31. MINING AND MINERAL PRODUCTS

[Data in this section cover the following areas unless otherwise indicated: Bureau of Census and American Iron and Steel Institute statistics, continental United States; Bureau of Mines production statistics, continental United States, and, for leading products, outlying areas; foreign trade statistics, United States customs area, which includes Alaska, Hawaii, Puerto Rico, and, beginning Jan. 1, 1935, the Virgin Islands. Index numbers of mineral production are shown in table 812, p. 774]

No. 735. Mineral Products of the United States—Value, for Metallic and Nonmetallic: 1881 to 1938

Note.—All figures in millions of dollars. See general note above

Yearly average or year	Total	Metallic	Nonmetallic			Year	Total	Metallic	Nonmetallic		
			Total	Fuels [1]	Other				Total	Fuels [1]	Other
1881–1885	426	194	232	171	61	1920	6,981	1,764	5,218	4,193	1,025
1886–1890	541	249	292	215	78	1921	4,139	655	3,484	2,703	780
1891–1895	592	245	347	248	99	1922	4,647	988	3,659	2,738	921
1896–1900	828	366	462	307	154	1923	5,987	1,512	4,475	3,317	1,157
1901–1905	1,392	578	814	546	267	1924	5,306	1,233	4,072	2,899	1,174
1906–1910	1,887	769	1,118	746	372	1925	5,678	1,382	4,295	3,059	1,237
1911–1915	2,220	821	1,400	967	433	1926	6,214	1,405	4,808	3,542	1,266
1916–1920	5,129	1,798	3,331	2,602	729	1927	5,530	1,221	4,309	3,060	1,249
1921–1925	5,151	1,154	3,997	2,943	1,054	1928	5,385	1,288	4,097	2,885	1,212
1926–1930	5,556	1,276	4,280	3,088	1,192	1929	5,888	1,480	4,407	3,191	1,217
1931–1935	3,032	511	2,521	1,977	544	1930	4,765	986	3,779	2,765	1,015
1912	2,238	862	1,376	946	430	1931	3,167	570	2,597	1,892	704
1913	2,434	879	1,554	1,088	467	1932	2,462	286	2,176	1,743	432
1914	2,111	687	1,424	993	431	1933	2,555	417	2,138	1,683	455
1915	2,395	993	1,401	973	429	1934	3,325	549	2,776	2,233	543
1916	3,508	1,622	1,886	1,333	554	1935	3,650	733	2,917	2,330	587
1917	4,992	2,089	2,904	2,238	666	1936	4,557	1,082	3,475	2,759	716
1918	5,541	2,157	3,384	2,736	648	1937	5,414	1,468	3,945	3,201	745
1919	4,624	1,361	3,263	2,511	752	1938 (prel.)	4,354	892	3,462	2,805	658

[1] Coal, natural gas, natural gasoline, petroleum.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 736.—Nonferrous Metals—Yearly Average Prices, by Kind: 1896 to 1938

[Prices are cents per pound, except quicksilver (dollars per flask [1]) and platinum (dollars per ounce)]

Year	Copper, electrolytic (New York)	Lead (New York)	Tin [2] (New York)	Zinc (St. Louis)	Aluminum [3] (New York)	Antimony (New York)	Quicksilver (New York)	Platinum (New York)
1896–1900	[4] 13.41	3.84	19.54	[5] 4.55	37.15	8.204	42.17	[6] 16.66
1901–1905	13.877	4.330	28.194	[7] 5.284	33.80	7.398	43.17	19.55
1906–1910	15.642	4.780	34.260	5.432	31.12	11.885	44.12	26.58
1911–1915	14.973	4.359	41.104	7.205	23.84	12.373	52.77	45.16
1916	27.202	6.858	43.480	12.634	60.71	25.370	125.49	83.40
1917	27.180	8.787	61.802	8.730	51.50	20.690	106.30	102.82
1918	[8] 24.628	7.413	(9)	7.890	33.53	12.581	123.47	105.95
1919	18.691	5.759	63.328	6.988	32.14	8.190	92.15	114.61
1920	17.450	7.957	49.101	7.671	32.72	8.485	81.12	110.90
1921	12.502	4.545	29.916	4.655	21.11	4.957	45.46	75.03
1922	13.382	5.734	32.554	5.716	18.68	5.471	58.95	97.62
1923	14.421	7.267	42.664	6.607	25.41	7.897	66.50	116.54
1924	13.024	8.097	50.176	6.344	27.03	10.836	69.76	118.82
1925	14.042	9.020	57.893	7.622	27.19	17.494	83.13	119.09
1926	13.795	8.417	65.285	7.337	26.99	15.988	91.90	113.27
1927	12.929	6.755	64.353	6.242	25.40	12.393	118.16	84.64
1928	14.570	6.305	50.427	6.027	23.90	10.305	123.51	78.58
1929	18.107	6.833	45.155	6.512	23.90	8.956	122.15	67.66
1930	12.982	5.517	31.694	4.556	23.79	7.667	115.01	45.36
1931	8.116	4.243	24.467	3.640	23.30	6.720	87.35	35.87
1932	5.555	3.180	22.017	2.876	23.30	5.592	57.93	36.46
1933	7.025	3.869	39.110	4.029	23.30	6.528	59.23	30.99
1934	8.428	3.860	52.191	4.158	21.58	8.901	73.87	36.47
1935	8.649	4.065	50.420	4.328	20.50	13.616	71.99	34.15
1936	9.474	4.710	46.441	4.901	20.50	12.240	79.92	42.93
1937	13.167	6.009	54.337	6.519	20.08	15.355	90.18	51.77
1938	10.000	4.739	42.301	4.610	20.00	12.349	75.47	35.90

[1] Flasks of 75 pounds prior to 1927; 76 thereafter.
[2] 99 percent tin, 1896–1919; Straits tin thereafter.
[3] Prices 1896 to 1929 for pure aluminum (No. 1 virgin 98–99 percent); beginning 1930, for 99 percent + virgin ingot.
[4] Prices 1896 to 1898 are for Lake copper.
[5] Data are for New York zinc.
[6] Average for 1899 and 1900 only.
[7] Average, 1903–5; average for New York zinc, 1901–5, 5.058 cents.
[8] Average of 11 months.
[9] No average computed.

