269	2,473	3,324	8,827	5,502	1,503
Lapidary work	1933	34	107	124	483	823	340	----------
	1931	53	205	340	1,378	2,475	1,097	----------
	1929	100	506	1,002	8,235	11,942	3,708	474
Mattresses and bed springs, not elsewhere classified.	1933	645	13,280	10,694	32,491	59,724	27,233	----------
	1931	781	13,622	14,702	37,509	77,508	39,999	----------
	1929	951	17,187	22,584	61,527	123,280	61,753	50,554

[2] Revised; revision not carried into total.

No. 760.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
MISCELLANEOUS INDUSTRIES—Contd.								
Miscellaneous articles, not elsewhere classified.[6]	1933	557	13,024	9,615	16,174	40,900	24,726	
	1931	709	13,892	13,119	22,380	55,133	32,754	
	1929	835	19,113	19,465	35,657	86,649	50,992	11,713
Models and patterns, not including paper patterns.	1933	422	2,795	3,525	1,483	8,627	7,145	
	1931	649	4,332	7,378	2,787	16,192	13,405	
	1929	804	6,778	13,234	5,314	30,621	25,307	12,378
Optical goods	1933	103	7,598	7,300	8,155	26,214	18,059	
	1931	102	7,446	8,756	7,524	27,887	20,364	
	1929	117	9,701	12,634	11,859	40,562	28,703	15,626
Paving materials: Blocks (except brick and stone), and mixtures.	1933	93	1,151	1,215	6,287	10,950	4,663	
	1931	97	1,081	1,556	8,587	16,003	7,416	
	[2] 1929	77	1,376	2,187	11,998	22,060	10,062	11,100
Pencils, lead (including mechanical).	1933	25	3,469	2,699	4,109	11,569	7,460	
	1931	26	3,459	3,177	5,202	13,959	8,757	
	1929	38	5,703	6,292	10,756	27,773	17,017	9,921
Pens, fountain and stylographic; pen points, gold, steel, and brass.	1933	54	3,099	2,341	4,124	11,598	7,473	
	1931	68	3,945	4,364	7,219	23,799	16,579	
	1929	76	4,600	5,304	11,459	34,211	22,752	4,235
Photographic apparatus and materials and projection apparatus.	1933	84	8,975	10,155	11,985	53,860	41,875	
	1931	110	10,609	13,082	20,868	79,506	58,639	
	1929	115	12,967	20,607	30,393	102,827	72,435	31,904
Pipes (tobacco)	1933	22	1,362	1,145	960	3,274	2,314	
	1931	24	1,677	1,761	1,776	5,522	3,747	
	1929	24	1,680	1,961	1,749	5,558	3,809	2,276
Roofing, built-up and roll; asphalt shingles; roof coatings, other than paint.	1933	74	4,418	4,436	23,893	44,333	20,940	
	1931	83	4,123	5,331	32,706	58,963	26,257	
	1929	102	6,027	8,952	61,392	103,506	42,115	33,791
Signs and advertising novelties.	1933	848	12,044	11,577	15,312	47,144	31,832	
	1931	1,078	14,463	18,485	21,297	74,681	53,384	
	1929	1,239	20,000	27,901	35,701	118,044	82,343	19,627
Soda fountains and accessories.	1933	40	816	948	2,649	6,035	3,386	
	1931	47	1,563	2,190	5,236	14,606	9,370	
	1929	54	2,764	3,922	10,490	24,510	14,020	5,271
Sporting and athletic goods, not including firearms or ammunition.	1933	176	8,215	6,523	10,570	25,267	14,698	
	1931	217	10,176	11,219	20,099	49,257	29,159	
	1929	242	10,793	13,135	24,482	58,289	33,806	18,039
Stationery goods, not elsewhere classified.[1]	1933	86	3,467	2,738	6,818	14,241	7,423	
	[2] 1931	128	5,088	5,345	12,211	27,196	14,985	
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.	1933	129	4,575	4,006	9,183	20,275	11,092	
	1931	141	4,705	5,174	11,297	25,401	14,103	
	1929	171	7,266	9,660	21,596	45,433	23,837	30,881
Surgical and orthopedic appliances and related products.	1933	250	6,958	6,119	28,846	51,442	22,596	
	1931	325	6,740	7,271	22,954	51,012	28,058	
	1929	363	7,910	8,922	36,005	71,607	35,602	13,407
Theatrical scenery and stage equipment.	1933	40	312	397	617	2,044	1,427	
	1931	45	365	649	1,218	3,003	1,784	
	1929	55	547	992	2,098	5,508	3,409	618
Toys, games, and playground equipment.[34]	1933	285	12,484	8,877	17,119	37,222	20,103	
	1931	380	13,231	12,380	21,515	53,601	32,086	
	1929	476	16,660	17,661	29,982	74,829	44,847	25,642
Umbrellas, parasols, and canes.	1933	80	2,155	1,531	4,972	8,259	3,287	
	1931	93	1,852	1,611	5,136	9,115	3,979	
	1929	141	2,855	2,768	10,907	17,994	7,087	3,069
Window shades and fixtures.	1933	312	2,903	2,264	9,115	16,170	7,055	
	1931	448	3,119	3,313	11,198	20,562	9,364	
	1929	482	4,708	5,624	19,785	36,965	17,179	8,389

[1] Because of a change in classification, no comparable figures can be shown for earlier years.
[2] Revised; revision not carried into total.
[6] Owing to a change in classification, data for 1929 are not strictly comparable with data for later years.
[34] Not including children's wheel goods or sleds.

Source: Bureau of the Census, Department of Commerce.

No. 761.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED: BY GEOGRAPHIC DIVISIONS AND STATES

NOTE.—The United States totals for 1927 to 1931 have been re ised to exclude statistics for "Coffee and spices, roasting and grinding" and "Peanuts, walnuts, and other nuts, processed or shelled", no data having been collected for these industries at the 1933 census. No data for "Coffee and spices, roasting and grinding" were collected for the United States as a whole at the 1925 census, and there are no comparable figures for "Peanuts, walnuts, and other nuts, processed or shelled" for years prior to 1927. These revisions have been made for divisions and States for the years 1929 and 1931 only. Data for "Poultry killing and dressing" are included for all years except 1927, for which year this industry was not canvassed. Statistics for horsepower were not collected for 1931 and 1933

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
United States	1933	141,769	6,055,736	5,261,576	16,820,822	31,358,840	14,538,018	----------
	1931	174,255	6,506,701	7,173,232	21,680,760	41,038,402	19,357,643	----------
	1929	209,862	8,821,757	11,607,287	38,177,900	69,960,910	31,783,010	42,869,403
	1927[1]	*190,958*	*8,334,184*	*10,856,978*	*34,802,594*	*62,873,116*	*27,475,583*	*38,769,188*
	1927[1]	191,866	8,349,755	10,848,803	35,133,137	62,718,347	27,585,210	38,825,681
	1925	187,390	8,384,261	10,729,969	35,935,648	62,713,714	26,778,066	35,772,628
New England	1933	14,012	798,282	685,362	1,469,804	3,073,140	1,603,336	----------
	1931	16,338	849,618	896,949	1,823,182	3,901,626	2,078,444	----------
	1929	18,230	1,097,986	1,345,721	3,142,745	6,377,943	*3,235,199*	*4,684,540*
	1927	17,745	1,093,748	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
Middle Atlantic	1933	43,831	1,745,624	1,637,201	4,672,407	9,333,966	4,661,558	----------
	1931	56,356	1,959,556	2,350,519	6,372,204	12,890,827	6,518,623	----------
	1929	64,528	2,560,069	3,637,674	11,085,616	21,235,221	10,149,605	11,612,902
	1927	62,276	2,467,791	3,491,680	10,488,832	19,533,075	9,044,243	10,968,754
	1925	58,895	2,491,039	3,434,610	10,682,358	19,409,491	8,727,133	10,106,390
East North Central	1933	32,256	1,600,969	1,494,447	4,722,617	8,845,121	4,122,504	----------
	1931	39,113	1,755,362	2,055,248	6,084,469	11,781,372	5,696,903	----------
	1929	46,233	2,539,925	3,736,127	11,614,800	21,568,789	9,953,989	12,591,913
	1927	43,671	2,309,860	3,340,801	10,525,393	18,988,400	8,463,007	11,056,846
	1925	42,888	2,342,799	3,345,894	10,764,884	19,026,814	*8,261,929*	*10,047,780*
West North Central	1933	12,222	322,871	287,531	1,480,750	2,381,800	901,050	----------
	1931	15,026	362,128	404,791	1,995,888	3,164,079	1,168,191	----------
	1929	17,684	470,919	587,222	3,466,220	5,324,138	1,857,918	2,202,727
	1927	16,192	448,192	550,698	3,170,989	4,733,112	1,562,123	2,033,074
	1925	16,280	452,820	552,702	3,216,616	4,724,411	1,507,795	1,855,278
South Atlantic	1933	12,610	770,805	498,676	1,731,746	3,059,753	1,328,008	----------
	1931	15,100	734,069	582,748	2,002,853	3,576,987	1,574,134	----------
	1929	20,699	909,114	824,422	2,772,946	5,221,614	2,448,667	4,305,447
	1927	17,029	879,060	794,265	2,487,871	4,631,952	2,144,081	3,805,038
	1925	16,576	838,834	757,051	2,549,391	4,532,146	1,982,755	3,384,030
East South Central	1933	4,939	263,783	167,217	535,560	980,595	445,035	----------
	1931	6,053	261,676	208,522	627,706	1,160,836	533,130	----------
	1929	9,784	377,032	348,186	1,073,602	1,993,334	919,731	1,995,266
	1927	7,637	359,542	331,280	1,025,122	1,808,818	783,696	1,787,386
	1925	8,080	355,995	322,675	1,042,478	1,808,702	766,224	1,615,183
West South Central	1933	6,936	192,885	143,856	813,184	1,271,447	458,263	----------
	1931	8,130	197,843	191,172	1,015,457	1,525,389	509,932	----------
	1929	10,420	294,806	315,007	1,822,358	2,762,462	940,104	1,744,071
	1927	8,208	267,142	281,156	1,644,155	2,399,410	755,255	1,419,558
	1925	7,887	265,160	267,875	1,722,382	2,546,506	824,124	1,316,629
Mountain	1933	2,869	59,853	58,494	257,770	419,489	161,719	----------
	1931	3,627	69,929	87,959	365,222	576,488	211,266	----------
	1929	4,293	102,331	144,315	866,490	1,235,443	368,954	937,978
	1927	3,919	94,957	130,304	659,600	981,091	321,490	829,256
	1925	3,849	100,374	134,583	688,350	1,046,318	357,968	757,974
Pacific	1933	12,094	300,665	288,792	1,136,984	1,993,530	856,546	----------
	1931	14,512	316,520	395,324	1,393,779	2,460,799	1,067,020	----------
	1929	17,991	469,575	668,613	2,333,123	4,241,965	1,908,842	2,794,559
	1927	15,189	424,463	599,969	2,082,311	3,614,013	1,531,702	2,359,614
	1925	14,762	415,024	575,269	2,041,255	3,455,241	1,413,986	2,269,169
New England:								
Maine	1933	995	59,518	45,867	115,205	219,119	103,913	----------
	1931	1,232	56,300	55,179	142,204	259,357	117,152	----------
	1929	1,565	70,149	74,189	217,212	391,558	174,346	679,114
	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

[1] The 1927 figures in italics are revised totals comparable with figures for later years; figures not in italics are as previously published and are comparable with State figures for that year and with figures for 1925, which have not been revised (see headnote).

No. 761.—Summary for All Manufacturing Industries Combined: By Geographic Divisions and States—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
New England—Contd.								
New Hampshire	1933	678	49,255	38,784	86,519	162,913	76,394	----------
	1931	848	53,044	51,807	112,739	210,074	97,335	----------
	1929	1,072	65,507	70,510	185,310	332,396	147,086	402,110
	1927	1,028	65,482	72,803	182,106	327,528	145,422	376,373
	1925	1,038	66,658	71,725	192,253	327,401	135,147	370,740
Vermont	1933	530	15,083	12,456	26,489	56,624	30,135	----------
	1931	701	18,725	20,921	37,411	80,594	43,183	----------
	1929	926	27,420	33,809	66,227	143,481	77,254	163,935
	1927	880	26,241	32,305	69,957	134,030	64,073	172,762
	1925	951	27,563	32,326	74,387	138,270	63,882	178,806
Massachusetts	1933	8,145	398,592	354,524	800,611	1,668,733	868,122	----------
	1931	9,274	433,974	473,649	1,005,402	2,144,593	1,139,191	----------
	1929	9,845	557,023	694,202	1,667,406	3,373,941	1,706,535	2,066,523
	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
Rhode Island	1933	1,254	92,512	76,124	163,734	331,046	167,312	----------
	1931	1,472	95,424	96,023	198,265	409,524	211,258	----------
	1929	1,700	126,048	144,172	341,615	665,534	323,919	463,742
	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
Connecticut	1933	2,410	183,322	157,608	277,246	634,705	357,459	----------
	1931	2,811	192,151	199,370	327,160	797,484	470,324	----------
	1929	3,122	251,839	328,839	664,975	1,471,034	806,059	909,116
	1927	2,877	240,806	304,504	596,014	1,284,739	688,724	847,395
	1925	3,062	242,362	301,200	612,642	1,274,952	662,309	790,087
Middle Atlantic:								
New York	1933	25,979	733,452	754,367	2,196,385	4,596,258	2,399,873	----------
	1931	34,482	846,804	1,103,664	3,102,818	6,500,401	3,397,583	----------
	1929	39,273	1,104,335	1,648,379	4,935,505	9,892,763	4,957,258	3,979,228
	1927	36,650	1,072,284	1,605,378	4,804,173	9,400,061	4,595,889	3,671,185
	1925	33,393	1,066,202	1,533,893	4,704,989	8,968,548	4,263,558	3,348,184
New Jersey	1933	5,759	295,574	283,242	878,933	1,686,129	807,196	----------
	1931	7,163	334,525	401,811	1,161,259	2,299,879	1,138,620	----------
	1929	8,374	442,177	610,404	2,157,268	3,923,262	1,765,993	1,644,667
	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
Pennsylvania	1933	12,093	716,598	599,591	1,597,090	3,051,579	1,454,489	----------
	1931	14,711	778,227	845,045	2,108,128	4,090,548	1,982,419	----------
	1929	16,881	1,013,557	1,378,890	3,992,843	7,419,197	3,426,354	5,989,007
	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
East North Central:								
Ohio	1933	8,101	472,699	439,753	1,234,187	2,374,653	1,140,467	----------
	1931	9,826	506,109	592,135	1,586,876	3,147,997	1,561,121	----------
	1929	11,800	740,240	1,101,158	3,112,721	5,995,007	2,882,285	4,336,685
	1927	10,961	669,097	968,181	2,877,126	5,230,323	2,353,197	3,734,761
	1925	11,137	676,742	975,812	3,029,686	5,347,522	2,317,836	3,482,618
Indiana	1933	3,373	198,940	172,055	569,878	1,040,148	470,270	----------
	1931	4,082	212,538	232,236	756,164	1,392,493	636,329	----------
	1929	5,072	314,623	418,693	1,401,543	2,537,363	1,135,820	1,858,328
	1927	4,726	280,717	375,218	1,227,169	2,153,479	926,311	1,602,113
	1925	4,772	280,854	365,003	1,257,961	2,125,023	867,062	1,420,989
Illinois	1933	10,740	420,334	403,682	1,301,391	2,502,175	1,200,784	----------
	1931	13,120	482,875	588,555	1,771,208	3,492,656	1,721,448	----------
	1929	15,278	690,511	1,023,568	3,311,708	6,232,863	2,921,155	2,802,070
	1927	14,711	623,468	914,103	2,921,092	5,386,003	2,464,911	2,456,997
	1925	14,117	622,368	897,970	2,926,064	5,321,838	2,395,774	2,247,408
Michigan	1933	4,633	350,266	346,111	1,163,158	2,104,105	940,946	----------
	1931	5,766	370,017	453,313	1,302,656	2,551,258	1,248,601	----------
	1929	6,668	529,905	840,326	2,585,227	4,651,174	2,065,947	2,356,067
	1927	5,800	488,856	760,602	2,346,678	4,244,941	1,898,263	2,214,747
	1925	5,600	515,494	792,225	2,466,426	4,373,186	1,906,760	1,887,750

No. 761.—Summary for All Manufacturing Industries Combined: By Geographic Divisions and States—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
East North Central—Continued.								
Wisconsin	1933	5,409	158,730	132,846	454,003	824,040	370,037	----------
	1931	6,319	183,823	189,010	667,565	1,196,967	529,402	----------
	1929	7,415	264,646	352,383	1,203,600	2,152,382	948,782	1,238,763
	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
West North Central:								
Minnesota	1933	3,312	69,633	64,024	328,193	529,733	201,540	----------
	1931	3,843	80,542	92,722	452,627	712,196	259,569	----------
	1929	4,295	103,215	132,194	761,387	1,164,458	403,071	605,685
	1927	3,886	98,833	123,619	726,391	1,066,727	340,336	584,328
	1925	3,888	100,614	123,767	770,724	1,101,856	331,132	508,021
Iowa	1933	2,217	52,137	45,228	241,067	381,668	140,601	----------
	1931	2,763	60,826	68,274	354,532	558,524	203,992	----------
	1929	3,304	81,534	102,164	571,141	893,946	322,806	366,012
	1927	3,061	73,692	91,247	496,940	769,341	272,401	330,702
	1925	3,270	74,976	92,233	499,586	757,771	258,185	308,016
Missouri	1933	3,813	141,176	120,467	498,162	881,184	383,022	----------
	1931	4,776	152,796	160,897	624,696	1,096,736	472,040	----------
	1929	5,720	200,411	239,156	1,115,393	1,885,470	770,077	713,705
	1927	5,422	195,378	230,017	1,004,709	1,665,173	660,464	656,269
	1925	5,114	194,959	230,691	980,459	1,607,161	626,702	590,485
North Dakota	1933	268	3,103	3,290	21,701	31,541	9,840	----------
	1931	325	3,306	4,600	28,155	40,076	11,921	----------
	1929	372	3,990	5,657	39,001	54,407	15,407	19,335
	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
South Dakota	1933	348	4,731	4,508	32,506	46,266	13,760	----------
	1931	486	5,369	6,372	50,849	69,072	18,223	----------
	1929	611	6,525	8,124	74,838	97,458	22,620	31,257
	1927	472	5,551	6,786	63,620	83,001	19,381	24,676
	1925	504	5,151	6,208	46,942	63,433	16,491	21,463
Nebraska	1933	992	19,483	18,872	138,873	194,310	55,438	----------
	1931	1,270	23,289	28,249	212,063	290,642	78,579	----------
	1929	1,483	27,933	36,648	359,378	478,330	118,952	168,542
	1927	1,277	26,110	34,296	326,917	420,296	93,379	141,506
	1925	1,306	27,200	36,021	348,397	443,309	94,912	133,708
Kansas	1933	1,272	32,608	31,143	220,248	317,098	96,850	----------
	1931	1,563	36,000	43,676	272,965	396,832	123,866	----------
	1929	1,899	47,311	63,277	545,082	750,067	204,985	298,191
	1927	1,767	45,368	59,925	518,141	681,570	163,429	279,426
	1925	1,878	46,659	59,207	538,202	706,250	168,048	276,874
South Atlantic:								
Delaware	1933	328	15,825	13,935	34,424	70,411	35,986	----------
	1931	382	17,201	18,829	46,662	91,128	44,466	----------
	1929	459	23,551	29,061	80,466	149,606	69,140	114,957
	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
Maryland	1933	2,476	100,236	82,563	278,374	518,707	240,333	----------
	1931	2,830	107,770	107,813	361,791	663,728	301,937	----------
	1929	3,210	130,896	148,598	689,249	1,108,721	419,472	658,478
	1927	3,205	126,700	141,903	564,120	943,411	379,290	579,713
	1925	3,184	125,787	138,591	568,591	926,252	357,660	544,558
District of Columbia.	1933	386	7,969	11,185	20,860	61,284	40,424	----------
	1931	485	8,612	13,988	27,621	76,929	49,307	----------
	1929	540	9,689	15,451	33,923	86,076	52,152	44,684
	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
Virginia	1933	1,864	100,673	70,444	302,640	509,196	206,556	----------
	1931	2,242	101,582	89,845	338,977	598,738	259,761	----------
	1929	3,252	119,110	117,576	353,031	730,470	377,439	642,196
	1927	2,432	114,918	110,378	346,166	671,347	325,181	503,726
	1925	2,553	112,135	105,887	314,711	589,511	274,800	441,807

No. 761.—Summary for All Manufacturing Industries Combined: By Geographic Divisions and States—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
South Atlantic—Contd.								
West Virginia	1933	887	67,950	60,400	128,092	262,467	134,375	----------
	1931	1,120	64,665	73,880	149,137	309,840	160,703	----------
	1929	1,483	85,289	115,259	260,694	512,011	251,316	650,129
	1927	1,313	77,630	103,431	252,884	455,217	202,332	546,440
	1925	1,305	80,700	105,892	260,880	470,822	209,941	495,051
North Carolina	1933	2,084	200,202	113,523	[2] 558,713	877,853	319,140	----------
	1931	2,543	178,903	118,563	[2] 642,669	1,024,178	381,509	----------
	1929	3,778	209,343	160,719	[3] 615,632	1,308,035	[3] 692,402	838,415
	1927	2,984	204,590	158,394	[3] 560,819	1,154,647	[3] 593,827	810,798
	1925	2,614	182,234	134,237	[3] 550,707	1,050,434	[3] 499,727	666,861
South Carolina	1933	888	104,336	54,761	140,822	257,344	116,522	----------
	1931	1,035	86,947	50,904	115,927	225,026	109,099	----------
	1929	1,651	108,706	73,197	226,039	385,144	159,105	527,111
	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
Georgia	1933	2,223	128,736	67,415	216,877	386,211	169,334	----------
	1931	2,812	118,466	74,616	252,283	433,627	181,344	----------
	1929	4,143	157,853	110,136	421,614	715,188	293,573	637,703
	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
Florida	1933	1,474	44,878	24,450	50,943	116,280	65,337	----------
	1931	1,651	49,918	34,309	67,786	153,795	86,009	----------
	1929	2,183	64,677	54,424	92,297	226,364	134,067	191,774
	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
East South Central:								
Kentucky	1933	1,274	56,085	44,292	174,568	297,808	123,240	----------
	1931	1,606	56,155	54,350	167,320	296,859	129,539	----------
	1929	2,227	77,720	88,537	264,275	499,747	235,472	354,258
	1927	1,851	74,912	83,859	250,633	447,765	197,132	318,755
	1925	1,864	76,580	84,946	255,108	453,937	198,828	257,065
Tennessee	1933	1,561	94,909	60,871	184,090	357,028	172,939	----------
	1931	1,922	92,306	73,829	233,205	440,387	207,182	----------
	1929	2,832	128,057	115,606	397,382	717,070	319,688	605,123
	1927	2,098	114,968	101,198	351,436	614,041	262,604	475,243
	1925	2,162	107,645	95,255	358,097	601,488	243,391	447,529
Alabama	1933	1,358	84,966	48,417	139,741	253,211	113,470	----------
	1931	1,621	84,340	61,451	170,337	320,838	150,502	----------
	1929	2,826	119,206	101,870	299,027	556,542	257,514	783,446
	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
Mississippi	1933	746	27,823	13,636	37,161	72,547	35,386	----------
	1931	904	28,875	18,892	56,844	102,751	45,907	----------
	1929	1,899	52,049	42,173	112,918	219,975	107,057	252,439
	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
West South Central:								
Arkansas	1933	819	25,955	14,039	44,263	81,105	36,842	----------
	1931	1,005	25,105	18,977	53,286	97,552	44,267	----------
	1929	1,718	44,121	39,442	115,324	209,270	93,947	222,721
	1927	1,146	40,032	35,288	103,815	182,751	78,936	183,041
	1925	1,257	43,977	37,538	110,665	195,208	84,543	177,011
Louisiana	1933	1,314	53,052	35,643	194,051	312,175	118,125	----------
	1931	1,570	56,564	47,647	249,696	378,573	128,876	----------
	1929	1,950	86,843	83,506	430,455	674,259	243,804	479,449
	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
Oklahoma	1933	1,155	22,504	20,747	125,425	191,414	65,988	----------
	1931	1,304	22,479	26,177	148,857	216,581	67,724	----------
	1929	1,640	31,549	41,152	303,483	451,911	148,428	222,355
	1927	1,373	27,932	35,785	269,418	371,718	102,300	185,480
	1925	1,282	26,333	34,211	301,147	403,295	102,148	156,826

[2] Includes internal-revenue tax paid by tobacco manufacturers amounting to $239,125,000 for 1931 and $205,689,000 for 1933.

[3] The "Cost of materials" does not include internal-revenue tax paid by tobacco manufacturers and the "Value added by manufacture" for these years is, therefore, overstated by the amount of such tax.

No. 761.—Summary for All Manufacturing Industries Combined: By Geographic Divisions and States—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture	Horsepower
				In thousands of dollars				
West South Central—Continued.								
Texas	1933	3,648	91,374	73,427	449,445	686,752	237,307	----------
	1931	4,251	93,695	98,372	563,618	832,683	269,065	----------
	1929	5,112	132,293	150,907	973,097	1,427,022	453,925	819,546
	1927	4,065	116,763	130,409	842,927	1,206,580	363,653	635,455
	1925	3,606	106,792	116,363	845,144	1,237,952	392,809	572,798
Mountain:								
Montana	1933	386	8,244	8,800	54,314	75,058	20,744	----------
	1931	471	9,582	12,668	73,669	103,578	29,909	----------
	1929	585	14,860	24,202	209,645	270,826	61,181	197,731
	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
Idaho	1933	347	7,682	7,082	27,093	45,065	17,971	----------
	1931	436	9,390	11,272	32,788	55,722	22,934	----------
	1929	559	15,644	22,446	51,751	96,198	44,448	105,762
	1927	470	13,513	18,971	47,927	86,256	38,329	89,830
	1925	490	15,794	20,709	53,152	96,990	43,838	82,552
Wyoming	1933	160	3,833	5,005	26,484	35,205	8,720	----------
	1931	205	4,808	7,879	37,256	52,744	15,488	----------
	1929	248	6,258	10,255	62,720	96,348	33,628	46,677
	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
Colorado	1933	1,067	21,287	20,060	74,332	135,868	61,537	----------
	1931	1,346	24,703	29,540	105,849	181,427	75,578	----------
	1929	1,534	32,757	43,503	180,967	302,389	121,422	233,162
	1927	1,483	32,001	43,194	173,277	278,221	104,944	254,530
	1925	1,416	31,967	43,008	171,192	278,778	107,586	219,865
New Mexico	1933	160	2,996	2,333	4,843	9,580	4,737	----------
	1931	196	2,842	3,575	6,971	13,269	6,298	----------
	1929	250	4,476	5,565	10,419	21,697	11,278	23,147
	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
Arizona	1933	223	4,181	4,153	16,087	28,574	12,487	----------
	1931	292	6,295	8,011	37,954	63,075	25,121	----------
	1929	348	10,550	15,075	167,714	200,002	32,289	180,637
	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
Utah	1933	440	10,213	9,299	49,363	80,968	31,605	----------
	1931	573	10,747	12,498	63,678	95,781	32,103	----------
	1929	646	15,586	19,683	157,622	214,266	56,644	123,665
	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
Nevada	1933	86	1,417	1,763	5,254	9,172	3,918	----------
	1931	108	1,562	2,516	7,057	10,891	3,835	----------
	1929	123	2,200	3,585	25,652	33,717	8,065	27,197
	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
Pacific:								
Washington	1933	2,307	67,752	62,117	170,613	331,225	160,612	----------
	1931	2,877	70,849	83,691	221,273	414,742	193,469	----------
	1929	3,648	114,635	160,415	424,161	789,508	365,348	814,341
	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
Oregon	1933	1,358	41,052	34,787	87,570	174,124	86,553	----------
	1931	1,699	42,180	47,411	118,881	229,097	110,216	----------
	1929	2,450	65,390	86,728	202,483	408,160	205,676	417,737
	1927	1,779	57,179	75,717	187,771	342,852	155,081	339,511
	1925	1,908	59,579	78,209	193,609	352,949	159,340	387,749
California[4]	1933	8,429	191,861	191,888	878,800	1,488,181	609,381	----------
	1931	9,936	203,491	264,222	1,053,625	1,816,960	763,335	----------
	1929	11,893	289,550	421,470	1,706,479	3,044,297	1,337,818	1,562,481
	1927	10,066	262,816	378,321	1,504,655	2,593,247	1,088,592	1,339,695
	1925	9,638	249,552	350,835	1,474,887	2,442,952	968,065	1,333,110

[4] Data for the motion-picture industry, removed from the manufactures-census classification beginning 1931, are included as follows: Establishments, 1925, 72; 1927, 78; 1929, 58; wage earners, 1925, 3,722; 1927, 6,614; 1929, 8,052; wages, 1925, $8,784,000; 1927, $15,514,000; 1929, $19,583,000; cost of materials, etc., 1925, $16,477,000; 1927, $21,620,000; 1929, $25,499,000; value of products (cost of production), 1925, $62,821,000; 1927, $101,045,000; 1929, $129,391,000; value added by manufacture, 1925, $46,344,000; 1927, $79,424,000; 1929, $103,892,000; horsepower, 1925, 21,372; 1927, 27,906; 1929, 45,059. California is the only State in which this industry contributed more than a fraction of 1 percent of the total value of products.

Source: Bureau of the Census, Department of Commerce.

No. 762.—MANUFACTURES FOR INDUSTRIAL AREAS

NOTE.—The term industrial area signifies an area having as its nucleus an important manufacturing city and comprising the county in which the city is located, together with any adjoining county or counties in which there is great concentration of manufacturing industry. The industrial areas by constituent counties are as follows: Akron area—Summit County; Albany-Schenectady-Troy area—Albany, Rensselaer, and Schenectady Counties; Allentown-Bethlehem area—Lehigh and Northampton Counties; Baltimore area—Baltimore City and Baltimore County; Boston area—Essex, Middlesex, Norfolk, and Suffolk Counties; Bridgeport-New Haven-Waterbury area—Fairfield and New Haven Counties; Buffalo area—Erie and Niagara Counties; Chicago area—Cook, Du Page, Kane, Lake, and Will Counties, Ill., and Lake County, Ind.; Cincinnati area—Butler and Hamilton Counties, Ohio, and Campbell and Kenton Counties, Ky.; Cleveland area—Cuyahoga and Lorain Counties; Dayton area—Montgomery County; Detroit area—Oakland and Wayne Counties; Hartford area—Hartford County; Indianapolis area—Marion County; Kansas City area—Clay and Jackson Counties, Mo., and Wyandotte County, Kans.; Los Angeles area—Los Angeles County; Milwaukee area—Kenosha, Milwaukee, and Racine Counties; Minneapolis-St. Paul area—Dakota, Hennepin, and Ramsey Counties; New York City area—Bronx, Kings, New York, Queens, Richmond, and Westchester Counties, N.Y., and Bergen, Essex, Hudson, Middlesex, Passaic, and Union Counties, N. J.; Philadelphia area—Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N. J.; Pittsburgh area—Allegheny, Beaver, Washington, and Westmoreland Counties; Providence-Fall River-New Bedford area—Providence County, R. I., and Bristol County, Mass.; Reading area—Berks County; Rochester area—Monroe County; St. Louis area—St. Louis City and St. Louis County, Mo.; and Madison and St. Clair Counties, Ill.; San Francisco-Oakland area—Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties; Scranton-Wilkes-Barre area—Lackawanna and Luzerne Counties; Seattle-Tacoma area—King and Pierce Counties; Springfield-Holyoke area—Hampden County; Toledo area—Lucas County; Wheeling area—Brooke, Hancock, and Ohio Counties, W. Va., and Belmont, Columbiana, and Jefferson Counties, Ohio; Worcester area—Worcester County; Youngstown area—Mahoning and Trumbull Counties, Ohio, and Lawrence and Mercer Counties, Pa.

[All figures except number of wage earners in thousands of dollars]

Area	Wage earners (average for the year)		Wages		Value of products		Value added by manufacture	
	1931	1933	1931	1933	1931	1933	1931	1933
United States	6,506,701	6,055,736	7,173,232	5,261,576	41,038,402	31,358,840	19,357,643	14,538,018
Total for areas	3,660,673	3,296,288	4,456,065	3,190,810	25,388,031	18,847,586	12,405,051	8,993,189
Akron area	42,987	43,921	55,083	46,962	325,052	236,627	190,262	135,867
Albany-Schenectady-Troy area	45,023	34,000	52,474	31,961	199,062	144,619	113,391	78,827
Allentown-Bethlehem area	44,802	42,230	45,576	29,914	209,587	140,419	102,002	71,563
Baltimore area	81,400	72,634	86,556	63,924	553,545	419,870	244,699	187,782
Boston area	227,686	203,064	263,581	190,852	1,297,639	993,233	674,154	511,487
Bridgeport-New Haven-Waterbury area	102,024	97,748	108,452	85,376	463,237	366,600	269,171	201,594
Buffalo area	78,551	69,744	99,890	71,281	678,470	510,055	301,045	228,674
Chicago area	381,588	332,862	499,134	341,564	3,062,728	2,186,230	1,471,613	1,014,555
Cincinnati area	79,937	68,257	93,425	64,608	538,783	396,242	245,475	175,489
Cleveland area	121,770	113,611	146,116	107,798	758,574	563,757	374,649	272,254
Dayton area	31,708	29,739	38,504	29,445	211,990	142,554	137,713	94,955
Detroit area	209,075	202,950	276,207	218,715	1,553,995	1,344,855	756,205	580,645
Hartford area	43,498	43,379	50,974	37,984	183,330	138,310	117,932	88,930
Indianapolis area	35,256	31,286	38,878	28,466	242,081	168,140	117,391	87,737
Kansas City (Missouri and Kansas) area	37,261	33,648	44,673	32,679	393,031	323,350	132,041	103,265
Los Angeles area	78,410	70,531	102,778	70,847	700,177	538,171	308,985	220,556
Milwaukee area	95,952	80,041	103,046	72,086	577,401	383,687	283,960	195,416
Minneapolis-St. Paul area	52,186	42,991	61,123	40,481	437,713	309,974	183,554	138,488
New York City area	713,650	620,814	978,973	665,160	6,113,584	4,284,826	3,128,505	2,168,049
Philadelphia area	293,080	261,599	339,844	248,138	1,865,832	1,397,414	934,165	689,237
Pittsburgh area	158,958	143,421	192,235	126,944	926,745	654,017	403,198	270,031
Providence-Fall River-New Bedford area	142,004	136,648	135,937	108,500	536,322	446,069	280,229	227,620
Reading area	38,724	35,745	38,285	27,848	128,564	94,142	70,330	52,296
Rochester area	47,081	37,864	54,501	36,384	268,344	176,322	173,899	114,389
St. Louis area	116,073	102,354	126,886	92,396	881,096	664,584	374,866	294,473
San Francisco-Oakland area	69,923	66,313	95,058	71,109	734,475	598,291	286,643	232,029
Scranton-Wilkes-Barre area	35,816	35,030	30,778	24,881	119,600	96,879	65,723	53,837
Seattle-Tacoma area	30,661	26,386	37,768	25,836	200,307	148,079	87,438	68,959
Springfield-Holyoke area	39,042	34,824	44,205	31,782	199,160	141,170	118,526	77,828
Toledo area	31,779	26,657	35,933	26,252	207,791	161,721	92,338	69,519
Wheeling area	34,339	38,132	44,501	36,794	199,257	169,898	86,357	67,242
Worcester area	65,100	63,523	69,157	55,800	278,892	228,961	149,707	122,282
Youngstown area	50,329	54,322	65,535	48,042	341,666	278,519	128,885	97,312

Source: Bureau of the Census, Department of Commerce.