Sources: Engineering and Mining Journal; American Metal Market, annual report, for aluminum, 1909–38.

No. 737.—Mines and Quarries—Summary for Producing and Nonproducing Enterprises: 1929

NOTE.—Statistics are not comparable with those for earlier years shown in the 1931 and previous issues of the Statistical Abstract owing to the exclusion of data for the petroleum and natural-gas industries (no data having been collected in 1929) and the inclusion of data for the sand and gravel, glass-sand, and moulding-sand industries (data having been collected for the first time in 1929)

	All enterprises	Producing enterprises	Nonproducing enterprises	
			Number or amount	Percent of total
Number of enterprises (see source note)	10,996	10,135	861	7.8
Number of mines and quarries	12,506	11,602	904	7.2
Persons engaged, total	**870,480**	**863,948**	**6,532**	**.8**
Proprietors and firm members	4,929	4,897	32	.6
Salaried employees	53,331	52,633	698	1.3
Wage earners (average for the year)	812,220	806,418	5,802	.7
Power equipment (total horsepower)	**7,584,463**	**7,514,843**	**69,620**	**.9**
Prime movers	2,780,116	2,743,025	37,091	1.3
Electric motors driven by purchased energy	4,804,347	4,771,818	32,529	.7
Principal expenses, total ... 1,000 dollars	**1,675,944**	**1,661,168**	**14,776**	**.9**
Salaries ... do	139,023	137,639	1,384	1.0
Wages ... do	1,099,895	1,091,990	7,905	.7
Contract work ... do	17,914	17,056	857	4.8
Supplies ... do	297,554	293,568	3,986	1.3
Fuel ... do	49,364	49,146	218	.4
Purchased electric energy ... do	72,195	71,769	426	.6
Value of products ... do	**2,392,831**	**2,392,831**	----------	--------
Expenditures for development (included above in "*Principal expenses*") ... 1,000 dollars	89,646	76,488	13,158	14.7
Machinery and other equipment purchased during the year (total cost) ... 1,000 dollars	86,732	84,508	2,224	2.6

No. 738.—Mines and Quarries, Producing—Summary: 1909 to 1929

	1909 [1]	1919 [1]	1929		Percent increase or decrease (—)	
			All industries	Revised (for comparative purposes) [1]	1909–1919	1919–1929
Number of enterprises	12,089	11,466	10,135	9,063	—5.2	—21.0
Number of mines and quarries	18,127	13,731	11,602	10,277	—24.3	—25.2
Persons engaged, total	**982,329**	**952,565**	**863,948**	**841,652**	**—3.0**	**—11.6**
Proprietors and firm members	*13,703*	*7,695*	*4,897*	*4,629*	—43.8	—39.8
Salaried employees	37,946	56,515	52,633	48,666	48.9	—13.9
Wage earners (average for the year)	930,680	888,355	806,418	788,357	—4.5	—11.3
Power equipment (total horsepower)	**3,384,759**	**4,900,102**	**7,514,843**	**6,970,091**	**44.8**	**42.2**
Prime movers	3,179,270	3,341,350	2,743,025	2,502,132	5.1	—25.1
Electric motors driven by purchased energy	205,489	1,558,752	4,771,818	4,467,959	658.6	186.6
Principal expenses (1,000 dollars):						
Salaries	46,093	115,861	137,639	125,008	151.4	8.8
Wages	559,546	1,161,415	1,091,990	1,066,606	107.6	—8.2
Contract work	12,151	10,717	17,056	16,595	—11.8	54.9
Supplies and materials	196,530	331,627	293,568	280,623	120.3	—15.4
Fuel		74,082	49,146	44,693		—39.7
Purchased electric energy		27,230	71,769	66,416		143.9
Value of products (1,000 dollars)	**1,052,569**	**2,226,671**	**2,392,831**	**2,280,384**	**111.5**	**2.4**

[1] The figures for 1909, 1919, and 1929 have been adjusted to make them comparable.

Source of tables 737 and 738: Department of Commerce, Bureau of the Census; Fifteenth Census Reports, *Mines and Quarries*. *(For definition of enterprise, see p. 4 of report.)*

No. 739.—Mines and Quarries, Producing—Summary, by States: 1919 and 1929

Note.—Figures for 1919 and 1929 have been revised to make them comparable except for 1919 where data for revision were not available, and for certain States for 1929 where revision would result in disclosure of individual operations. Therefore, the totals for the United States are less than the sum of the figures for the States for both years and for geographic divisions for 1919; also the totals for most of the geographic divisions for 1929 are less than the sum of the figures for the States

[Wages and value of products in thousands of dollars]

Division and State	Number of mines and quarries		Wage earners (average for the year)		Horsepower		Wages		Value of products	
	1919	1929	1919	1929	1919	1929	1919	1929	1919	1929
Continental U. S.	13,731	10,277	888,355	788,357	4,900,102	6,970,091	1,161,415	1,066,606	2,226,671	2,280,384
New England	334	347	7,213	7,979	62,725	96,422	8,036	11,560	18,723	27,929
Maine	51	56	979	1,170	6,277	12,076	1,052	1,577	1,823	3,468
New Hampshire	33	30	682	569	4,336	5,455	826	773	1,568	1,562
Vermont	109	129	2,936	3,154	28,099	39,906	3,042	4,153	8,555	10,276
Massachusetts	79	77	1,704	2,207	12,493	26,741	2,069	3,657	4,176	8,571
Rhode Island	15	14	369	256	3,000	4,237	400	385	952	809
Connecticut	47	42	543	761	8,520	10,756	647	1,220	1,649	3,810
Middle Atlantic	3,757	2,402	324,242	282,913	1,723,094	2,294,998	446,802	413,541	777,718	717,793
New York	147	206	5,334	5,021	61,143	102,389	6,410	7,480	15,230	24,272
New Jersey	102	71	4,576	2,906	33,901	50,171	5,303	4,309	9,309	11,100
Pennsylvania	3,508	2,129	314,332	275,138	1,628,050	2,143,828	434,999	401,988	753,179	683,531
East North Central	2,324	1,823	181,733	115,863	953,714	1,141,215	227,541	154,018	401,132	318,842
Ohio	1,064	744	44,175	25,500	184,271	182,003	51,767	29,117	89,035	51,757
Indiana	393	375	26,348	15,968	121,994	156,645	29,717	22,349	50,236	44,297
Illinois	590	486	76,371	52,164	282,801	398,602	90,901	71,828	147,410	124,772
Michigan	165	117	31,292	19,745	337,882	355,897	50,406	27,229	103,870	87,819
Wisconsin	107	104	3,547	2,517	26,766	49,158	4,750	3,545	10,581	10,401
West North Central	1,270	1,166	55,948	40,634	330,264	489,585	74,651	54,231	211,597	220,161
Minnesota	196	143	17,265	11,370	144,199	198,182	29,383	17,767	130,399	130,359
Iowa	226	207	11,274	6,766	32,166	38,945	12,466	8,806	18,474	14,648
Missouri	494	401	14,857	12,793	100,070	147,986	16,777	15,538	33,366	43,470
North and South Dakota	107	150	2,559	2,507	13,881	35,202	3,526	3,834	7,242	10,527
Nebraska	9	8	162	137	1,847	1,605	166	182	293	460
Kansas	238	257	9,831	7,061	38,101	67,665	12,333	8,104	21,823	20,688
South Atlantic	1,976	1,481	117,405	130,236	510,985	971,549	136,860	155,870	252,555	288,757
Delaware and Dist. of Col	11	6	128	104	757	901	144	120	259	268
Maryland	161	119	5,628	3,987	18,660	23,967	6,152	4,125	9,699	7,341
Virginia	216	196	14,547	15,015	57,880	107,316	16,108	14,554	29,363	28,706
West Virginia	1,325	870	88,510	101,085	366,028	664,530	107,162	128,418	196,088	222,317
North Carolina	106	123	1,890	2,436	5,039	20,348	1,489	2,193	2,737	5,631
South Carolina	20	35	933	1,298	4,656	18,470	680	930	1,351	3,093
Georgia	82	81	2,397	3,665	12,996	34,386	2,017	2,898	4,082	9,439
Florida	55	65	3,372	3,061	44,969	106,384	3,108	3,046	8,976	13,525
E. South Central and W. South Central	1,970	1,491	109,793	120,698	481,635	839,583	122,187	127,551	225,570	263,629
Kentucky	864	617	41,444	57,569	135,098	310,664	46,905	62,442	75,157	102,502
Tennessee	263	167	14,470	11,441	56,675	73,772	12,987	10,333	23,292	22,050
Alabama	348	242	32,579	31,674	145,775	265,666	36,230	30,693	59,866	53,363
Arkansas	126	121	3,614	4,744	20,748	30,620	4,547	4,565	7,783	9,796
Louisiana and Mississippi	4	2	387	94	6,886	590	469	100	8,001	220
Oklahoma	284	245	12,734	10,047	94,939	98,481	16,060	13,318	34,430	31,560
Texas	81	104	4,565	5,190	21,514	60,394	4,989	6,151	17,041	44,334
Mountain	1,598	1,094	79,234	78,896	700,398	980,410	127,506	132,711	299,454	397,995
Montana	269	169	16,091	14,575	143,473	201,749	25,666	25,718	49,666	64,774
Idaho	83	65	2,455	4,226	31,059	67,295	4,202	7,420	11,840	20,746
Wyoming	87	73	7,532	5,282	49,864	50,855	11,090	9,664	19,969	18,817
Colorado	523	333	16,710	14,493	114,448	116,592	25,263	22,267	51,063	41,205
New Mexico	103	89	7,100	6,986	59,876	90,961	10,494	10,118	18,873	27,142
Arizona	172	134	15,268	16,533	165,076	201,456	26,193	28,238	88,478	116,135
Utah	154	131	9,847	12,149	85,816	179,475	17,197	21,225	41,511	82,843
Nevada	207	104	4,231	4,685	50,786	72,915	7,401	8,104	18,054	26,495
Pacific	502	473	12,790	11,138	137,386	156,329	17,840	17,122	39,966	45,278
Washington	93	90	5,050	3,652	37,998	39,321	7,466	5,796	13,329	12,271
Oregon	52	44	740	635	6,264	7,249	993	958	1,885	2,410
California	357	340	7,000	6,859	93,124	110,019	9,381	10,382	24,752	30,639

Source: Department of Commerce, Bureau of the Census; Fifteenth Census Reports, Mines and Quarries.