No. 763.—INDEXES OF PRODUCTION OF MANUFACTURES AND MINERALS

NOTE.—Monthly average 1923-25=100. The manufactures index covers 49 industries and the minerals index 8, prior to 1932. Indexes for 1932 to 1935 exclude copper, and for 1934 and 1935, also paper and printing, data for which are not available for those years, and are, therefore, not strictly comparable with figures for earlier years. Indexes in this table and the monthly indexes in table 764 have been adjusted for seasonal variations and for the number of working days in the month

Month	Manufactures							Minerals						
	1929	1930	1931	1932	1933	1934	1935	1929	1930	1931	1932	1933	1934	1935
January	120	105	83	71	63	76	90	116	110	89	77	75	88	94
February	118	107	86	68	61	80	88	119	108	87	78	80	92	96
March	120	104	87	64	56	82	86	109	98	89	85	81	100	97
April	122	104	87	61	65	85	86	114	104	91	80	73	90	87
May	123	101	87	59	77	86	84	117	104	87	67	79	88	89
June	127	97	82	58	93	83	84	114	102	87	64	85	87	98
July	125	92	82	57	102	74	86	116	100	86	65	91	85	84
August	122	88	78	59	91	72	------	115	96	79	65	91	80	------
September	121	89	75	65	83	69	------	118	94	78	71	87	82	------
October	118	86	71	66	76	72	------	116	95	83	74	81	81	------
November	110	85	71	63	70	74	------	110	92	81	75	82	81	------
December	101	82	72	64	73	85	------	116	93	84	77	86	90	------

No. 764.—MANUFACTURING PRODUCTION: INDEXES FOR SELECTED GROUPS OF INDUSTRIES

NOTE.—Monthly average 1923-25=100. See headnote, table 763. In computing the indexes, the individual products and industries have been weighted in accordance with their relative importance

Year and month	Total [1]	Iron and steel	Textiles	Food products	Paper and printing	Lumber cut	Automobiles	Leather products	Cement	Plate glass	Petroleum refining	Rubber tires and tubes	Tobacco products
1921	67	46	87	83	70	72	41	90	66	(2)	64	55	85
1922	86	82	99	94	85	87	66	102	76	(2)	74	77	89
1923	101	105	105	99	94	101	102	108	92	90	86	86	96
1924	94	89	91	103	99	98	91	95	100	92	99	98	99
1925	105	106	104	98	107	101	107	97	108	118	115	116	105
1926	108	113	104	97	114	98	108	99	110	130	127	116	112
1927	106	104	113	96	112	92	86	103	115	112	136	120	118
1928	112	119	107	98	119	91	110	102	118	132	152	144	124
1929	119	130	115	97	125	91	135	104	114	152	168	135	134
1930	95	94	91	93	113	64	85	92	108	107	161	100	131
1931	80	60	94	90	106	41	60	90	84	88	155	96	123
1932	63	31	83	87	91	25	35	85	51	53	140	78	111
1933	76	53	97	92	95	32	48	97	42	91	145	88	116
1934	78	60	85	99	(2)	(2)	69	100	52	94	151	92	128
1933													
January	63	29	87	88	84	26	48	87	38	88	132	59	113
February	61	31	83	84	84	20	32	92	41	60	131	54	115
March	56	22	76	84	82	22	27	84	40	52	135	41	99
April	65	35	85	101	85	24	43	93	35	53	140	65	116
May	77	48	108	99	92	30	50	110	42	84	146	94	143
June	93	71	133	100	101	38	65	114	51	112	153	115	135
July	102	99	130	100	111	46	69	117	56	144	155	143	117
August	91	80	114	95	106	46	60	102	50	130	153	111	123
September	83	65	99	105	104	36	55	92	37	107	158	103	115
October	76	60	91	85	99	33	45	93	35	70	152	90	108
November	70	47	89	91	95	30	30	92	39	52	146	97	95
December	73	60	78	86	97	32	45	94	36	106	137	108	123
1934													
January	76	56	87	96	(2)	34	56	98	49	99	142	97	138
February	80	64	91	91	(2)	29	71	108	61	98	144	100	132
March	82	67	94	84	(2)	38	80	107	58	106	143	106	119
April	85	77	90	93	(2)	33	85	117	55	98	152	97	128
May	86	85	88	98	(2)	33	78	118	57	83	153	81	128
June	83	86	77	96	(2)	31	81	101	58	77	154	84	132
July	74	48	78	102	(2)	29	78	99	53	92	156	83	128
August	72	39	80	106	(2)	36	61	97	48	86	157	79	126
September	69	38	63	120	(2)	32	51	88	50	84	152	79	125
October	72	41	89	107	(2)	29	41	85	46	87	153	82	120
November	73	49	87	102	(2)	26	40	92	48	83	155	107	125
December	85	65	97	102	(2)	29	88	104	45	140	154	133	143
1935													
January	90	80	103	91	(2)	33	104	107	42	174	151	115	136
February	88	80	100	81	(2)	30	103	108	45	166	155	101	133
March	86	72	98	77	(2)	(2)	106	108	47	183	153	93	130
April	86	67	98	80	(2)	(2)	110	113	51	185	153	88	138
May	84	66	102	78	(2)	(2)	86	113	55	155	160	75	134
June	84	66	100	74	(2)	(2)	100	103	58	162	166	79	138

[1] See headnote, table 763, regarding industries included. [2] Comparable data not available.

Source of tables 763 and 764: Federal Reserve Board.

No. 765.—TEXTILE MANUFACTURES: PRODUCTION

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

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1929	1931	1933	1929	1931	1933
COTTON GOODS AND SMALL WARES							
Total value					1,579,792	842,306	895,080
Sheetings	Sq. yard	1,693,167	1,359,686	1,680,323	146,181	76,906	98,875
Print cloth	do	1,703,025	1,586,339	1,709,960	121,423	74,505	79,996
Voiles	do	157,449	124,364	77,901	13,407	8,201	4,969
Lawns, nainsooks, cambrics, and similar muslins	do	226,554	181,897	295,441	25,419	15,080	19,058
Reps, poplins, and broadcloths	do	308,620	357,465	456,328	40,555	31,815	35,942
Pajama checks, dimities, and similar fabrics	do	122,109	37,803	55,389	13,085	2,362	3,809
Tobacco, cheese, butter, bunting and bandage cloths	do	617,411	587,147	634,499	18,100	9,776	11,000
Ginghams	do	147,120	56,313	69,569	17,717	4,611	6,263
Shirtings	do	317,046	273,178	278,349	45,771	24,350	25,236
Drills	do	324,041	184,646	191,987	39,701	15,132	15,262
Twills and sateens	do	284,117	201,434	274,153	37,441	16,774	23,158
Denims	do	249,891	202,111	268,788	49,256	25,277	33,970
Tickings	do	42,411	32,416	47,285	9,280	3,908	6,358
Osnaburgs	do	145,745	109,081	130,887	18,210	8,059	9,209
Napped fabrics	do	323,140	288,073	377,791	48,329	27,017	34,072
Cottonades and cotton worsteds	do	34,838	44,968	57,892	8,357	8,843	9,296
Tire duck	do	22,277	15,915	12,273	6,846	3,279	2,498
Ducks (except tire)	do	223,926	136,577	152,249	64,184	24,756	28,261
Tire fabrics (except tire duck)	Pound	233,129	123,561	107,327	104,875	37,971	29,256
Tapestries	Sq. yard	9,810	9,188	9,978	12,995	7,242	4,791
Plushes, velvets, velveteens	do	52,868	23,794	18,196	40,946	15,898	10,200
Corduroys	do	27,134	15,702	24,625	9,501	3,982	5,464
Towels, toweling, and washcloths	do	169,694	158,378	149,933	33,037	24,108	22,487
Cotton table damask	do	35,868	20,524	15,818	8,383	3,651	2,837
Blankets	do	94,061	71,989	103,165	25,392	12,721	16,069
Bedspreads and quilts	do	52,902	55,927	50,472	16,396	8,643	6,360
Bags made from fabric woven by establishment	do	10,486	3,400	(1)	2,032	712	(1)
Small wares					65,494	40,303	38,109
Yarns for sale	Pound	647,725	414,463	498,496	253,349	111,873	130,954
Thread	do	25,250	19,576	27,755	37,100	29,153	30,372
Batting, wadding, and mattress felts	do	149,481	114,324	93,868	19,407	12,241	8,866
Cotton waste for sale	do	443,916	315,808	361,031	32,570	10,641	12,770
Other cotton products					195,052	142,517	129,314
LACE GOODS							
Total value					27,931	17,088	(2)
Nottingham lace curtains	Pair	6,113	4,518	(2)	11,250	6,868	(2)
Nottingham lace curtain nets	Lin. yard	14,313	6,282	(2)	4,675	1,831	(2)
Levers laces					8,756	7,305	(2)
Other lace products					3,250	1,083	(2)
KNIT GOODS							
Total value					881,176	573,630	487,402
Hosiery, except infants'[3]	Doz. pair	111,191	96,204	96,596	500,382	313,922	251,147
Infants' hose	do	6,175	5,529	6,143	11,244	7,689	6,976
Shirts and drawers	Dozen	8,802	7,959	10,414	37,670	25,258	25,780
Union suits	do	8,891	6,888	8,168	70,837	40,452	39,335
Bathing suits	do	1,021	963	833	22,084	12,859	11,349
Sweaters, sweater coats, jerseys, etc	do	4,807	4,032	4,999	89,429	56,077	47,962
Headwear, except infants'	do	783	1,078	1,147	3,783	3,279	3,477
Neckties	do	628	131	56	1,717	327	219
Dresses and suits	Number	1,023	2,906	2,908	11,160	20,689	15,406
Jersey cloth and tricollette	Sq. yard	75,521	108,340	31,204	45,375	31,523	23,370
Glove and shoe linings					4,655	1,053	1,323
Other knit products					82,840	60,500	61,060

For footnotes, see p. 751.

No. 765.—Textile Manufactures: Production—Continued

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1929	1931	1933	1929	1931	1933
SILK AND RAYON GOODS							
Total value					737,759	422,457	288,069
Broad goods	Sq. yard	597,114	566,864	558,881	488,208	281,617	184,563
All silk	do	424,607	386,294	201,438	385,773	209,838	77,112
All rayon	do	66,024	109,390	272,822	34,738	38,401	78,799
Rayon and cotton mixed [4]	do	37,241	41,077	46,955	16,616	12,219	11,574
Other	do	69,242	30,103	37,666	51,080	21,159	17,078
Velvets	do	9,651	7,346	7,857	25,112	12,233	8,684
Plushes	do	1,957	1,879	1,061	3,830	2,091	764
Upholstery and tapestry	do	3,403	3,834	2,806	6,122	2,586	1,064
Organzine, tram, and crepe twist for sale.	Pound	12,121	9,753	7,544	69,740	32,177	16,998
Spun silk for sale	do	3,769	1,914	1,080	12,916	5,269	2,505
Machine twist	do	515	300	271	4,822	1,551	1,350
Sewing, embroidery, and other floss silks.	do	335	298	193	2,864	2,141	1,449
Ribbons					25,008	15,388	10,847
Fringes and gimps					7,839	4,075	1,207
Braids					4,388	1,909	408
Other silk and rayon products					147,135	117,152	149,740
WOOLEN AND WORSTED GOODS							
Total value					802,876	479,632	444,822
Suitings, dress goods, overcoatings, and cloakings. [5]	Sq. yard	354,295	295,005	331,408	432,258	268,659	247,214
All-wool woolen	do	135,354	116,352	145,612	155,938	94,858	96,829
All-wool worsted	do	166,211	146,742	139,352	238,669	155,044	124,686
Woolen or worsted made with cotton or manipulated warps.	do	52,730	31,911	51,706	37,651	18,757	25,699
Domett flannels and shirtings	do	14,899	7,061	(2)	5,778	1,960	(2)
Blankets, all-wool	do	18,095	15,568	13,043	15,831	10,542	9,440
Yarns for sale	Pound	159,473	141,763	135,440	199,758	129,144	111,977
Noils and wool waste for sale	do	46,368	35,594	41,517	15,597	7,242	9,468
Other woolen and worsted goods.					133,654	62,085	66,721
FELT GOODS							
Total value					42,294	26,580	25,598
Felt cloths	Pound	7,075	5,022	5,544	17,113	11,657	11,961
Trimming and lining felts	do	6,147	4,483	4,039	3,889	2,497	1,969
Shoe and slipper felts	do	5,148	3,923	(6)	2,982	931	(6)
Boot and shoe linings	do	1,607	1,121	(6)	1,183	901	(6)
All other felts	do	65,106	50,215	69,671	17,127	10,594	11,668
HATS, WOOL-FELT							
Total value					8,031	4,888	(2)
Hats	Dozen	400	177	(2)	4,410	1,905	(2)
Hat bodies and hats in the rough.	do	501	745	(2)	3,621	2,983	(2)
CARPETS AND RUGS, WOOL							
Total value					174,286	86,942	70,104
Carpets	Sq. yard	27,385	13,395	14,053	61,788	25,732	21,815
Rugs, made of sewed strips	do	3,720	1,338	2,143	14,410	4,007	4,385
Rugs, woven whole	do	42,306	29,448	27,797	98,089	57,203	43,904
WOOL SHODDY							
Total value					13,354	5,197	8,203
Recovered wool fiber	Pound	60,108	34,514	45,049	13,354	5,197	8,203
HATS, FUR-FELT							
Total value					95,278	55,586	(2)
Hats	Dozen	1,770	1,306	(2)	70,809	39,399	(2)
Hat bodies and hats in the rough.	do	1,534	1,474	(2)	24,469	15,688	(2)

For footnotes, see p. 751.

No. 765.—Textile Manufactures: Production—Continued

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1929	1931	1933	1929	1931	1933
CORDAGE AND TWINE AND JUTE AND LINEN GOODS							
Total value					135,989	67,121	61,373
Rope, cable, and cordage:							
Manila hemp	Pound	114,476	62,550	63,264	22,171	9,425	7,655
Sisal	do	27,381	22,380	13,669	3,972	2,269	1,240
Henequin	do	16,120	7,616	6,500	2,447	798	555
Cotton	do	28,096	20,951	27,147	8,299	4,152	5,598
Other	do	18,031	3,201	1,064	2,670	450	189
Twine, binder [1]	do	178,605	134,256	142,614	18,395	11,458	6,991
Twine, cotton	do	85,988	47,083	59,076	28,991	9,948	12,038
Twine, other	do	114,674	89,358	90,083	18,316	10,949	9,167
Yarns for sale	do	97,935	59,448	65,080	15,467	7,402	7,358
Linen thread	do	3,103	2,114	2,574	4,510	2,388	2,375
Linen woven goods	Sq. yard	9,430	10,100	10,686	3,365	2,885	2,359
Jute bagging	do	27,863	31,463	64,893	3,129	1,996	3,374
Other products					4,257	3,003	2,474
FLOOR COVERING AND OILCLOTH							
Total value					109,327	54,543	[2]
Oilcloth (cotton back)	Sq. yard	125,677	92,703	[2]	23,640	13,506	[2]
Linoleum (jute back)	do	48,272	20,372	[2]	48,744	19,408	[2]
Floor covering (felt back)	do	117,970	87,576	[2]	36,943	21,629	[2]
ARTIFICIAL LEATHER							
Total value					31,346	15,025	[2]
Pyroxylin coated	Sq. yard	65,029	36,993	[2]	30,441	13,344	[2]
Other than pyroxylin coated	do	862	1,968	[2]	891	1,153	[2]
Kind not specified					14	528	[2]

[1] Included with "Other cotton products". [2] Data are not available.
[3] Excludes athletic and golf hose which are included with "Other knit products."
[4] Not including production in cotton mills.
[5] Data for other suitings such as mohair, mohair and cotton mixed, woolen-worsted, etc., are included in the figures for "Other woolen and worsted goods."
[6] Included with "All other felts" to avoid disclosing data for individual establishments.
[7] Not including binder twine made in penal institutions as follows: For 1929, 47,322,550 pounds; 1931, 52,161,200 pounds; 1933, 57,135,737 pounds.

Source: Bureau of the Census, Department of Commerce.

No. 766.—BOOTS AND SHOES (OTHER THAN RUBBER): 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 760, p. 731. Data for 1923 to 1934 compiled from monthly reports of manufacturers representing approximately 95 per cent of the total production in the United States for 1922 to 1928, and 98 percent for 1929 to 1934

Year	Total	Men's [1]	Boys' and youths'	Women's	Misses' and children's	Infants'	Athletic and sporting (leather) [1]	Canvas and other textile	Not specified (including slippers)
1914	292,666	98,031	22,896	80,916	48,322	15,477	[2]	[2]	27,024
1919	331,225	95,017	26,504	104,813	48,538	16,669	586	11,056	28,042
1923	351,114	100,283	22,239	109,676	40,136	27,015	6,434	8,347	36,984
1925	323,553	86,546	21,021	104,782	38,691	24,587	5,914	8,564	33,448
1927	343,606	95,328	24,229	116,259	39,650	24,542	1,488	3,301	33,808
1928	344,351	90,970	23,032	123,753	37,135	23,835	1,547	3,760	40,319
1929	361,402	94,770	22,993	131,303	39,927	23,750	1,768	3,121	43,770
1930	304,170	77,147	18,530	112,629	32,037	18,558	1,728	2,593	40,948
1931	316,240	77,420	20,047	112,603	34,308	18,546	1,708	4,750	46,858
1932	313,290	74,493	18,100	113,944	33,600	15,653	1,111	6,132	50,256
1933	350,382	88,821	19,944	130,742	33,180	18,578	1,316	4,637	53,163
1934	357,119	91,387	17,348	133,045	34,521	19,451	1,333	5,304	54,731

[1] Figures beginning 1927 are not strictly comparable with earlier years owing to the fact that considerable quantities of heavy footwear now included with men's shoes were included with "Athletic and sporting shoes (leather)", prior to 1927.
[2] Not reported separately; included with "not specified, etc."

Source: Bureau of the Census, Department of Commerce.

No. 767.—LEATHER: Production by Principal Types of Raw Stock

[Cattle hide in thousands of hides, other figures in thousands of skins]

Year	Cattle hide	Calf and kip	Goat and kid	Sheep and lamb	Year	Cattle hide	Calf and kip	Goat and kid	Sheep and lamb
1925	22, 297	13, 877	42, 485	33, 087	1930	17, 675	14, 171	55, 445	30, 393
1926	21, 500	15, 744	49, 777	31, 668	1931	16, 234	12, 438	48, 637	32, 443
1927	21, 820	16, 984	50, 736	35, 859	1932	14, 583	11, 580	37, 014	28, 841
1928	20, 237	15, 617	54, 852	38, 706	1933	17, 115	13, 049	44, 312	33, 881
1929	19, 146	15, 364	55, 686	38, 985	1934	19, 771	12, 442	44, 982	34, 255

No. 768.—LEATHER: Production by Principal Kinds

Product and unit of quantity	Quantity				Value (thousands of dollars)	
	1929	1931 As published; comparable with 1929	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]
Total value					246, 269	216, 114
Sole and belting leather					74, 579	60, 551
Oak and union sole, 1,000 backs, bends, sides	13, 750	11, 746	11, 570	11, 289	54, 293	38, 484
Chrome and combination sole, do	596	447	414	559	1, 996	1, 988
Belting butts, rough and curried, 1,000 butts and butt bends	1, 375	636	621	674	5, 542	5, 165
Offal (heads, bellies, shoulders, etc.), 1,000 pounds	94, 643	86, 161	85, 025	79, 212	12, 748	14, 914
Harness leather					1, 846	1, 951
Union black, 1,000 sides	284	96	58	119	364	504
Oak black and russet, do	461	279	256	289	1, 482	1, 446
Bag, case, and strap leather, do	1, 055	787	725	537	3, 397	2, 504
Skirting and lace leather, do	206	158	68	94	351	385
Collar leather, do	363	180	147	207	499	786
Welting leather, 1,000 pounds	[2]	2, 077	1, 667	1, 819	626	672
Upholstering leather [3] (automobile, furniture, and carriage):						
Whole-hide grains and machine-buffed, 1,000 hides	623	318	284	134	2, 549	1, 101
Splits (main and second), 1,000 pieces	724	410	362	279	1, 590	698
Upper leather (other than patent)					107, 168	102, 485
Cattle (including kip side), 1,000 sides	12, 304	12, 514	12, 483	15, 879	32, 428	39, 791
Kip (except kip side), 1,000 skins	1, 317	268	268	178	1, 103	474
Calf, do	12, 933	10, 276	10, 195	12, 102	25, 791	23, 935
Goat and kid, do	50, 149	34, 978	34, 978	38, 114	37, 285	30, 875
Sheep and lamb (shoe stock) and cabretta, 1,000 skins	14, 324	9, 991	9, 860	8, 719	7, 564	4, 856
Horse, colt, ass, and mule:						
Half and whole fronts, 1,000 equivalent half fronts	116	90	84	35	240	64
Butts, *1,000 equivalent butts*				271	625	300
Shanks, 1,000 shanks				160		81
Other					2, 131	2, 109
Patent leather (other than upholstery)					11, 289	7, 400
Cattle (including kip side), 1,000 sides	5, 375	3, 606	3, 555	2, 811	10, 659	7, 261
Other					630	139
Glove and garment leather					15, 303	17, 609
Cattle grains (including foreign-tanned kip), 1,000 sides	[2]	96	96	365	270	996
Horse, colt, ass, and mule:						
Half and whole fronts, 1,000 equivalent half fronts	1, 856	1, 509	1, 503	1, 269	3, 253	2, 206
Butts and shanks					421	404
Sheep and lamb (exc. shearlings), 1,000 skins	5, 618	9, 039	8, 214	12, 190	6, 407	7, 586
Shearlings, do	3, 027	2, 000	1, 371	1, 562	1, 322	1, 414
Other					3, 628	5, 004
Fancy and bookbinders' leather					9, 935	5, 170
Sheep and lamb and cabretta, 1,000 skins	3, 972	2, 814	2, 807	2, 114	2, 987	2, 043
Calf and kip, do	496	249	249	308	743	860
Other					6, 205	2, 267
Side splits (other than upholstery) finished, 1,000 side splits	21, 210	14, 772	14, 499	17, 795	9, 762	9, 965
Other leather					7, 376	4, 835

[1] For reason of adjustment see the last paragraph, general note, p. 715. [2] No data.
[3] Excluding russet buffings included with "Other leather" at end of table to avoid disclosures.

Sources: Table 767, Tanners' Council of America; table 768, Bureau of the Census, Dept. of Commerce.

No. 769.—CHEMICALS: PRODUCTS MADE FOR SALE

NOTE.—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 establishments. 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, except as noted

Product	Unit	Quantity (thousands of unit specified)				Value (thousands of dollars)	
		1929	1931 As published; comparable with 1929	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]
Total value						536,152	474,706
Acids:							
Acetic (basis 100 percent)	Pound	66,364	62,586	62,586	65,150	3,537	4,303
Boric (boracic)	do	26,055	18,128	18,128	21,613	970	845
Carbonic (carbon dioxide CO_2)	do	136,930	[2] 153,575	[2] 153,575	[2] 117,382	6,226	4,466
Citric	do	10,756	8,381	8,381	5,696	3,060	1,795
Hydrochloric (muriatic) (basis 100 percent)	Ton	63	41	41	45	2,422	2,387
Mixed (sulphuric-nitric)	do	64	38	38	42	1,800	1,883
Nitric	do	33	31	31	33	3,382	2,969
Oleic	Pound	56,948	29,947	25,707	27,890	1,603	1,394
Phosphoric	do	34,674	[3] 19,096	[3] 19,096	[3] 24,553	761	892
Stearic	do	39,154	24,868	23,432	23,874	1,918	1,878
Sulphuric (basis 50° Baumé)	Ton	5,816	4,230	[4] 4,020	[4] 3,848	[4] 32,138	[4] 26,482
Tannic	Pound	1,449	667	667	682	251	236
Tartaric	do	4,906	5,181	5,181	6,799	1,463	1,493
Other						5,565	4,464
Aluminum compounds and alums:							
Aluminum sulphate	Ton	345	309	309	322	6,672	6,600
Aluminous abrasives	do	33	7	7	8	1,152	1,525
Other						2,797	3,376
Coal-tar products:							
Crudes [5]						20,492	16,985
Intermediates						18,618	21,443
Finished products						61,422	68,845
Nitrogen and fixed-nitrogen compounds:							
Ammonia, aqua and liquor	Pound	[6] 30,200	[6] 18,831	[6] 18,831	[6] 18,895	1,032	923
Ammonia, anhydrous	do	173,349	127,099	127,099	160,269	8,044	7,525
Other ammonium compounds						3,384	3,571
Nitrous oxide (laughing gas)	Gallon	109,812	94,607	94,607	82,220	923	811
Other						19,881	17,926
From coke-oven operations, not included in total value (Bureau of Mines)—							
Ammonium sulphate	Pound	1,350,154	905,245	905,245	589,763	11,469	5,357
Ammonia liquor (NH_3) content	do	51,762	33,982	33,982	36,210	1,390	1,088
From the manufactured-gas industry not included in total value:							
Ammonia (NH_3) equivalent	do	36,216	37,853	37,853	39,016	1,721	852
Plastics:							
Pyroxylin in form for further manufacture	do	16,991	12,008	12,008	10,096	11,114	7,799
Finished articles of pyroxylin [7]						6,545	[8] 4,304
Phenolic resins	Pound	(9)	33,818	33,651	41,557	7,282	7,509
Other						2,405	6,770
Potassium compounds: [10]							
Bitartrate (cream of tartar)	Pound	7,853	6,881	6,881	5,789	1,572	891
Iodide	do	444	380	380	479	1,291	1,108
Other						5,250	5,434
Sodium compounds:							
Bichromate and chromate	Ton	39	25	25	29	3,162	3,281
Borate (borax)	do	92	80	80	94	2,432	3,163
Carbonates:							
Bicarbonate, refined	do	140	128	128	129	3,696	3,586
Soda ash	do	1,814	1,509	1,509	1,654	22,493	24,183
Caustic (hydroxide)	do	725	634	634	645	26,565	24,478
Hypochlorite	do	27	32	27	32	2,278	2,073
Phosphates	do	146	146	145	120	8,070	5,620
Silicate (basis 40°)	do	590	644	638	630	7,406	6,583

For footnotes see p. 754.

No. 769.—Chemicals: Products Made for Sale—Continued

Product	Unit	Quantity (thousands of unit specified)				Value (thousands of dollars)	
		1929	1931 As published; comparable with 1929	1931 Comparable with 1933	1933 Reported on standard schedule	1931 Comparable with 1933	1933 Reported on standard schedule
Sodium compounds—Continued.							
Sulphates:							
Glauber's salt	Ton	62	49	46	40	774	586
Hyposulphite (thiosulphate)	do	25	24	23	18	931	763
Niter cake	do	83	31	31	17	564	353
Salt cake	do	170	99	99	115	1,528	1,471
Sulphide	do	33	23	23	31	1,033	1,354
Other						23,092	17,612
Miscellaneous:							
Alcohols:							
Methanol, synthetic	Gallon	(9)	7,007	7,007	8,793	1,462	1,680
Other alcohol [11]						4,887	3,789
Arsenic:							
Arsenate of calcium	Pound	33,064	26,129	21,983	15,487	1,095	669
Arsenate of lead	do	30,682	37,974	37,974	29,816	3,674	2,368
Other salts and compounds						1,162	728
Barium salts and compounds						1,368	888
Bismuth salts and compounds						882	838
Butyl-acetate	Gallon	4,524	4,664	4,644	5,197	3,333	2,184
Calcium:							
Acetate	Ton	58	26	26	26	870	1,166
Carbide	do	(9)	128	128	101	8,024	6,059
Chloride (basis 73 to 79 percent)	do	277	232	232	158	4,725	2,716
Hypochlorite	do	93	64	64	30	2,074	1,302
Phosphate	do	38	41	41	42	5,591	5,332
Other salts and compounds						2,174	2,050
Carbon bisulphide	Pound	71,009	83,045	83,045	90,179	3,200	3,283
Carbon tetrachloride	do	32,713	34,096	34,096	30,344	1,720	1,354
Copper sulphate (blue vitriol)	do	78,669	60,981	60,817	56,070	2,177	1,408
Ether	do	6,464	6,982	6,982	7,421	1,472	1,385
Ethyl acetate	Gallon	10,932	5,457	4,500	7,607	2,063	2,132
Glycerine, refined	Pound	113,140	102,510	101,615	107,853	10,223	7,915
Hydrogen peroxide (basis 100 volumes).	do	8,509	12,854	8,784	12,119	2,961	2,388
Iron sulphate (copperas)	Ton	56	31	31	28	268	253
Ferro-alloys, electric-furnace	do.[12]	220	130	130	121	13,200	11,868
Magnesium sulphate (Epsom salt)	do	37	34	34	37	1,524	1,234
Nitrocellulose, for sale as such	Pound	(9)	(9)	23,408	25,415	5,155	5,003
Silver nitrate	Ounce	5,647	5,597	4,833	4,146	1,024	1,072
Sulphur, refined	Ton	78	67	67	49	2,069	1,736
Tin (chloride, stannic and stannous, and oxide).	Pound	(9)	38,395	38,388	21,933	6,698	4,444
Vanillin	do	317	172	128	196	590	777
Vitreous enamels ("frit")	do	(9)	42,823	42,424	39,853	3,409	2,587
All other chemicals						115,106	81,639
Intergroup duplication						[13] 27,023	[13] 21,478

[1] For reason of adjustment see last paragraph, general note, p. 715. No adjustment was necessary for the Bureau of Mines data.

[2] Includes for 1931 approximately 80,000,000 pounds of carbon dioxide piped to plants making dry ice; for 1933, approximately 64,500,000.

[3] Basis 50 percent.

[4] Production in "Chemicals not elsewhere classified", "Fertilizers", "Explosives", and "Smelting and refining, zinc" industries only. Data for production from "Smelting and refining, copper and lead" industry in 1933 are not available; figures in the columns "1931 comparable with 1933" have been adjusted accordingly.

[5] Not including byproduct crudes made in coke plants and gas works.

[6] Ammonia (NH_3) content.

[7] Articles made in the producing establishments in the "Chemicals not elsewhere classified" industry.

[8] In addition fabricated articles valued at $716,591 were made by pyroxylin-producing establishments in other industries.

[9] No comparable data.

[10] Production of crude potassium salt from original sources in 1933, as reported by 4 plants to the Bureau of Mines, Department of the Interior, amounted to 333,110 tons; content of K_2O 63,880 tons.

[11] Not including ethyl, glycerol (see Glycerine), nor methanol produced by the distillation of wood.

[12] Tons of 2,240 pounds.

[13] 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 with "Other nitrogen compounds", likewise phenolic resins are included with "Coal-tar products" and also shown under "Plastics."

Source: Bureau of the Census, Department of Commerce.

No. 770.—MISCELLANEOUS PRODUCTS INVOLVING CHEMICAL PROCESSES

NOTE.—Semifinished products made for consumption in the same establishment are not included, 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. Tons are of 2,000 pounds.

Product	Unit	Quantity (thousands of unit specified)				Value (thousands of dollars)	
		1929	1931 As published; comparable with 1929	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]
BONE BLACK, CARBON BLACK, ETC.							
Total value						10,230	8,488
Bone black	Pound	54,277	33,214	33,214	23,123	1,288	829
Carbon black (Bureau of Mines)	do	283,806	280,907	280,907	269,325	8,621	7,449
Lampblack	do	10,765	3,424	3,424	3,012	321	210
COMPRESSED AND LIQUEFIED GASES							
Total value						62,484	49,781
Acetylene	Cu. ft.	969,534	742,898	742,898	754,089	12,912	11,039
Carbon dioxide (not solid)	Pound	136,930	[2] 153,575	[2] 153,575	[2] 117,382	6,226	4,466
Chlorine, for sale	do	289,855	255,511	255,511	249,126	5,248	4,486
Hydrogen	Cu. ft.	207,843	493,518	493,518	589,290	957	915
Oxygen	do	3,140,095	2,050,377	2,050,377	1,821,880	16,411	12,997
Nitrous oxide (laughing gas)	Gallon	109,812	94,607	94,607	82,220	923	811
Dry ice (solid carbon dioxide)	Pound	[3]	84,954	84,954	59,058	2,900	1,970
Other gases						16,908	13,097
FERTILIZERS							
Total value						137,159	82,811
Complete fertilizers	Ton	5,992	4,545	4,461	3,274	107,982	61,180
Superphosphates, including concentrated phosphates, for sale [4]	do	2,531	1,968	1,964	1,546	20,639	12,882
Other fertilizers	do	797	455	389	377	8,539	8,749
PAINT AND VARNISH							
Total value						350,726	287,329
Pigments, colors, for sale	Pound	1,918,459	1,296,006	1,279,519	1,210,528	68,992	62,177
Paints in paste form	do	401,546	242,528	236,076	184,424	25,402	16,946
Ready mixed paints	Gallon	106,165	78,249	74,612	63,825	115,783	90,289
Water paints and kalsomine, dry or in paste	Pound	155,811	122,823	117,390	100,443	5,015	3,947
Plastic paints	do	[3]	14,561	14,135	10,258	1,356	615
Varnishes, japans, lacquers, enamels, and allied products						121,584	106,439
Quantity reported	Gallon	109,003	75,508	72,822	71,101	107,205	96,546
Quantity not reported						14,378	9,893
Fillers (liquid, paste, and dry)						1,123	862
Putty	Pound	99,163	69,907	56,323	47,369	2,434	1,738
Bleached shellac	do	11,140	10,731	10,731	11,156	2,619	1,878
Stains, varnish	Gallon	2,160	1,726	1,658	1,948	2,461	2,439
Stains, other	do					3,957	
SOAP							
Total value						224,575	173,311
Hard soaps, total	Pound	2,587,955	2,572,895	2,464,249	2,362,690	189,473	146,001
Toilet soap	do	324,384	305,638	298,984	315,373	52,164	44,087
Foots soap	do	21,829	20,015	4,103	3,017	227	172
Soap chips and flakes	do	387,925	351,077	327,198	399,256	28,710	24,925
Laundry soap (in bar form)	do	1,465,183	1,431,104	1,404,274	1,257,689	66,939	44,495
Granulated and powdered soap	do	337,291	421,804	404,453	369,915	39,522	31,428
Other hard soaps	do	51,343	43,257	25,237	17,441	1,911	894
Soap powder or washing powder	do	505,529	262,711	237,387	200,175	10,875	6,427
Cleansers and scouring powders containing soap [5]	do		164,067	158,344	165,774	6,022	5,878
Paste soap	do	40,526	31,623	10,952	6,489	545	315
Shaving soap, cream, and powder						11,128	9,293
Quantity reported	Pound	11,094	10,453	9,715	10,305	6,600	5,363
Quantity not reported						4,528	3,929
Soap stock or soap base, for sale	Pound	4,106	8,978	7,585	24,267	451	685
Other and not reported by kind	do	157,362	118,259	82,077	60,834	6,081	4,712

[1] For reason of adjustment, see last paragraph of general note, p. 715. No adjustment was necessary for the "Bone black, carbon black, and lampblack", and "Compressed and liquefied gases" industries.
[2] Includes approximately 80,000,000 pounds piped to plants making dry ice in 1931 and 64,500,000 pounds in 1933.
[3] Data withheld to avoid disclosing approximations of production by individual establishments.
[4] Basis 16 percent available phosphoric acid.
[5] Production in the soap industry only.

No. 770.—Miscellaneous Products Involving Chemical Processes—Continued

Product	Value (thousands of dollars)			
	1929	1931 As published; comparable with 1929	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]
DRUGGISTS' PREPARATIONS				
Total value	181,930	159,720	152,906	128,755
Alkaloids and derivatives	8,030	7,677	7,636	7,591
Biological products	23,872	25,830	24,474	19,597
For human use:				
Antitoxins	2,917	2,430	2,430	1,653
Bacterins	809	1,026	1,004	811
Serums	673	1,103	1,103	915
Vaccines	1,092	1,146	1,142	1,119
Viruses	341	193	193	390
For animal use:				
Antitoxins	635	255	248	243
Bacterins	777	543	408	370
Serums	6,803	5,436	4,582	2,996
Vaccines	562	516	482	279
Viruses	909	886	754	495
Organo-therapeutics (for human and animal use)	7,021	11,009	10,950	10,327
Undistributed (not reported by kind)	1,334	1,287	1,177	
Medicinal (pharmaceutical) chemicals and their salts	12,378	15,165	14,605	8,273
Pharmaceutical and galenical preparations	137,650	111,048	106,191	93,294
Tinctures, fluid extracts, elixirs, sirups, etc.	(6)	(6)	(6)	14,729
Ointments, cerates, suppositories, etc.	(6)	(6)	(6)	5,063
Pills, tablets, filled capsules, lozenges, etc.	(6)	(6)	(6)	24,795
Pharmaceutical specialties (dispensed on physicians' prescriptions or through physicians)	(6)	(6)	(6)	32,759
Other	(6)	(6)	(6)	15,948
PATENT OR PROPRIETARY MEDICINES AND COMPOUNDS				
Total value	256,812	201,469	192,504	143,129
Patent and proprietary packaged medicines [7]	[8] 176,698	[8] 145,825	[8] 140,605	108,871
Antiseptics, oral and other	(8)	(8)	(8)	13,277
Cough sirups and cold tablets	(6)	(6)	(6)	9,031
Headache remedies	(6)	(6)	(6)	6,935
Inhalants, liniments, chest rubs, etc., for colds	(6)	(6)	(6)	14,759
Laxatives	(6)	(6)	(6)	20,461
Other	(6)	(6)	(6)	44,408
Patent or proprietary compounds	(8)	(8)	(8)	34,258
Antiseptics	(8)	(8)	(8)	1,198
Deodorants, other than for human use	(9)	1,501	1,343	894
Disinfectants	7,332	5,412	5,033	3,333
Germicides	2,483	1,469	1,412	921
Household insecticides	15,077	14,773	13,811	7,461
Agricultural insecticides and fungicides: [10]				
Lime-sulphur solution	10,340	6,965	6,391	361
All other				3,075
Disinfectants and insecticides not reported by kind	3,345	942	942	
Household ammonia	1,253	1,272	1,187	709
Boiler compounds	5,084	3,387	3,067	3,170
Other industrial compounds	[11] 35,200	19,925	18,714	13,137
PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS				
Total value	201,689	166,257	158,345	108,686
Perfumes and toilet waters	27,462	15,004	13,883	8,403
Creams, other than shaving cream	33,347	26,125	23,710	15,636
Lip sticks and lip rouges	12,309	5,100	4,939	4,055
Other rouges		5,630	5,418	2,925
Dentifrices	32,464	35,699	35,477	25,957
Deodorants for human use	(12)	2,802	2,620	1,841
Shampoos	5,797	4,087	3,940	2,693
Face powders	24,038	18,872	18,289	12,023
Talcum powders	8,344	8,418	8,204	4,380
Other toilet powders	2,340	2,543	2,378	2,109
Hair dyes, tonics, and dressings	55,589	15,889	13,836	8,972
Face lotions		5,817	5,447	4,241
Other toilet preparations		21,272	20,203	15,450

[1] For reasons of adjustment see last paragraph of general note, p. 715.
[6] No comparable figures available because of changes in classification of products at the 1933 census.
[7] Not including pharmaceutical specialties dispensed on physicians' prescriptions or through physicians.
[8] Patent and proprietary packaged medicines includes $21,799,000 for 1929 and $22,432,000 for 1931 for antiseptics reported as "Proprietary compounds." Schedules for these years did not provide for reporting antiseptics under the head of "Patent and proprietary packaged medicines."
[9] No comparable figures available. The value published for 1929 ($5,033,000) included that of deodorants for human use which are now included with "Other industrial compounds."
[10] Not including production in the "Chemicals not elsewhere classified" industry.
[11] Not strictly comparable with figures for 1931 and 1933. See footnote 9.
[12] Data incomplete.