No. 740.—Mines and Quarries, Producing—Summary, by Industries: 1919 and 1929

Note.—Figures for 1919 and 1929 for the limestone, sandstone, abrasive materials, and silica industries are not strictly comparable, owing to the inclusion or exclusion of data for 1929 not similarly treated for 1919. For the limestone industry, data for quarrying operations of lime and cement manufacturers are included in the figures for 1929 but not in those for 1919. For the sandstone industry, data for enterprises whose product was ground into glass or molding sand, or used as refractory materials (siliceous mica schist and ganister), etc., are included in the figures for 1919 but excluded from those for 1929 and included in the figures for the glass-sand, molding-sand, abrasive-materials, or silica industries, according to the nature and purpose of the final product. Data for diatomaceous earth are included in the figures for abrasive materials in 1919 and in those for silica in 1929

[Wages and value of products in thousands of dollars]

Industry	Number of mines and quarries		Wage earners (average for the year)		Horsepower		Wages		Value of products	
	1919	1929	1919	1929	1919	1929	1919	1929	1919	1929
All industries [1]	13,731	10,277	888,355	786,357	4,900,102	6,970,091	1,161,415	1,066,606	2,226,671	2,280,384
Coal:										
Anthracite	421	303	147,372	142,801	899,783	1,041,465	210,289	229,967	364,084	384,854
Bituminous	8,282	5,620	545,798	458,732	2,155,065	3,124,187	682,601	574,800	1,145,978	966,694
Metals:										
Copper	226	180	43,717	44,502	522,426	701,791	66,390	73,200	181,258	283,517
Iron ore	406	208	45,741	28,516	370,859	498,821	75,713	40,905	218,218	197,335
Lead and zinc	473	375	21,884	25,907	229,401	357,737	30,708	30,192	75,579	112,428
Gold and silver, lode mines	799	258	15,436	7,946	149,100	98,772	23,818	12,982	58,832	26,107
Gold, placer mines	132	37	1,380	578	35,632	20,280	1,914	970	9,369	3,779
Mercury	26	40	748	1,029	2,607	5,625	828	1,384	1,803	2,820
Manganese	37	21	909	354	5,800	2,342	1,086	392	2,188	1,185
Stone:										
Limestone	925	1,256	22,069	32,300	213,717	535,466	23,926	39,188	52,944	117,258
Granite	381	434	8,049	10,037	55,614	108,217	8,588	12,040	18,279	30,381
Basalt	174	144	3,336	3,053	37,307	63,881	3,991	4,498	9,658	15,544
Slate	104	130	3,513	4,098	20,613	33,817	3,128	4,884	5,721	10,486
Marble	62	88	1,732	3,350	15,628	30,198	1,452	3,292	4,398	7,539
Sandstone	276	172	4,287	2,156	33,869	28,935	4,449	2,626	10,685	6,312
Miscellaneous	(2)	234	(2)	1,841	(2)	28,527	(2)	2,406	(2)	8,475
Miscellaneous:										
Abrasive materials [3]	34	36	317	462	1,748	3,828	322	401	722	1,411
Asbestos	11	11	146	195	420	2,114	92	237	250	397
Asphalt and bituminous rock	12	25	324	1,123	648	13,109	295	1,255	750	5,124
Barite	98	44	919	844	3,029	6,066	769	648	1,592	1,801
Clay	350	236	5,458	4,139	21,203	31,877	5,367	3,758	10,086	10,753
Feldspar	32	58	349	598	1,782	6,543	264	527	584	1,935
Fluorspar	72	36	1,124	1,053	7,138	6,513	1,196	1,112	3,335	2,858
Fullers and filtering earths	9	24	824	991	2,538	8,221	541	853	2,019	4,812
Gypsum	48	63	2,191	2,078	15,032	26,498	2,478	2,628	6,806	5,740
Magnesite	11	5	448	351	2,540	3,197	652	466	2,170	2,044
Mica	69	32	448	226	803	1,721	288	195	607	516
Millstones and pulpstones	11	14	37	164	220	2,517	48	221	65	621
Minor metals [4]	37	30	1,371	1,244	6,051	13,469	1,690	1,507	3,916	6,650
Phosphate rock	69	33	4,373	3,201	49,639	104,146	3,901	3,304	10,300	13,044
Silica [5]	29	73	166	1,433	2,032	11,771	166	1,677	372	4,645
Sulphur and pyrites	22	10	2,301	2,199	22,629	33,932	3,067	3,483	20,345	37,126
Talc and soapstone	30	28	958	550	7,053	10,530	835	615	2,302	2,688
Miscellaneous minerals [6]	47	19	604	305	8,040	3,978	516	301	1,350	3,503
Sand, glass	------	32	------	1,030	---------	13,215	---------	1,314	---------	5,359
Sand, molding	------	128	------	1,037	---------	14,792	---------	1,291	---------	4,776
Sand and gravel	------	1,165	------	15,994	---------	516,745	---------	22,780	---------	102,312

[1] For 1919 includes, besides those specified, statistics for 15 enterprises in the chromite industry; the value of products of this industry was less than one-tenth of 1 per cent of the total for all industries. For 1929 does not include data for the glass-sand, molding-sand, and sand and gravel industries, no data having been collected for these industries in 1919.

[2] Distributed among other stones.

[3] Emery; garnet and industrial sapphires and diamonds; grinding pebbles and tube-mill lining; grindstones, oilstones, whetstones, scythestones, and rubbing stones; pumice and volcanic ash (pumicite).

[4] Bauxite, molybdenum, titanium, tungsten, vanadium.

[5] Diatomaceous earth, ganister, quartz, quartzite, silica rock, silica sand, siliceous mica schist, tripoli.

[6] Borates, cyanite, graphite, lithium minerals (amblygonite, lepidolite, and spodumene), mineral pigments, tantalum, vermiculite.

Source: Department of Commerce, Bureau of the Census; Fifteenth Census Reports, Mines and Quarries.

No. 741.—Mineral Industries—Summary for Specified Industries: 1935

NOTE.—The following data, based on information furnished by mine, quarry, and other operators, were collected as part of the general Census of Business for the year 1935. Figures cover continental United States, except those for gold, silver, lead, copper, and zinc, which include Alaska

[All money figures in thousands of dollars]

	Number of mines and quarries	Value of products [1]	Expenditures				Salaried employees [2]		Wage earners	
			Total	Supplies and materials [3]	Fuel	Purchased electric power	Number	Salaries	Number [4]	Wages
Metals:										
Bauxite [5]	11	1,545	358	213	105	39	77	131	559	330
Gold, silver, lead, copper, and zinc	12,906	[1] 222,408	57,891	43,994	4,615	9,282	5,019	10,453	60,410	64,608
Iron ore [5]	199	[1] 76,734	10,872	6,647	1,599	2,626	1,367	3,020	14,873	14,624
Mercury	43	990	330	227	82	21	100	87	451	385
Nonmetals:										
Abrasive stones	16	465	138	113	11	15	13	17	209	168
Asbestos	7	261	91	70	2	19	14	36	85	78
Asphalt, native, and bitumens	19	2,149	508	441	46	21	91	238	385	328
Barite	(6)	1,251	408	316	38	54	42	90	482	326
Basalt [5]	270	[1] 19,855	3,659	2,676	450	533	570	1,027	3,147	2,841
Clay	219	[1] 7,056	2,018	1,362	273	383	392	737	3,687	2,097
Coal:										
Anthracite, Pennsylvania	350	[1] 210,351	38,535	27,140	4,197	7,197	5,302	11,117	[7] 92,438	120,102
Bituminous	6,311	[1] 658,475	103,581	73,705	4,796	25,080	16,916	32,531	[7] 435,426	402,677
Feldspar, crude	51	[1] [8] 772	157	124	23	9	51	84	545	413
Feldspar, ground	[9] 27	[1] [8] 2,670	499	353	26	120	112	251	411	320
Fluorspar [5]	[10] 78	[1] 1,560	423	315	91	17	82	164	927	568
Fuller's earth	19	2,237	478	159	240	80	91	243	783	498
Granite [5]	404	[1] 13,491	3,024	2,085	277	662	567	1,206	5,940	4,972
Gypsum [5]	58	18,829	4,299	3,199	608	492	369	709	2,928	2,795
Limestone [5]	1,924	[1] 55,544	20,474	13,431	3,610	3,433	3,482	6,273	29,681	21,585
Marble [5]	33	2,169	820	569	50	202	239	388	2,088	1,413
Mica	(6)	279	96	72	6	18	27	32	250	134
Natural gas	[11] 53,790	[12] 429,374	9,950	7,495	2,288	167	2,780	3,901	7,288	7,280
Natural gasoline	[11] 715	70,940	12,571	9,470	2,620	481	[13] 1,052	[13] 2,105	7,997	10,567
Petroleum	[11] 340,990	961,440	103,040	82,051	14,684	6,305	7,938	14,736	93,450	126,703
Phosphate rock	(6)	[1] 11,423	2,981	1,520	740	721	274	650	2,638	1,807
Potash	4	4,240	1,587	793	745	49	231	604	1,271	1,796
Pumice	22	246	30	18	10	1	12	14	77	65
Salt	63	[1] 23,906	6,614	3,787	2,224	603	694	1,746	4,824	5,070
Sand and gravel	1,798	[1] 53,701	11,949	8,207	1,838	1,903	2,086	3,821	8,566	8,340
Sandstone [5]	289	[1] 4,365	1,524	1,192	121	211	224	376	2,278	1,595
Silica	(6)	1,865	366	179	35	152	46	115	205	217
Slate [5]	117	[1] 3,526	929	603	91	235	190	301	1,898	1,517
Talc and ground soapstone	20	1,804	342	233	16	93	67	157	534	387
Tripoli	9	374	132	104	20	8	16	32	116	93
Other industries [14]	413	19,583	4,942	3,659	629	654	541	1,346	3,819	4,094

[1] The figures noted include the value of work or services.
[2] Includes salaried officers, technical and supervisory employees, and all others on salaries, except employees at central administrative offices not connected with mine or plant.
[3] Includes cost of lumber or timber, iron and steel materials, explosives and oil used directly or sold to employees, water for boilers, machinery supplies, and all other supplies and materials necessary to maintain and operate the mine or plant.
[4] Determined by averaging the total number reported on pay rolls the 15th of each month.
[5] For the industries noted, data are included for beneficiating plants, finishing plants, or mills operated in connection with the mine or plant; in such cases, the value of their product is included and not the value of the product of the mine or quarry.
[6] Not available.
[7] Average including shut-down periods.
[8] The value of most of the crude feldspar is duplicated in the value of the ground product.
[9] Number of grinding mills; some of these are operated in connection with the feldspar mines.
[10] In addition, fluorspar was produced at an undetermined number of prospects and reclaimed from mill ponds, waste dumps, and old workings of abandoned mines. Data for these operations are included in the other figures given.
[11] Data for natural gas and petroleum cover number of wells; for natural gasoline, number of plants.
[12] Value at points of consumption; the value at wells amounted to $110,402,000.
[13] Not including 625 salaried employees at central offices with salaries amounting to $1,752,000.
[14] Boron, bromine and iodine, diatomite, emery, garnet, greensand marl, magnesite, magnesium salts, manganese, molybdenum, natural sodium compounds, miscellaneous stone, and vermiculite.