Source: Bureau of the Census, Department of Commerce.

No. 771.—TANNING MATERIALS, NATURAL DYESTUFFS, MORDANTS AND ASSISTANTS, AND SIZES: PRODUCTION

	Quantity (thousands of pounds)				Value (thousands of dollars)	
	1929	1931 As published; comparable with 1929	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]
Total value					**22,994**	**21,058**
Tanning extracts: [2]						
Oak and chestnut	277,449	234,399	233,781	241,015	3,782	3,641
Sumac	5,279	5,809	5,809	6,452	370	301
Quebracho	100,067	76,469	75,747	33,709	1,834	763
Other					346	529
Other tanning materials [2]					1,761	1,783
Natural dyestuffs:						
Extracts (logwood and quercitron)	21,758	18,469	18,467	12,280	1,313	939
Other extracts, and ground, chipped and dry product					302	195
Mordants					449	459
Assistants, total value					5,187	6,216
Softeners, total value					1,639	1,509
Quantity reported	31,613	33,111	26,526	22,958	1,639	1,273
Quantity not reported						236
Turkey red oil, total value					1,238	1,839
Quantity reported	24,261	13,550	12,999	17,573	1,238	1,726
Quantity not reported						113
Other					2,310	2,868
Sizes, total value					7,650	6,233
Dextrin	33,507	25,164	25,106	24,174	1,444	1,448
Other, total value					6,206	4,785
Quantity reported	263,788	195,814	190,772	162,776	6,206	4,600
Quantity not reported						185

[1] For reason of adjustment see last paragraph of general note, p. 715.
[2] Not including tanning materials made and consumed in the same establishments.

No. 772.—RUBBER PRODUCTS

	Unit	Quantity (thousands of unit specified)				Value (thousands of dollars)	
		1929	1931 As published; comparable with 1929	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]
Total value						**608,700**	**488,615**
Tires and inner tubes:							
Pneumatic:							
Motor-vehicle	Number	143,808	98,309	98,309	88,279	358,997	250,464
Motor cycle and bicycle	do	3,737	2,835	2,835	3,908	2,411	2,302
Solid and cushion:							
Truck	do	424	112	112	85	4,055	2,225
All other						1,403	1,521
Boots, rubber	Pair	5,454	1,971	1,971	2,622	4,775	4,659
Shoes and overshoes, rubber	do	51,357	27,145	27,145	32,984	26,378	23,042
Shoes, canvas, with rubber soles	do	43,954	28,082	28,082	29,689	17,155	13,813
Heels, for sale as such	do	292,719	248,257	246,956	272,504	11,582	11,119
Soles, incl. composition or fiber	do	46,189	59,609	59,584	91,995	8,383	8,316
Rubberized fabrics, sold as such or on hand:							
Automobile and carriage	Yard	22,407	10,425	10,425	8,620	5,398	3,362
All other	do	70,560	53,574	53,245	62,631	12,186	14,836
Belting	Pound	45,024	30,606	30,605	30,628	13,608	12,928
Hose and tubing						21,993	18,074
Packing	Pound	17,923	9,266	9,235	9,328	2,197	1,872
Druggists' and stationers' sundries						11,924	8,876
Hard-rubber goods						11,370	9,927
All other manufactures of rubber						84,921	75,312
Reclaimed rubber	Pound	363,696	216,509	216,158	158,503	9,964	5,965

[1] For reason of adjustment see last paragraph of general note, p. 715.

Source of tables 771 and772: Bureau of the Census, Department of Commerce.

No. 773.—PRINTING AND PUBLISHING: CENSUS STATISTICS

Publications	1925	1927	1929	1931	1933
	Value (thousands of dollars)				
Total	2,241,095	2,473,902	2,711,607	2,184,813	1,505,484
Newspapers and periodicals, printed and published or published only	1,321,611	1,459,688	1,580,565	1,293,777	937,114
Newspapers	892,094	977,648	1,073,119	886,523	667,820
Periodicals, other than newspapers	429,517	482,040	507,445	407,254	269,294
Subscriptions and sales	398,338	429,467	460,326	425,267	367,440
Advertising	923,273	1,030,221	1,120,238	868,510	569,674
Books and pamphlets, printed and published or published only	154,991	178,163	199,015	146,438	95,312
Newspapers, periodicals, books, and pamphlets, printed for publication by others [1]	103,205	109,732	129,518	156,737	101,372
Sheet music and books of music	14,133	17,147	16,538	12,204	595
General job printing, composition sold to the trade, ready prints, and paper patterns	647,155	709,173	785,971	[2] 575,657	[3] 371,093
	Aggregate circulation per issue (average for the year)				
Newspapers and periodicals:					
Daily	38,039,682	42,343,210	42,947,824	42,124,651	38,424,281
Sunday	25,630,056	27,695,859	29,011,648	27,453,465	25,453,894
Triweekly	400,730	468,534	311,777	215,694	165,703
Semiweekly	1,934,095	2,026,760	2,982,184	2,637,126	2,836,089
Weekly	50,815,443	55,985,413	53,378,350	46,954,782	51,413,509
Monthly	111,875,957	120,693,490	133,048,488	122,670,528	103,192,794
Quarterly	22,840,186	21,247,360	20,605,002	19,575,617	23,237,557
All other classes	8,450,308	8,156,399	11,514,355	8,353,006	6,334,286

[1] The inclusion of this item results in duplication in the total value of products since it represents amounts paid by publishers for work done for them, and consequently enters into the production cost and the "Value of products" (receipts for subscriptions and sales and advertising), reported by the publishers.

[2] In addition, lithographed or engraved labels, tags, and greeting cards valued at $28,681,000 in 1931 and $23,745,000 in 1933 were reported by establishments in other industries.

No. 774.—ENGINES, TURBINES, TRACTORS, WATER WHEELS, WINDMILLS, AND LOCOMOTIVES

[Value in thousands of dollars]

Class	1925	1927	1929	1931	1933
Total	314,609	368,181	468,617	161,151	58,573
Steam engines and turbines	24,411	22,573	32,415	14,893	8,443
Reciprocating marine	636	1,703	5,137	493	161
Reciprocating stationary and portable	7,962	5,406		1,634	435
Stationary turbines	14,055	14,499	27,278	8,427	5,670
Marine turbines	[1]	965		4,339	1,505
Not reported as to type	1,758				672
Internal-combustion engines (not including tractors)	117,894	141,161	166,634	68,279	29,624
Diesel and semi-Diesel type—					
Marine (Diesel)	7,353	7,062	11,430	4,876	1,828
Other	15,875	13,347	15,369	6,978	3,326
Other internal-combustion engines—					
Marine—					
Stationary	8,833	7,370	7,111	5,528	949
Detachable	2,561	5,553	7,852	2,352	1,249
Motor vehicle [2]	[3] 55,624	63,636	50,654	15,424	4,147
Other stationary and portable	27,648	34,699	49,251	19,341	9,406
Aircraft engines [4]		9,494	24,966	13,780	8,719
Tractors and traction engines	102,905	136,950	196,997	57,527	18,004
Tractors, internal-combustion	102,647	136,836	196,953		
Traction engines, steam	258	113	44		
Windmills	4,053	3,327	4,063	1,214	1,400
Water turbines	5,338	5,441	5,028	6,889	483
Engines and turbines not specified as to kind of power	[5] 13,707	414	675		191
Locomotives, steam	46,301	58,315	62,805	12,349	429

[1] No data.

[2] Excluding engines built for installation in motor vehicles manufactured in the same establishments.

[3] Includes some aviation engines for 1925.

[4] 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 footnote 3).

[5] Reported as secondary products by establishments in other industries; tractor trucks also included.

Source of tables 773 and 774: Bureau of the Census, Department of Commerce.

No. 775.—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," "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 776–780.

Class	1925	1927	1929	1931	1933
Agricultural machinery	93,222	129,595	167,673	49,954	17,109
Aircraft	8,102	14,505	51,608	21,790	15,670
Bakers' machinery and equipment	17,212	20,015	21,730	10,876	7,332
Blowers and fans	16,210	20,433	25,243	15,323	6,955
Bottling machinery	10,139	11,584	11,082	5,653	9,157
Clay-working machinery (brick, pottery, etc.)	5,298	4,308	4,402	1,671	591
Canning machinery	9,766	7,339	8,535	4,065	3,139
Cars and trucks, motorized	(1)	(1)	(1)	2,817	2,120
Cash registers, adding, calculating, and card-tabulating machines, and typewriters	(1)	143,913	151,583	62,279	46,577
Cement and concrete machinery:					
Cement-making machinery	4,146	4,619	4,387	1,579	545
Concrete mixers	12,620	12,674	11,405	4,357	963
Other cement and concrete machinery	7,640	3,240	4,132	1,457	224
Condensers	4,938	5,899	4,386	2,590	990
Confectionery and ice-cream machinery	5,143	5,682	3,674	3,809	2,667
Conveying machinery:					
Bucket type	(1)	10,726	9,387	2,695	2,107
Belt type	(1)	10,520	14,206	7,153	3,463
Other	(1)	12,282	24,944	12,261	5,844
Cotton-ginning machinery	12,808	9,543	11,760	2,630	2,165
Cranes (including hoists and derricks)	43,936	44,454	57,840	18,448	5,607
Dairy, cheese-factory, and butter-factory machinery	15,177	16,536	16,593	11,388	8,327
Dredging and excavating machinery:					
Power shovels	26,609	32,106	43,348	18,609	4,519
Other	19,232	19,776	17,397	11,578	2,975
Electrical machinery	202,146	203,995	253,594	[2] 138,425	74,933
Elevators and elevator machinery	47,430	43,152	44,044	20,035	8,322
Engines (steam or internal-combustion), tractors, and water wheels [3]	264,255	306,539	401,748	147,589	56,744
Flour-mill and grain-mill machinery	7,946	7,967	8,286	4,342	2,354
Gas machines and apparatus	6,242	5,082	5,408	1,794	(1)
Glass-making machinery	2,666	3,085	3,688	2,545	1,895
Hydraulic machinery (other than for dredging)	4,938	2,906	10,082	4,540	1,549
Laundry machinery	24,198	27,204	28,893	14,637	5,980
Lawn mowers	8,047	9,269	10,953	6,141	3,467
Leather-working machinery, other than shoe	2,222	2,000	1,249	816	747
Locomotives (steam and internal-combustion)	48,028	60,050	65,203	13,073	787
Machine tools	91,459	105,555	186,374	58,712	23,828
Metal-working machinery, other than machine tools	47,353	39,201	50,336	36,294	13,530
Meters, gas, water, and other liquids	24,502	24,978	25,694	14,393	7,980
Mining machinery (other than oil-well), including ore crushers	38,079	38,152	40,325	12,570	8,776
Motorcycles and bicycles	15,906	13,804	13,727	[4] 10,608	(1)
Motor vehicles, except motor cycles	2,946,821	2,540,714	3,412,056	1,387,173	928,650
Oil-mill machinery, cottonseed, and other	4,132	4,697	2,533	1,286	2,110
Oil-well machinery	47,299	62,126	89,067	23,105	20,706
Packing-house machinery	5,370	5,577	6,663	4,622	2,756
Paper-mill and pulp-mill machinery	21,209	27,098	30,456	15,793	8,696
Pneumatic machinery (other than pneumatic tools):					
Air compressors	29,473	29,319	39,683	15,210	7,214
Other pneumatic machinery	(1)	(1)	1,691	1,657	397
Printing machinery	68,055	63,240	64,860	32,324	13,598
Pumps (hand and power) and pumping equipment	121,299	129,127	144,947	71,555	36,846
Refrigerators, mechanical	62,593	112,141	167,149	128,033	90,694
Refrigerating and ice-making machinery				16,642	4,115
Road-making machinery	26,297	27,728	30,694	27,066	11,127
Rubber-working machinery	10,164	9,951	13,552	4,425	3,347
Scales and balances	23,691	22,166	25,385	12,072	6,805
Sewing machines	(1)	32,934	37,378	15,252	10,274
Shoe machinery	11,769	12,334	12,317	9,755	8,130
Slot-vending machines	4,202	7,059	8,821	5,861	5,472
Stokers, mechanical	9,420	10,213	14,054	8,310	5,629
Sugar-mill machinery	8,643	6,601	5,046	1,840	794
Textile machinery and parts	109,354	102,200	115,525	61,223	57,892
Transmission machinery	15,350	18,246	26,787	15,326	9,693
Vacuum cleaners (electric)	40,285	36,972	[5] 35,108	24,847	14,411
Washing machines, clothes wringers, driers, and ironing machines for domestic use	70,761	69,140	79,011	48,281	42,421
Well-drilling machinery, other than oil-well	1,843	1,545	1,463	1,530	777
Windmills	4,053	3,327	4,063	1,214	1,400
Woodworking machinery	39,620	29,569	35,151	11,057	6,100

[1] No comparable data.
[2] Includes motor parts.
[3] Excluding steam boilers made for sale as separate units.
[4] Includes motor-cycle side cars and parts.
[5] Figures include both electric and other vacuum cleaners.

Source: Bureau of the Census, Department of Commerce.

No. 776.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: VALUE OF PRODUCTS, BY CLASSES

[All figures except number and kilovolt-amperes in thousands of dollars]

Product	1925	1927	1929	1931	1933
Total value	1,397,709	1,515,230	1,918,733	987,643	533,072
Generators (not specified elsewhere):					
Direct current—					
Value	5,317	4,503	2,500	1,692	825
Alternating current—					
Number			2,360	1,053	787
Kilovolt-amperes (thousands)			3,869	1,310	(1)
Value	2,098	2,856	19,325	8,825	3,050
Synchronous condensers and frequency changers—	3,674	3,632			
Number	17,899	18,335	203	85	37
Kilovolt-amperes (thousands)			752	432	(1)
Value			4,241	2,547	195
Automotive generators for battery charging	56,221	58,128	28,210	10,584	7,779
Automotive starter motors			32,849	13,044	9,032
Self-contained power and lighting outfits	11,143	8,239	6,840	1,639	945
Transformers, induction-voltage regulators, and current-limiting reactors	62,153	66,804	84,032	42,742	13,094
Motor-generator sets and dynamotors	8,264	6,764	13,397	6,007	2,201
Control apparatus, railway, vehicle, motor, and other	31,303	34,181	44,289	22,186	15,165
Electric locomotives (mining, industrial, and railway)	10,331	9,858	17,706	(2)	(2)
Stationary motors (not fan), total	92,648	97,673	136,035	68,430	41,173
Fractional horsepower	28,249	33,903	51,252	33,648	23,747
One horsepower and over—					
Direct current	15,797	15,628	22,619	9,060	3,622
Alternating current	48,602	48,142	62,164	25,723	13,574
Not reported by kind or rating					230
Electric fans	10,654	10,352	10,196	8,984	2,437
Storage batteries, parts and supplies	110,212	97,808	109,601	65,736	52,129
Primary batteries	40,982	46,283	40,334	20,200	15,315
Primary battery parts and supplies	4,054	6,298			
Carbons: Electrodes for lighting and furnaces, brushes, and specialties	13,955	14,364	17,049	9,512	8,997
Incandescent lamps and X-ray tubes	73,558	87,933	85,320	70,502	49,849
Telegraph apparatus	2,922	5,561	166,293	113,170	21,180
Telephone apparatus	81,510	115,452			
Household apparatus and appliances:					
Vacuum cleaners, portable	39,971	36,222	35,108	24,847	14,410
Flatirons	7,998	7,917	8,018	5,070	4,639
Cooking utensils	7,921	11,668	13,341	8,250	5,311
Ranges, disk stoves, and hot plates	7,901	12,119	16,933	9,643	4,189
Air heaters, radiant and convector type	2,028	1,439	1,833	1,012	362
Electric-measuring instruments, meters, etc	31,650	34,133	38,523	22,715	9,328
Switchboards, panel boards, cabinets, circuit breakers, and switches	69,759	71,924	81,201	44,832	16,243
Magnetos	9,930	9,016	14,461	3,300	(3)
Spark plugs	13,878	13,372	20,244	15,800	12,896
Coils (ignition)	7,837	8,467	9,502	3,734	(3)
Insulated wires and cables	210,617	210,048	312,592	120,197	61,226
Railway signals and attachments	14,030	22,340	22,572	10,583	(2)
Fuses and fuse blocks	10,393	10,891	14,036	7,761	4,825
Wiring devices	34,806	32,703	38,395	21,778	17,796
Lightning arresters and choke coils	5,961	6,327	6,515	3,257	1,592
Electric-railway line materials	4,240	5,446	3,261	1,718	1,213
Conduits, fittings, and armored cable	45,785	41,717	58,158	33,427	19,102
Electric signaling apparatus (other than railway)	8,571	9,976	12,248	6,881	(4)
All other	231,307	280,969	393,575	177,034	116,572

[1] No comparable data.
[2] Withheld to avoid disclosing approximations of data for individual establishments.
[3] No data.
[4] Included with "All other".

Source: Bureau of the Census, Department of Commerce.

No. 777.—AGRICULTURAL IMPLEMENTS: PRODUCTION

NOTE.—For farm wagons and farm trucks, see table 782

Product	Number				Value (thousands of dollars)	
	1929	1931 As published; comparable with 1929	1931 Adjusted for comparison with 1933 [1]	1933 Reported on standard schedule [1]	1931 Adjusted for comparison with 1933 [1]	1933 Reported on standard schedule [1]
Total values					70,959	27,435
Planting and fertilizing machinery					9,844	2,404
Corn planters, 1 and 2 row	74,778	35,926	33,648	9,324	1,638	274
Combined corn and cotton planters	93,959	15,383	15,231	6,465	504	119
Combined listers and drills	7,004	2,031	1,835	1,378	120	86
Grain drills	70,408	11,380	10,558	3,860	1,310	219
Fertilizer distributors, horse- or tractor-drawn	92,741	21,096	16,326	6,845	110	48
Spreaders, lime and manure	73,265	22,933	22,131	6,781	2,194	595
Broadcast seeders	167,974	51,323	44,231	(2)	265	40
Other planting and fertilizing machinery		54,242	29,259	10,348	1,153	223
Attachments and parts					2,550	802
Plows and listers					10,924	6,212
Moldboard plows:						
Horse-drawn, walking	446,731	130,345	115,375	104,325	901	793
Horse-drawn, sulky	56,466	5,334	4,805	4,014	271	227
Tractor-drawn	122,897	26,827	26,464	5,942	2,055	377
Disk plows, tractor-drawn	16,397	2,040	1,865	958	302	182
One-way disk tillers	22,992	7,085	7,021	430	1,223	56
Listers (middlebusters), tractor-drawn	2,966	4,680	4,680	784	439	47
Other plows and listers	102,112	27,112	24,862	5,821	589	117
Plows and listers not distributed by kind or by number, and parts					405	487
Attachments and parts, including plow stocks and steel plow shapes					4,739	3,925
Harrows, rollers, pulverizers, and stalk cutters					5,009	1,250
Spike-tooth and spring-tooth harrows	496,383	163,734	151,299	75,874	1,125	459
Disk harrows	138,849	46,853	43,558	11,303	2,804	427
Harrows not reported by kind or by number						19
Other harrows, rollers, etc	34,951	11,793	5,459	1,324	257	34
Attachments and parts					823	311
Cultivators and weeders					7,374	2,299
Horse-drawn, except disk	424,208	117,728	104,384	71,217	2,597	988
Tractor-drawn	34,634	15,631	13,478	3,367	1,544	284
Hand cultivators (wheeled hoes)	153,434	160,360	119,689	(2)	302	259
Other cultivators and weeders	85,842	39,477	32,952	3,701	1,021	145
Attachments and parts					1,910	622
Harvesting machinery					19,517	5,150
Combines (harvester-thresher)	36,957	5,907	5,831	349	9,179	323
Potato diggers (elevator type)	9,400	3,906	3,329	1,401	258	70
Other harvesting machinery	116,116	29,863	28,598	13,317	5,224	1,918
Attachments and parts					4,856	2,839
Haying machinery					6,800	4,525
Mowers	126,360	43,312	42,423	36,720	2,311	1,766
Rakes	[3] 58,134	20,341	20,009	6,200	749	235
Loaders	24,920	10,042	10,040	953	828	75
Other haying machinery	51,849	16,551	14,153		690	
Attachments and parts					2,222	2,449
Machines for preparing crops for market or use					10,751	5,029
Grain threshers	13,813	3,954	3,793	369	3,016	302
Ensilage cutters (silo fillers):						
Number reported	8,065	3,156	3,068	1,240	581	250
Number not reported						51
Corn shellers	40,378	16,853	13,438	8,276	488	174
Hay presses	3,460	1,627	1,422	(2)	498	243
Feed grinders and crushers:						
Hammer mills:						
Number reported	101,592	11,041	9,042	5,157	1,897	440
Number not reported						135
Other types		33,497	28,757	5,141	702	166
Grain cleaners and graders, for small grain only	11,635	3,642	2,162	(2)	82	197
Other machines for preparing crops, etc	102,198	32,855	6,865	(2)	1,192	832
Attachments and parts					2,294	2,238
Miscellaneous and undistributed					738	565

[1] For reason of adjustment see last paragraph of general note, p. 715.
[2] Data incomplete. [3] Rakes, sulky (dump) only.

Source: Bureau of the Census, Department of Commerce.

No. 778.—MACHINE TOOLS: NUMBER AND VALUE, BY KINDS

Kind	Number			Value (thousands of dollars)		
	1929	1931	1933	1929	1931	1933
Machine tools, total value				186,374	58,712	23,828
Boring machines:						
Horizontal and vertical	416	84	118	2,296	795	519
Special types and combinations	(1)	(1)	(1)	3,917	1,124	374
Drilling machines:						
Horizontal, vertical, and radial	11,290	2,376	(1)	14,945	3,340	967
Combination vertical and horizontal, automatic, bench, and vertical universal head	(1)	(1)	(1)	2,350	2,065	669
Gear-cutting machines	(1)	(1)	(1)	8,980	3,569	1,030
Grinding machines	(1)	(1)	(1)	22,102	8,662	3,627
Lathes:						
Engine, except gap lathes	8,693	2,807	2,054	11,759	2,768	1,137
Automatic and hand-operated horizontal turret	8,260	(1)	443	31,334	6,026	1,702
Other	(1)	(1)	(1)	5,461	1,323	1,041
Milling machines	(1)	(1)	(1)	16,857	3,845	1,341
Presses (except forging presses)	(1)	(1)	(1)	9,792	2,460	1,686
Portable tools (electric and pneumatic):						
Drills:						
Number reported	[2] 133,369	61,399	24,115	[2] 7,033	3,683	1,409
Number not reported		(1)	(1)		318	94
Grinders	56,844	14,986	(1)	3,547	1,032	466
Hammers	[2] 55,130	13,085	11,252	[2] 3,549	1,232	629
Other, including portable motor-driven garage equipment, etc.	(1)	(1)	(1)	5,639	5,779	2,303
Threading machines (except for pipe)	(1)	595	134	2,792	1,010	132
Shapers	(1)	(1)	35	33,023	9,682	58
All other machine tools			(1)			4,644

[1] Data incomplete.
[2] Not strictly comparable with figures for 1931; includes data for rock drills, tampers, etc.

Source: Bureau of the Census, Department of Commerce.

No. 779.—MACHINE-TOOL ACCESSORIES AND MACHINISTS' PRECISION TOOLS AND INSTRUMENTS: VALUE, BY KINDS

Product	Value (thousands of dollars)			Product	Value (thousands of dollars)		
	1929	1931	1933		1929	1931	1933
Total value	183,139	74,551	46,878	Small tools and tool holders—Continued:			
Attachments and fixtures	98,144	47,863	25,894	Milling cutters (all types), end mills, slotting cutters, etc.:			
General equipment:				Solid	10,705	3,326	2,447
Chucks	4,398	1,000	714	Inserted-teeth		805	1,212
Vises (machine)	182	30	81	Reamers	8,157	2,145	1,220
Attachments for machine tools:				Threading tools:			
Lathe	6,358	200	104	Taps and dies (not pipe-threading):			
Boring, drilling, and milling machine		1,430	805	Taps	6,596	2,383	1,848
Other attachments			99	Dies	2,700	856	652
Other attachments and fixtures		2,095	1,592	Chasers	3,251	1,346	1,018
Special equipment	87,206	43,108	22,501	Pipe-threading:			
Small tools and tool holders	(1)	23,404	17,509	Taps	300	261	405
Arbors, collars, and collets (lathe, milling-machine, and drill)	710	192	164	Dies	1,347	532	456
Counterbores	1,117	323	56	Pipe stocks, complete with dies	2,339	1,084	650
Countersinks and combination countersinks and drills	[2] 65	193	104	All other, and those not reported by kind	31,622	3,954	2,285
Drills	14,007	4,897	4,508	Precision measuring tools (micrometer and vernier)		2,075	186
Hobbing cutters	2,079	1,106	484	Gages (plug, ring, snap, thread, etc.)			761
				Other measuring tools		1,209	618
				Machine-tool accessories, etc., not reported by kind			1,910

[1] Total cannot be given as value of "All other small tools and tool holders", etc., is not segregated.
[2] Countersinks only; not comparable with figures for later years.

Source: Bureau of the Census, Department of Commerce.

No. 780.—REFRIGERATING AND ICE-MAKING APPARATUS: PRODUCTION

Product	Number		Value (thousands of dollars)	
	1931	1933	1931	1933
Total value			[1] 199,377	[1] 136,124
Mechanical refrigerators and refrigerating systems, compression-type (electric):				
Domestic (household):				
Self-contained, total	708,894	956,356	[1] 90,447	[1] 75,460
Capacity under 6 cu. ft.	431,934	433,434	48,061	27,347
6 cu. ft. or more but under 10 cu. ft.	260,896	416,310	38,349	39,105
10 cu. ft. and over	16,064	10,062	4,038	1,935
Not reported by size		96,550		7,073
Systems [2] complete without cabinets, all sizes	117,166	37,748	9,241	1,659
Commercial			[1] 15,520	[1] 7,986
Water coolers, self-contained	20,341	[3]	2,231	976
Ice-cream cabinets, self-contained:				
Number reported	52,500	3,499	10,696	614
Number not reported				1,102
Other commercial refrigerators and display cases, self-contained	34,465	[3]	2,594	4,778
Compressors and miscellaneous commercial equipment, not reported separately				517
Compressors made for sale separately	[3]	29,961	12,824	3,484
Evaporators made for sale separately:				
Number reported		16,953		622
Number not reported				745
		22,292		739
High sides and low sides made for sale separately				
Cabinets,[2] display cases, etc., for mechanical refrigerators, made for sale separately:				
Domestic (household), all sizes	318,835	441,278	10,616	12,321
Commercial:				
Refrigerator cabinets:				
Number reported	[3]	17,667	8,871	1,129
Number not reported				339
Display, storage, etc., cases:				
Number reported		8,425		3,576
Number not reported				1,630
Remote fountain or water coolers, with low sides				281
Ice refrigerators and ice boxes:				
Domestic (household):				
Number reported	373,855	223,252	6,399	3,306
Number not reported			2,229	744
Commercial ice refrigerators, water coolers, milk coolers, food-display cases, etc.:				
Number reported	73,757	37,446	5,405	1,558
Number not reported			2,148	1,835
Custom-built refrigerators, cabinets cooled by replaceable chemical refrigerant ("Kold-Kans", etc.) and cooling equipment therefor, and cabinets and display cases not reported by method of cooling			3,061	268
Ice-making and refrigerating machines, industrial (rated ice-making capacity in tons per 24 hours)			16,642	4,115
Less than 10 tons:				
Number reported	[4]	2,274	[4]	921
Number not reported				299
10 tons or more but under 100 tons:				
Number reported		1,257		921
Number not reported				179
100 tons and over		[3]		737
Not reported separately by size				1,058
Absorption-type refrigerators and parts for all types [5]			15,973	14,327

[1] The values of "Systems complete without cabinets" (see footnote 2) and "Cabinets, display cases, etc.," are duplicated in the totals to which this footnote is indexed, to the extent to which these products were sold to manufacturers in the industry, or were transferred from one plant to another under the same ownership for assembly and sale as complete refrigerators.

[2] The term "System", as used here, refers to a complete assembly, consisting of "High sides" and "Low sides" with motor, control, and expansion valve or its equivalent. The cabinet is not a part of the system.

[3] Data incomplete.

[4] No data.

[5] Figures combined to avoid disclosing output of an individual manufacturer of absorption-type refrigerators.

Source: Bureau of the Census, Department of Commerce.

No. 781.—RADIO APPARATUS AND PHONOGRAPHS: PRODUCTION, 1933

Product	Number		Value (thousands of dollars)	
	1931	1933	1931	1933
Radios, phonographs, and apparatus, total value			[1] 195,382	[1] 119,527
Receiving sets, complete (cabinets, chassis, speakers, and tubes)			117,372	70,553
Number reported	3,745,682	3,599,522	116,706	69,309
Number not reported			667	1,244
For the home			113,396	56,240
Number reported	3,648,383	2,896,964	113,396	55,167
Number not reported				1,073
Covering standard broadcast band:				
Socket-power-operated:				
Factory price not over $11	55,931	415,198	577	3,439
Over $11, but not over $30	1,981,154	1,961,759	44,291	32,256
Over $30	1,437,450	311,870	62,868	12,469
Battery-operated (excluding batteries)	49,198	92,618	1,790	1,932
Extending beyond standard broadcast band—all-wave receiving sets, both socket-power and battery-operated (excluding batteries)	11,078	115,519	603	5,071
Home receiving sets, not reported by kind or by price	113,572	(2)	3,267	1,073
Automobile sets	96,145	700,018	3,076	13,598
Power-operated, except police sets:				
Factory price not over $22	3,325	468,584	112	7,847
Over $22		230,158		5,704
Police sets, both battery-operated and power-operated		1,276		47
Battery-operated, except police sets	92,820		2,964	
Aircraft and television sets or kits, receiving sets for commercial use, and other sets not specified above			900	715
Number reported	1,154	2,540	234	545
Number not reported			667	170
Tubes:				
Receiving tubes	49,262,848	59,859,259	26,978	25,215
For replacement	24,318,052	36,442,340	13,714	15,870
Rectifiers (primarily for use with receiving sets)	1,299,854	5,088,670	681	2,047
Other, including television (neon and other converter)	23,018,198	31,353,670	13,033	13,823
For initial equipment, total [3]	24,944,796	23,416,919	13,264	9,345
Rectifiers (primarily for use with receiving sets)	1,393,274	5,936,239	552	2,217
Other tubes	23,551,522	17,480,680	12,712	7,128
Transmitting tubes	62,562	(2)	1,410	1,382
Light-sensitive tubes; other, primarily for industrial control apparatus; rectifier tubes other than for use with receiving sets; tubes not reported as to kind	(2)	(2)	947	722
Transmitters (including all associated equipment):				
Broadcast	182	(2)	631	457
Aircraft	270	(2)	180	59
Ship	274	(2)	980	516
Other transmitters, for use at fixed locations	374	(2)	608	331
Phonographs and accessories:				
Phonographs for mechanical reproduction, including cabinets	37,152	(2)	530	128
Phonographs for electrical reproduction, including cabinets	11,152	(2)	1,149	1,782
Phonographs, number and class not reported			821	
Records	30,851,282	(2)	7,698	2,500
Needles	(2)	(2)	434	345
Combination radio-and-phonograph units	73,603	30,092	6,310	1,408
Public-address and theater (not including motion-picture theater), sound-reproducing equipment, and home talking-moving-picture combinations	(2)	(2)	4,512	2,298
Miscellaneous:				
Receiving-set chassis for sale separately as such [3]	405,942	129,434	7,863	1,997
Loud speakers for sale separately as such [3]	(2)	(2)	4,648	3,002
Microphones (all types)	10,225	(2)	187	344
Other apparatus and products (including dictating machines,[4] dictating-machine record blanks, and combined portable receivers and transmitters), and products not reported by kind			12,124	6,487

[1] Includes some duplication. See footnote 4.

[2] Data incomplete.

[3] The items to which this footnote is indexed are duplicated in the subtotals and the total at the head of the table, to the extent to which the products were sold to manufacturers of complete radio receiving sets for installation in such sets made within the year covered by the report.

[4] Figures for dictating machines withheld to avoid disclosing data for individual establishments.

Source: Bureau of the Census, Department of Commerce.

No. 782.—VEHICLES AND AIRCRAFT: PRODUCTION

Product	Number			Value (thousands of dollars)		
	1929	1931	1933	1929	1931	1933
MOTOR VEHICLES, INCLUDING CHASSIS						
Total	5,294,087	2,295,063	1,848,013	3,412,056	1,387,173	928,650
Passenger vehicles (not including busses and taxicabs)	4,362,215	1,911,717	1,534,366	2,767,339	1,119,817	753,134
Closed	3,917,370	1,786,393	1,516,343	2,537,938	1,059,550	744,268
Roadsters, runabouts, and other open	444,845	125,324	18,023	229,402	60,267	8,866
Motor busses (school, sightseeing, and public-utility)	9,072	4,241	1,574	31,612	17,927	6,948
Trucks	385,756	243,647	213,683	269,508	159,211	110,765
Hearses and undertakers' wagons	2,316	1,145	825	5,655	2,954	1,911
Taxicabs, truck-tractors, and commercial vehicles, not specified above	20,549	5,946	6,114	28,937	9,941	8,014
Other vehicles and apparatus	1,960	1,154	708	10,156	6,163	2,215
Chassis	512,219	127,213	90,743	298,847	71,162	45,663
Passenger	76,401	7,556	8,756	32,398	3,739	3,875
Commercial and bus	435,818	119,657	81,987	266,449	67,422	41,788
MOTORCYCLES, BICYCLES, AND PARTS						
Total value				21,198	13,285	(1)
Motorcycles	31,912	(2)	(1)	7,543	(2)	(1)
Bicycles	307,845	260,029	(1)	6,184	4,733	(1)
Parts, including value of motorcycle side cars				7,472	[2] 8,552	(1)
CARS, STEAM AND ELECTRIC RAILROAD						
Total value				347,396	101,134	44,749
Cars				249,679	48,841	(3)
Steam railroad cars, freight service, total	86,243	15,011	1,936	200,576	35,010	3,475
Box and tank	37,458	3,233	1,123	87,128	6,718	2,003
Other	48,785	11,778	813	113,448	28,292	1,472
All other cars (steam, passenger service; electric, passenger and freight; self-propelled)	(4)	(4)	(3)	49,103	13,831	8,262
Other products including car parts				97,717	14,290	
Receipts for repair work					38,002	33,012
CARRIAGES, WAGONS, SLEIGHS, ETC.						
Total value				(1)	4,604	4,358
Horse-drawn vehicles	(1)	30,262		(1)	1,705	[5] 2,439
Number reported		30,262	[5] 45,638		1,705	[5] 2,067
Number not reported						372
Farm wagons and farm trucks	(1)	26,359		(1)	1,378	2,353
Number reported		26,359	44,464		1,378	1,981
Number not reported						372
Business, wagons, including mail carriers' wagons, and public conveyances	(1)	823	[5] 100	(1)	187	[5] 25
Carriages, buggies, sulkies, and two-wheeled carts	(1)	2,423	1,074	(1)	121	61
Sleighs and sleds (including bobsleds)	(1)	657	(4)	(1)	19	(4)
Wheelbarrows	(1)			(1)	1,243	1,548
Handcarts and pushcarts	(1)	5,473	(4)	(1)	73	(4)
Parts	(1)			(1)	1,582	435
Wagons, trucks, carts, sleds, parts, etc., not reported separately	(1)			(1)		436
AIRCRAFT						
Total value				70,265	40,375	27,350
Airplanes [6] [7]	6,522	2,357	1,083	46,848	17,623	13,449
Seaplanes and amphibians [6] [8]	109	111	68	4,660	4,167	2,222
Parts				10,892	9,224	5,898
All other products, including repairs and experimental work				7,865	9,360	5,781

[1] No comparable data.
[2] Motorcycles cannot be shown separately without disclosing data for individual establishments. Value combined with that for "Parts", etc.
[3] Data withheld to avoid disclosing output of individual establishments.
[4] Data incomplete.
[5] Data incomplete; not reported separately by all manufacturers.
[6] The value for 1929 includes, in some cases, the value of engines made in the same plant and installed in the aireraft. The schedules for 1931 and 1933 called for the value of planes without engines.
[7] For 1929, includes data for 438 rebuilt and reassembled airplanes; for 1931, 70; for 1933, 27.
[8] For 1929, includes data for 4 rebuilt seaplanes; for 1931, 2 rebuilt amphibians and 1 rebuilt seaplane; for 1933, 1 rebuilt amphibian.