Source: Dept. of Commerce, Bur. of the Census, in cooperation with Dept. of the Interior, Bur. of Mines; mimeographed reports of Census of Business, 1935.

No. 742.—Mines and Quarries, Producing—Establishments Classified by Number of Wage Earners, by Principal Industries: 1929

Industry and wage earners per enterprise	Number of enterprises	Number of mines and quarries	Wage earners: Average for year	Wage earners: Percent
All industries [1]	10,099	11,566	806,418	100.0
Not reported	31	34		
1 to 5	2,742	2,799	8,194	1.0
6 to 20	3,004	3,217	34,079	4.2
21 to 50	1,611	1,795	53,183	6.6
51 to 100	1,055	1,201	76,362	9.5
101 to 250	988	1,267	158,623	19.7
251 to 500	416	607	145,883	18.1
501 to 1,000	169	274	110,931	13.8
1,001 to 2,500	60	188	87,279	10.8
2,501 and over	23	184	131,884	16.3
Anthracite	198	303	142,801	100.0
1 to 5	31	31	85	.1
6 to 20	20	21	221	.2
21 to 50	21	21	710	.5
51 to 100	17	18	1,113	.8
101 to 250	32	34	5,052	3.5
251 to 500	19	19	6,983	4.9
501 to 1,000	34	36	23,291	16.3
1,001 to 2,500	11	24	17,255	12.1
2,501 and over	13	99	88,091	61.6
Bituminous coal	4,976	5,620	458,732	100.0
1 to 5	1,384	1,384	3,979	.9
6 to 20	1,109	1,123	12,316	2.7
21 to 50	676	720	23,169	5.1
51 to 100	619	692	45,624	9.9
101 to 250	708	830	114,505	25.0
251 to 500	334	472	116,890	25.4
501 to 1,000	105	196	67,093	14.6
1,001 to 2,500	34	142	47,404	10.3
2,501 and over	7	61	27,752	6.1
Copper	143	180	44,502	100.0
Not reported	2	2	104	.2
1 to 5	33	33		
Copper—Continued.				
6 to 20	40	41	496	1.1
21 to 50	14	17	398	.9
51 to 100	12	13	877	2.0
101 to 250	11	13	1,859	4.2
251 to 500	10	15	3,393	7.6
501 to 1,000	7	9	5,096	11.5
1,001 to 2,500	11	13	32,279	72.5
2,501 and over	3	24		
Limestone	1,165	1,254	32,300	100.0
1 to 5	283	286	897	2.8
6 to 20	438	465	5,400	16.7
21 to 50	288	312	9,313	28.8
51 to 100	107	119	7,436	23.0
101 to 250	41	58	6,398	19.8
251 to 500	6	6	2,856	8.9
501 to 1,000	2	8		
Iron ore	180	208	28,516	100.0
1 to 5	7	7	20	.1
6 to 20	13	13	153	.5
21 to 50	29	32	949	3.3
51 to 100	45	46	3,452	12.1
101 to 250	59	76	9,663	33.9
251 to 500	16	20	5,262	18.5
501 to 1,000	10	11	9,017	31.6
1,001 to 2,500	1	3		
Sand and gravel	957	1,165	15,994	100.0
1 to 5	263	292	976	6.1
6 to 20	485	561	5,216	32.6
21 to 50	160	214	4,964	31.0
51 to 100	31	49	2,175	13.6
101 to 250	17	48	2,663	16.7
251 to 500	1	1		

[1] Exclusive of 36 enterprises operating 36 mines which employed no wage earners.

No. 743.—Mines and Quarries, Producing—Hours of Labor, by Industries: 1929

Note.—This table does not include data for enterprises having products valued at less than $20,000. To avoid disclosing data for individual establishments, the figures for certain groups are combined and printed in *italics*. An (x) shows where an omission results

Industry	Wage earners (average for the year)—total	Wage earners in mines where the prevailing hours of labor per week were— Under 36	36 and over but under 40	40	Over 40 but under 48	48	Over 48 but under 63	63 and over
All industries	792,395	51,023	5,764	29,293	26,506	528,394	144,091	7,324
Coal, anthracite	142,801	912		30	3,186	138,226	*447*	(x)
Coal, bituminous	447,125	49,602	5,587	26,842	14,589	320,718	29,427	360
Copper	44,234	(x)			(x)	24,416	*19,818*	
Limestone	31,578	*118*	(x)	450	307	4,652	25,052	999
Iron ore	28,516			*424*	974	15,103	*12,015*	(x)
Sand and gravel	15,994	*70*	(x)	273	339	1,273	11,850	2,189
Lead	13,831	(x)				*6,634*	6,734	463
Zinc	11,861		(x)		(x)	5,897	*5,862*	102
Granite	9,806	44	97	595	4,239	2,326	2,505	
Gold, lode	5,079	(x)				*1,971*	*3,108*	(x)
Gold, placer	534	(x)				*39*	495	
Clay	4,139	*78*	(x)	*98*	281	744	2,021	917
Slate	4,027	[1]91		(x)	*925*	52	*2,959*	(x)
Marble	3,308	(x)	(x)		*217*	94	*2,997*	(x)
Basalt	3,016			*127*	(x)	406	2,392	91
Silver	2,451	(x)				*90*	*2,361*	(x)
Sandstone	2,058	(x)		*187*	344	399	*1,178*	(x)
Stone, miscellaneous	1,569		(x)		*74*	381	892	222
Other industries	20,468	123	1	169	933	5,001	13,660	581

[1] Number of hours not reported.