Source: Bureau of the Census, Department of Commerce.

No. 783.—COTTON SPINDLES, COTTON CONSUMPTION, AND STOCKS

NOTE.—The statistics for 1915 to 1934 relate to the 12 months ended July 31 and those for prior years to the 12 months ended Aug. 31. South refers to cotton growing States. Consumption is expressed in running bales, counting round as half bales, except that all figures, 1840 to 1870, inclusive, and foreign cotton in all years are in equivalent 500-pound bales. The number of active spindles represents spindles operated for any time, however short, during the year, and is therefore an unsatisfactory measure of activity of the industry

Year	Cotton spindles (thousands)					Spindles using cotton with other fibers (thousands)	Cotton consumed, excluding linters[1] (thousands of bales)			
	Total in place	Active					Total	The South	New England	Other States
		Total	The South	New England	Other States					
1840	(2)	2,285	181	1,597	506	(2)	237	71	159	7
1850	(2)	3,998	265	2,959	775	(2)	576	78	431	67
1860	(2)	5,236	324	3,859	1,053	(2)	845	94	567	184
1870	(2)	7,132	328	5,498	1,306	(2)	797	69	551	177
1880	(2)	[3]10,653	[3]561	[3]8,632	[3]1,460	(2)	[3]1,570	[3]189	[3]1,129	[3]252
1890	(2)	14,384	1,570	10,934	1,880	(2)	2,518	539	1,502	477
1900	(2)	19,472	4,368	13,171	1,933	(2)	3,873	1,523	1,909	440
1910	28,929	28,267	10,494	15,735	2,038	(2)	4,622	2,234	1,995	393
1915	32,841	31,964	12,956	17,101	1,908	395	5,597	3,027	2,149	421
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	33,670	18,282	13,815	1,473	232	6,834	5,114	1,438	282
1929	34,820	32,417	18,541	12,537	1,339	207	7,091	5,392	1,448	251
1930	34,025	31,245	18,586	11,351	1,308	177	6,106	4,749	1,143	214
1931	32,673	28,980	18,073	9,655	1,251	117	5,263	4,148	937	179
1932	31,709	27,272	17,630	8,566	1,076	113	4,866	4,033	678	155
1933	30,893	26,895	17,929	8,205	761	119	6,137	5,087	884	167
1934	30,942	27,742	18,511	8,457	774	126	5,700	4,550	985	165

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	[4]4,829	[4]4,680	[5]4,595	[5]62	149	[6]163	[4]731	[4]673	58	[6]39
1911-1915	5,257	5,051	4,976	75	206	293	822	738	84	86
1916-1920	6,388	6,105	6,034	71	282	734	1,452	1,352	100	179
1921-1925	5,869	5,577	5,568	9	292	599	1,003	911	92	139
1926-1930	6,735	6,434	6,433	1	301	815	1,150	1,050	100	186
1916	6,398	6,080	5,998	83	317	881	1,632	1,490	143	100
1917	6,789	6,470	6,376	94	318	870	1,502	1,408	94	113
1918	6,566	6,382	6,297	86	184	1,119	1,465	1,403	63	138
1919	5,766	5,590	5,539	51	176	458	1,303	1,253	51	267
1920	6,420	6,003	5,960	43	417	342	1,358	1,208	150	277
1921	4,893	4,677	4,658	19	216	516	1,111	1,021	90	201
1922	5,910	5,613	5,604	9	297	639	1,218	1,127	91	139
1923	6,666	6,322	6,316	6	344	646	1,100	981	118	127
1924	5,681	5,353	5,348	5	328	537	722	638	84	101
1925	6,193	5,917	5,914	4	276	659	866	787	79	129
1926	6,456	6,176	6,174	2	280	804	1,097	1,011	86	144
1927	7,190	6,880	6,879	1	310	806	1,405	1,325	80	199
1928	6,834	6,535	6,534	1	299	780	1,012	935	77	159
1929	7,091	6,778	6,777	1	313	879	1,052	932	120	187
1930	6,106	5,803	5,803	(7)	302	805	1,183	1,048	135	239
1931	5,263	5,084	5,083	(7)	179	714	996	922	74	254
1932	4,866	4,744	4,743	(7)	122	637	1,218	1,163	55	301
1933	6,137	6,004	6,003	(7)	133	761	1,348	1,298	50	322
1934	5,700	5,553	5,553	(7)	148	767	1,228	1,172	56	237

[1] Includes linters for 1840 to 1905.
[2] Figures not available.
[3] Cotton mills only.
[4] Includes linters for 1906 to 1908.
[5] Average, 1907 to 1910.
[6] Average, 1909 and 1910.
[7] Less than 500 bales.

Source: Bureau of the Census, Department of Commerce.

No. 784.—COTTON SPINDLE ACTIVITY AND CONSUMPTION, BY STATES

NOTE.—All data except the 1911-1915 average, which represents years ended Aug. 31, are for years ended July 31. Consumption includes both domestic and foreign cotton

Section and State	Cotton spindles in place (thousands)			Spindle hours (millions)			Cotton consumed, excluding linters (thousands of bales)				
	1931–32	1932–33	1933–34	1931–32	1932–33	1933–34	1911–1915, average	1926–1930, average	1931–32	1932–33	1933–34
United States	31,709	30,893	30,942	68,755	85,265	80,419	5,257	6,735	4,866	6,137	5,700
The South	19,138	19,052	19,331	53,613	66,366	59,291	2,740	4,990	4,033	5,087	4,550
New England	11,374	10,810	10,582	13,260	17,231	19,290	2,101	1,466	678	884	985
Other States	1,197	1,030	1,029	1,882	1,667	1,839	416	279	155	167	165
Alabama	1,871	1,874	1,924	5,556	6,415	5,803	275	563	532	661	584
Connecticut	1,067	975	957	1,391	1,762	1,751	127	101	52	58	59
Georgia	3,312	3,297	3,391	8,908	10,929	10,354	589	1,139	874	1,105	1,060
Maine	982	967	996	1,409	1,999	2,029	170	126	87	137	134
Massachusetts	6,168	5,865	5,708	6,689	8,488	10,162	1,269	823	340	421	516
New Hampshire	1,188	1,118	1,119	1,680	2,026	2,247	292	208	122	158	169
New Jersey	236	139	140	412	286	456	56	36	28	20	24
New York	617	551	542	904	749	695	199	139	70	83	74
North Carolina	6,192	6,137	6,142	15,251	18,630	17,196	840	1,534	1,183	1,472	1,335
Pennsylvania	98	94	95	139	149	155	48	23	11	13	14
Rhode Island	1,852	1,768	1,685	1,930	2,685	2,870	232	199	69	101	101
South Carolina	5,696	5,677	5,789	18,737	24,199	20,282	743	1,196	1,018	1,324	1,101
Tennessee	594	627	642	2,055	2,442	1,891	74	157	140	153	122
Virginia	678	643	653	1,648	1,943	1,929	85	120	115	145	137
All other States	1,159	1,161	1,158	2,046	2,565	2,600	258	371	222	287	272

Source: Bureau of the Census, Department of Commerce.

No. 785.—EXPLOSIVES: AMOUNTS (EXCLUDING EXPORTS) MANUFACTURED AND SOLD, CALENDAR YEARS

NOTE.—Black blasting powder in thousands of kegs or cases 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	1926	1927	1928	1929	1930	1931	1932	1933	1934
Black blasting powder	6,307	5,268	[1] 4,870	[1] 4,802	[1] 3,995	[1] 3,193	[1] 2,550	[1] 2,568	[1] 2,757
Railway and other construction work	301	249	317	275	289	303	208	187	232
Coal mining	5,444	4,503	4,036	4,082	3,427	2,711	2,252	2,289	2,417
Metal mining	114	86	84	91	56	46	18	20	24
Quarrying and nonmetallic mineral mining	236	231	202	183	153	114	59	59	74
All other purposes	212	199	231	170	70	20	12	14	11
High explosives other than "permissible"	310,518	303,468	292,785	326,993	291,391	216,157	137,908	157,849	206,825
Railway and other construction work	44,982	48,253	50,767	60,060	78,362	74,964	53,860	71,055	95,038
Coal mining	35,229	34,173	30,077	31,752	28,148	19,965	16,173	17,478	22,212
Metal mining	110,374	102,122	96,088	108,939	91,161	57,431	29,409	32,839	45,690
Quarrying and nonmetallic mineral mining	76,186	78,506	74,820	79,505	68,334	48,568	29,263	29,985	34,491
All other purposes	43,747	40,413	41,032	46,738	25,386	15,229	9,203	6,492	9,195
"Permissible" explosives	67,685	63,847	60,708	62,669	53,826	41,578	32,225	33,927	39,208
Railway and other construction work	242	216	158	154	214	431	369	208	93
Coal mining	65,143	60,942	57,261	60,244	52,378	40,611	31,533	33,218	38,770
Metal mining	216	191	231	165	183	10	35	26	28
Quarrying and nonmetallic mineral mining	581	536	1,243	370	502	230	93	434	287
All other purposes	1,503	1,962	1,814	1,735	549	295	195	40	31

[1] Includes granular powder and pellet powder.

Source: Bureau of Mines, Department of the Interior.

No. 786.—FERMENTED LIQUORS AND DISTILLED SPIRITS PRODUCED

Year ended June 30—	Distilled spirits			Fermented malt liquors	Year ended June 30—	Distilled spirits			Fermented malt 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	1926	203,166	644	203,810	[4] 4,856
1910	156,238	7,656	163,894	[3] 59,485	1927	185,133	338	185,472	[4] 4,382
1915	132,134	8,522	140,656	[3] 59,808	1928	170,103	412	170,515	[4] 4,161
1918	173,476	5,357	178,834	[3] 50,266	1929	202,059	1,194	203,254	[4] 3,866
1920	99,616	1,649	101,265	[3] 9,231	1930	194,841	416	195,257	[4] 3,681
1922	81,086	1,077	82,163	[4] 6,348	1931	169,574	820	170,394	[4] 3,137
1923	123,208	1,417	124,626	[4] 5,269	1932	149,760	631	150,391	[4] 2,766
1924	136,632	847	137,530	[4] 4,891	1933	121,819	1,586	123,405	[5] [6] 8,209
1925	166,951	548	167,498	[4] 5,119	1934	233,036	8,574	241,610	[6] 37,678

[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; production for 1933 was 1,261,000 barrels and for 1934, 136,000 barrels.
[5] Production Apr. 7 to June 30. [6] Alcoholic content limited to 3.2 percent prior to Dec. 5, 1933.

No. 787.—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*
1910	----------	12	10,605,871	3,076,925	3,002,103	6,079,027
1915	----------	23	25,411,719	5,386,647	8,599,822	13,986,469
1920	18,933,551	52	45,640,949	13,528,403	15,307,947	28,836,350
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	52,405,452	54,555,006	106,960,458
1930	191,859,343	67	181,601,420	58,141,741	47,645,797	105,787,538
1931	166,014,346	60	149,303,439	49,136,201	37,172,741	86,308,941
1932	[2] 146,950,913	49	132,578,235	34,298,236	44,031,282	78,329,517
1933	[2] 115,609,754	42	103,753,241	26,524,231	35,076,116	61,600,347
1934	[2] 165,103,582	41	136,887,896	27,174,311	55,067,092	82,241,403

[1] Separate accounts for alcohol produced at industrial alcohol plants required commencing May 1, 1920.
[2] Includes alcohol produced in Puerto Rico and for 1934, also Hawaii.

No. 788.—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 790

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	1924	693,858	153,413	217,700	322,745
1901–1905	451,461	124,411	12,444	314,606	1925	718,426	149,001	244,315	325,109
1906–1910	524,193	139,206	22,079	362,908					
1911–1915	578,283	151,890	52,207	374,186	1926	737,354	152,372	267,584	317,399
1916–1920	650,460	155,312	130,320	364,828	1927	744,288	152,510	290,464	301,314
1921–1925	672,077	151,421	198,069	322,588	1928	754,625	151,290	310,159	293,176
1926–1930	762,540	149,240	312,533	300,767	1929	796,626	152,129	346,543	297,953
					1930	779,806	137,901	347,915	293,990
1919	648,384	151,504	166,783	330,097	1931	752,404	127,628	329,962	294,813
1920	639,982	168,597	146,907	324,478	1932	690,134	104,288	299,029	286,817
1921	612,251	143,228	158,336	310,687	1933	710,668	104,699	326,093	279,876
1922	646,816	151,709	169,597	325,510	1934[1]	751,113	111,948	357,541	281,633
1923	689,036	159,753	200,395	328,889					

[1] Estimated by the Tobacco Division, Bureau of Foreign and Domestic Commerce, from manufactures on which United States tax was collected.

Source of tables 786 to 788: Reports of the Commissioner of Internal Revenue, Treasury Department.

No. 789.—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 to 46,763,410 cigars in 1934. Large cigars 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	221,865	31,140	7,087,530	1,053,654	15,695	14,802,416
1916–1920	456,584	159,809	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
1926–1930	389,244	99,470	8,374	5,821	235,421	40,159	6,360,650	414,044	10,479	109,361,216
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	381,200	96,744	8,188	5,556	229,585	41,127	6,518,533	419,880	9,952	122,392,381
1930	371,766	86,274	7,624	5,089	232,013	40,766	5,893,890	383,070	7,367	123,802,186
1931	371,237	76,653	6,377	4,170	244,182	39,854	5,347,921	338,997	5,160	117,062,504
1932	347,279	61,945	4,918	3,354	241,067	35,994	4,382,723	278,749	3,374	106,632,434
1933	342,113	61,361	5,042	3,120	236,491	36,098	4,300,045	209,515	[2] 2,846	114,874,217
1934 [2]	344,267				[3] 307,103	37,164	4,597,193	221,411	88,171	125,611,680

State	Number of factories Jan. 1, 1934, making—			Production in 1933 (calendar year)				
	Tobacco and snuff [4]	Cigars	Cigarettes	Tobacco and snuff (1,000 pounds)	Cigars (thousands)		Cigarettes (thousands)	
					Large	Small	Large	Small
Total	**765**	**5,473**	**111**	**342,113**	**4,300,045**	**209,515**	**2,846**	**114,874,217**
California	25	184	12	162	45,139	29	4	3,746,676
Connecticut	11	135	1	50	22,931			13
Florida	4	249	3	4	465,886			540
Illinois	95	613	4	29,758	31,883		14	32,412
Indiana	34	118		187	65,262			
Kentucky	40	33	3	34,175	211,011			9,378,125
Louisiana	1	23	1	75	42,336			487
Massachusetts	27	315	9	360	44,585		3	9,907
Michigan	27	151	4	8,228	195,897			7,953
Minnesota	23	108		52	15,275			
Missouri	12	116	2	34,282	23,492			24,673
New Hampshire	2	65		2	45,408			
New Jersey	17	158	4	7,194	443,346	153		4,895,659
New York	144	1,145	45	2,246	266,415	4,831	1,190	329,619
North Carolina	12	13	6	119,856	22,182	20,860	1,053	63,358,139
Ohio	71	349		49,293	213,616	1,852		
Pennsylvania	89	833	8	5,280	1,615,638	9,910	581	257,239
Tennessee	17	16		18,395	3,602			
Virginia	7	23	7	21,659	150,238	171,710	1	32,827,040
West Virginia	6	49	1	8,110	73,071	171		
All other	101	777	1	2,745	302,831			5,736

[1] Twist included with plug prior to 1906.
[2] Estimates based on sale of stamps by collectors' offices.
[3] Includes plug, twist, and fine cut.
[4] Includes only those producing a taxable product, excluding 235 "quasi" manufacturers.

Source: Annual Report of the Commissioner of Internal Revenue.

No. 790.—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 788.

Item	1928	1929	1930	1931	1932	1933	1934
Leaf tobacco consumed in manufacture:							
In registered factories	754,625	796,626	779,806	752,404	690,134	710,668	[1] 751,113
In bond	28,132	13,267	4,175	425	635	1,283	943
Manufactured tobacco imported:							
From Puerto Rico	2,165	2,043	2,261	2,307	1,081	905	903
Other countries [2]	3,263	2,682	2,408	2,458	2,393	2,010	3,353
Exports of manufactured tobacco [3]	42,702	33,293	22,251	16,149	13,501	13,606	16,526
Remaining for consumption	745,483	781,325	766,399	741,445	680,741	701,260	739,787
Per capita consumption—pounds	6.22	6.43	6.22	5.98	5.45	5.58	5.85

[1] See note 1, table 788. [2] Imports for consumption for 1934; for prior years data are general imports.
[3] Includes shipments to Alaska, Hawaii, and Puerto Rico.

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. 791.—PATENTS AND CERTIFICATES OF REGISTRATION ISSUED SINCE INITIATION OF THE PATENT SYSTEM

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

Calendar year or period	Patent applications [1]	Caveats filed [2]	Patents issued				Certificates of registration issued		
			Total	Patents	Designs	Reissues	Total	Trade-marks	Labels and prints
1836–1850 [3]	14,062	4,763	8,387	7,864	340	183			
1851–1860	44,302	9,571	25,087	23,140	1,025	922			
1861–1870	128,763	22,228	85,910	79,612	3,181	3,117	121	121	
1871–1880	206,436	29,350	138,355	125,520	7,535	5,300	10,395	8,017	2,378
1881–1890	352,475	25,012	217,821	207,350	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	81,566	71,159	10,407
1926–1930	459,163		234,857	219,384	13,796	1,677	96,729	83,536	13,193
1901	46,449	1,842	27,373	25,558	1,734	81	2,965	1,928	1,037
1902	49,641	1,851	27,886	27,136	640	110	2,931	2,006	925
1903	50,213	1,771	31,699	31,046	536	117	3,446	2,186	1,260
1904	52,143	1,808	30,934	30,267	557	110	3,569	2,158	1,411
1905	54,971	1,896	30,399	29,784	486	129	5,679	4,490	1,189
1906	56,482	1,885	31,965	31,181	625	159	11,933	10,568	1,365
1907	58,762	1,967	36,620	35,880	589	151	8,860	7,878	982
1908	61,475	2,110	33,682	32,757	757	168	6,029	5,191	838
1909	65,839	1,948	37,421	36,574	687	160	4,824	4,184	640
1910	64,629	970	35,930	35,168	639	123	4,729	4,239	490
1911	69,121		34,084	32,917	1,010	157	5,112	4,205	907
1912	70,976		37,731	36,231	1,342	158	5,896	5,020	876
1913	70,367		35,788	33,941	1,683	164	6,063	5,065	998
1914	70,404		41,850	39,945	1,715	190	7,874	6,817	1,057
1915	70,069		44,934	43,207	1,545	182	7,436	6,262	1,174
1916	71,033		45,927	43,970	1,759	198	8,087	6,791	1,296
1917	70,373		42,760	41,069	1,512	179	6,197	5,339	858
1918	59,615		39,941	38,569	1,207	165	4,912	4,061	851
1919	80,400		38,598	36,872	1,523	203	4,874	4,208	666
1920	86,815		39,882	37,164	2,485	233	11,294	10,282	1,012
1921	93,328		41,401	37,885	3,277	239	13,605	11,654	1,951
1922	88,930		40,297	38,414	1,627	256	14,992	12,793	2,199
1923	79,058		40,787	38,634	1,927	226	16,725	14,845	1,880
1924	80,756		45,500	42,594	2,671	235	17,562	15,749	1,813
1925	84,525		49,540	46,450	2,824	266	[5] 18,682	[5] 16,118	2,564
1926	86,028		47,627	44,750	2,602	275	[5] 21,819	[5] 19,246	2,573
1927	92,018		44,444	41,731	2,387	326	[5] 20,548	[5] 17,649	2,899
1928	92,598		45,899	42,376	3,188	335	[5] 19,084	[5] 16,191	2,893
1929	94,489		48,565	45,284	2,907	374	[5] 18,087	[5] 15,534	2,553
1930	94,030		48,322	45,243	2,712	367	[5] 17,191	[5] 14,916	2,275
1931	84,171		[6] 55,103	[6] 51,771	2,937	395	[5] 15,328	[5] 13,050	2,278
1932	71,517		[6] 56,856	[6] 53,519	2,944	393	[5] 13,196	[5] 11,300	1,896
1933	60,294		[6] 51,563	[6] 48,819	2,411	333	[5] 12,758	[5] 10,805	1,953
1934	61,281		[6] 47,753	[6] 44,461	2,921	371	[5] 16,063	[5] 13,782	2,281

[1] Figures include patents for inventions, designs, and reissues of patents.
[2] Caveat law repealed June 25, 1910.
[3] July 28, 1836, to Dec. 31, 1850.
[4] Registration of labels suspended from May 27, 1891, to June 9, 1896.
[5] Figures include 2,278 renewals in 1925, 4,282 in 1926, 3,063 in 1927, 2,049 in 1928, 1,008 in 1929, 1,665 in 1930, 1,643 in 1931, 1,687 in 1932, 1,665 in 1933, and 2,407 in 1934.
[6] Figures include 5 plant patents in 1931, 46 in 1932, 33 in 1933, and 32 in 1934 issued since the law passed May 23, 1930.

Source: Reports of the Commissioner of Patents.

33.—DISTRIBUTION—WHOLESALE AND RETAIL

No. 792.—WHOLESALE TRADE: SUMMARY FOR THE UNITED STATES

[All money figures in thousands of dollars. Blank spaces indicate that data are not available]

	1929	1933
Number of establishments	169,654	164,170
Net sales	68,950,108	32,151,373
Total expenses	6,135,625	3,710,233
Number of proprietors	90,772	94,487
Number of employees (average)	[1] 1,605,042	1,222,920
Male	1,310,969	[2] 1,003,097
Female	294,073	[2] 219,823
Full-time		1,096,977
Part-time		125,943
Pay roll, total	3,010,130	1,714,109
Full-time		1,654,238
Part-time		59,871
Stocks at end of year	5,246,740	3,013,179
Establishments reporting credit sales:		
Number		111,481
Net sales		22,187,296
Credit sales	[3] 39,012,802	18,274,093
Percent of sales		82.4
Total expenses		2,967,584
Percent of sales		13.4
Establishments reporting distribution of sales:		
Number		134,335
Net sales		26,283,004
To retailers for resale		13,724,812
To home consumers		585,945
To industrial users		7,565,887
Establishments reporting distribution of sales—Con.		
Net sales—Continued.		
To wholesale organizations		4,406,360
WHOLESALE MERCHANTS, BY SIZE OF ESTABLISHMENTS [4]		
Total:		
Number of establishments	76,590	79,032
Net sales	27,231,823	12,079,301
Establishments with net sales—		
Under $50,000:		
Number	23,568	43,447
Net sales	496,774	756,597
$50,000 to $99,999:		
Number	12,586	12,498
Net sales	910,592	881,309
$100,000 to $199,999:		
Number	13,513	10,008
Net sales	1,933,223	1,398,186
$200,000 to $499,999:		
Number	15,049	8,336
Net sales	4,753,321	2,585,661
$500,000 to $999,999:		
Number	6,737	2,916
Net sales	4,677,083	1,997,703
$1,000,000 and over:		
Number	5,147	1,827
Net sales	14,460,830	4,459,845

[1] Total number reported.
[2] Estimated average number.
[3] Total credit sales 1929.
[4] Includes wholesale merchants and importers.

No. 793.—RETAIL TRADE: SUMMARY FOR THE UNITED STATES

[All money figures, except average earnings per full-time employee, in thousands of dollars]

	1929	1933
Number of stores	1,543,158	1,526,119
Net sales	49,114,653	25,037,225
Total expenses	10,372,403	6,501,060
Number of proprietors	1,510,607	1,574,341
Number of employees (average)	4,510,140	3,433,652
Male	3,066,895	2,360,474
Female	1,443,245	1,073,178
Full-time	3,833,581	2,703,325
Part-time	676,559	730,327
Pay roll, total	5,189,670	2,910,445
Full-time	5,028,282	2,664,447
Part-time	161,388	245,998
Average annual earnings per full-time employee	$1,312	$986
Stocks at end of year	7,262,583	3,903,969
Stores reporting credit sales:		
Number of stores	654,196	766,561
Net sales	28,121,171	15,410,601
Credit sales	(1)	6,943,584
Percent of total sales of credit stores	(1)	45
STORES AND SALES, BY SIZE OF BUSINESS		
Total number of stores	1,543,158	1,526,119
Total net sales	49,114,653	25,037,225
Stores with net sales—		
Under $10,000:		
Number	673,686	982,193
Net sales	2,793,016	3,466,797
Stores with net sales—Contd.		
$10,000 to $19,999:		
Number	312,865	260,590
Net sales	4,440,873	3,655,055
$20,000 to $29,999:		
Number	173,458	108,619
Net sales	4,200,105	2,604,287
$30,000 to $49,999:		
Number	176,767	89,175
Net sales	6,748,325	3,341,418
$50,000 to $99,999:		
Number	128,869	55,625
Net sales	8,745,541	3,743,971
$100,000 to $199,999:		
Number	49,497	20,209
Net sales	6,730,586	2,680,627
$200,000 to $299,999:		
Number	12,966	4,535
Net sales	3,121,806	1,082,853
$300,000 to $499,999:		
Number	8,467	2,988
Net sales	3,192,534	1,114,500
$500,000 to $999,999:		
Number	4,524	1,409
Net sales	3,080,040	934,186
$1,000,000 and over:		
Number	2,059	765
Net sales	6,061,841	2,426,450

[1] Data for 1929 not available.

Source of tables 792 and 793: Bureau of the Census, Department of Commerce.

No. 794.—WHOLESALE TRADE: By Type of Establishment, 1929 and 1933

[All money figures in thousands of dollars]

Type of establishment	Number of establishments		Net sales		Full-time employees (average), 1933	Pay roll, 1933		Total expenses, 1933	Stocks on hand (end of year), 1933
	1929 [1]	1933	1929 [1]	1933		Total	Part-time		
Total	**169,654**	**164,170**	**68,950,108**	**32,151,373**	**1,096,977**	**1,714,109**	**59,871**	**3,710,233**	**3,013,179**
Wholesalers proper [2]	79,784	82,865	29,288,220	12,997,276	637,052	926,937	30,818	1,948,513	1,982,758
Wholesale merchants	74,476	76,856	25,370,795	11,302,947	600,847	861,501	29,104	1,791,392	1,737,102
Exporters	754	453	1,507,824	558,147	4,239	9,007	622	34,131	105,950
Importers	2,262	2,176	1,808,524	776,354	18,847	36,234	456	81,461	123,950
Limited function wholesalers	2,292	3,380	601,077	359,828	13,119	20,195	636	41,529	15,756
Manufacturers' sales branches [3]	17,086	16,873	16,335,917	7,557,363	232,829	426,284	6,540	942,251	550,345
With stocks	(4)	12,444	(4)	5,144,688	193,177	337,119	5,185	764,670	549,912
Without stocks	(4)	4,429	(4)	2,412,675	39,652	89,165	1,355	177,581	433
Bulk tank stations [5]	19,611	26,190	2,390,213	1,888,675	95,962	153,060	2,141	372,990	138,574
Chain store warehouses	559	462	1,929,681	1,431,563	18,450	28,383	518	64,767	66,204
Assemblers and country buyers	34,226	23,962	4,749,382	1,774,121	61,906	77,616	15,794	173,825	223,141
Assemblers of farm products	21,884	11,283	2,304,230	718,588	28,106	35,021	10,187	77,757	124,906
Cooperative marketing associations [2]	4,208	2,732	1,458,366	686,072	20,911	28,555	4,631	65,726	49,076
Cream stations	(4)	2,860	(4)	31,459	2,736	2,259	152	4,893	747
Elevators [6]	8,134	7,087	986,786	338,002	10,153	11,781	824	25,449	48,412
Agents and brokers	18,388	13,818	14,256,695	6,502,375	50,778	101,829	4,060	207,887	52,157
Brokers	3,689	3,414	4,037,944	2,088,370	8,242	16,543	557	34,536	6,584
Commission merchants	3,479	3,128	4,694,934	2,224,864	17,744	35,922	1,444	72,011	22,388
Export agents	260	240	398,559	135,126	1,641	2,372	60	5,736	1,406
Import agents	85	179	57,158	50,541	423	826	23	3,230	1,558
Manufacturers' agents	6,987	4,972	1,775,355	573,964	10,362	18,631	813	38,901	9,994
Selling agents	3,260	1,235	2,622,663	988,401	8,446	20,883	411	41,357	9,371
Other agents	628	650	670,082	441,109	3,920	6,652	752	12,116	856

[1] Revised figures. The data previously issued include a number of concerns dealing in grain and petroleum and its products that were erroneously reported and classified in the wholesale census.
[2] The 1929 data have been corrected for certain changes in classification.
[3] For comparison purposes, wholesaling manufacturers and district and general sales offices, except those dealing in petroleum and its products, have been included in manufacturers' sales branches, 1929.
[4] 1929 equivalent not available.
[5] Figures for 1929 include district and general sales offices dealing in petroleum and its products.
[6] Figures for 1933 include 1,438 cooperative elevators with net sales amounting to $88,193,000.

Source: Bureau of the Census, Department of Commerce.

No. 795.—WHOLESALE TRADE: By Kind of Business, 1929 and 1933

[All money figures in thousands of dollars]

Kind of business	Number of establishments		Net sales		Full-time employees (average), 1933	Pay roll, 1933	
	1929 [1]	1933	1929 [1]	1933		Total	Part time
Total	**169,654**	**164,170**	**68,950,108**	**32,151,373**	**1,096,977**	**1,714,109**	**59,871**
Amusement and sporting goods	**1,446**	**1,552**	**485,400**	**271,888**	**14,443**	**24,391**	**564**
Cameras and motion picture equipment and supplies	158	87	80,844	32,362	997	1,747	19
Moving-picture films	558	446	243,417	159,923	7,665	14,505	263
Sporting goods (general line)	281	201	74,128	23,928	2,140	2,805	38
Toys, novelties, and fireworks	272	506	49,214	32,652	2,218	3,018	102
All other	177	312	37,797	23,023	1,423	2,316	142
Automotive products	**4,600**	**6,304**	**2,255,525**	**874,269**	**54,106**	**82,094**	**1,032**
Automobiles and other motor vehicles	743	657	1,226,347	249,975	12,966	19,842	211
Automotive equipment (including accessories and parts)	3,202	4,730	642,574	323,360	31,935	43,815	653
Tires and tubes	655	917	386,604	300,934	9,205	18,437	168
Chemicals	**2,233**	**2,473**	**1,193,603**	**652,597**	**22,613**	**44,216**	**522**
Dyestuffs	79	100	48,700	45,387	1,424	3,879	11
Explosives	118	101	107,252	25,024	866	2,187	46
Industrial chemicals	549	382	493,049	271,857	5,029	11,718	79
Naval stores	65	54	93,523	39,865	430	793	25
Paints and varnishes	1,027	1,221	304,999	166,177	11,278	18,325	285
All other	395	615	146,080	104,287	3,586	7,314	76

[1] Revised figures. See note 1, table 794.

No. 795.—WHOLESALE TRADE: BY KIND OF BUSINESS, 1929 AND 1933—Continued

[All money figures in thousands of dollars]

Kind of business	Number of establishments		Net sales		Full-time employees (average), 1933	Pay roll, 1933	
	1929 [1]	1933	1929 [1]	1933		Total	Part-time
Clothing and furnishings	5,519	4,376	2,180,859	996,304	30,298	52,306	1,349
Clothing and furnishings (general line)	425	282	133,730	55,827	1,333	1,995	102
Clothing, men's and boys'	569	478	214,264	77,029	2,443	4,294	105
Clothing, women's and children's	989	978	312,790	263,806	7,052	12,724	463
Furnishings (general line)	313	275	115,334	53,099	1,806	2,970	46
Furnishings, men's and boys'	697	691	207,979	106,853	4,316	7,525	241
Furnishings, women's and children's	317	338	104,961	34,135	1,511	2,473	95
Hosiery	420	361	300,635	131,592	2,063	4,489	72
Millinery and millinery supplies	489	475	116,023	46,840	2,496	3,401	98
Shoes and other footwear	756	498	560,673	227,323	7,278	12,435	127
All other	544	[2]	114,470	[2]	[2]	[2]	[2]
Coal	1,343	1,382	1,160,290	631,958	12,316	24,135	1,138
Drugs and drug sundries	1,713	1,562	844,419	523,392	25,158	39,418	455
Drugs (general line)	638	406	575,100	344,482	15,196	21,514	255
Drugs (specialty lines)	308	358	73,332	79,875	4,714	8,806	45
Toilet articles and preparations	303	380	96,334	47,933	2,965	5,637	99
All other	464	418	99,653	51,102	2,283	3,961	56
Dry goods	5,180	4,795	3,802,868	2,242,392	47,394	87,529	988
Dry goods (general line)	1,071	631	889,508	444,758	16,014	23,802	236
Knit goods	257	429	72,707	105,095	3,353	5,725	107
Notions	996	874	166,286	120,922	6,730	9,725	132
Piece goods	2,696	2,284	2,624,281	1,515,383	19,678	44,850	451
All other	160	577	50,106	55,234	1,619	3,427	62
Electrical goods	3,870	3,232	2,435,149	705,411	37,341	61,848	806
Electrical appliances, equipment and supplies	2,892	2,511	1,839,236	557,991	29,268	48,393	647
Radios and radio equipment	806	533	491,621	83,224	3,658	6,090	101
Refrigerators	172	188	104,292	64,196	4,415	7,365	58
Farm products—raw materials	29,612	16,799	11,716,453	3,376,211	45,501	71,344	6,684
Cotton	5,234	2,115	3,061,610	895,183	6,079	10,482	391
Grain	12,198	9,201	3,791,665	1,197,151	18,787	27,225	1,670
Hides, skins, and furs (raw)	1,508	1,238	524,087	166,525	2,962	5,351	372
Livestock, including horses and mules	7,540	2,811	3,209,293	1,019,794	6,524	11,046	821
Silk (raw)	33	22	170,946	72,969	240	953	1
Tobacco (leaf)	1,003	820	469,142	277,885	8,343	11,227	3,215
Wool and mohair	403	264	334,061	187,279	1,896	4,185	102
All other	1,693	328	155,649	59,425	670	875	112
Farm products—consumer goods	20,896	23,664	5,808,111	3,178,427	134,056	182,243	16,997
Dairy products (general line)	736	1,733	474,880	299,366	28,260	38,004	880
Butter	367	354	339,330	36,795	1,263	1,556	90
Cheese		366		90,968	1,958	3,425	77
Milk and cream	797	3,740	242,994	115,357	9,172	11,127	284
All other dairy products	281	566	66,977	78,217	7,250	10,630	256
Poultry and poultry products	3,830	3,662	760,795	316,437	11,645	13,839	1,374
Dairy and poultry products	3,691	3,810	670,160	456,796	16,522	22,532	1,077
Fruits and vegetables (fresh)	11,194	9,083	3,252,975	1,733,284	55,418	79,032	12,685
All other	[2]	350	[2]	51,207	2,568	2,098	274
Farm supplies	1,973	2,467	898,273	363,771	17,060	21,859	1,014
Feed	1,284	1,533	571,068	169,508	7,021	8,821	489
Fertilizer	279	363	187,470	103,311	3,255	4,430	131
Seeds	316	452	116,062	67,028	5,840	7,199	341
All other	94	119	23,673	23,924	944	1,409	53
Furniture and house furnishings	2,977	2,784	994,052	354,626	18,660	29,484	954
China, glassware and crockery	411	320	86,777	35,875	1,797	2,978	50
Floor coverings	463	395	323,075	126,228	3,339	6,601	105
Furniture	1,146	730	344,630	82,630	5,133	7,856	298
House furnishings (except as specified)	779	1,223	181,328	94,850	6,220	8,679	475
Musical instruments and sheet music	178	116	58,242	15,043	2,171	3,360	26
General merchandise	370	193	596,066	243,319	6,284	8,654	177
Groceries and foods (except farm products)	22,006	23,847	13,239,533	7,574,961	221,609	327,205	8,113
Groceries (general line)	6,900	4,025	5,203,417	2,576,506	68,344	97,109	1,866
Confectionery and soft drinks	2,959	3,836	356,242	282,257	17,336	22,558	803
Fish and sea foods	1,448	1,880	243,682	166,585	10,144	13,841	1,229
Meats and meat products	3,605	3,225	3,102,286	1,112,114	39,007	56,957	1,050
Other food and grocery specialties	7,094	10,881	4,333,906	3,437,499	86,778	136,740	3,105
Hardware	1,789	1,495	866,158	394,180	30,110	42,117	557
Hardware (general line)	1,227	744	754,594	309,994	25,346	34,662	441
Hardware (specialty lines)	562	751	111,564	84,186	4,764	7,455	116
Jewelry and optical goods	2,365	2,073	494,581	148,752	11,145	17,010	317
Jewelry (general line)	1,098	730	192,764	54,909	3,261	5,073	169
Clocks and watches	140	163	66,664	18,824	845	1,606	12
Diamonds and other precious stones	497	243	124,798	15,311	440	726	25
Other jewelry specialties	190	422	65,863	27,604	1,766	2,781	75
Optical goods	440	515	44,492	32,104	4,833	6,824	36

[1] Revised figures. See note 1 table 794.