Source of tables 742 and 743: Dept. of Commerce, Bur. of Census; 15th Census Reports, Mines and Quarries.

No. 744.—Mineral Production, by States and for Alaska: 1931 to 1937

Note.—The sum of the State totals in the table below does not agree with the total for the United States given in tables 735 and 745 chiefly because of the following reasons: (1) Figures for certain of the products included in the United States total are not available by States of origin; (2) the use of iron ore values in State totals and pig iron values in United States total; (3) the use of mine figures for gold, silver, copper, lead, and zinc in the State totals and mint and smelter figures in the United States total; and (4) the inclusion of estimates in the United States total for a few products for which no canvass has been conducted for many years and for which no estimate by States is made

[Values in thousands of dollars]

Division and State	1931	1932	1933	1934	1935	1936	1937 (prel.)
Continental United States	2,855,855	2,286,505	2,322,161	3,034,572	3,262,771	3,965,810	4,672,726
New England	32,370	21,383	16,698	17,281	17,228	22,687	24,757
Maine	4,889	3,174	2,594	2,352	2,560	3,423	4,120
New Hampshire	2,796	1,352	1,457	1,149	694	1,182	1,220
Vermont	8,422	6,401	5,793	4,853	5,097	6,225	7,043
Massachusetts	11,170	8,039	4,917	6,165	5,650	7,559	7,813
Rhode Island	793	506	387	485	571	929	803
Connecticut	4,300	1,011	1,551	2,276	2,656	3,317	3,600
Middle Atlantic	714,283	497,983	487,367	626,568	607,499	695,526	708,951
New York	78,007	50,176	42,940	54,626	58,409	71,648	77,666
New Jersey	41,633	23,073	22,580	25,010	28,515	24,421	31,468
Pennsylvania	594,643	424,734	421,847	546,933	520,576	599,457	599,817
East North Central	364,475	236,420	261,371	317,719	354,097	406,806	453,745
Ohio	130,928	87,997	91,146	117,505	126,134	122,684	131,025
Indiana	50,852	34,603	34,011	39,417	42,513	52,282	54,887
Illinois	108,066	71,693	74,837	89,214	96,484	117,916	133,438
Michigan	62,786	34,714	54,223	61,831	77,149	100,646	119,168
Wisconsin	11,843	7,414	7,154	9,752	11,818	13,278	15,228
West North Central	192,733	133,564	165,857	206,240	239,712	315,938	417,055
Minnesota	55,275	12,273	42,472	48,328	57,313	94,569	152,107
Iowa	21,615	18,523	15,155	19,326	21,710	28,359	26,941
Missouri	41,806	29,245	30,588	32,955	35,800	41,351	52,446
North Dakota	2,271	2,386	2,961	2,550	2,544	2,902	2,873
South Dakota	11,339	11,118	14,659	19,173	22,210	23,222	23,473
Nebraska	3,623	1,548	2,047	2,791	3,229	3,844	4,838
Kansas	56,804	58,471	57,975	81,118	96,906	121,690	154,376
South Atlantic	291,275	200,938	219,898	306,790	316,939	359,064	405,814
Delaware	395	300	135	272	230	444	307
Maryland	11,330	7,234	7,015	10,128	10,036	11,158	10,635
District of Columbia	282	1,819	423	407	479	548	523
Virginia	26,150	16,927	18,846	28,309	30,923	37,295	46,019
West Virginia	221,735	156,643	172,727	241,474	245,402	271,502	306,661
North Carolina	5,554	2,466	3,365	5,342	6,775	9,956	11,160
South Carolina	3,031	951	1,014	1,323	1,843	3,433	4,022
Georgia	11,947	7,490	7,529	7,986	9,804	11,757	12,584
Florida	10,851	7,108	8,844	11,548	11,447	12,973	13,812
East South Central	140,224	95,527	108,379	144,915	159,094	193,156	220,658
Kentucky	74,868	59,076	65,536	89,042	98,486	113,435	127,424
Tennessee	24,461	14,562	16,785	23,526	25,743	31,122	34,894
Alabama	38,507	19,170	23,291	29,827	31,772	44,753	53,519
Mississippi	2,388	2,719	2,766	2,521	3,093	3,846	4,822
West South Central	564,491	651,900	605,728	848,022	904,923	1,118,490	1,388,412
Arkansas	18,692	15,540	12,710	16,082	17,609	21,297	25,578
Louisiana	61,693	61,097	54,886	85,211	107,545	153,358	182,119
Oklahoma	181,905	185,121	172,561	237,209	251,701	305,192	367,444
Texas	302,201	390,141	365,571	509,521	528,069	638,643	813,271
Mountain	231,619	146,301	150,936	218,624	283,815	386,626	543,091
Montana	32,360	19,023	21,662	31,430	52,097	65,569	82,087
Idaho	13,177	9,478	12,429	16,708	21,364	29,966	40,633
Wyoming	30,803	27,343	22,025	27,640	30,670	34,498	41,088
Colorado	32,970	25,800	27,259	39,473	44,413	56,215	67,339
New Mexico	25,350	20,264	23,355	30,079	33,502	45,942	72,856
Arizona	41,003	15,204	12,571	26,063	38,848	60,533	94,564
Utah	40,302	22,620	24,180	32,527	41,933	61,209	105,652
Nevada	14,964	6,568	7,455	14,703	20,988	32,693	38,872
Pacific	324,385	302,489	305,927	348,412	379,463	467,568	510,243
Washington	14,801	12,817	9,388	12,945	13,688	22,921	26,658
Oregon	5,045	2,989	3,505	4,211	5,596	7,081	6,610
California	304,539	286,683	293,035	331,256	360,179	437,566	476,975
Alaska	12,371	11,526	12,681	19,579	18,812	23,738	27,928