[2] Comparable data not available.

No. 795.—Wholesale Trade: By Kind of Business, 1929 and 1933—Continued

[All money figures in thousands of dollars]

Kind of business	Number of establishments		Net sales		Full-time employees (average), 1933	Pay roll, 1933	
	1929 [1]	1933	1929 [1]	1933		Total	Part-time
Lumber and building materials (other than metal)	5,513	3,721	2,144,052	522,075	28,738	47,366	3,596
Lumber and millwork	2,291	1,508	1,134,206	215,355	10,192	15,408	1,149
Asbestos products	124	101	75,610	26,535	1,149	2,559	93
Brick and tile	428	236	98,855	25,174	1,090	2,380	135
Cement	158	198	142,726	39,766	1,561	3,613	159
Glass	254	396	89,449	76,998	3,783	6,509	788
All other	2,258	1,282	603,206	138,247	10,963	16,897	1,272
Machinery, equipment, and supplies (except electrical)	11,855	11,449	3,058,130	1,264,855	84,159	139,886	4,199
Commercial machinery, equipment, etc.	1,804	2,008	250,929	126,013	15,276	22,410	386
Office equipment and supplies (except furniture)	589	942	72,521	73,873	10,500	15,283	135
All other	1,215	1,066	178,408	52,140	4,776	7,127	251
Construction machinery, equipment, etc.	498	592	132,690	53,275	3,633	6,052	150
Farm and dairy machinery and equipment	560	800	385,838	117,178	10,798	15,915	417
Industrial machinery, equipment, etc.	6,142	5,021	1,648,880	671,384	33,719	59,739	2,363
Machine tools	297	149	102,160	25,511	747	1,397	88
Mill and mine supplies (general line)	1,418	1,346	410,973	184,398	11,472	18,197	864
All other	4,427	3,526	1,135,747	461,475	21,500	40,145	1,411
Professional equipment and supplies	1,000	1,078	207,816	119,266	10,214	15,230	507
Service equipment and supplies	1,439	1,445	201,098	101,728	9,077	14,487	222
Barber and beauty parlor equipment and supplies	582	629	50,443	27,020	3,210	4,157	66
Other service equipment and supplies	857	816	150,655	74,708	5,867	10,330	156
Transportation equipment and supplies	412	505	230,879	76,011	1,442	6,053	154
Railroad equipment and supplies	257	240	201,942	42,431	892	3,519	95
All other	155	265	28,937	33,580	550	2,534	59
Metals (except scrap)	2,277	1,935	4,439,810	1,231,814	19,682	40,055	1,825
Iron and steel	1,643	1,315	2,839,964	919,899	14,225	27,603	1,507
Sheet metal products	253	175	202,459	34,734	1,650	2,646	224
Other metal and metal works	381	495	1,397,387	277,181	3,807	9,806	94
Paper and its products	3,103	2,851	1,132,583	600,526	29,322	50,151	779
Paper and its products (general line)	1,568	769	679,014	309,356	14,283	24,976	329
Paper and its products (specialty lines)	584	1,277	307,813	238,637	9,666	17,921	242
Stationery and stationery supplies	719	479	113,568	37,677	3,732	4,998	101
Wall paper	232	326	32,188	14,856	1,641	2,256	107
Petroleum and its products	23,007	28,455	3,233,663	2,292,960	108,979	173,813	2,630
Plumbing and heating equipment and supplies	2,786	2,249	819,667	265,167	18,617	29,756	843
Heating equipment (general line)	397	227	73,808	17,034	1,184	2,050	55
Pipe, valves, and fittings	217	120	86,359	18,530	1,089	1,857	57
Plumbing and heating equipment (general line)	1,607	1,011	540,323	140,487	11,139	16,494	481
All other	565	891	119,177	89,116	5,205	9,355	250
Tobacco and its products (except leaf)	2,018	1,988	1,891,173	1,263,418	15,533	25,201	270
Waste materials	4,000	3,417	552,280	282,802	12,683	13,131	1,255
Iron and steel scrap	644	760	258,794	65,801	3,324	4,150	394
Junk and scrap (general line)	3,083	1,929	234,082	175,340	5,287	5,157	644
Waste paper, rags, and rubber	273	728	59,404	41,461	4,072	3,824	217
All other products	7,205	9,057	2,907,410	1,395,498	51,170	78,917	2,807
Bags and bagging	162	213	66,680	37,657	2,329	2,118	86
Beer	[2]	2,384	[2]	132,104	5,407	7,945	412
Books and periodicals	408	191	169,429	37,123	3,631	6,493	157
Cordage and twine	105	78	54,281	28,558	612	1,250	8
Flowers and nursery stock	633	725	71,331	29,516	2,641	3,215	142
Forest products (except lumber)	1,020	606	205,420	102,437	2,837	5,141	376
Leather	559	430	288,752	113,331	2,068	4,016	40
Leather goods	993	792	168,479	49,930	3,022	4,468	156
Newspapers and magazines	228	718	33,612	125,252	10,744	18,650	367
Oils and greases (animal and vegetable)	171	165	316,791	121,730	2,495	3,279	25
Rubber, crude	49	36	240,611	33,244	232	565	------
Rubber goods (general line)	92	92	121,220	38,048	2,194	937	13
Wines and spiritous liquors	77	767	20,913	87,369	2,247	3,797	90
Yarn	285	175	395,379	160,777	977	2,279	86
Miscellaneous kinds of business	2,423	1,685	754,512	298,422	9,734	14,764	849

[1] Revised figures. See note 1, table 794.
[2] Comparable data not available.

Source: Bureau of the Census, Department of Commerce.

No. 796.—WHOLESALE TRADE: SUMMARY BY STATES, 1929 AND 1933

[All money figures in thousands of dollars]

Division and State	Number of establishments		Net sales		Number of employees (average), 1933		Salaries and wages, 1933		Stocks on hand (end of year), 1933
	1929	1933	1929	1933	Full time	Part time	Full time	Part time	
United States	169,654	164,170	68,950,108	32,151,373	1,096,977	125,943	1,654,238	59,871	3,013,179
New England	9,793	8,633	4,195,261	2,144,258	73,699	5,346	117,175	3,120	206,248
Connecticut	1,369	1,412	520,551	336,829	13,721	1,062	20,779	645	49,573
Maine	987	864	189,975	109,495	5,460	636	7,532	293	13,699
Massachusetts	6,066	5,144	3,065,856	1,469,407	45,174	3,030	75,540	1,867	118,669
New Hampshire	326	334	61,414	38,074	2,073	171	2,820	75	3,844
Rhode Island	737	579	300,072	148,702	5,252	313	7,824	170	15,382
Vermont	308	300	57,393	41,751	2,019	134	2,680	70	5,081
Middle Atlantic	38,197	34,304	23,390,807	11,085,704	293,235	16,594	509,842	10,958	822,170
New Jersey	2,344	2,700	1,008,881	561,537	23,380	1,605	35,671	942	61,752
New York	25,311	21,899	17,604,634	8,333,836	194,591	9,283	361,256	6,860	590,737
Pennsylvania	10,542	9,705	4,777,292	2,190,331	75,264	5,706	112,915	3,156	169,681
East North Central	32,185	34,557	14,028,413	6,244,308	230,202	21,627	351,087	10,666	503,719
Illinois	11,587	11,924	6,861,067	2,816,346	89,344	7,501	145,943	4,231	195,134
Indiana	3,734	4,240	921,561	425,743	19,061	2,277	25,637	943	38,740
Michigan	5,272	5,803	2,172,409	896,582	35,203	3,578	51,588	1,421	75,833
Ohio	8,077	8,317	3,094,100	1,563,854	62,752	5,319	93,884	2,686	128,326
Wisconsin	3,515	4,273	979,276	541,783	23,842	2,852	34,035	1,385	65,686
West North Central	28,953	29,166	8,577,122	3,697,515	133,139	14,851	182,169	6,167	390,002
Iowa	4,954	5,252	1,057,006	464,433	19,376	2,809	24,214	1,179	39,911
Kansas	4,322	5,012	888,677	299,123	12,896	2,214	16,131	822	34,922
Minnesota	5,521	5,184	1,716,944	913,298	29,389	2,814	41,408	1,325	112,353
Missouri	6,674	6,107	3,361,721	1,444,356	49,522	3,921	71,967	1,726	144,389
Nebraska	2,890	3,419	1,054,064	408,476	13,558	2,030	17,696	720	32,058
North Dakota	2,619	2,436	262,430	93,990	4,346	510	5,633	188	14,707
South Dakota	1,973	1,756	236,280	73,839	4,052	553	5,120	207	11,662
South Atlantic	15,652	14,590	4,657,675	2,517,203	99,940	21,777	129,175	7,360	275,069
Delaware	286	259	118,086	59,182	1,783	245	3,147	97	7,235
District of Columbia	496	575	261,083	179,077	7,444	188	10,897	92	11,527
Florida	2,054	2,051	466,535	280,305	15,446	5,402	17,377	1,794	22,368
Georgia	3,183	2,275	1,016,496	429,242	15,244	1,646	20,589	470	57,442
Maryland	2,205	2,251	741,367	419,522	17,788	3,121	22,639	1,021	35,838
North Carolina	2,413	2,367	717,432	423,127	13,411	4,675	16,618	1,542	54,568
South Carolina	1,539	1,242	333,528	172,062	4,936	655	6,193	200	12,761
Virginia	2,344	2,382	656,309	359,784	16,232	5,226	20,413	1,824	53,992
West Virginia	1,132	1,188	346,839	194,902	7,656	719	11,302	320	19,338
East South Central	7,739	6,825	2,550,847	1,015,974	43,630	7,186	52,980	2,627	150,906
Alabama	1,743	1,603	574,145	209,397	9,525	1,059	12,144	366	31,945
Kentucky	2,027	2,007	522,495	272,895	13,017	3,047	15,246	1,318	54,113
Mississippi	1,713	1,248	385,226	143,240	5,023	1,045	5,955	291	13,442
Tennessee	2,256	1,967	1,068,981	390,442	16,065	2,035	19,635	652	51,406
West South Central	17,566	15,096	4,787,187	1,987,060	76,316	9,542	99,972	3,653	288,267
Arkansas	2,052	1,294	373,074	121,504	6,118	825	7,506	281	15,896
Louisiana	1,729	2,097	836,197	455,321	17,962	1,486	22,870	515	78,257
Oklahoma	4,179	4,180	773,398	312,835	12,908	1,883	17,256	742	34,012
Texas	9,606	7,525	2,804,518	1,097,400	39,328	5,348	52,340	2,115	160,102
Mountain	5,788	5,900	1,176,215	562,690	25,774	4,097	35,444	1,935	65,374
Arizona	358	476	97,554	49,795	2,260	727	3,319	381	4,983
Colorado	2,075	1,823	539,626	239,035	10,976	1,135	14,849	531	23,358
Idaho	674	768	98,462	50,689	2,078	990	2,814	443	6,124
Montana	1,249	1,242	158,545	79,441	3,312	473	4,653	247	12,499
Nevada	96	141	13,719	9,963	436	73	720	36	1,100
New Mexico	317	448	53,547	27,892	1,293	164	1,876	61	4,151
Utah	736	653	180,101	86,758	4,572	432	5,999	185	10,475
Wyoming	283	349	34,661	19,117	847	103	1,214	51	2,684
Pacific	13,781	15,099	5,586,581	2,896,661	121,042	24,923	176,394	13,385	311,424
California	9,751	11,052	4,159,323	2,255,256	92,049	20,244	134,835	11,005	236,371
Oregon	1,439	1,333	466,831	202,146	9,705	1,200	13,868	643	26,402
Washington	2,591	2,714	960,427	439,259	19,288	3,479	27,691	1,737	48,651

Source: Bureau of the Census, Department of Commerce.

No. 797.—WHOLESALE TRADE OF INDIVIDUAL CITIES OF 100,000 OR MORE INHABITANTS: 1933

[Net sales in thousands of dollars]

City	Number of establishments	Number of full-time employees (average)	Net sales	City	Number of establishments	Number of full-time employees (average)	Net sales
Total for principal cities	**73,879**	**739,840**	**24,200,854**	Nashville, Tenn	300	3,038	76,714
Akron, Ohio	272	4,189	125,635	Newark, N. J	759	8,563	211,197
Albany, N. Y	303	2,864	85,675	New Bedford, Mass	126	670	15,484
Atlanta, Ga	642	7,543	216,235	New Haven, Conn	298	2,959	67,892
Baltimore, Md	1,610	15,149	365,392	New Orleans, La	871	11,259	323,452
Birmingham, Ala	417	3,908	81,965	New York City (Greater New York)	16,836	154,714	7,376,091
Boston, Mass	2,866	26,459	1,004,899	Bronx Borough	567	4,487	150,087
Bridgeport, Conn	212	2,368	59,852	Brooklyn Borough	1,418	10,869	284,763
Buffalo, N. Y	913	10,331	262,650	Manhattan Borough	14,520	134,085	6,811,486
Cambridge, Mass	62	1,631	30,675	Queens Borough	266	4,935	124,312
Camden, N. J	119	895	14,841	Richmond Borough	65	339	5,443
Canton, Ohio	128	1,005	20,906	Norfolk, Va	324	2,711	82,933
Chattanooga, Tenn	156	1,301	29,643	Oakland, Calif	469	3,924	74,647
Chicago, Ill	6,108	70,294	2,315,720	Oklahoma City, Okla	397	3,569	89,195
Cincinnati, Ohio	1,258	12,784	341,343	Omaha, Nebr	647	7,338	275,508
Cleveland, Ohio	2,015	18,362	526,606	Paterson, N. J	189	1,174	34,224
Columbus, Ohio	411	4,922	111,108	Peoria, Ill	251	1,860	53,795
Dallas, Tex	711	7,566	319,172	Philadelphia, Pa	3,418	33,980	1,047,178
Dayton, Ohio	263	2,435	49,390	Pittsburgh, Pa	1,370	14,732	569,721
Denver, Colo	695	7,710	182,285	Portland, Oreg	715	6,842	149,044
Des Moines, Iowa	296	3,457	75,179	Providence, R. I	412	4,125	115,062
Detroit, Mich	2,175	20,890	613,854	Reading, Pa	177	1,283	32,950
Duluth, Minn	169	2,540	62,782	Richmond, Va	401	4,737	103,989
Elizabeth, N. J	91	400	15,835	Rochester, N. Y	502	4,339	120,324
El Paso, Tex	187	1,424	30,381	St. Louis, Mo	1,890	26,737	721,735
Erie, Pa	146	832	13,824	St. Paul, Minn	439	6,143	106,878
Evansville, Ind	142	1,166	30,288	Salt Lake City, Utah	365	3,535	60,629
Fall River, Mass	142	865	23,590	San Antonio, Tex	366	3,302	58,063
Flint, Mich	133	1,001	22,209	San Diego, Calif	249	2,366	40,935
Fort Wayne, Ind	184	1,690	30,500	San Francisco, Calif	2,696	25,385	911,747
Fort Worth, Tex	250	2,432	81,878	Scranton, Pa	247	2,178	63,116
Gary, Ind	58	359	6,272	Seattle, Wash	1,070	9,602	226,155
Grand Rapids, Mich	306	2,164	54,066	Somerville, Mass	38	1,158	86,054
Hartford, Conn	283	3,179	49,391	South Bend, Ind	126	872	14,064
Houston, Tex	617	7,167	211,610	Spokane, Wash	240	2,185	44,978
Indianapolis, Ind	598	6,417	188,575	Springfield, Mass	296	2,956	72,565
Jacksonville, Fla	268	2,914	74,749	Syracuse, N. Y	285	2,777	72,931
Jersey City, N. J	157	2,023	61,935	Tacoma, Wash	177	1,663	30,953
Kansas City, Kans	69	1,225	28,475	Tampa, Fla	250	2,195	49,324
Kansas City, Mo	1,271	13,023	513,310	Toledo, Ohio	428	4,549	109,342
Knoxville, Tenn	143	1,301	27,045	Trenton, N. J	129	1,134	20,619
Long Beach, Calif	172	935	16,495	Tulsa, Okla	375	2,244	54,706
Los Angeles, Calif	3,531	28,745	660,419	Utica, N. Y	142	1,078	25,856
Louisville, Ky	482	6,261	127,251	Washington, D. C	575	7,444	179,077
Lowell, Mass	93	495	9,843	Wichita, Kans	299	2,282	63,899
Lynn, Mass	104	626	9,862	Wilmington, Del	157	1,541	52,643
Memphis, Tenn	408	6,843	178,895	Worcester, Mass	222	2,093	45,228
Miami, Fla	237	1,702	34,764	Yonkers, N. Y	82	761	15,539
Milwaukee, Wis	1,210	12,942	301,526	Youngstown, Ohio	198	1,858	36,904
Minneapolis, Minn	993	13,250	518,579				

Source: Bureau of the Census, Department of Commerce.

No. 798.—RETAIL TRADE: By States, 1929 and 1933

[All money figures in thousands of dollars]

Division and State	Number of stores		Net sales		Proprietors and firm members	Full-time employees (average)		Total pay roll (full time and part time)	
	1929	1933	1929	1933	1933	1929	1933	1929	1933
United States	1,543,158	1,526,119	49,114,653	25,037,225	1,574,341	3,833,581	2,703,325	5,189,670	2,910,445
New England	108,764	105,846	3,785,869	2,167,760	100,130	310,275	232,747	422,040	268,852
Connecticut	22,202	22,047	768,510	430,526	20,619	58,934	44,508	87,196	53,485
Maine	11,091	11,429	307,627	184,386	12,104	22,925	17,755	28,012	18,715
Massachusetts	54,183	52,430	2,054,976	1,195,161	47,538	177,214	133,338	241,100	156,224
New Hampshire	6,557	6,368	184,285	111,799	6,518	13,643	10,520	16,786	11,377
Rhode Island	9,542	8,438	318,295	167,288	8,127	27,281	19,080	36,183	21,242
Vermont	5,189	4,934	152,176	78,600	5,224	10,278	7,546	12,763	7,809
Middle Atlantic	385,302	358,489	12,717,899	6,633,819	355,348	957,284	690,588	1,397,727	811,903
New Jersey	60,010	64,190	1,843,545	1,016,928	63,410	126,751	95,939	193,503	119,927
New York	190,017	178,614	7,070,414	3,739,992	173,771	513,434	377,320	792,285	464,707
Pennsylvania	135,275	115,685	3,803,940	1,876,899	118,167	317,099	217,328	411,939	227,269
E. N. Central	317,667	327,771	11,262,958	5,314,073	338,485	877,112	587,762	1,247,467	633,401
Illinois	96,900	98,870	3,711,903	1,728,880	99,827	296,785	198,293	440,280	221,323
Indiana	41,618	41,256	1,222,384	569,972	44,006	100,677	63,665	125,966	63,315
Michigan	55,958	57,121	2,226,398	949,137	59,879	161,245	104,880	241,870	108,969
Ohio	83,717	85,961	2,864,831	1,442,132	88,196	229,870	159,406	318,274	172,264
Wisconsin	39,474	44,563	1,237,442	623,952	46,577	88,535	61,517	121,077	67,530
W. N. Central	170,644	180,307	5,269,554	2,641,958	193,758	401,112	283,928	497,830	281,835
Iowa	32,716	34,643	972,136	479,695	37,323	70,538	49,182	86,094	47,020
Kansas	25,605	26,779	744,586	329,178	29,082	54,605	34,724	66,612	32,813
Minnesota	30,725	33,879	1,051,930	585,102	35,916	81,729	62,195	103,817	64,783
Missouri	47,039	49,247	1,448,220	759,125	53,410	123,694	89,166	153,142	90,182
Nebraska	17,637	19,212	562,945	274,575	20,829	39,780	29,035	49,678	28,343
North Dakota	8,077	7,981	234,540	108,087	8,391	14,297	9,487	17,931	9,301
South Dakota	8,845	8,566	255,197	106,196	8,807	16,469	10,089	20,556	9,393
South Atlantic	169,088	168,200	4,201,755	2,477,028	174,586	355,178	277,813	419,553	263,958
Delaware	3,688	3,420	103,512	57,910	3,200	7,774	5,673	9,842	6,331
Dist. of Col	5,931	6,156	336,262	241,515	5,516	31,453	28,508	44,385	33,681
Florida	22,449	21,697	504,523	288,804	22,383	45,618	33,484	52,749	30,815
Georgia	28,687	26,681	635,440	352,916	28,179	57,554	42,114	60,599	35,763
Maryland	21,082	23,487	619,573	384,384	24,653	53,480	42,724	64,292	45,707
North Carolina	28,831	27,652	653,419	363,111	29,252	49,900	39,181	58,066	35,165
South Carolina	15,030	15,528	300,220	186,215	16,097	24,580	20,218	26,128	16,961
Virginia	26,120	26,451	600,929	368,102	27,350	52,287	41,118	61,386	40,065
West Virginia	17,244	17,128	447,877	244,071	17,956	32,532	24,793	42,106	24,470
E. S. Central	89,199	88,270	2,171,995	1,025,923	89,645	174,772	116,939	193,312	100,843
Alabama	21,442	20,049	527,101	250,384	21,292	43,632	29,962	48,123	23,788
Kentucky	27,117	25,672	587,340	304,605	27,648	46,749	32,503	53,266	30,220
Mississippi	17,256	14,772	413,737	140,855	16,079	29,244	16,906	30,747	13,271
Tennessee	23,384	22,777	643,817	330,079	24,626	55,147	37,568	61,176	33,564
W. S. Central	135,432	132,505	3,727,371	1,751,553	142,382	296,335	204,381	348,243	182,059
Arkansas	17,937	15,918	412,680	180,095	17,965	29,710	18,323	33,034	15,299
Louisiana	23,288	22,239	476,643	264,123	22,808	47,058	36,970	48,982	30,411
Oklahoma	27,339	26,434	795,028	341,774	29,206	59,259	38,008	74,266	34,629
Texas	66,918	67,914	2,043,020	965,561	72,403	160,308	111,080	191,961	101,720
Mountain	44,661	44,301	1,548,650	739,614	47,101	116,018	73,150	155,952	80,163
Arizona	5,068	4,749	198,620	76,250	5,039	14,445	7,344	19,900	8,455
Colorado	13,993	13,700	466,959	233,014	14,583	39,339	25,816	50,731	27,174
Idaho	4,916	5,139	169,087	87,406	5,526	11,313	7,183	15,386	7,940
Montana	6,951	6,732	243,828	112,382	7,184	16,125	10,147	23,317	11,813
Nevada	1,310	1,463	50,401	28,680	1,490	3,108	2,438	5,096	3,317
New Mexico	4,191	4,246	119,759	53,944	4,613	8,596	5,321	10,344	5,351
Utah	5,249	5,103	196,559	91,968	5,169	16,374	9,914	21,509	10,336
Wyoming	2,983	3,169	103,437	55,970	3,497	6,718	4,986	9,669	5,777
Pacific	122,371	125,630	4,428,602	2,285,497	132,908	345,495	236,017	507,546	282,431
California	85,691	89,554	3,210,863	1,692,879	94,310	251,148	176,192	375,948	216,105
Oregon	14,570	13,769	455,931	224,447	15,407	35,579	22,335	48,154	24,064
Washington	22,110	22,307	761,808	368,171	23,189	58,768	37,491	83,444	42,262

Source: Bureau of the Census, Department of Commerce.

No. 799.—RETAIL TRADE BY KIND OF BUSINESS

[All money figures in thousands of dollars]

Kind of business	Number of stores		Net sales		Proprietors	
	1929	1933	1929	1933	1929	1933
UNITED STATES	1,543,158	1,526,119	49,114,653	25,037,225	1,510,607	1,574,341
Food group	481,891	473,916	10,837,421	6,793,010	468,301	493,112
Grocery stores (without meats)	191,876	163,538	3,449,129	1,803,242	171,991	161,216
Combination stores (groceries and meats)	115,549	140,372	3,903,662	3,201,042	113,286	142,881
Meat markets (including sea foods)	49,865	38,344	1,336,958	491,866	51,819	42,155
Candy and confectionery stores	63,265	54,243	571,549	271,213	67,596	60,676
Dairy-products stores (including milk dealers)	11,736	18,092	797,819	498,536	11,455	19,486
Bottled beer and liquor stores		3,767		16,730		4,203
Other food stores	49,600	55,560	778,304	510,381	52,154	62,495
Restaurants and eating places	134,293	200,335	2,124,890	1,429,938	148,948	231,968
Eating places	134,293	170,434	2,124,890	1,324,387	148,948	198,209
Drinking places		29,901		105,551		33,759
Farmers' supplies and country general stores	131,223	107,483	3,689,908	1,560,781	149,707	125,538
Country general stores	104,089	85,839	2,570,744	1,097,437	121,366	103,014
Farmers' supply stores	27,134	21,644	1,119,164	463,344	28,341	22,524
General merchandise group	54,636	[1] 49,703	6,444,101	[1] 3,884,570	47,821	43,665
Department stores (including mail order)	4,221	[1] 3,535	4,350,098	[1] 2,538,258	1,441	783
General merchandise and dry-goods stores	38,305	34,122	1,189,856	668,145	39,037	35,229
Variety stores (5-and-10 and to-a-dollar stores)	12,110	12,046	904,147	678,167	7,343	7,653
Apparel group	114,296	[1] 86,557	4,240,893	[1] 1,930,035	99,613	77,790
Men's and boys' stores	28,197	19,491	1,192,723	489,104	26,354	19,055
Women's ready-to-wear specialty stores	18,253	[1] 17,768	1,087,601	[1] 575,094	15,751	16,501
Family clothing stores	10,551	5,765	552,353	185,371	9,345	5,604
Accessories and other apparel stores	33,036	24,697	601,387	255,874	29,755	22,224
Shoe stores	24,259	18,836	806,829	424,592	18,408	14,406
Automotive group	257,685	305,403	9,615,810	4,419,249	242,800	309,086
Motor-vehicle dealers	45,301	30,646	6,407,512	2,127,720	43,461	33,823
Accessories, tire, and battery dealers	22,313	16,027	599,295	225,970	20,961	15,026
Filling stations	121,513	170,404	1,787,423	1,531,724	100,746	156,451
Garages and repair shops [2]	66,793	86,454	785,001	519,827	75,903	101,175
Other automotive	1,765	1,872	36,579	14,008	1,729	2,011
Furniture and household group	58,941	42,976	2,754,721	958,780	51,962	39,628
Furniture stores	25,153	17,418	1,509,815	553,503	25,427	18,825
Household appliance stores	8,931	[1] 9,761	379,704	[1] 198,662	2,569	4,189
Radio stores	16,037	[1] 8,161	561,772	[1] 113,899	15,531	8,652
Other furniture and household	8,820	7,636	303,430	92,716	8,435	7,957
Lumber, building, and hardware group	90,386	76,098	3,845,624	1,342,705	85,579	72,054
Lumber dealers	26,377	21,015	1,981,284	603,416	17,056	13,286
Hardware stores (including farm-implement dealers)	37,572	32,802	1,224,560	488,486	42,099	36,767
Heating and plumbing stores	12,709	11,307	334,277	123,128	12,959	11,433
Other building (paint, glass, electrical)	13,728	10,974	305,503	127,675	13,465	10,568
Cigar stores and cigar stands	33,248	20,175	410,064	189,756	33,982	20,326
Coal and wood yards—ice dealers	19,118	23,875	1,013,369	623,077	17,729	23,324
Drug stores	58,258	58,407	1,690,399	1,066,252	57,415	57,749
Jewelry stores	19,998	14,313	536,281	175,066	19,982	14,370
News dealers	10,285	6,629	149,866	58,071	8,608	5,749
Other retail stores	63,835	39,380	1,613,238	500,660	62,061	36,919
Second-hand stores	15,065	20,869	148,068	105,275	16,099	23,068

[1] Revised figures.

[2] This classification for 1929 includes 3,379 body, fender, and paint shops, and 2,059 parking stations, parking garages and lots, which are not included in the 1933 total. Figures for those establishments are included in this census in the service division, a new feature of the Census of American Business. The body, fender, and paint shops reported receipts of $46,106,000 in 1929, gave employment to 9,596 full-time, and 1,033 part-time employees, and paid $15,289,000 in salaries and wages; the parking services reported receipts of $39,262,000 and paid $7,442,000 in salaries and wages to 5,015 full-time and 312 part-time employees.

No. 799.—Retail Trade by Kind of Business—Continued

[All money figures in thousands of dollars]

Kind of business	Employees (average)			Pay roll			
	1929, full-time	1933		1929, total	1933		
		Full-time	Part-time		Total	Full-time	Part-time
United States	3,833,581	2,703,325	730,327	5,189,670	2,910,445	2,664,447	245,998
Food group	569,632	504,530	178,455	767,207	593,651	541,932	51,719
Grocery stores (without meats)	143,413	99,015	45,855	183,439	113,590	100,926	12,664
Combination stores (groceries and meats)	193,726	221,225	88,192	254,264	253,174	228,871	24,303
Meat markets (including sea foods)	61,520	35,035	12,517	92,398	44,153	39,712	4,441
Candy and confectionery stores	47,072	21,034	9,527	45,724	18,523	15,725	2,798
Dairy-products stores (including milk dealers)	64,880	66,664	6,242	117,930	100,637	98,554	2,083
Bottled beer and liquor stores	----------	1,238	365	----------	1,361	1,218	143
Other food stores	59,021	60,319	15,757	73,452	62,213	56,926	5,287
Restaurants and eating places	419,994	356,338	73,092	396,075	261,741	239,915	21,826
Eating places	419,994	341,348	67,043	396,075	248,034	228,207	19,827
Drinking places	----------	14,990	6,049	----------	13,707	11,708	1,999
Farmers' supplies and country general stores	154,283	98,478	30,115	176,550	89,838	81,510	8,328
Country general stores	107,023	67,270	21,327	115,511	58,294	53,035	5,259
Farmers' supply stores	47,260	29,208	8,788	61,039	31,544	28,475	3,069
General merchandise group	702,822	[1] 525,444	[1] 159,874	818,930	[1] 533,330	[1] 491,164	[1] 42,666
Department stores (including mail order)	484,975	[1] 364,105	[1] 71,067	620,990	[1] 386,462	[1] 359,977	[1] 26,485
General merchandise and dry-goods stores	89,527	65,390	29,407	102,578	65,483	58,293	7,190
Variety stores (5-and-10 and to-a-dollar stores)	128,320	95,949	59,400	95,362	81,385	72,894	8,991
Apparel group	329,254	[1] 202,331	[1] 62,314	505,353	[1] 245,344	[1] 223,684	[1] 22,160
Men's and boys' stores	67,361	41,853	9,664	123,364	57,858	54,618	3,340
Women's ready-to-wear specialty stores	100,791	[1] 67,149	[1] 17,285	134,582	[1] 72,389	[1] 66,848	[1] 5,541
Family clothing stores	43,555	21,544	5,516	65,086	26,314	24,574	1,740
Accessories and other apparel stores	68,731	37,106	15,741	100,103	43,328	37,036	6,792
Shoe stores	48,816	34,679	14,108	82,218	45,455	41,208	4,247
Automotive group	628,333	432,989	65,383	934,402	464,548	437,701	26,845
Motor-vehicle dealers	343,570	190,691	12,671	549,010	204,818	198,542	6,276
Accessories, tire, and battery dealers	50,886	25,341	3,543	76,104	29,596	28,210	1,386
Filling stations	126,721	143,391	28,421	159,212	151,938	141,903	10,035
Garages and repair shops [3]	104,009	71,904	20,299	145,542	76,216	67,267	8,949
Other automotive	3,147	1,662	449	4,534	1,978	1,779	199
Furniture and household group	249,945	132,071	25,969	404,095	184,833	153,123	11,710
Furniture stores	119,331	66,238	8,356	196,577	84,804	81,005	3,799
Household appliance stores	50,981	[1] 38,011	[1] 10,784	79,507	[1] 44,639	[1] 40,251	[1] 4,388
Radio stores	50,321	[1] 14,432	[1] 3,378	79,996	[1] 17,812	[1] 16,252	[1] 1,560
Other furniture and household	29,312	13,390	3,451	48,015	17,578	15,615	1,963
Lumber, building, and hardware group	289,572	141,679	47,516	468,362	187,058	161,973	25,085
Lumber dealers	134,483	64,613	19,589	222,854	87,222	77,292	9,930
Hardware stores (incl. farm-implement dealers)	73,742	43,396	9,576	108,377	50,580	46,358	4,222
Heating and plumbing stores	46,089	19,015	12,063	80,324	28,716	21,395	7,321
Other building (paint, glass, electrical)	35,258	14,655	6,288	56,807	20,540	16,928	3,612
Cigar stores and cigar stands	27,533	14,797	4,294	34,235	14,293	12,989	1,304
Coal and wood yards—ice dealers	80,218	61,501	20,033	121,347	80,943	69,569	11,374
Drug stores	148,580	116,852	30,699	195,742	126,504	115,100	11,404
Jewelry stores	38,273	20,338	3,489	69,563	29,620	27,983	1,637
News dealers	16,101	9,850	7,241	14,890	7,849	6,678	1,171
Other retail stores	164,213	72,951	14,792	262,756	94,519	87,535	6,984
Second-hand stores	14,828	15,176	7,061	20,163	15,376	13,591	1,785

[1] Revised figures.

[3] See note 2, p. 778.

Source: Bureau of the Census, Department of Commerce.

No. 800.—RETAIL TRADE BY TYPE OF OPERATION: 18 KINDS OF BUSINESS

[All money figures in thousands of dollars]

Kind of business and type of operation	Number of stores, 1933 [1]	Net sales		Number of proprietors, 1933	Full-time employees (average), 1933	Pay roll, 1933	
		1929	1933			Total, including part-time	Part-time only
Total all types	1,526,119	49,114,653	25,037,225	1,574,341	2,703,325	2,910,445	245,998
Independents	1,349,337	38,081,504	17,826,562	1,544,394	1,908,401	1,987,950	181,518
Chains	141,603	9,834,846	6,312,769	3,870	685,207	795,505	56,335
Direct selling (house-to-house)	7,026	93,961	187,368	6,655	36,658	47,247	1,385
Mail-order houses (catalog only)	311	515,237	244,381	199	27,752	24,786	546
Commissaries or company stores	2,719	115,583	95,578	1,415	6,873	8,020	631
Utility-operated stores	4,127	163,371	76,079	123	10,889	16,211	2,865
All other types [1]	20,996	310,151	294,488	17,685	27,545	30,726	2,718
Department stores [2]	3,535	4,350,098	2,538,258	783	364,105	386,482	26,485
Independents	1,428	3,140,287	1,708,445	750	279,979	296,888	16,946
Chains	2,057	725,021	605,722	17	59,517	68,455	9,246
All other types	50	484,790	224,091	16	24,609	21,119	293
Variety, 5-and-10 and to-a-dollar stores [2]	12,046	904,147	678,167	7,653	95,949	81,885	8,991
Independents	6,572	88,340	59,699	7,478	6,336	5,125	912
Chains	5,400	814,762	618,333	102	89,609	76,757	8,079
All other types	74	1,045	135	73	4	3	
Men's and boys' clothing and furnishings stores	19,491	1,192,722	489,104	19,055	41,853	57,853	3,840
Independents	17,599	929,365	374,205	18,799	31,607	42,817	2,973
Chains	1,693	252,354	107,553	96	9,543	14,115	814
All other types	199	11,003	7,346	160	703	926	53
Family clothing stores (men's, women's and children's)	5,765	552,353	185,371	5,604	21,544	26,314	1,740
Independents	5,177	394,707	146,744	5,536	16,711	20,077	1,245
Chains	550	150,739	37,588	37	4,667	6,074	489
All other types	38	6,907	1,039	31	166	163	6
Women's ready-to-wear specialty stores	17,768	1,087,601	575,094	16,501	97,149	72,389	5,541
Independents	15,773	807,811	428,482	16,274	51,634	56,044	4,514
Chains	1,726	246,960	134,255	145	14,309	14,965	833
All other types	269	32,830	12,357	82	1,206	1,380	194
Shoe stores	18,836	806,829	424,592	14,406	34,679	45,455	4,247
Independents	13,386	431,818	197,345	14,108	16,015	20,609	1,841
Chains	4,442	306,216	196,249	124	15,664	21,681	2,016
All other types	1,008	68,795	30,998	174	3,000	3,165	390
Furniture stores	17,418	1,509,815	553,503	18,825	66,238	84,804	3,799
Independents	16,728	1,267,277	468,338	18,700	56,413	71,284	3,598
Chains	570	213,661	78,418	26	8,965	12,308	140
All other types	120	28,877	6,747	99	860	1,212	61
Household appliance stores	9,761	(3)	198,662	4,189	38,010	44,639	4,388
Independents	3,926	(3)	65,880	4,021	8,394	10,796	1,261
Chains	1,355	(3)	42,669	12	13,226	12,291	392
All other types	4,480	(3)	90,113	156	16,390	21,552	2,735
Radio stores	8,161	561,772	113,899	8,652	14,432	17,812	1,560
Independents	7,846	443,974	94,128	8,525	11,940	14,563	1,493
Chains	207	107,279	17,793	19	2,239	2,898	36
All other types	108	10,519	1,978	108	253	351	31
Grocery stores (without meats)	163,538	3,449,129	1,803,242	161,216	99,015	113,590	12,664
Independents	137,852	1,674,805	978,897	159,904	44,272	40,945	4,937
Chains	24,740	1,576,252	811,910	245	53,930	71,808	7,597
All other types	946	198,072	12,435	1,067	813	837	130
Combination stores (groceries and meats)	140,372	3,903,662	3,201,042	142,881	221,225	253,174	24,303
Independents	115,184	2,463,173	1,797,021	142,072	119,852	119,065	11,275
Chains	24,924	1,257,727	1,397,090	483	100,787	133,424	12,999
All other types	264	182,762	6,931	326	586	685	29
Restaurants and eating places [4]	170,434	1,802,913	1,324,387	198,209	341,348	243,034	19,827
Independents	166,596	1,551,912	1,122,882	197,684	280,814	200,068	17,774
Chains	3,377	245,788	196,800	161	59,457	46,943	1,902
All other types	461	5,213	4,705	364	1,077	1,023	151
Cigar stores and cigar stands	20,175	410,064	189,756	20,326	14,797	14,293	1,304
Independents	18,278	301,328	123,521	20,146	9,594	9,463	1,235
Chains	1,713	102,980	64,396	50	4,990	4,650	58
All other types	184	5,756	1,839	130	213	180	11
Motor-vehicle dealers	30,646	(3)	2,127,720	33,833	190,691	204,818	6,276
Independents	30,219	(3)	2,013,692	33,792	180,273	190,660	6,043
Chains	409	(3)	112,703	21	10,306	14,019	232
All other types	18	(3)	1,325	10	112	139	1

For footnotes, see next page.

No. 800.—Retail Trade by Type of Operation: 18 Kinds of Business—Continued

[All money figures in thousands of dollars]

Kind of business and type of operation	Number of stores, 1933	Net sales		Number of proprietors, 1933	Full-time employees (average), 1933	Pay roll, 1933	
		1929	1933			Total, including part-time	Part-time only
Filling stations	170,404	1,787,423	1,531,724	156,451	143,395	151,938	10,035
Independents	134,239	1,113,012	984,867	155,734	68,868	65,202	7,508
Chains	36,026	605,204	543,682	647	74,226	86,382	2,513
All other types	139	69,207	3,175	70	301	354	14
Drug stores	58,407	1,690,399	1,066,252	57,749	116,852	126,504	11,404
Independents	53,341	1,371,986	788,568	56,433	83,158	91,524	10,669
Chains	3,760	312,451	267,299	140	31,564	32,816	500
All other types	1,306	5,962	10,385	1,176	2,130	2,164	235
Hardware stores [5]	32,802	706,053	488,436	36,767	43,396	50,580	4,222
Independents	32,234	667,829	467,167	36,711	40,904	47,452	4,128
Chains	536	21,141	19,894	46	2,399	3,006	89
All other types	32	17,083	1,425	10	93	122	5
Jewelry stores	14,313	536,280	175,066	14,370	20,338	29,620	1,637
Independents	14,050	498,602	163,886	14,289	18,780	27,497	1,605
Chains	191	34,246	10,359	11	1,454	1,975	26
All other types	72	3,432	821	70	104	148	6
All other kinds of business [6]	612,247	23,863,393	7,372,900	656,881	768,309	900,276	93,735

[1] Includes leased departments, market and roadside stands, itinerant vendors and rolling stores, cooperatives, a few retailer-wholesalers (whose business is evenly divided between the two), and country buyers who also operate retail stores. The latter were difficult to identify from the 1933 schedule, and the comparison between 1929 and 1933 is subject to qualification in that the entire 1929 figures for retailer-country buyers are included for comparison purposes in figures for independents.

[2] One large national chain with total sales in 1933 (published in the press) of more than $78,000,000 so changed the character of its business since 1929 that it now is classified as a department-store chain whereas it was a variety-store chain before.

[3] Data not available for 1929.

[4] Restaurants and eating places in the 1933 tabulation include lunch counters and refreshment stands in addition to restaurants, cafeterias, and lunch rooms. The 1929 figures include only the latter three kinds of restaurants and, therefore, are not strictly comparable, but the new basis is considered preferable for future comparisons, in order to distinguish eating places as such from drinking places.

[5] Figures for 1933 include two business classifications—hardware stores, and hardware and farm implement dealers. The 1929 figures include only the former and are not comparable with figures for 1933.

[6] Data for "Household appliance stores" and "Motor-vehicle dealers" included for 1929 but not for 1933.

Source: Bureau of the Census, Department of Commerce.

No. 801.—RETAIL TRADE FOR INDIVIDUAL CITIES OF 50,000 OR MORE INHABITANTS, 1933

City	Number of stores	Full-time employees (avg.)	Net sales (thousands of dollars)	City	Number of stores	Full-time employees (avg.)	Net sales (thousands of dollars)
Akron, Ohio	3,427	8,407	70,445	Charlotte, N. C	946	4,054	28,596
Albany, N. Y	2,434	7,023	60,650	Chattanooga, Tenn	1,593	4,086	32,152
Allentown, Pa	1,285	2,960	23,830	Chester, Pa	824	1,452	13,821
Altoona, Pa	800	2,279	17,048	Chicago, Ill	44,599	122,551	990,084
Asheville, N. C	642	1,951	15,185	Cicero, Ill	905	738	9,530
Atlanta, Ga	3,200	13,461	94,484	Cincinnati, Ohio	6,660	20,733	160,459
Atlantic City, N. J	1,705	3,921	30,423	Cleveland, Ohio	13,413	33,658	275,935
Augusta, Ga	913	1,905	14,641	Cleveland Heights, Ohio	813	952	9,422
Austin, Tex	886	2,432	19,531	Columbia, S. C	802	2,195	16,056
Baltimore, Md	13,499	30,164	251,461	Columbus, Ohio	3,940	12,144	93,253
Bayonne, N. J	1,185	899	13,552	Covington, Ky	963	1,322	13,704
Beaumont, Tex	802	2,046	15,290	Dallas, Tex	3,694	12,309	88,512
Berkeley, Calif	1,050	1,903	21,009	Davenport, Iowa	830	2,346	17,843
Bethlehem, Pa	729	1,324	11,496	Dayton, Ohio	2,680	7,100	57,915
Binghamton, N. Y	977	2,933	27,499	Dearborn, Mich	475	734	7,500
Birmingham, Ala	2,742	8,821	55,914	Decatur, Ill	772	2,081	16,849
Boston, Mass	10,632	49,370	374,805	Denver, Colo	4,133	13,522	106,553
Bridgeport, Conn	2,293	5,108	44,337	Des Moines, Iowa	2,157	6,755	55,023
Brockton, Mass	896	2,131	20,349	Detroit, Mich	17,141	46,347	369,936
Buffalo, N. Y	8,215	18,890	162,526	Duluth, Minn	1,285	3,518	28,266
Cambridge, Mass	1,026	2,930	26,135	Durham, N. C	611	1,796	14,656
Camden, N. J	2,117	3,507	32,689	East Chicago, Ind	694	616	5,407
Canton, Ohio	1,493	3,287	28,137	East Orange, N. J	821	1,526	18,334
Cedar Rapids, Iowa	929	2,532	19,918	East St. Louis, Ill	1,089	1,609	14,627
Charleston, S. C	1,037	2,541	16,997	Elizabeth, N. J	2,359	2,905	33,355
Charleston, W. Va	956	3,019	22,885	El Paso, Tex	1,282	3,028	21,346

No. 801.—Retail Trade for Individual Cities of 50,000 or More Inhabitants, 1933—Continued

City	Number of stores	Full-time employees (avg.)	Net sales (thousands of dollars)
Erie, Pa	1,566	3,514	27,813
Evanston, Ill	682	3,014	26,566
Evansville, Ind	1,327	3,068	22,559
Fall River, Mass	1,573	3,292	28,624
Flint, Mich	1,674	3,864	37,094
Fort Wayne, Ind	1,452	3,881	31,299
Fort Worth, Tex	2,300	5,612	43,090
Fresno, Calif	1,432	2,826	27,879
Galveston, Tex	763	2,134	15,611
Gary, Ind	1,027	1,820	17,264
Glendale, Calif	1,053	1,915	19,773
Grand Rapids, Mich	2,215	5,953	45,481
Greensboro, N. C	663	2,161	17,195
Hamilton, Ohio	791	1,409	12,393
Hammond, Ind	828	1,949	18,982
Hamtramck, Mich	695	883	8,560
Harrisburg, Pa	1,241	4,029	29,629
Hartford, Conn	2,192	8,401	68,944
Highland Park, Mich	591	1,562	14,486
Hoboken, N. J	1,017	1,336	15,242
Holyoke, Mass	890	1,769	16,334
Houston, Tex	4,328	12,657	98,392
Huntington, W. Va	1,124	2,623	20,167
Indianapolis, Ind	4,494	14,341	104,177
Irvington, N. J	716	731	10,474
Jackson, Mich	687	1,658	13,882
Jacksonville, Fla	1,747	5,149	37,767
Jersey City, N. J	4,289	5,328	61,730
Johnstown, Pa	899	2,313	18,247
Kalamazoo, Mich	838	2,224	20,215
Kansas City, Kans	1,580	2,101	19,686
Kansas City, Mo	6,206	22,921	163,680
Kenosha, Wis	762	1,018	11,289
Knoxville, Tenn	1,121	3,756	27,404
Lakewood, Ohio	539	1,200	12,875
Lancaster, Pa	862	2,192	18,318
Lansing, Mich	1,016	2,880	23,395
Lawrence, Mass	1,434	2,550	26,752
Lincoln, Nebr	1,044	3,738	28,054
Little Rock, Ark	976	3,178	22,623
Long Beach, Calif	2,177	4,241	41,676
Los Angeles, Calif	19,817	56,608	453,340
Louisville, Ky	4,012	10,919	81,229
Lowell, Mass	1,365	2,915	25,621
Lynn, Mass	1,444	3,653	31,824
McKeesport, Pa	714	1,602	14,398
Macon, Ga	659	2,111	14,694
Madison, Wis	961	2,803	23,722
Malden, Mass	649	1,362	14,688
Manchester, N. H	1,015	2,336	21,434
Medford, Mass	438	889	9,611
Memphis, Tenn	2,444	9,163	69,077
Miami, Fla	2,429	5,808	44,940
Milwaukee, Wis	10,004	21,072	178,740
Minneapolis, Minn	6,122	21,997	168,636
Mobile, Ala	980	2,787	19,870
Montgomery, Ala	788	2,409	16,020
Mt. Vernon, N. Y	878	2,055	22,059
Nashville, Tenn	2,206	6,973	50,560
Newark, N. J	8,325	21,413	188,167
New Bedford, Mass	1,714	3,284	30,230
New Britain, Conn	844	1,376	13,925
New Haven, Conn	2,691	6,159	55,467
New Orleans, La	7,708	16,945	103,386
New Rochelle, N. Y	660	2,241	21,716
Newton, Mass	464	1,257	12,429
New York, N. Y	97,528	236,334	2,245,801
Bronx Borough	14,308	18,735	243,789
Brooklyn Borough	33,423	47,934	557,619
Manhattan Borough	35,089	146,484	1,165,805
Queens Borough	12,389	20,548	243,773
Richmond Borough	2,319	2,633	34,815
Niagara Falls, N. Y	1,141	2,046	19,197
Norfolk, Va	1,941	5,411	39,228
Oakland, Calif	4,898	10,846	103,904
Oak Park, Ill	565	2,092	21,029
Oklahoma City, Okla	2,169	7,404	53,492
Omaha, Nebr	3,152	9,785	73,903
Pasadena, Calif	1,336	3,020	28,540
Passaic, N. J	1,178	1,469	18,621
Paterson, N. J	2,677	4,670	48,179
Pawtucket, R. I	897	2,244	20,500
Peoria, Ill	1,422	4,918	34,699
Philadelphia, Pa	25,154	70,738	514,456
Pittsburgh, Pa	6,942	27,327	195,681
Pontiac, Mich	706	1,596	12,439
Port Arthur, Tex	473	1,052	10,711
Portland, Maine	1,149	3,973	31,522
Portland, Oreg	4,584	12,717	105,865
Providence, R. I	3,223	10,869	85,820
Pueblo, Colo	674	1,440	12,866
Quincy, Mass	747	1,844	19,807
Racine, Wis	1,054	1,556	16,507
Reading, Pa	1,889	4,466	36,741
Richmond, Va	2,548	9,011	65,982
Roanoke, Va	920	3,229	23,384
Rochester, N. Y	4,590	12,828	106,321
Rockford, Ill	1,126	2,739	23,392
Sacramento, Calif	1,750	4,504	42,754
Saginaw, Mich	991	2,172	19,065
St. Joseph, Mo	1,203	2,855	22,765
St. Louis, Mo	12,527	32,610	252,813
St. Paul, Minn	3,297	12,634	101,323
Salt Lake City, Utah	1,509	5,357	42,109
San Antonio, Tex	3,868	8,920	60,618
San Diego, Calif	3,025	5,837	53,917
San Francisco, Calif	10,087	30,408	254,075
San Jose, Calif	1,118	2,848	26,470
Savannah, Ga	1,230	2,940	19,911
Schenectady, N. Y	1,481	3,456	31,365
Scranton, Pa	1,917	5,710	41,853
Seattle, Wash	5,768	16,229	129,096
Shreveport, La	1,084	3,627	24,269
Sioux City, Iowa	1,098	3,507	26,704
Somerville, Mass	955	1,989	19,699
South Bend, Ind	1,275	3,260	25,249
Spokane, Wash	1,807	4,408	38,375
Springfield, Ill	1,110	3,352	24,399
Springfield, Mass	2,258	7,469	58,010
Springfield, Mo	1,057	2,342	18,504
Springfield, Ohio	947	1,922	16,299
Syracuse, N. Y	2,273	7,531	64,722
Tacoma, Wash	1,690	3,219	28,950
Tampa, Fla	1,643	3,336	26,725
Terre Haute, Ind	1,146	2,306	18,591
Toledo, Ohio	3,464	9,713	76,595
Topeka, Kans	1,035	2,884	22,267
Trenton, N. J	2,297	4,313	37,805
Troy, N. Y	1,285	2,845	26,115
Tulsa, Okla	2,027	6,189	44,690
Union City, N. J	1,068	1,617	17,689
Utica, N. Y	1,270	3,018	27,667
Waco, Tex	843	1,917	15,206
Washington, D. C	6,156	28,508	241,515
Waterbury, Conn	1,230	2,703	24,293
Wheeling, W. Va	1,017	3,058	22,449
Wichita, Kans	1,844	4,728	36,894
Wilkes-Barre, Pa	1,412	4,290	31,049
Wilmington, Del	1,820	4,085	37,376
Winston-Salem, N. C	919	2,038	16,158
Worcester, Mass	2,024	6,492	54,597
Yonkers, N. Y	1,736	2,867	32,057
York, Pa	954	2,312	18,807
Youngstown, Ohio	1,854	5,268	40,765

Source: Bureau of the Census, Department of Commerce.

No. 802.—SERVICE ESTABLISHMENTS, PLACES OF AMUSEMENT AND HOTELS: BY STATES, 1933

[All money figures in thousands of dollars]

Division and State	Number of establishments	Receipts	Number of proprietors	Employees (average)		Pay roll			Total operating expenses (including pay roll) [1]
				Full-time	Part-time	Total	Full-time	Part-time	
United States	502,416	2,760,881	546,444	657,481	202,519	701,594	619,785	81,809	2,043,131
New England	36,769	199,962	38,654	45,668	14,170	53,005	46,483	6,522	151,725
Connecticut	6,755	37,130	7,053	8,056	2,739	9,228	8,010	1,218	28,330
Maine	3,613	13,576	4,008	3,517	1,185	2,975	2,488	487	9,280
Massachusetts	19,720	118,516	20,342	27,092	7,972	33,289	29,398	3,891	91,584
New Hampshire	2,090	9,259	2,305	1,971	690	2,100	1,874	226	6,348
Rhode Island	2,841	15,216	3,030	3,312	1,114	4,007	3,487	520	11,887
Vermont	1,750	6,265	1,916	1,720	470	1,406	1,226	180	4,296
Middle Atlantic	122,350	901,622	130,976	168,702	47,973	217,090	194,848	22,242	658,365
New Jersey	20,012	103,681	21,631	20,854	7,183	24,624	21,305	3,319	80,324
New York	66,196	626,893	70,784	108,995	27,281	150,206	136,998	13,208	447,516
Pennsylvania	36,142	171,048	38,561	38,853	13,509	42,260	36,545	5,715	130,525
East North Central	108,243	589,998	117,266	139,383	46,984	152,545	134,215	18,330	432,751
Illinois	34,173	252,983	36,391	53,024	18,588	66,229	58,714	7,515	180,329
Indiana	13,029	47,650	14,617	12,705	4,276	11,258	9,815	1,443	34,640
Michigan	18,580	93,933	20,158	24,334	7,386	24,149	21,429	2,720	70,439
Ohio	29,925	143,248	32,354	37,325	11,292	38,840	34,082	4,758	109,950
Wisconsin	12,536	52,184	13,746	11,995	5,442	12,069	10,175	1,894	37,393
West North Central	61,346	246,316	67,507	64,436	19,418	60,061	52,984	7,077	179,305
Iowa	11,566	40,899	12,769	9,686	3,566	8,509	7,354	1,155	28,334
Kansas	8,617	25,830	9,641	7,234	2,512	5,473	4,727	746	17,787
Minnesota	11,037	53,213	12,109	13,337	3,808	13,071	11,614	1,457	39,223
Missouri	17,091	86,037	18,632	24,361	5,962	24,587	22,006	2,581	65,506
Nebraska	7,649	24,907	8,480	6,065	2,317	5,406	4,631	775	18,057
North Dakota	2,603	7,665	2,838	1,887	533	1,444	1,286	158	4,979
South Dakota	2,783	7,765	3,038	1,866	720	1,571	1,366	205	5,419
South Atlantic	44,989	223,876	49,051	72,084	19,449	59,713	53,406	6,307	168,876
Delaware	961	4,710	1,005	1,092	406	1,098	927	171	3,362
Dist. of Col	2,413	31,845	2,450	8,849	1,095	8,603	8,174	429	24,710
Florida	6,270	31,215	6,933	10,716	2,270	8,488	7,664	824	25,511
Georgia	6,389	26,950	7,160	10,739	2,273	7,221	6,617	604	19,783
Maryland	6,825	37,161	7,188	9,356	2,868	9,829	8,529	1,300	27,709
North Carolina	6,227	26,840	7,046	9,958	2,593	7,107	6,416	691	19,635
South Carolina	3,854	14,295	4,178	5,207	2,736	3,874	3,240	634	9,917
Virginia	7,405	33,263	7,994	10,978	3,807	9,159	7,955	1,204	25,352
West Virginia	4,645	17,597	5,097	5,189	1,401	4,334	3,884	450	12,897
East South Central	23,849	82,990	26,406	30,214	7,991	21,847	19,285	2,562	61,879
Alabama	5,326	17,556	5,893	7,477	2,253	5,252	4,517	735	13,232
Kentucky	8,031	28,471	8,922	8,497	2,398	6,817	5,996	821	20,874
Mississippi	3,771	9,143	4,151	3,933	1,063	2,350	2,101	249	7,056
Tennessee	6,721	27,820	7,440	10,307	2,277	7,428	6,671	757	20,717
West South Central	39,582	156,325	44,347	53,154	14,799	41,872	37,591	4,281	118,338
Arkansas	4,245	12,076	4,851	4,578	1,093	2,868	2,592	276	8,728
Louisiana	5,653	25,617	6,096	9,131	2,449	7,802	6,825	977	21,333
Oklahoma	8,574	28,419	9,706	9,431	2,212	7,258	6,615	643	20,948
Texas	21,110	90,213	23,694	30,014	9,045	23,944	21,559	2,385	67,329
Mountain	16,360	68,593	18,369	18,118	5,638	16,945	14,906	2,039	51,336
Arizona	1,546	7,972	1,694	2,285	499	2,066	1,888	178	6,622
Colorado	5,528	22,579	6,180	6,451	1,735	6,053	5,375	678	17,145
Idaho	1,873	6,985	2,119	1,472	691	1,469	1,240	229	4,876
Montana	2,460	9,807	2,770	2,079	862	2,098	1,774	324	6,754
Nevada	541	3,148	580	602	236	694	593	101	2,327
New Mexico	1,258	4,815	1,435	1,709	444	1,211	1,099	112	3,486
Utah	1,974	8,116	2,240	2,300	757	2,189	1,915	274	6,374
Wyoming	1,180	5,171	1,351	1,208	414	1,165	1,022	143	3,752
Pacific	48,928	291,199	53,868	65,725	26,101	78,516	66,067	12,449	220,556
California	35,865	227,065	39,626	50,084	18,818	61,290	52,144	9,146	170,775
Oregon	4,865	22,546	5,492	5,370	2,427	6,013	4,729	1,284	16,902
Washington	8,198	41,588	8,750	10,271	4,856	11,213	9,194	2,019	32,879

[1] Does not include compensation of proprietors.

Source: Bureau of the Census, Department of Commerce.

No. 803.—SERVICE ESTABLISHMENTS, PLACES OF AMUSEMENT, AND HOTELS: BY KIND OF BUSINESS, 1933

[All money figures in thousands of dollars. Pay roll does not include compensation of proprietors]

Kind of business	Number of establishments	Receipts	Number of proprietors	Employees (average)		Pay roll			Total operating expenses (incl. payroll)
				Full-time	Part-time	Total	Full-time	Part-time	
United States total	502,416	2,760,881	546,444	657,481	202,519	701,594	619,785	81,809	2,043,131
Service establishments, total	443,217	1,725,114	482,463	356,190	149,825	437,917	373,458	64,459	1,065,460
Personal service:									
Barber shops	117,832	204,387	128,709	71,347	18,123	58,507	52,070	6,437	122,186
Beauty parlors	42,073	116,795	45,807	42,733	8,955	38,974	35,618	3,356	83,518
Cleaning, dyeing, pressing, alteration, and repair shops; and valet shops	55,459	135,611	59,965	28,274	12,086	26,271	21,244	5,027	82,957
Costume rental agencies	295	2,199	298	488	151	736	646	90	1,611
Funeral directors and embalmers	12,655	172,438	15,571	16,414	9,260	27,071	23,746	3,325	86,220
Fur repair and storage shops	1,310	5,065	1,436	732	376	1,070	814	256	2,703
Laundries, hand [1]	13,691	35,645	16,262	7,811	3,933	6,786	5,319	1,467	21,638
Photographic studios	8,330	31,873	8,925	5,881	1,945	7,213	6,375	838	19,527
Shoe repair shops	50,425	87,153	52,781	12,876	4,739	11,881	10,247	1,634	42,103
Shoe shine parlors [2]	7,027	10,032	7,722	2,826	1,503	2,014	1,665	349	6,042
Other personal services	2,319	10,215	2,022	3,027	856	2,799	2,529	270	7,410
Business service:									
Adjustment and credit bureaus, and collection agencies	1,824	35,159	1,225	11,936	931	15,341	14,897	444	26,310
Advertising agencies, and billboard advertising agencies	1,479	189,867	1,101	11,642	2,767	29,792	28,253	1,539	61,533
Blueprinting and photostat laboratories	253	3,875	236	1,041	95	1,185	1,148	37	2,510
Cartage and trucking establishments	23,102	174,875	25,196	39,291	20,478	57,301	46,451	10,850	144,427
Delivery service	577	8,550	583	2,960	2,006	4,130	3,800	330	7,009
Dental laboratories	947	8,983	1,026	2,378	287	3,075	2,881	194	5,166
Duplicating, addressing, mailing, and mailing-list service	672	5,736	675	1,758	878	2,258	1,880	378	4,185
Linen supply service	461	17,713	316	5,374	253	5,784	5,653	131	14,619
Photo finishing laboratories	780	5,493	880	1,366	295	1,522	1,398	124	3,236
Sign painting shops	3,007	9,438	3,449	1,550	1,129	2,461	1,778	683	5,192
Storage warehouses	2,517	72,085	1,968	16,543	7,594	24,415	21,235	3,180	62,187
Other business services	2,302	127,368	1,706	20,248	26,158	45,262	34,881	10,381	104,730
Mechanical repair service:									
Automobile brake repair, relining, and adjustment shops	241	1,940	235	400	55	530	503	27	1,095
Automobile paint shops	1,694	5,734	2,009	1,211	773	1,624	1,221	403	3,265
Automobile radiator shops	1,157	3,539	1,306	602	244	784	632	152	1,898
Automobile top and body repair shops	3,636	17,778	4,276	4,046	1,875	5,381	4,284	1,097	10,095
Blacksmith shops	20,257	21,563	22,088	2,682	1,791	2,581	1,903	678	8,297
Cabinetmaker and carpenter repair shops	2,063	3,654	2,323	358	528	667	369	298	1,726
Electric repair shops	2,391	11,169	2,601	2,303	1,073	3,485	2,830	655	6,228
Elevator service (repair)	141	1,546	145	318	211	644	445	199	908
Harness, leather, and shoe repair shops	2,490	2,880	2,629	217	122	186	149	37	928
Locksmith and gunsmith shops	1,937	3,272	2,089	455	153	506	429	77	1,608
Mattress renovating and repair shops	482	1,284	589	265	157	263	200	63	656
Plumbing and heating repair shops	6,608	27,217	7,419	3,447	4,681	6,289	3,556	2,733	12,265
Radio repair shops [3]	4,501	6,145	5,078	650	395	689	543	146	2,904
Saw and tool sharpening service	778	1,715	857	294	80	347	303	44	950
Tinsmith, sheet metal, and roofing repair shops	3,151	11,959	3,599	1,522	2,076	2,901	1,636	1,265	5,558
Tire repair shops	578	1,174	637	169	54	164	139	25	486
Typewriter repair shops	258	746	291	142	40	188	171	17	384
Upholstery and furniture repair shops	4,758	10,950	5,414	1,401	1,222	1,983	1,326	657	5,461
Watch, clock, and jewelry repair shops	9,678	14,707	10,158	1,302	562	1,597	1,315	282	6,161
Welding shops	2,545	10,478	2,954	1,896	780	2,608	2,145	463	5,920
Other mechanical repair services	5,962	17,809	6,755	3,007	1,839	4,364	3,357	1,007	9,781
Miscellaneous service:									
Automobile laundries	733	2,061	821	773	581	658	464	194	1,545
Automobile rental service	381	5,420	274	1,214	216	1,583	1,452	131	5,015
Disinfectant and exterminating service	321	3,147	314	815	316	1,292	1,147	145	2,329
Employment agencies	783	3,274	825	1,028	131	1,197	1,137	60	2,723
Garages (storage)	2,123	14,197	2,173	3,619	518	3,806	3,568	238	11,470
Hemstitching, embroidery, and buttonholing shops	985	1,620	1,090	405	206	397	317	80	1,020
Parking lots	3,152	12,827	2,915	3,123	870	3,743	3,476	267	11,287
Tourist camps, and tourist camps with filling stations	5,846	8,483	7,921	1,705	785	1,157	951	206	5,292
Window cleaning service	387	5,108	419	2,575	762	3,109	2,669	440	4,116
Other miscellaneous services	3,863	21,163	4,310	5,755	1,931	7,346	6,293	1,053	17,060

[1] Not including commercial laundries. [2] Including hat cleaning. [3] Not including dealers in radios.

No. 803.—Service Establishments, Places of Amusements, and Hotels: By Kind of Business, 1933—Continued

[All money figures in thousands of dollars]

Kind of business	Number of establishments	Receipts	Number of proprietors	Employees (average)		Pay roll			Total operating expenses (including pay roll)
				Full-time	Part-time	Total	Full-time	Part-time	
Amusements, total	29,737	520,218	30,297	87,372	30,787	117,397	106,568	10,829	489,978
Billiard and pool parlors, and bowling alleys	11,438	31,710	13,040	9,016	7,076	7,482	5,716	1,766	21,178
Dance halls	2,933	10,248	3,412	2,884	5,384	3,856	2,341	1,515	9,039
Skating rinks	264	1,005	327	246	176	299	222	77	968
Theaters	10,265	415,153	8,284	63,136	12,857	85,422	80,519	4,903	408,874
Legitimate stage and opera	122	8,611	69	1,182	448	3,666	3,457	209	6,496
Motion picture	9,499	356,316	8,024	54,030	11,698	71,451	67,009	4,442	352,152
Motion picture and vaudeville	644	50,226	191	7,924	711	10,305	10,053	252	50,226
Other amusements	4,837	62,102	5,234	12,090	5,294	20,338	17,770	2,568	49,919
Hotels, total	29,462	515,549	33,684	213,919	21,908	146,220	139,759	6,521	487,703
Year-round	27,128	493,241	30,712	205,570	20,955	140,973	134,746	6,227	468,396
American plan	4,044	34,474	5,017	14,573	1,936	9,240	8,700	540	28,923
European plan	18,936	402,102	20,595	167,335	15,849	116,292	111,429	4,863	390,233
Mixed plan (American and European)	4,148	56,665	5,100	23,662	3,170	15,441	14,617	824	49,240
Seasonal	2,334	22,308	2,972	8,349	953	5,307	5,013	294	19,307
American plan	1,263	12,509	1,663	4,856	550	3,075	2,909	166	10,773
European plan	604	4,302	718	1,428	142	933	883	50	3,476
Mixed plan (American and European)	467	5,497	591	2,065	261	1,299	1,221	78	5,058

Source: Bureau of the Census, Department of Commerce.

No. 804.—INDEXES OF VALUES OF SALES BY DEPARTMENT STORES: By Federal Reserve Districts and by Months

Note.—1923–1925 average=100. Compiled from reports of about 360 to 560 firms. Indexes have been adjusted for variations in number of firms reporting and monthly indexes for the varying number of business days in the different months and the effect of changes in the date of Easter. The adjusted monthly indexes are revised data based on a new series of seasonal indexes.

Year	United States	Boston [1]	New York	Philadelphia	Cleveland	Richmond [1]	Atlanta	Chicago	St. Louis [1]	Minneapolis	Kansas City [1 2]	Dallas	San Francisco
1919	78	78	76	------	77	84	94	------	------	90	------	98	67
1920	94	91	91	------	98	93	113	------	------	105	------	118	81
1921	87	89	87	------	87	89	96	------	90	100	------	98	77
1922	88	92	90	------	87	86	91	------	89	98	------	91	82
1923	98	98	96	101	101	97	101	99	99	97	------	96	96
1924	99	100	99	99	99	99	98	98	98	99	95	100	99
1925	103	102	105	100	101	104	102	103	103	104	100	104	105
1926	106	105	109	103	102	107	106	108	105	101	95	109	111
1927	107	106	111	99	103	105	107	110	103	101	96	107	113
1928	108	104	113	94	103	106	107	115	104	98	97	109	117
1929	111	106	117	95	105	110	104	117	105	99	96	110	119
1930	102	100	114	87	94	106	95	102	94	94	95	100	111
1931	92	91	105	77	82	100	87	86	82	87	82	86	98
1932	69	71	83	60	60	81	70	64	63	69	64	65	75
1933	67	65	78	58	62	77	68	63	60	65	63	66	71
1934	75	69	82	63	70	90	83	73	69	72	73	79	77

Month	United States—Unadjusted						United States—With seasonal adjustment					
	1930	1931	1932	1933	1934	1935	1930	1931	1932	1933	1934	1935
January	88	81	64	49	57	59	107	99	79	61	71	74
February	89	81	64	49	59	61	108	99	78	60	71	75
March	93	92	69	50	73	71	107	98	73	57	78	82
April	110	101	73	68	73	79	105	102	74	64	74	73
May	105	97	72	67	77	76	105	97	72	67	77	76
June	98	92	66	64	70	76	103	96	69	68	74	80
July	71	66	46	48	51	56	100	94	66	70	73	80
August	77	68	49	59	60	------	102	89	64	75	77	------
September	103	88	71	73	79	------	99	85	68	69	75	------
October	112	94	75	77	82	------	101	85	68	69	73	------
November	113	97	73	75	83	------	99	85	64	66	74	------
December	165	143	106	121	135	------	96	83	62	70	78	------

[1] Beginning December 1930 computed by the Bureau of Foreign and Domestic Commerce based on percentage changes in sales as reported by the Federal Reserve Board. [2] Monthly average sales in 1925=100.

Source: United States and Boston, Richmond, St. Louis, and Kansas City, except as noted, Federal Reserve Board, other districts, the respective Federal Reserve banks. Indexes for Minneapolis and New York published on a 1929 and 1925–27 base, respectively; computed to a 1923–25 base by Bureau of Foreign and Domestic Commerce.

No. 805.—INDEXES OF THE VALUE OF SALES OF CHAIN STORES

NOTE.—The combined index for all groups covers 18 leading chains, including in addition to the 3 apparel and the 5 grocery chains shown in the table, 6 five-and-ten (variety), 2 drug, and 2 shoe chains. Indexes are based on daily average sales. Each monthly index is expressed as a percentage of the average for the same month of the base period. Allowance for the fluctuating date of Easter is made in the case of apparel, variety, and shoe chains. No allowance has been made for changes in the number of stores operated

[1929–1931=100]

Month	Combined index (18 companies)				Apparel index (3 companies) *				Grocery index (5 companies)			
	1932	1933	1934	1935	1932	1933	1934	1935	1932	1933	1934	1935
Annual index	84	83	92	------	82	81	97	------	81	78	84	------
January	88	80	89	92	91	76	93	95	86	76	81	86
February	90	79	91	96	91	73	90	96	85	74	82	88
March	84	76	91	96	80	63	100	105	84	75	81	88
April	89	80	92	96	93	84	103	104	84	75	82	89
May	85	80	90	92	87	79	98	100	84	77	82	89
June	82	84	92	96	81	81	91	99	81	79	84	90
July	83	87	93	96	75	79	88	101	81	82	85	91
August	80	87	93	------	75	91	97	------	80	81	87	------
September	83	88	95	------	83	84	99	------	80	81	86	------
October	82	86	92	------	80	88	101	------	77	80	85	------
November	79	86	93	------	78	82	102	------	77	80	85	------
December	77	88	94	------	74	88	99	------	76	80	86	------

Source: The Chain Store Age.

No. 806.—INDEXES OF DOLLAR VALUES OF AUTOMOBILE RETAIL SALES, VARIETY STORE SALES, AND RETAIL SALES OF GENERAL MERCHANDISE IN SMALL TOWNS AND RURAL AREAS

NOTE.—Indexes of automobile sales are based on unit sales figures reported monthly to the Automobile Manufacturers' Association, which represent over 95 percent of all dealer's sales. The unit sales figures are converted to dollar volume by the use of a computed "average realized price." Indexes of sales in small towns and rural areas are based on figures furnished by three mail-order companies for sales by mail only and by a large group of chain units operating in small towns and cities which serve the rural population. Sales of reporting concerns represent about one-fifth of all general merchandise sales in places of less than 30,000 inhabitants. Indexes of variety store sales are based on figures furnished by chain organizations doing more than 75 percent of the business in the variety field. Adjustment has been made for changes in the number of stores operated by these companies so that the indexes reflect sales changes for a constant number of stores. All indexes are computed from dollar sales reduced to a daily average basis. In computing the index of automobile sales, equal weight is given to all days of the month, while in computing the other two indexes, allowance is made for the varying number of business days and the varying sales importance of the different days of the week. In addition, all monthly indexes are adjusted for seasonal changes. No allowance is made for the changing date of Easter

[1929–1931=100]

Year	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AUTOMOBILE RETAIL SALES													
1929	144.1	138.5	136.5	153.5	154.5	146.0	141.5	152.0	148.5	141.5	141.0	132.5	113.0
1930	93.0	110.5	114.5	113.5	103.5	100.5	90.0	83.0	78.0	82.0	76.0	70.5	82.5
1931	62.9	70.5	72.5	74.0	75.0	67.0	61.5	64.5	52.5	49.0	46.5	49.5	60.5
1932	35.5	45.5	44.0	36.0	37.5	37.0	42.5	28.0	30.0	31.0	28.0	28.5	34.0
1933	43.3	41.0	33.0	30.5	30.5	42.5	49.0	52.5	52.0	52.0	53.5	53.0	30.5
1934	57.6	33.5	54.5	64.5	59.0	55.5	63.5	67.0	56.0	53.0	59.0	63.0	49.0
1935	------	75.0	86.5	94.5	78.5	70.0	78.5	81.0	------	------	------	------	------
VARIETY STORE SALES													
1929	107.1	100.2	103.2	105.3	102.3	108.5	106.3	107.9	109.5	107.4	109.9	109.5	111.3
1930	99.0	98.7	100.9	102.8	99.1	97.7	97.0	97.9	97.6	96.9	100.6	98.4	100.4
1931	93.8	94.3	94.4	96.1	97.5	97.0	95.8	98.2	91.1	92.3	91.4	91.8	90.3
1932	80.8	88.8	86.9	84.4	83.5	82.9	81.5	78.9	77.7	81.7	80.1	80.6	71.9
1933	82.5	82.3	78.5	75.2	77.5	78.1	83.2	83.6	86.7	86.4	85.6	85.5	83.3
1934	90.4	94.2	87.5	94.8	87.2	90.0	90.8	89.5	90.3	89.5	90.0	91.5	88.9
1935	------	90.2	90.8	93.0	90.6	86.0	90.7	92.1	------	------	------	------	------
RURAL RETAIL SALES													
1929	124.9	109.9	117.8	138.8	120.0	116.5	127.4	126.0	129.0	134.4	126.6	124.7	125.1
1930	97.8	107.5	108.4	107.1	107.7	105.3	101.0	94.9	95.9	93.2	90.4	87.3	86.5
1931	77.4	85.1	84.2	85.1	86.6	85.8	84.0	82.8	76.5	70.0	65.8	67.7	68.3
1932	63.1	69.3	67.2	65.6	67.2	64.5	64.3	60.7	58.5	61.8	63.2	59.8	58.7
1933	69.2	56.8	56.1	47.5	61.5	64.8	65.7	71.3	75.2	73.9	79.9	85.4	77.7
1934	83.7	79.5	80.7	79.6	73.8	79.7	72.3	75.5	79.2	98.8	89.1	89.8	94.5
1935	------	87.5	90.6	97.4	101.0	93.1	99.5	97.0	------	------	------	------	------

Source: Bureau of Foreign and Domestic Commerce.

34.—CONSTRUCTION

No. 807.—CONSTRUCTION CONTRACTS AWARDED

NOTE.—Data compiled from reports covering contracts awarded in small towns and rural districts as well as large cities. Public works and public utilities cover some projects not susceptible to measurement in terms of floor space, such as highways, pipe lines, subways, etc. Statistics for the 37 States were not compiled for years prior to 1925, but available figures covering a varied number of States for earlier years have been published in the 1932 and previous issues of this publication

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

Year	Total	Residential	Commercial [1]	Factories [2]	Public works	Public utilities [1 2]	Educational	Hospitals and institutions	Public buildings	Religious and memorial	Social and recreational
37 STATES [3]											
Number of projects:											
1925	173,720	127,678	19,083	5,139	9,381	1,802	4,024	929	856	2,426	2,402
1926	170,723	120,473	20,249	5,456	11,461	2,122	3,993	985	995	2,406	2,583
1927	184,604	128,436	21,616	5,361	14,100	2,456	4,497	1,194	1,303	2,751	2,890
1928	200,255	139,133	23,583	5,809	16,876	2,394	4,759	1,141	1,383	2,520	2,657
1929	172,171	110,498	24,136	6,383	16,708	2,661	4,531	1,190	1,303	2,277	2,484
1930	135,269	74,713	22,431	4,675	18,257	3,130	4,771	1,221	1,477	2,044	2,551
1931	110,203	63,834	15,299	2,824	16,393	2,405	3,250	929	1,454	1,560	2,255
1932	76,129	38,057	14,234	2,370	13,821	1,628	1,800	552	974	1,193	1,500
1933	85,217	40,479	18,189	3,776	13,172	2,023	2,197	546	1,394	1,216	2,225
1934	92,528	37,879	20,917	3,708	16,673	2,725	3,945	741	1,812	1,330	2,798
Value of construction:											
1925	6,006.4	2,747.7	872.4	326.6	650.6	415.4	426.4	111.1	54.5	153.1	248.7
1926	6,380.9	2,671.1	920.9	471.2	775.6	564.7	381.1	133.1	67.2	148.8	247.1
1927	6,303.1	2,573.3	932.9	375.9	962.2	419.8	379.8	162.5	79.5	156.5	260.7
1928	6,628.3	2,788.3	884.6	508.8	980.1	484.4	399.0	164.7	76.2	127.9	214.1
1929	5,750.8	1,915.7	929.2	545.9	934.4	524.5	381.9	152.2	120.8	106.1	140.0
1930	4,523.1	1,101.3	616.3	256.6	963.0	700.7	376.1	163.1	139.8	92.8	113.3
1931	3,092.8	811.4	311.1	116.2	875.4	295.7	228.8	121.2	181.3	53.1	98.7
1932	1,351.2	280.1	122.7	43.5	514.7	75.6	82.3	48.4	118.0	27.3	38.7
1933	1,255.7	249.3	99.4	127.5	499.5	103.2	40.0	37.3	50.9	17.7	31.1
1934	1,543.1	248.8	150.6	116.1	625.0	126.2	117.5	37.3	55.7	18.3	47.6
Floor space of buildings:											
1925	920,537	559,501	160,067	66,900	-------	-------	61,308	14,036	8,293	18,869	31,565
1926	872,574	521,061	152,355	75,705	-------	-------	54,565	14,790	7,856	16,371	29,872
1927	838,298	494,563	141,815	68,130	-------	-------	55,475	18,803	9,941	17,191	32,381
1928	956,841	568,383	159,192	92,903	-------	-------	62,983	20,004	11,287	15,398	26,691
1929	779,747	387,671	161,262	105,523	-------	-------	60,644	19,494	12,626	12,817	19,709
1930	494,809	230,039	96,587	48,020	-------	-------	58,550	19,120	17,024	10,862	14,606
1931	357,789	190,274	50,035	20,108	-------	-------	37,372	16,881	24,256	5,578	13,287
1932	152,829	73,607	23,885	9,048	-------	-------	14,234	7,317	16,198	3,517	5,023
1933	143,170	72,783	22,553	18,986	-------	-------	5,953	5,596	9,473	2,633	5,194
1934	149,685	64,255	28,261	17,566	-------	-------	17,864	4,222	9,423	2,648	5,446

[1] Owing to a change in the classification, data for airports have been excluded from the "Commercial" class and included with "Public utilities" beginning 1930. Separate figures for airports are not available prior to 1930.

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

[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. 808.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: BY MONTHS [1]

NOTE.—See headnote, table 807

Month	Value of construction (thousands of dollars)					Floor space of buildings [2] (thousands of square feet)				
	1930	1931	1932	1933	1934	1930	1931	1932	1933	1934
Total	4,523,115	3,092,850	1,351,159	1,255,708	1,543,108	494,809	357,789	152,829	143,170	149,685
January	323,975	227,956	84,798	83,356	186,464	31,037	24,002	12,301	7,620	9,543
February	317,053	235,405	89,046	52,712	96,716	36,157	28,017	12,123	7,234	7,906
March	456,119	369,981	112,235	59,959	178,346	52,920	37,362	16,728	9,773	14,541
April	482,877	336,925	121,705	56,573	131,157	54,502	38,486	13,675	10,786	13,923
May	457,416	306,079	146,221	77,172	134,364	52,512	38,484	15,561	14,877	14,249
June	600,573	316,148	113,075	102,342	127,055	46,263	32,370	12,189	15,345	13,730
July	366,878	285,997	128,769	82,554	119,662	43,466	32,262	14,134	14,304	13,054
August	346,644	233,106	133,988	105,989	119,592	38,364	29,793	13,659	12,706	13,939
September	331,864	251,110	127,527	120,134	110,151	39,592	29,566	13,271	12,767	12,359
October	336,706	242,094	107,274	145,367	135,225	39,108	30,365	10,896	15,199	14,890
November	253,574	151,196	105,302	162,341	111,692	32,598	20,179	11,525	11,486	12,569
December	249,436	136,852	81,219	207,210	92,685	28,290	16,903	6,768	11,074	8,983

[1] Figures for the 37 States include all except the 11 States in the Mountain and Pacific divisions.
[2] Figures do not include data for floor space for public works and public utilities. Figures for 1929 include data for airports which are not included for later years. See footnote 1, table 807.

Source: The F. W. Dodge Corporation.

No. 809.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: BY TERRITORIES

NOTE.—See headnote, table 807. New England includes Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut. Metropolitan New York and vicinity includes northern New Jersey, New York City, Long Island, Westchester, Orange, Putnam, and Rockland Counties, N. Y. Up-State New York includes all counties north of Orange, Putnam, and Rockland. Middle Atlantic includes eastern Pennsylvania, southern New Jersey, Maryland, Delaware, District of Columbia, and Virginia. Pittsburgh includes western Pennsylvania, West Virginia, Ohio, and Kentucky. Southern Michigan consists of the southern peninsula. Chicago includes northern Illinois, Indiana, Iowa, and eastern and southern Wisconsin. Central Northwest includes Minnesota, the Dakotas, northern peninsula of Michigan, and northwest Wisconsin. St. Louis includes southern Illinois, eastern Missouri, northeast Arkansas, western Tennessee, and northwest Mississippi. Kansas City includes western Missouri, Kansas, Oklahoma, and Nebraska. Texas includes the State only. New Orleans includes Louisiana, western and southern Arkansas, and eastern and southern Mississippi. Southeastern includes the Carolinas, Georgia, Florida, Alabama, and eastern Tennessee

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

Territory	Value				Floor space of buildings [1]			
	1931	1932	1933	1934	1931	1932	1933	1934
Total	3,092,850	1,351,159	1,255,708	1,543,108	357,789	152,829	143,170	149,685
New England	295,019	114,053	120,696	144,861	36,345	15,425	13,982	13,959
Metropolitan New York and vicinity	725,061	190,678	176,618	206,498	106,872	26,819	27,117	25,504
Up-State New York	169,718	75,955	76,671	62,414	15,701	7,868	6,598	6,371
Middle Atlantic	356,807	227,615	136,101	191,018	41,677	30,300	19,982	23,129
Pittsburgh	309,540	151,612	146,866	200,085	32,268	13,633	13,365	12,932
Southern Michigan	90,611	41,715	47,969	54,842	11,206	5,044	4,907	5,578
Chicago	345,583	152,842	121,885	176,174	33,155	13,578	13,800	15,020
Central Northwest	93,815	61,516	44,072	58,599	8,686	4,305	4,325	4,202
St. Louis	120,750	83,077	80,775	95,504	11,680	5,810	7,051	8,035
Kansas City	153,496	76,681	73,751	77,746	14,481	6,241	7,173	7,170
Texas	157,033	56,233	59,652	64,282	16,384	6,943	8,217	8,399
New Orleans	126,484	35,921	43,621	55,902	7,446	4,806	2,857	3,476
Southeastern	148,932	83,260	127,033	155,184	21,888	12,058	13,798	15,910

[1] Figures do not include data for floor space for public works and public utilities.

Source: The F. W. Dodge Corporation.

No. 810.—BUILDING PERMITS ISSUED IN PRINCIPAL CITIES

NOTE.—Figures cover new buildings and repairs to old buildings, but exclude data for installation permits (those for installing boilers, signs, etc.) which are not strictly building operations. These permits are rather numerous, but in value they are of small amount. The number figures represent the number of buildings covered by permits issued (new construction and repairs, etc.), rather than the number of permits. The cities shown had a population of 50,000 or over in 1930. The estimated cost of new buildings only, authorized in 257 identical cities since 1921 is as follows: 1921, $1,573,000,000; 1922, $2,489,000,000; 1923, $3,072,000,000; 1924, $3,208,000,000; 1925, $3,805,000,000; 1926, $3,557,000,000; 1927, $3,138,000,000; 1928, $2,995,000,000; 1929, $2,580,000,000; 1930, $1,451,000,000; 1931, $1,049,000,000; 1932, $379,000,000; 1933, $274,000,000; 1934, $241,000,000. Buildings authorized by permit are not always actually constructed, and the actual cost of those constructed may differ considerably from that originally estimated

City and State	Total number of buildings					Proposed cost of buildings (thousands of dollars)				
	1930	1931	1932	1933	1934	1930	1931	1932	1933	1934
Akron, Ohio	2,421	1,506	908	690	1,078	8,777	1,939	804	689	875
Albany, N. Y.	1,612	1,229	1,172	1,402	1,593	9,004	6,061	3,896	1,521	1,725
Allentown, Pa.	671	428	329	277	271	2,270	968	1,093	674	436
Altoona, Pa.	1,481	1,016	634	511	576	1,369	745	170	119	165
Asheville, N. C.	383	267	201	180	311	422	234	96	150	311
Atlanta, Ga.	3,043	3,239	2,393	1,768	2,387	8,446	3,471	3,520	946	2,508
Atlantic City, N. J.	593	663	1,233	858	756	1,401	843	825	403	502
Augusta, Ga.	989	964	624	457	448	715	732	420	372	794
Austin, Tex.	1,234	1,435	1,104	1,176	1,150	3,335	2,471	5,565	1,609	1,387
Baltimore, Md.	16,943	15,680	12,364	7,978	7,514	27,821	24,691	13,663	7,465	8,948
Bayonne, N. J.	226	240	293	234	215	792	448	195	303	371
Beaumont, Tex.	1,561	1,046	772	725	829	2,606	1,021	711	275	376
Berkeley, Calif.	1,541	1,143	940	749	746	2,986	1,900	1,097	786	642
Bethlehem, Pa.	381	177	113	75	110	1,065	443	239	100	142
Binghamton, N. Y.	2,314	2,590	2,654	2,835	2,304	2,255	969	1,484	864	1,338
Birmingham, Ala.	2,542	1,716	1,240	919	2,637	2,420	1,937	699	515	965
Boston, Mass.[1]	7,496	7,694	5,964	5,513	5,317	26,906	33,968	11,695	7,562	9,382
Bridgeport, Conn.	1,140	938	581	484	471	2,618	2,753	1,249	566	678
Brockton, Mass.	772	614	482	404	344	1,113	830	495	326	206
Buffalo, N. Y.	3,763	3,568	2,240	1,919	1,757	14,825	9,338	4,067	2,371	2,643
Cambridge, Mass.	773	650	490	513	633	11,063	4,991	1,977	1,321	595
Camden, N. J.	832	609	301	311	295	2,582	1,130	445	223	501
Canton, Ohio	930	627	319	333	559	1,585	640	378	88	343
Cedar Rapids, Iowa	1,227	1,177	1,004	1,001	1,062	2,032	1,606	436	416	1,516
Charleston, S. C.	438	400	466	330	348	1,103	414	244	361	677
Charleston, W. Va.	456	325	381	324	277	6,881	1,050	491	230	274
Charlotte, N. C.	824	641	397	279	360	2,588	1,318	602	736	792
Chattanooga, Tenn.	2,978	2,349	1,622	1,706	2,338	2,934	1,230	2,185	631	625
Chester, Pa.	252	146	61	68	56	1,139	681	126	63	232
Chicago, Ill.	10,380	6,619	3,872	3,166	3,201	85,749	66,694	12,881	5,729	10,176
Cicero, Ill.	241	142	93	74	64	1,117	1,071	66	57	159
Cincinnati, Ohio	6,667	5,395	3,861	3,687	3,788	33,161	21,467	7,820	4,194	4,587
Cleveland, Ohio	7,637	6,645	3,612	3,005	2,871	32,554	11,991	12,048	2,750	3,262
Columbia, S. C.	535	559	505	292	319	1,903	2,073	631	143	930
Columbus, Ohio	2,594	1,738	1,074	908	952	5,616	3,369	1,868	2,136	862
Covington, Ky.	343	347	212	123	182	629	761	197	160	134
Dallas, Tex.	3,325	3,071	2,409	3,044	2,594	11,028	4,348	2,222	1,821	2,551
Davenport, Iowa	1,557	1,493	1,157	2,237	1,360	2,462	1,252	712	432	355
Dayton, Ohio	1,697	1,396	744	640	603	5,958	2,895	939	598	1,426
Decatur, Ill.	447	252	158	136	136	1,991	781	179	158	845
Denver, Colo.	5,043	4,183	3,523	3,421	2,948	7,648	6,828	3,001	1,881	2,265
Des Moines, Iowa	1,113	1,171	953	899	879	4,011	3,033	1,895	751	1,489
Detroit, Mich.	15,313	10,082	5,159	4,079	5,454	48,369	23,435	8,740	4,053	8,889
Duluth, Minn.	1,390	1,472	919	920	1,157	2,168	948	1,352	1,014	604
Durham, N. C.	233	191	152	199	261	1,047	693	667	538	676
East Chicago, Ind.	367	215	58	117	[2] 76	1,801	605	76	184	[2] 151
East Orange, N. J.	678	644	353	444	334	2,627	1,411	665	258	490
East St. Louis, Ill.	566	468	321	279	267	1,365	1,052	272	192	238
Elizabeth, N. J.	433	292	216	401	265	2,384	2,348	385	618	273
El Paso, Tex.	1,123	697	419	361	383	2,937	949	376	281	255
Erie, Pa.	1,480	1,220	685	484	421	3,302	2,711	673	544	280
Evanston, Ill.	513	354	224	183	213	3,103	3,251	789	400	742
Evansville, Ind.	1,639	1,055	814	1,224	917	1,761	1,188	485	281	644
Fall River, Mass.	561	537	428	378	393	1,189	697	447	183	282
Flint, Mich.	3,104	2,103	992	1,094	2,259	3,994	1,966	262	420	702
Fort Wayne, Ind.	1,351	1,311	595	439	496	3,099	3,188	1,623	761	451
Fort Worth, Tex.	2,616	1,923	1,325	922	903	10,463	6,345	1,432	2,626	1,405
Fresno, Calif.	1,496	1,437	1,088	964	1,264	1,333	1,007	893	546	796
Galveston, Tex.	1,376	1,371	1,454	1,033	1,328	1,717	2,543	877	454	484
Gary, Ind.	743	340	89	131	145	1,177	983	130	113	221
Grand Rapids, Mich.	2,640	1,664	1,002	700	805	2,922	1,147	1,513	415	454
Greensboro, N. C.	471	511	393	360	422	766	1,135	209	256	621

[1] Applications filed.

[2] For 10 months only; November and December not available.

No. 810.—Building Permits Issued in Principal Cities—Continued

City and State	Total number of buildings					Proposed cost of buildings (thousands of dollars)				
	1930	1931	1932	1933	1934	1930	1931	1932	1933	1934
Hamilton, Ohio	502	325	361	142	360	1,552	467	703	64	742
Hammond, Ind	704	345	190	194	223	1,876	3,314	152	190	279
Hamtramck, Mich	322	228	118	140	296	1,299	121	54	202	274
Harrisburg, Pa	676	482	350	289	236	2,519	2,001	695	464	352
Hartford, Conn	1,339	1,331	1,116	1,186	1,534	6,365	4,847	2,068	864	1,882
Highland Park, Mich	235	142	132	120	151	624	117	81	57	160
Hoboken, N. J	272	289	227	271	326	828	567	486	166	165
Holyoke, Mass	250	243	149	149	156	1,703	766	237	185	584
Houston, Tex	2,741	2,261	963	1,480	2,085	17,265	11,863	2,573	3,034	4,698
Huntington, W. Va	201	236	237	169	205	770	1,096	202	212	179
Indianapolis, Ind	4,919	3,229	2,160	2,014	2,922	7,451	9,339	2,546	1,699	2,707
Irvington, N. J	445	380	242	164	142	1,700	1,749	366	199	149
Jackson, Mich	736	506	280	226	234	698	410	374	184	83
Jacksonville, Fla	2,103	2,288	2,331	3,171	4,185	2,410	1,847	2,344	1,530	2,150
Jersey City, N. J	835	725	571	458	634	12,167	1,991	1,171	1,130	867
Johnstown, Pa	412	327	214	216	340	696	605	139	82	126
Kalamazoo, Mich	973	742	493	444	507	1,172	1,085	202	238	517
Kansas City, Kans	673	596	358	381	340	1,350	667	288	193	264
Kansas City, Mo	1,503	1,396	708	583	525	15,663	8,291	1,961	943	1,423
Kenosha, Wis	522	387	210	190	203	1,484	646	248	115	184
Knoxville, Tenn	667	526	316	296	396	3,627	1,035	1,415	475	1,072
Lakewood, Ohio	456	391	311	227	223	1,482	797	404	183	304
Lancaster, Pa	520	410	202	115	249	1,381	538	362	141	268
Lansing, Mich	722	470	329	282	474	2,065	1,209	523	108	394
Lawrence, Mass	236	350	180	199	230	618	892	235	192	754
Lincoln, Nebr	609	627	394	641	1,188	1,598	1,745	340	358	567
Little Rock, Ark	1,496	848	742	733	1,185	2,251	2,771	398	205	456
Long Beach, Calif	4,502	3,304	2,449	9,320	3,537	13,058	4,472	3,101	6,384	2,565
Los Angeles, Calif	30,614	25,311	17,122	15,873	15,966	75,357	41,422	17,786	15,396	14,968
Louisville, Ky	1,756	1,174	898	695	849	6,937	5,585	2,415	1,627	2,309
Lowell, Mass	663	537	434	405	392	1,147	627	167	251	238
Lynn, Mass	1,041	802	626	523	457	2,972	1,521	740	418	444
Macon, Ga	674	501	420	391	333	777	564	585	557	644
Madison, Wis	845	685	398	377	466	2,348	1,345	608	312	716
Malden, Mass	475	495	328	237	271	1,133	985	252	144	275
Manchester, N. H	1,095	1,045	996	782	804	765	826	717	382	392
McKeesport, Pa	1,231	815	404	338	416	1,052	632	349	136	164
Medford, Mass	625	608	303	242	192	1,656	2,243	461	326	279
Memphis, Tenn	3,693	2,717	2,059	1,811	2,131	9,501	3,334	1,809	1,625	1,516
Miami, Fla	3,032	2,970	2,354	2,382	4,124	1,917	3,097	1,197	1,722	2,711
Milwaukee, Wis	4,939	3,892	2,165	1,791	2,191	25,285	12,634	4,147	2,207	2,814
Minneapolis, Minn	5,932	5,861	3,889	3,020	3,035	13,449	12,390	6,991	2,821	3,218
Mobile, Ala	680	443	343	432	591	1,100	881	639	385	807
Montgomery, Ala	1,558	1,194	829	889	1,547	1,274	820	1,187	586	1,183
Mt. Vernon, N. Y	596	516	293	216	189	4,197	3,819	677	608	469
Nashville, Tenn	2,062	1,580	1,273	1,016	818	5,517	4,403	1,124	1,829	1,359
Newark, N. J	1,882	1,593	1,025	857	803	12,379	6,456	5,410	4,594	2,695
New Bedford, Mass	520	542	423	500	493	982	471	194	233	440
New Britain, Conn	592	535	403	379	556	896	1,000	317	261	750
New Haven, Conn	1,193	1,003	749	626	529	15,924	9,491	2,449	1,910	2,067
New Orleans, La	1,227	1,323	1,047	853	851	6,487	5,526	3,406	1,251	1,422
New Rochelle, N. Y	609	485	288	218	178	5,669	4,340	715	525	382
Newton, Mass	1,048	915	511	567	555	5,870	4,882	1,341	1,680	2,227
New York, N. Y.:										
Borough of Bronx [1]	7,507	7,183	5,956	6,640	6,713	56,116	65,399	8,881	20,770	11,458
Borough of Brooklyn [1]	11,503	11,396	8,350	10,222	11,401	70,632	75,534	20,396	19,008	21,110
Borough of Manhattan [1]	3,396	3,202	2,487	2,991	3,861	198,445	137,371	30,496	28,204	44,807
Borough of Queens [1]	17,583	18,899	12,049	11,530	11,798	77,344	76,754	15,982	14,802	14,825
Borough of Richmond [1]	2,539	2,217	1,592	1,477	1,540	7,629	7,805	3,097	3,777	4,462
Niagara Falls, N. Y	1,640	1,305	1,013	897	824	3,736	1,249	904	441	1,006
Norfolk, Va	1,092	1,142	966	758	586	2,603	1,640	3,091	1,087	1,435
Oakland, Calif	3,154	2,734	2,023	1,722	2,794	9,085	7,223	2,266	1,945	2,689
Oak Park, Ill	315	240	119	112	139	1,861	1,249	600	126	327
Oklahoma City, Okla	3,270	1,796	859	625	843	26,412	19,019	7,176	2,934	1,719
Omaha, Nebr	854	1,017	740	770	861	5,121	3,915	2,228	1,100	1,907
Pasadena, Calif	4,040	3,285	2,978	2,725	2,868	5,886	4,460	1,220	994	1,721
Passaic, N. J	709	629	569	470	687	2,099	604	451	355	471
Paterson, N. J	1,735	1,477	1,066	947	1,008	2,088	1,548	1,177	736	724
Pawtucket, R. I	597	525	256	295	346	1,847	962	288	273	909

[1] Applications filed.

No. 810.—Building Permits Issued in Principal Cities—Continued

City and State	Total number of buildings					Proposed cost of buildings (thousands of dollars)				
	1930	1931	1932	1933	1934	1930	1931	1932	1933	1934
Peoria, Ill	1,150	807	497	506	532	3,436	2,515	584	1,877	934
Philadelphia, Pa	6,430	5,491	4,144	3,577	3,524	53,142	35,265	17,863	12,099	8,284
Pittsburgh, Pa	5,115	4,059	2,401	2,317	2,150	20,730	19,386	9,135	2,695	2,443
Pontiac, Mich	572	444	193	206	299	1,280	341	77	67	170
Port Arthur, Tex	1,070	626	398	[3] 243	[4] 459	2,430	905	87	[3] 44	[4] 223
Portland, Me	1,173	1,117	922	685	754	1,567	1,254	1,067	537	451
Portland, Oreg	6,041	4,823	3,435	3,185	3,053	12,063	7,156	2,982	2,385	2,358
Providence, R. I	4,835	4,729	4,004	3,500	3,578	10,742	7,913	2,189	2,325	1,711
Pueblo, Colo	1,028	736	424	406	474	538	454	129	97	165
Quincy, Mass	1,438	1,312	904	864	712	2,724	1,783	687	496	379
Racine, Wis	723	333	134	142	182	3,924	1,757	205	100	160
Reading, Pa	2,417	1,543	843	644	706	2,474	2,772	478	327	1,329
Richmond, Va	1,668	1,543	1,119	1,005	1,244	5,951	3,054	1,096	1,025	1,803
Roanoke, Va	499	422	293	278	292	2,606	1,113	257	1,592	167
Rochester, N. Y	2,490	2,291	1,785	1,359	1,294	8,011	6,303	3,557	2,078	3,724
Rockford, Ill	1,039	583	249	218	309	2,908	647	732	120	320
Sacramento, Calif	1,636	1,377	1,373	1,147	923	3,029	3,787	2,389	1,349	1,732
Saginaw, Mich	1,054	825	542	507	637	2,690	485	288	219	337
St. Joseph, Mo	470	453	274	235	165	1,620	431	220	241	418
St. Louis, Mo	8,120	6,754	4,387	3,546	3,650	17,322	16,620	4,414	13,068	5,269
St. Paul, Minn	3,780	3,959	2,813	2,750	2,566	10,682	12,552	2,796	4,566	2,343
Salt Lake City, Utah	948	968	518	528	967	4,274	3,462	540	571	1,177
San Antonio, Tex	3,234	2,586	2,023	1,538	1,707	8,488	3,272	1,638	2,310	1,754
San Diego, Calif	3,219	2,831	2,067	1,874	1,858	5,426	5,811	2,592	2,539	2,746
San Francisco, Calif	4,951	5,251	3,931	3,439	2,935	22,414	21,442	16,465	58,198	7,112
San Jose, Calif	755	811	583	558	676	3,403	1,803	1,230	1,152	1,323
Savannah, Ga	187	276	181	918	221	1,069	450	155	473	391
Schenectady, N. Y	1,390	1,050	754	795	976	5,339	1,300	599	660	564
Scranton, Pa	826	744	652	594	618	3,190	1,378	2,126	458	664
Seattle, Wash	6,577	5,714	3,677	2,980	3,133	30,356	12,483	3,257	1,953	2,318
Shreveport, La	1,924	1,687	1,332	1,198	1,818	1,542	1,600	455	1,337	1,865
Sioux City, Iowa	705	668	328	315	310	3,412	1,571	1,141	377	1,145
Somerville, Mass	555	559	395	354	323	1,380	980	556	234	252
South Bend, Ind	1,760	1,074	665	470	577	3,709	1,329	493	285	228
Spokane, Wash	2,169	1,757	1,334	1,209	1,325	3,641	2,176	566	808	754
Springfield, Ill	964	850	602	395	247	3,179	2,329	714	636	418
Springfield, Mass	1,062	827	569	507	513	5,703	2,948	1,021	747	988
Springfield, Mo	426	347	329	403	406	1,115	2,283	361	325	440
Springfield, Ohio	651	428	231	194	267	777	1,194	445	60	217
Syracuse, N. Y	1,532	1,268	657	590	576	5,399	7,000	1,598	646	1,241
Tacoma, Wash	1,621	1,278	800	615	706	4,070	2,002	432	534	459
Tampa, Fla	2,337	2,642	2,065	1,937	1,985	1,302	741	414	407	440
Terre Haute, Ind	879	675	507	438	439	687	228	615	192	1,125
Toledo, Ohio	2,637	1,822	898	921	998	10,405	2,295	493	401	2,448
Topeka, Kans	684	591	435	453	436	2,425	2,305	909	260	305
Trenton, N. J	580	565	399	438	443	2,449	2,421	707	411	675
Troy, N. Y	713	556	451	467	428	3,024	2,201	723	470	674
Tulsa, Okla	2,360	1,501	714	646	690	8,356	4,389	513	514	1,008
Union City, N. J	497	534	389	355	357	887	1,075	624	170	261
Utica, N. Y	552	326	207	166	225	1,350	1,134	533	619	1,317
Waco, Tex	360	312	319	252	191	1,154	1,779	327	257	206
Washington, D. C	4,605	5,819	4,492	3,819	4,548	48,824	52,588	59,927	8,539	20,929
Waterbury, Conn	541	438	290	281	338	2,037	1,187	309	286	640
Wheeling, W. Va	528	421	271	273	422	1,121	645	318	343	429
Wichita, Kans	1,762	1,132	652	560	811	6,308	2,340	1,195	351	707
Wilkes-Barre, Pa	774	696	601	561	612	1,669	1,170	780	719	438
Wilmington, Del	1,407	1,055	559	573	584	4,917	3,297	1,382	2,118	1,156
Winston-Salem, N.C	1,217	1,027	584	553	706	1,602	852	403	246	352
Worcester, Mass	1,663	1,304	950	932	1,103	6,341	5,692	1,583	1,162	1,306
Yonkers, N. Y	1,134	1,265	810	663	469	9,887	10,014	2,595	2,145	942
York, Pa	830	891	674	672	694	1,679	792	235	392	432
Youngstown, Ohio	1,029	768	473	587	694	2,801	1,464	595	543	449

[3] For 7 months only; August to December not available.
[4] For 11 months only; December not available.

Source: Bureau of Labor Statistics, Department of Labor.

No. 811.—BUILDING PERMITS ISSUED, BY CLASSES

NOTE.—See headnote, table 810. Figures represent 819 identical cities

Class of building	Number of buildings		Percentage change	Proposed cost (1,000 dollars)		Percentage change
	1933	1934		1933	1934	
Grand total, all buildings	327,288	351,221	+7.3	467,057	492,631	+5.5
Total new buildings	90,321	86,715	−4.0	336,550	323,721	−3.8
New residential buildings	24,304	21,990	−9.5	123,687	107,942	−12.7
1-family dwellings	22,358	20,396	−8.8	84,988	78,994	−7.1
2-family dwellings	1,267	977	−22.9	7,134	5,841	−18.1
1-family and 2-family dwellings with stores	259	216	−16.6	1,312	1,013	−22.8
Multifamily dwellings	364	320	−12.1	28,828	18,947	−34.3
Multifamily dwellings with stores	17	23	+35.3	209	511	+145.0
Hotels	2	3	+50.0	103	160	+56.1
Lodging houses	15	6	−60.0	104	24	−76.6
Other	22	49	+122.7	1,010	2,451	+142.7
New nonresidential buildings	66,017	64,725	−2.0	212,863	215,779	+1.4
Amusement buildings	437	603	+38.0	5,297	10,277	+94.0
Churches	324	401	+23.8	5,743	5,808	+1.1
Factories and workshops	1,046	1,163	+11.2	20,653	18,151	−12.1
Public garages	*380*	*515*	*+35.5*	*2,006*	*3,363*	*+67.7*
Private garages	40,938	37,935	−7.3	9,256	9,104	−1.6
Service stations	3,057	3,002	−1.8	7,063	9,521	+34.8
Institutions	87	124	+42.5	20,864	13,034	−37.5
Office buildings	111	164	+47.7	5,552	14,371	+158.8
Public buildings	169	351	+107.7	36,889	41,432	+12.3
Public works and utilities	251	393	+56.6	57,535	14,559	−74.7
Schools and libraries	98	482	+391.8	11,866	36,530	+207.8
Sheds	12,863	12,378	−3.8	3,231	3,441	+6.5
Stables and barns	496	686	+38.3	407	1,121	+175.3
Stores and warehouses	5,215	5,424	+4.0	25,459	33,505	+31.6
All other	545	1,104	+102.6	1,044	1,562	+49.6
Additions, alterations, and repairs	236,967	264,506	+11.6	130,506	168,910	+29.4

Source: Bureau of Labor Statistics, Department of Labor.

No. 812.—INDEX NUMBERS OF BUILDING-MATERIAL PRICES AND CONSTRUCTION COSTS

[Monthly average 1923–1925=100]

Year	Wholesale price indexes [1]							Construction costs [6]	Factory building costs
	All building materials	Lumber	Brick and tile [2]	Portland cement, plant [3]	Structural steel [4]	Paint and paint materials [5]	Other building materials		
1913	54.4	52.0	38.0	56.5	68.0	49.1	61.1	47.1	-------
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*	*85.6*	*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
1923	104.3	107.6	101.2	102.4	109.1	98.0	102.1	100.9	101.9
1924	98.2	95.6	101.0	100.3	100.7	96.4	100.7	101.6	100.1
1925	97.6	96.8	97.8	97.3	90.1	105.7	97.2	97.5	98.1
1926	96.0	96.2	97.7	94.9	88.2	96.7	96.8	98.1	99.5
1927	90.9	89.6	93.5	91.7	83.5	93.1	92.4	97.3	97.2
1928	90.3	87.1	93.4	91.0	84.0	90.0	93.6	97.5	96.4
1929	91.6	90.3	92.1	87.1	86.5	91.8	94.6	97.6	[7] 95.9
1930	86.3	82.6	87.7	87.1	77.0	87.5	90.3	95.7	[7] 94.3
1931	76.0	66.9	81.6	75.3	73.3	76.8	82.1	85.5	[7] 88.8
1932	68.5	56.3	75.5	73.2	71.3	68.8	77.0	74.0	[7] 84.8
1933	*73.9*	*68.0*	*77.3*	*81.7*	*73.3*	*70.9*	*80.1*	*80.3*	[7] 85.8
1934	82.7	81.3	88.1	88.4	80.1	76.9	87.4	93.4	[7] 89.3

[1] Beginning 1926 the indexes, except for Portland cement and structural steel, have been revised to include additional items not previously included; the "All building materials" index also includes plumbing and heating equipment (not shown separately in this table) for which data are not available prior to 1926.
[2] Excludes tile prior to 1926. [3] Composite price. [4] Pittsburgh district. [5] Excludes paint prior to 1926.
[6] Based upon the cost of lumber, steel, cement, and the rates paid common labor.
[7] Average of March, June, September, and December.

Sources: Wholesale prices, Department of Labor; Construction costs, Engineering News-Record; Standard factory building costs, Aberthaw Construction Co.

No. 813.—CONSTRUCTION PROJECTS FINANCED FROM PUBLIC WORKS ADMINISTRATION FUNDS AND FROM REGULAR GOVERNMENTAL APPROPRIATIONS: VALUE OF CONTRACTS AWARDED AND FORCE-ACCOUNT PROJECTS STARTED

NOTE.—**In thousands of dollars.** In the case of Federal projects financed from Public Works funds the entire amount is allotted to Federal departments or agencies. The work is performed by commercial firms under contracts or, if a force-account project (no contract let), by day labor hired directly by the Federal agencies. In the case of allotments to States and local governments for non-Federal projects the Public Works Administration makes a direct grant of not more than 30 percent of the total construction cost. The public agency finances the other 70 percent, in some cases through loans at interest from the Public Works Administration. Commercial allotments are in the form of loans and for the most part have been made to railroads

Year and geographic division	Federal projects financed from public works funds									
	Total	Building construction	Public roads	River, harbor, and flood-control projects	Streets and roads [1]	Naval vessels	Reclamation projects	Forestry	Water and sewerage systems	Miscellaneous
1933, June to December	640,514	50,605	181,876	117,593	17,704	191,875	57,975	8,885	1,979	12,016
1934, total	[2] 636,247	59,884	264,955	133,399	14,654	38,800	[2] 86,866	3,560	3,691	[2] 30,338
New England	18,724	3,711	10,047	1,979	190	731	44	96	61	1,864
Middle Atlantic	74,994	11,541	30,756	4,651	385	20,420	100	30	240	6,871
East North Central	68,728	5,017	41,061	13,649	226	76	1,042	895	248	6,514
West North Central	69,915	2,562	39,371	24,381	1,189	-------	1,249	99	233	831
South Atlantic	98,551	17,469	33,782	18,565	3,722	16,752	2,141	184	1,598	4,337
East South Central	35,463	2,052	25,857	5,282	552	-------	1,027	117	134	443
West South Central	48,992	3,902	29,430	11,519	621	11	2,000	89	261	1,167
Mountain	120,948	5,993	33,654	31,430	4,659	-------	39,940	486	749	4,036
Pacific	90,197	3,837	21,008	18,704	2,378	716	38,969	1,564	160	2,861
Outside cont'l. U. S.	9,674	3,900	-------	3,239	731	92	344	-------	6	1,361

Year and geographic division	Non-Federal projects financed from public works funds						Federal projects financed from regular appropriations [3]			
	Total	Building construction	Streets and roads [1]	Water and sewerage systems	Railroad construction and repair	Miscellaneous	Total [4]	Building construction	River, harbor, and flood-control projects	Naval vessels
1933, June to December	60,581	24,480	8,770	26,215	-------	1,117	-------	-------	-------	-------
1934, total	529,422	170,383	50,243	100,906	198,181	9,709	[4] 147,453	15,388	7,987	114,151
New England	49,977	20,453	12,474	7,812	7,837	1,401	39,335	228	75	38,879
Middle Atlantic	182,450	59,575	8,907	10,490	103,301	177	38,550	6,881	294	31,251
East North Central	78,730	12,539	4,130	29,358	31,781	921	3,980	2,709	452	-------
West North Central	51,979	24,117	6,348	13,897	4,308	3,310	2,328	608	36	-------
South Atlantic	68,036	17,756	7,900	11,432	29,859	1,089	28,632	3,217	259	23,965
East South Central	18,367	5,444	707	4,554	7,581	81	2,281	369	1,473	-------
West South Central	24,262	10,693	1,630	6,891	3,543	1,505	5,376	357	4,591	-------
Mountain	15,524	4,308	1,711	5,572	3,693	240	2,605	69	3	-------
Pacific	38,423	15,301	6,436	9,645	6,279	761	22,835	417	804	19,412
Outside cont'l. U. S.	1,675	196	-------	1,255	-------	224	1,496	535	-------	644

[1] Except those reported by Bureau of Public Roads.
[2] Includes small amounts not allocated by divisions.
[3] Data are for July–December 1934.
[4] Includes small amounts for classes not shown separately.
Source: Bureau of Labor Statistics, Department of Labor.

No. 814.—RESIDENTIAL STRUCTURES IN 64 CITIES, 1934 [1]

Item	Number	Percent	Item	Number	Percent	Item	Number	Percent
Persons inventoried	9,074,783	100.0	**Dwelling units by type**	2,633,135	100.0	**Owner-occupied**	1,035,927	39.3
Families	2,612,107	100.0	Single family	1,536,806	58.4	Owned free	390,537	37.7
Structures by type	1,931,055	100.0	2-family	501,340	19.0	Mortgaged	498,382	48.1
Single-family	1,536,806	79.6	3-family	79,302	3.0	Not reported	147,008	14.2
2-family	250,670	13.0	4-family	86,676	3.3	**Rental units**	1,597,208	60.7
3-family	26,434	1.4	Row house	34,218	1.3	Under $15	540,852	33.9
4-family	21,669	1.1	Apartment	246,946	9.4	$15 to $30	697,695	43.7
Row house	7,051	.4	Other	147,847	5.6	$30 and over	358,661	22.5
Apartment	22,053	1.1	Occupied	2,428,907	92.2	**Dwelling units equipped with**		
Other	66,372	3.4	Very spacious	703,635	29.0	**Furnace or boiler**	1,141,142	43.3
Condition of structure:			Spacious	655,106	27.0	Mechanical refrigeration	447,135	17.0
Good	726,245	37.6	Adequate	651,840	26.8	Gas for cooking	1,828,463	69.4
Minor repairs	857,326	44.4	Crowded	379,434	15.6	Electricity for lighting	2,385,880	90.6
Major repairs	301,740	15.6	Over-crowded	29,283	1.2	Tub and/or shower	2,627,849	99.8
Unfit for use	43,901	2.3	Greatly overcrowded	6,120	.3			
Not reported	1,843	.1	Not reported	3,489	.1			
			Vacant	204,228	7.8			

[1] Totals of selected items shown for individual cities in table 815. See also headnote of that table.
Source: Bureau of Foreign and Domestic Commerce, Department of Commerce.

No. 815.—RESIDENTIAL STRUCTURES IN 64 CITIES: SELECTED

NOTE.—The cities included in the real property inventory were selected from every State in the Union population of 11,000 to more than 1,000,000. The total population of the areas canvassed constituted ings with residential units except hotels, clubs, rooming houses, and summer cottages.

	City	Total number of persons inventoried	Total number of families	Total number of structures	Dwelling units			Owner-occupied units			Total number of rental units
					Total number	Percent of total occupied	Percent of occupied units crowded [1]	Total number	Percent of total [2]		
									Owned free	Mortgaged	
1	Albuquerque, N. Mex. [4]	26,375	7,490	6,458	7,820	92.4	26.7	3,193	46.3	39.2	4,627
2	Asheville, N. C. [4]	45,060	12,547	10,833	12,584	88.7	21.1	3,529	49.8	43.8	9,055
3	Atlanta, Ga.	353,093	98,593	69,267	95,582	92.7	29.5	26,880	36.8	51.5	68,702
4	Austin, Tex. [4]	55,487	15,554	12,849	14,407	97.3	27.1	6,167	48.2	34.5	8,240
5	Baton Rouge, La. [4]	28,339	7,725	6,951	7,692	93.6	24.1	2,396	47.8	38.6	5,296
6	Binghamton, N. Y.	118,847	32,701	21,757	32,409	96.1	11.3	14,650	32.5	42.9	17,759
7	Birmingham, Ala.	356,871	101,225	82,704	101,721	90.2	30.0	27,223	46.3	49.3	74,498
8	Boise, Idaho [4]	20,697	6,522	5,167	6,477	95.1	17.0	2,910	55.9	36.7	3,567
9	Burlington, Vt. [4]	24,904	6,648	4,252	6,618	94.9	16.3	2,590	37.5	36.5	4,028
10	Butte, Mont. [4]	29,300	9,522	7,358	10,727	84.1	17.9	4,084	67.9	15.0	6,643
11	Casper, Wyo. [4]	16,007	5,056	4,227	5,619	87.6	20.9	2,024	55.1	36.8	3,595
12	Charleston, S. C. [4]	60,744	17,511	10,759	17,911	92.7	40.4	3,324	45.9	15.0	14,587
13	Cleveland, Ohio	1,132,556	313,298	202,569	319,181	91.5	13.6	122,829	29.4	67.9	196,352
14	Columbia, S. C. [4]	46,651	12,361	10,009	12,188	94.7	32.4	3,174	38.3	43.2	9,014
15	Dallas, Tex.	202,773	84,829	66,813	83,628	93.0	23.2	28,578	39.8	47.6	55,050
16	Decatur, Ill. [4]	55,705	16,603	14,662	16,407	94.0	14.0	7,205	40.4	44.2	9,202
17	Des Moines, Iowa	152,689	45,277	37,341	44,858	94.7	15.4	20,173	46.5	48.9	24,685
18	Erie, Pa.	118,128	31,335	25,194	33,179	89.3	13.0	14,481	36.7	40.8	18,698
19	Fargo, N. Dak. [4]	26,901	7,250	5,209	7,467	93.6	23.2	2,733	38.8	46.2	4,734
20	Frederick, Md. [4]	13,931	4,019	2,635	3,785	97.6	12.7	1,609	22.9	10.3	2,176
21	Greensboro, N. C. [4]	51,408	12,887	11,000	12,061	96.1	26.9	3,547	44.9	51.2	8,514
22	Hagerstown, Md. [4]	30,626	8,404	5,035	8,149	94.7	13.6	2,687	34.8	30.4	5,462
23	Indianapolis, Ind.	403,033	124,415	94,807	126,029	89.1	13.3	45,510	32.8	57.7	80,519
24	Jackson, Miss. [4]	43,883	12,614	9,563	11,422	98.2	27.2	3,590	29.8	49.3	7,832
25	Jacksonville, Fla.	149,085	43,720	35,530	42,522	90.6	20.8	11,757	49.9	39.7	30,765
26	Kenosha, Wis. [4]	53,015	13,978	11,058	13,843	95.6	15.2	6,787	25.4	53.6	7,056
27	Knoxville, Tenn.	128,082	33,435	29,188	32,275	93.9	30.0	12,120	58.3	38.2	20,155
28	Lansing, Mich. [4]	73,699	21,453	18,144	20,815	95.9	8.9	9,347	37.6	54.2	11,468
29	Lincoln, Nebr. [4]	77,262	22,953	18,780	23,242	92.3	13.8	10,670	48.2	41.6	12,572
30	Little Rock, Ark.	97,056	28,291	25,161	27,792	93.0	22.8	10,273	51.1	42.4	17,519
31	Minneapolis, Minn.	470,273	135,293	95,859	140,317	91.5	14.9	59,226	32.9	47.2	81,091
32	Nashua, N. H. [4]	30,064	8,200	4,646	7,969	94.9	15.5	2,906	30.9	31.9	5,063
33	Oklahoma City, Okla.	178,638	53,393	40,093	49,714	96.2	25.4	18,270	34.0	58.5	31,444
34	Paducah, Ky. [4]	31,626	9,576	7,765	9,029	94.3	28.4	3,029	44.2	16.9	6,000
35	Peoria, Ill.	125,715	37,621	31,146	35,862	96.4	15.1	18,108	41.6	51.0	17,754
36	Phoenix, Ariz. [4]	43,884	14,035	10,519	14,392	92.9	18.8	4,090	35.4	50.7	10,302
37	Portland, Maine [4]	62,808	18,179	10,475	19,689	88.2	12.6	5,915	36.4	23.6	13,774
38	Portland, Oreg.	329,060	111,052	93,526	115,270	91.2	8.1	55,412	48.7	48.6	59,858
39	Providence, R. I.	624,469	164,977	99,707	170,175	92.3	16.9	62,048	22.4	40.3	108,127
40	Pueblo, Colo. [4]	40,901	12,287	10,882	12,723	91.7	18.7	5,841	36.8	27.1	6,882
41	Racine, Wis. [4]	72,866	19,776	15,565	20,253	92.9	12.0	10,028	26.8	52.7	10,225
42	Reno, Nev. [4]	15,763	5,628	4,652	6,194	87.7	10.7	2,406	50.1	36.8	3,788
43	Richmond, Va.	207,295	56,975	41,201	54,957	91.8	20.1	19,987	42.3	46.7	34,970
44	Sacramento, Calif.	107,157	34,664	28,292	36,505	90.0	13.3	16,454	38.6	48.4	20,051
45	St. Joseph, Mo.	66,007	20,051	16,686	19,932	92.4	16.9	7,778	56.4	35.6	12,154
46	St. Paul, Minn.	309,654	88,634	65,174	86,206	94.1	14.6	42,158	47.6	38.0	44,048
47	Salt Lake City, Utah	177,466	47,959	37,858	48,175	92.7	27.7	23,507	44.1	50.8	24,668
48	San Diego, Calif.	173,486	61,139	52,565	63,695	91.0	8.9	24,799	49.5	43.9	38,896
49	Santa Fe, N. Mex. [4]	9,058	2,639	2,145	2,720	91.6	35.5	1,219	57.5	27.2	1,501
50	Seattle, Wash.	380,561	128,310	102,017	135,609	89.8	10.3	60,331	47.8	48.0	75,278
51	Shreveport, La. [4]	74,860	22,288	19,722	21,872	92.4	23.9	7,032	41.7	51.9	14,840
52	Sioux, Falls, S. Dak. [4]	34,173	9,468	7,561	9,240	96.8	20.5	3,950	44.7	48.4	5,290
53	Springfield, Mo. [4]	55,855	17,313	14,801	16,200	95.2	19.6	7,414	49.0	44.7	8,786
54	Syracuse, N. Y.	228,359	64,220	43,509	65,184	93.2	9.5	27,429	19.6	54.9	37,755
55	Topeka, Kans.	63,736	19,562	16,390	19,092	95.3	14.1	9,148	51.2	42.2	9,944
56	Trenton, N. J.	168,525	43,146	26,556	42,801	94.3	13.4	21,365	17.6	41.7	21,436
57	Waterbury, Conn.	115,046	29,660	16,060	30,304	93.1	19.6	10,882	13.6	47.3	19,422
58	Wheeling, W. Va.	171,398	45,260	36,152	44,656	94.1	25.5	19,259	54.3	28.2	25,397
59	Wichita, Kans.	109,401	33,729	27,729	34,056	92.7	15.6	13,870	40.7	47.3	20,186
60	Wichita Falls, Tex. [4]	36,773	10,666	9,667	10,722	91.7	21.5	3,433	58.5	35.9	7,289
61	Williamsport, Pa. [4]	41,387	11,872	8,459	12,141	92.4	9.7	5,226	41.1	28.7	6,915
62	Wilmington, Del.	145,710	38,727	20,806	39,022	94.4	12.4	16,694	28.1	43.1	22,328
63	Worcester, Mass.	255,481	67,088	38,548	69,371	92.4	14.5	25,654	16.6	49.1	43,717
64	Zanesville, Ohio [4]	35,125	10,504	9,042	10,678	91.9	13.6	5,019	54.0	36.7	5,659

[1] Includes units classed as crowded (1.01 to 2 persons per room), overcrowded (2.01 to 3 persons per room), and greatly overcrowded (over 3 persons per room); bathrooms are not counted as rooms.

[2] The difference between the sum of the percentages and 100 percent is accounted for by those unreported.

[3] The difference between the sum of the percentages and 100 percent is accounted for by the omission in this table of 3- and 4-family dwelling units and those classified as "Other dwelling units."

Statistics From the Real Property Inventory, 1934

as a representative sample of urban housing in the United States. The cities chosen vary in size from a about one-seventh of the total urban population of the United States. The survey covered all build-

Percent of total number of rental units with monthly rent [2]—			Percent distribution of dwelling units by type of structure [3]				Condition of structure, percent of total—			Percent of total dwelling units equipped with—					
Under $15	$15 to $30	$30 and over	Single family	2-family	Row house	Apartment	In need of minor repairs	In need of major repairs	Unfit for use	Furnace or boiler.	Mechanical refrigeration	Gas for cooking	Electricity for lighting	Tub and/or shower	
30.7	44.2	23.5	74.6	9.8	2.1	6.2	36.4	16.0	1.5	39.6	14.4	60.6	87.8	70.5	1
56.4	29.7	12.3	78.3	7.4	.4	5.5	45.8	22.7	3.9	40.9	16.0	17.9	80.6	72.2	2
53.3	27.5	17.7	56.9	23.6	.8	9.7	43.4	23.2	4.1	28.8	19.2	49.0	70.4	64.6	3
40.3	34.3	23.4	82.0	8.9	.3	2.3	38.4	19.2	3.1	3.0	15.0	64.5	78.6	72.4	4
44.9	32.3	20.0	83.4	9.3	1.4	1.6	49.4	17.7	2.0	5.4	13.0	55.6	69.9	69.6	5
7.0	56.5	35.4	45.4	29.3	.3	9.6	37.2	6.7	.4	77.5	13.6	81.3	97.7	90.7	6
79.0	15.3	5.1	67.3	24.8	.8	4.0	49.0	24.7	3.9	17.4	11.0	35.4	66.4	47.5	7
28.0	45.1	23.4	72.0	6.5	1.4	11.9	42.7	15.2	2.9	41.4	20.2	21.4	96.7	75.8	8
19.8	52.0	25.4	40.5	29.5	.8	10.3	47.3	8.5	1.1	55.8	16.1	75.6	97.7	76.6	9
42.2	38.6	13.8	55.2	13.5	2.1	14.7	41.1	23.7	4.9	27.0	9.2	29.6	98.3	67.7	10
37.7	36.5	15.2	65.1	9.1	5.4	12.6	45.4	19.7	6.1	35.5	14.5	86.9	90.9	68.6	11
64.4	23.2	10.8	33.4	29.2	1.6	2.8	34.6	22.3	4.1	2.7	9.1	35.1	49.8	43.6	12
16.8	52.6	29.8	41.5	28.8	.4	12.5	43.6	12.0	2.4	74.5	17.9	94.2	97.8	90.8	13
59.9	21.3	13.4	68.7	18.4	1.3	1.6	46.1	19.1	1.7	17.3	15.3	39.3	64.7	55.4	14
34.2	41.6	22.5	67.9	16.7	.1	6.6	44.8	15.8	2.6	3.2	16.6	79.0	84.9	76.1	15
42.4	44.8	9.4	83.7	5.7	.1	4.5	50.9	17.5	1.8	75.9	14.2	78.9	92.4	72.2	16
28.2	45.1	25.7	77.3	4.2	.2	9.0	45.8	17.2	1.9	75.5	17.3	79.1	95.0	67.9	17
19.8	62.1	17.1	54.8	31.5	2.0	2.5	42.3	10.9	.8	65.5	9.2	93.6	97.7	84.0	18
15.4	40.8	41.4	57.0	13.1	.2	15.0	41.9	12.4	3.0	37.0	25.8	82.8	97.5	80.1	19
38.9	45.6	13.9	44.6	34.4	5.6	1.8	45.5	9.1	.7	61.2	20.2	44.9	87.7	59.5	20
55.9	24.8	17.4	86.0	6.9	.4	2.4	52.6	17.0	2.6	27.4	18.4	32.8	82.7	55.0	21
32.8	51.3	14.3	34.8	42.0	5.7	7.3	40.1	9.0	1.0	65.9	19.5	53.4	94.6	76.3	22
42.4	39.0	17.3	60.3	23.9	.9	9.0	47.8	16.5	3.0	61.4	16.3	73.0	92.6	63.9	23
59.0	25.6	14.9	71.1	20.5	.3	1.8	54.3	21.9	1.9	3.0	10.1	53.9	64.0	54.3	24
54.7	33.2	11.3	71.4	17.2	.1	3.7	45.6	19.3	3.1	5.8	11.4	23.9	66.7	65.5	25
29.9	58.2	10.8	61.0	29.0	(1)	1.8	47.2	15.0	1.2	80.2	12.6	84.4	96.8	82.9	26
63.1	25.3	10.2	85.2	5.8	.6	3.5	48.2	20.4	3.5	23.3	10.9	17.0	68.7	51.1	27
37.6	49.1	12.7	79.2	9.3	.5	4.3	50.0	18.0	1.4	86.9	14.3	75.5	98.3	85.3	28
25.2	46.4	24.4	74.3	5.4	.2	12.3	38.3	14.0	1.2	80.3	27.6	80.1	97.0	81.4	29
55.8	31.2	8.4	84.7	6.5	.1	3.9	41.4	20.4	4.5	1.6	16.7	65.0	72.3	64.6	30
16.5	46.7	36.7	53.2	21.0	.4	14.8	38.9	12.2	1.4	76.6	21.3	88.8	97.2	83.8	31
28.1	54.6	14.0	34.0	30.3	2.6	10.3	43.1	11.4	1.9	45.3	14.5	64.2	95.3	73.3	32
34.4	42.2	19.5	70.5	12.6	.2	8.4	40.8	14.2	2.3	7.7	23.7	86.7	86.8	72.7	33
70.4	17.2	7.2	74.6	14.5	.4	2.9	40.1	31.5	8.0	16.3	6.4	29.4	68.6	48.3	34
26.4	48.9	23.9	78.5	8.5	.1	5.3	41.1	15.3	2.7	72.6	20.5	78.5	93.7	63.8	35
43.0	37.5	17.5	60.2	16.6	5.1	8.3	49.0	17.7	4.2	11.3	20.2	76.1	91.6	82.1	36
13.4	50.3	33.5	28.9	28.6	.8	18.2	41.0	11.1	.9	71.2	14.6	67.5	95.8	81.5	37
42.9	43.1	12.9	77.0	3.4	.5	14.9	45.5	16.0	1.6	64.4	20.5	51.6	97.3	88.3	38
23.5	57.2	18.4	31.7	31.1	.4	6.9	44.2	8.7	.6	48.1	11.9	75.7	96.2	76.8	39
52.2	30.9	7.4	78.3	7.0	1.1	5.7	43.2	16.5	2.2	41.4	12.5	36.3	90.7	66.1	40
37.4	48.3	11.8	56.8	30.1	.2	3.4	44.1	17.8	1.2	78.2	14.4	84.6	96.2	75.7	41
17.8	41.2	34.2	67.2	7.9	3.1	14.9	36.6	11.7	1.8	46.0	22.0	28.6	96.1	86.4	42
38.0	35.0	25.9	58.8	21.4	3.0	7.7	42.8	16.6	1.8	35.9	25.7	52.3	79.5	65.3	43
19.5	51.9	25.3	67.0	10.1	.3	9.8	44.4	15.2	3.4	22.1	17.6	80.5	96.3	84.9	44
44.8	40.2	14.1	71.8	16.4	.2	5.4	49.7	17.7	2.6	49.0	19.2	61.8	92.1	68.8	45
18.7	47.4	32.8	61.7	19.8	.3	10.0	43.3	15.4	1.7	73.7	16.7	84.2	96.3	80.9	46
35.7	43.5	19.6	71.3	8.6	1.8	13.3	40.8	18.8	2.6	46.7	23.8	29.7	97.8	81.7	47
19.6	57.8	21.3	76.1	5.8	1.0	10.7	39.1	11.6	1.5	6.9	16.2	93.2	97.6	91.1	48
40.0	28.9	27.2	66.8	10.7	4.4	2.0	35.5	14.1	1.3	15.2	10.8	32.3	74.7	55.5	49
31.9	46.3	20.7	70.2	3.7	.4	21.1	43.0	17.7	2.4	60.6	22.1	31.7	98.5	87.4	50
58.5	27.1	13.2	83.3	9.9	.5	1.7	50.6	11.0	1.1	.3	10.1	91.6	71.7	56.6	51
18.4	51.6	28.0	71.8	11.6	.2	6.6	43.6	14.5	1.0	79.7	18.4	80.6	97.7	74.1	52
56.2	28.7	9.8	86.9	4.5	.1	3.5	50.3	18.2	2.2	33.7	17.2	50.4	85.7	68.3	53
15.0	52.1	31.8	44.5	32.8	.4	8.2	45.7	8.9	.8	83.8	18.2	90.8	97.6	86.5	54
38.5	39.7	20.5	77.8	7.8	.3	5.4	44.3	18.5	2.2	53.2	16.8	83.0	94.7	66.5	55
16.9	52.3	29.7	36.4	34.2	18.3	2.7	50.0	10.0	1.2	76.0	14.7	84.9	93.1	83.1	56
19.3	60.9	19.3	29.4	19.1	.3	16.4	39.6	9.5	.8	42.4	13.1	81.9	97.1	86.9	57
50.5	37.4	10.1	64.1	22.5	1.3	1.9	47.3	23.8	4.9	34.6	15.2	71.5	82.5	51.0	58
46.5	37.0	14.5	74.5	7.3	.8	10.1	45.4	20.0	2.1	42.1	22.0	79.5	93.7	75.3	59
64.3	25.2	4.5	82.5	9.7	.1	2.9	44.8	20.0	2.6	2.8	13.2	84.0	83.6	81.7	60
28.8	53.8	15.0	46.8	33.3	3.4	6.9	41.3	19.5	1.1	71.6	13.8	74.7	93.1	78.2	61
20.2	49.6	28.7	31.3	20.8	31.5	5.1	47.2	10.6	2.7	63.1	17.1	77.9	89.1	77.3	62
19.7	58.6	20.8	31.3	20.0	1.3	9.8	53.2	11.0	.9	48.7	11.1	63.8	98.3	84.4	63
57.6	35.8	5.9	71.8	16.7	.4	4.1	48.4	19.3	1.6	47.2	13.6	85.7	88.6	62.9	64

[4] Data cover metropolitan district; data for city proper were published in the final reports of the real property inventory.

Source: Bureau of Foreign and Domestic Commerce, Department of Commerce.

No. 816.—CONSTRUCTION ESTABLISHMENTS WHICH DID A BUSINESS OF OVER $25,000 DURING 1929: VALUE OF BUSINESS AND PRINCIPAL EXPENDITURES BY STATES

NOTE.—The construction business of 113,799 active reporting establishments which did a business of less than $25,000 during 1929 amounted to $1,035,454,000 (figure partially estimated)

Division and State	Number of establishments	Value of construction business (1,000 dollars)			Principal expenditures (1,000 dollars)			Projected average number of workmen employed throughout the year [1]
		Total	Under general contract or directly for owner	Under subcontract	Subcontract work let	Wages paid	Cost of materials	
Continental U. S.	**30,597**	**6,250,267**	**4,911,766**	**1,338,501**	**1,455,494**	**1,467,542**	**2,055,595**	**823,772**
New England	**2,780**	**474,849**	**392,224**	**82,625**	**104,657**	**130,650**	**144,376**	**73,479**
Maine	142	13,100	11,408	1,692	1,507	4,513	4,185	2,843
New Hampshire	113	9,992	7,972	2,020	857	3,106	4,091	2,080
Vermont	61	5,878	4,955	923	266	1,898	2,611	1,243
Massachusetts	1,434	306,094	255,229	50,865	76,316	81,454	88,448	45,086
Rhode Island	226	30,675	25,317	5,358	5,385	8,566	9,958	4,997
Connecticut	804	109,110	87,343	21,767	20,326	31,111	35,083	17,230
Middle Atlantic	**8,546**	**2,219,827**	**1,709,448**	**510,379**	**610,855**	**519,448**	**658,851**	**250,447**
New York	4,372	1,323,724	993,098	330,626	385,625	318,537	363,751	139,508
New Jersey	1,483	292,175	238,500	53,675	57,114	66,005	110,025	33,018
Pennsylvania	2,691	603,928	477,851	126,078	168,116	134,906	185,075	77,921
East North Central	**7,934**	**1,568,591**	**1,202,108**	**366,483**	**343,927**	**374,717**	**542,728**	**202,122**
Ohio	2,043	400,298	317,307	82,991	89,779	90,596	144,722	53,679
Indiana	746	104,623	87,834	16,789	17,863	25,462	40,614	16,004
Illinois	2,497	589,011	440,190	148,821	134,487	151,494	186,280	72,344
Michigan	1,501	329,380	242,419	86,961	76,387	73,578	115,431	39,052
Wisconsin	1,147	145,279	114,357	30,921	25,411	33,588	55,681	21,043
West North Central	**2,490**	**438,590**	**369,185**	**69,406**	**71,046**	**104,914**	**160,143**	**72,716**
Minnesota	561	105,798	88,829	16,969	17,687	25,739	35,259	17,081
Iowa	486	76,782	70,717	6,065	8,122	18,795	30,042	12,705
Missouri	759	152,664	120,419	32,245	32,368	36,996	52,422	24,706
North Dakota	81	8,388	7,348	1,040	960	1,817	3,557	1,077
South Dakota	70	8,364	7,583	781	773	1,894	2,958	1,682
Nebraska	243	45,345	39,543	5,802	5,031	10,451	18,631	8,321
Kansas	290	41,249	34,745	6,504	6,105	9,223	17,274	7,144
South Atlantic	**2,184**	**439,732**	**347,907**	**91,825**	**101,494**	**95,665**	**152,128**	**72,824**
Delaware	91	18,696	14,063	4,633	3,907	4,050	6,702	2,412
Maryland	407	108,075	81,048	27,027	26,045	23,494	33,390	15,348
District of Columbia	253	66,201	49,781	16,420	26,355	13,486	15,501	8,826
Virginia	337	54,313	42,710	11,603	12,631	12,443	19,604	9,605
West Virginia	169	23,375	20,438	2,936	3,322	6,086	7,946	4,351
North Carolina	293	54,786	46,043	8,743	6,986	12,032	24,767	9,523
South Carolina	116	16,622	13,617	3,005	1,789	3,797	8,161	3,647
Georgia	230	57,077	45,840	11,237	10,587	11,293	23,624	11,578
Florida	288	40,587	34,366	6,220	9,872	8,983	12,435	7,534
East South Central	**936**	**164,952**	**130,341**	**34,611**	**27,852**	**35,474**	**62,133**	**29,355**
Kentucky	330	43,319	32,965	10,355	8,998	9,394	13,872	7,252
Tennessee	314	62,826	45,794	17,032	9,761	13,349	23,706	10,807
Alabama	197	45,859	40,630	5,229	7,018	9,813	19,380	8,934
Mississippi	95	12,948	10,953	1,995	2,075	2,918	5,177	2,362
West South Central	**1,609**	**307,705**	**259,633**	**48,071**	**50,855**	**69,823**	**118,365**	**47,596**
Arkansas	118	17,022	15,135	1,886	2,465	3,915	7,156	2,320
Louisiana	178	34,943	29,486	5,457	6,344	7,507	11,733	6,332
Oklahoma	312	56,298	48,723	7,575	7,086	13,028	22,225	8,976
Texas	1,001	199,442	166,289	33,153	34,960	45,373	77,250	29,968
Mountain	**709**	**90,105**	**73,189**	**16,916**	**15,902**	**21,247**	**29,218**	**13,169**
Montana	119	11,423	9,520	1,903	1,215	2,958	4,551	1,608
Idaho	44	7,120	6,570	551	852	2,207	1,168	1,782
Wyoming	40	3,061	2,707	354	296	848	984	439
Colorado	211	28,016	22,098	5,918	4,976	6,440	10,009	4,127
New Mexico	41	6,563	6,010	552	819	1,412	2,030	862
Arizona	105	12,932	9,468	3,464	2,610	2,595	4,969	1,616
Utah	129	17,350	13,570	3,780	4,451	4,041	4,717	2,470
Nevada	20	3,639	3,245	394	683	747	790	265
Pacific	**3,409**	**545,915**	**427,730**	**118,185**	**128,906**	**115,604**	**187,653**	**67,064**
Washington	404	66,728	56,950	9,778	11,465	16,622	25,616	9,274
Oregon	249	30,870	25,526	5,343	4,555	7,935	10,915	4,724
California	2,756	448,317	345,253	103,064	112,886	91,048	151,122	53,066

[1] The average number of workmen reported as employed on the fifteenth of each month (or nearest representative day), including estimates for a considerable number of establishments which failed to report the number of workmen employed. Salaried employees are not included.

Source: Bureau of the Census, Department of Commerce.

No. 817.—VALUE OF BUSINESS AND PRINCIPAL EXPENDITURES OF CONSTRUCTION ESTABLISHMENTS WHICH DID A BUSINESS OF OVER $25,000 DURING 1929: BY CLASS OF ESTABLISHMENTS, CONTINENTAL UNITED STATES

[All money figures in thousands of dollars]

Classification of establishment	Number of establishments	Value of construction business			Principal expenditures			Projected average number of workmen employed throughout the year [1]
		Total	Under general contract or directly for owner	Under subcontract	Subcontract work let	Wages paid	Cost of materials	
All classes	30,597	6,250,267	4,911,766	1,338,501	1,455,494	1,467,542	2,055,595	828,772
Operative builders	750	153,524	153,519	5	103,142	13,146	22,602	7,418
General contractors	14,768	4,217,367	4,171,886	45,480	1,290,878	914,112	1,188,687	565,179
Building	10,131	2,622,047	2,611,366	10,681	1,124,702	502,676	652,167	286,962
Building not specialized	7,062	2,149,941	2,139,919	10,022	919,417	424,776	527,438	245,043
Commercial only	539	132,627	132,473	154	67,126	23,702	25,284	11,777
Manufacturing only	75	93,828	93,815	13	32,185	12,463	34,580	7,865
Residential only	2,455	245,651	245,159	492	105,974	41,736	64,865	22,277
Highway	1,514	443,064	436,443	6,621	43,789	102,294	165,341	78,733
Bridge and culvert	475	137,206	129,086	8,120	11,893	35,596	55,658	23,761
Grading	396	47,733	45,897	1,836	4,400	16,399	3,532	11,213
Street paving	984	282,760	276,319	6,441	25,230	61,282	109,106	42,773
Sewer, gas, water, conduit	494	115,153	113,352	1,801	5,959	36,056	41,011	22,683
Dam and reservoir	87	28,483	28,003	480	2,351	8,280	8,229	4,923
Waterworks	105	44,210	43,510	700	2,684	11,601	17,857	7,086
Dredging, river, harbor, etc	193	104,463	100,856	3,607	7,719	28,423	20,732	19,808
Levee	34	5,631	5,519	112	631	1,490	392	1,185
Railroad	137	105,302	103,026	2,276	12,815	34,840	24,177	24,432
Foundation	56	8,282	8,057	225	988	2,475	2,695	1,367
Central station, light and power plant	86	158,160	157,667	493	35,463	37,491	55,678	21,954
Air transport work	7	2,416	2,317	99	250	860	696	555
Refuse disposal plant	7	1,721	1,721		193	527	445	240
Oil and natural gas pipe line	22	29,507	29,493	14	2,837	9,370	8,178	5,312
Subway (other than buildings)	24	71,818	69,888	1,930	5,782	22,451	21,013	10,923
Vehicular subway and tunnel	3	3,772	3,772		3,025	130	138	75
Telephone line and system	9	5,158	5,114	44	102	1,805	1,436	1,152
Miscellaneous, n. e. s	2	481	481		65	67	206	42
Subcontractors	15,081	1,879,376	586,361	1,293,015	61,474	540,284	844,306	256,175
Carpentering and wood flooring	382	36,611	10,359	26,252	2,600	11,160	14,829	4,898
Concreting	477	66,312	13,716	52,596	2,468	23,740	23,117	13,766
Electrical	1,928	198,487	78,531	119,956	1,509	61,683	87,768	26,330
Elevator construction	129	77,376	12,469	64,907	1,727	13,048	50,697	5,395
Heating and plumbing	5,533	611,886	237,782	374,104	18,298	148,602	319,128	72,246
Heating and piping	1,423	221,996	93,087	128,909	11,291	48,616	116,004	23,761
Plumbing	2,808	256,834	80,209	176,625	4,332	66,393	135,603	31,444
Plumbing and heating combined	1,218	93,738	44,937	48,801	1,947	22,922	48,754	11,827
Miscellaneous	134	39,319	19,549	19,770	728	10,672	18,767	5,214
Masonry	673	85,023	24,508	60,515	2,634	32,749	34,191	16,045
Painting and decorating	1,102	83,899	26,858	57,041	926	43,504	17,623	19,509
Glass and glazing	154	16,653	2,660	13,993	286	3,063	8,888	1,334
Plastering and lathing	623	83,313	6,984	76,329	4,633	42,712	21,749	16,675
Roofing and sheet metal work	1,697	145,095	39,388	105,707	2,379	37,302	64,118	21,026
Steel erection	300	135,716	56,914	78,802	10,498	25,285	71,285	11,661
Stone work	173	27,085	2,913	24,172	1,196	9,265	9,685	4,169
Marble and tiling	851	112,950	14,417	98,533	1,372	34,213	50,626	15,233
Wrecking	44	3,816	152	3,664	50	2,045	26	920
Excavating	293	39,813	7,049	32,764	2,668	14,269	2,025	8,221
Ornamental iron	227	36,077	2,396	33,681	1,256	6,696	17,811	2,669
Highway	26	4,174	379	3,795	65	974	1,543	605
Bridge and culvert	14	1,496	210	1,286	88	534	513	464
Grading	59	5,636	1,094	4,542	285	2,014	238	1,533
Street paving	18	3,324	479	2,845	31	987	1,212	555
Sewer, gas, water, conduit	14	5,480	4,147	1,333	25	2,085	1,724	1,260
Dam, reservoir, and waterworks	4	334	88	246	2	92	182	58
Dredging, river, harbor, etc	13	2,346	787	1,559	10	664	781	381
Soundproofing	26	5,556	962	4,594	75	1,181	2,825	539
Railroad	3	934	222	712	230	294	242	290
Foundation	25	22,950	4,877	18,073	3,841	6,922	6,091	3,365
Power plant	4	1,064	858	206	17	238	659	149
Metal work, n. e. s	136	52,189	30,985	21,204	1,957	11,222	29,209	4,840
Flooring, n. e. s	81	10,760	2,887	7,873	116	2,651	5,281	1,293
Miscellaneous n. e. s	22	3,020	1,289	1,731	232	1,089	238	746

[1] See footnote 1, table 816.

Source: Bureau of the Census, Department of Commerce.