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 745.—Mineral Products of the United States—Quantities and Values: 1920 to 1938

Note.—Data cover continental United States and, for leading products, outlying areas. Certain of the figures represent shipments rather than quantity mined, and some of the figures for 1938 are preliminary. Total values of metallic and nonmetallic products include figures which the Bureau of Mines is not at liberty to publish and estimated figures for certain products for which data are not available. In some cases, neither quantity nor value can be shown and those products are not listed here but data for them are included in totals. On the other hand, values for certain products, such as coke, are excluded from the totals to eliminate duplication, since the values of the products derived therefrom, or of raw materials used, are accounted for under other items. Short tons are 2,000 pounds; long tons, 2,240 pounds.

Metallic products	Quantity						Value in thousands of dollars					
	1920	1925	1930	1935	1937	1938	1920	1925	1930	1935	1937	1938
Aluminum ... 1,000 pounds	138,042	140,116	229,037	119,295	292,681	286,882	41,375	36,430	50,961	22,070	55,609	56,659
Antimonial lead [1] ... short tons	12,535	19,667	13,711	[1] 16,384	[1] 27,524	[1] 24,123	1,963	3,786	1,393	(1)	(1)	(1)
Antimony, metal ... do	[2] 2,785	[2] 2,624	[2] 1,685	[3] 2,134	[3] 4,057	(3)	[2] 473	[2] 918	[2] 258	(3)	(3)	(3)
Antimony, ore and concentrates ... do	----------	123	----------	3,616	4,250	2,730	----------	[4] 2,819	----------	(5)	138	62
Bauxite ... long tons	521,308	316,540	330,612	233,912	420,232	311,354	3,247	1,988	1,928	1,557	2,445	1,813
Cadmium ... pounds	129,283	502,824	2,777,762	3,477,091	3,995,739	3,753,323	151	277	1,778	(5)	4,555	2,815
Chromite ... long tons	2,502	108	80	515	2,321	812	45	2	2	6	15	11
Copper,[6] sales value ... 1,000 pounds	1,209,061	1,674,870	1,394,389	762,587	1,669,322	1,124,657	222,467	237,832	181,271	63,295	201,988	110,216
Ferro-alloys ... long tons	612,808	616,222	650,240	592,176	970,651	464,112	77,519	53,048	51,900	48,892	86,140	41,812
Gold [7] ... 1,000 troy ounces	2,476	2,412	2,286	3,609	4,805	5,090	51,187	49,860	47,248	126,325	168,159	178,143
Iron, ore ... 1,000 long tons	69,281	63,925	55,201	33,426	72,348	26,431	[4] 285,006	[4] 160,797	[4] 145,619	[4] 83,035	[4] 207,828	[4] 74,322
Iron, pig ... do	35,710	36,815	29,905	21,178	35,224	18,202	1,140,904	739,316	512,165	358,145	731,139	356,875
Lead (refined),[6] sales value ... short tons	476,849	654,921	573,740	310,505	443,142	331,964	76,296	113,956	57,374	24,840	52,291	30,541
Magnesium (new ingot) ... pounds	(8)	(8)	559,631	4,241,218	4,539,980	4,819,617	(5)	(8)	269	(5)	(5)	(5)
Manganese ore (35% or more Mn.) ... long tons	94,420	98,324	67,035	26,428	40,241	25,321	2,396	1,858	1,437	557	1,062	682
Manganiferous ore (5 to 35% Mn.) ... do	767,664	1,448,054	785,390	524,184	1,340,972	308,860	2,438	3,752	2,402	1,323	3,858	858
Mercury, metal ... flasks (76 pounds net)	13,216	9,053	21,553	17,518	16,508	17,991	1,067	763	2,479	1,261	1,489	1,358
Mercury ore ... short tons	109,000	65,000	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Molybdenum ... 1,000 pounds	35	1,154	3,759	10,892	30,122	25,727	17	961	2,068	7,261	20,571	17,977
Nickel ... short tons	365	272	308	160	219	416	293	170	214	130	(5)	(5)
Ores (crude), old tailings, etc.:												
Copper ... 1,000 short tons	36,765	53,262	47,382	19,103	61,640							
Copper-lead and copper-lead zinc ... do	27	229	246	1	2							
Dry and siliceous (gold and silver) ... do	8,590	8,995	7,767	14,016	17,355	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Lead ... do	7,200	8,560	8,080	3,494	5,670							
Lead-zinc ... do	12,383	17,741	10,645	7,471	10,651							
Zinc ... do	2,651	3,411	5,980	7,944	12,693							
Platinum, etc., value, N. Y. C. ... troy ounces	41,544	49,643	43,502	42,060	45,258	36,213	4,698	5,662	2,049	1,414	2,114	1,263
Selenium ... pounds	92,141	194,007	278,309	232,831	282,598	166,494	176	331	455	(5)	(5)	(5)
Silver [9] ... 1,000 troy ounces	55,362	66,155	50,748	45,924	71,942	62,665	60,802	45,912	19,538	33,008	55,647	40,511
Tantalum ore ... pounds	4,000	----------	5,100	7,681	16,307	36,189	1	----------	3	5	13	35
Tellurium ... do	(5)	(5)	4,717	22,610	23,365	26,944	(5)	(5)	8	(5)	(5)	(5)
Tin (metallic equivalent) ... short tons	22	14	17	50	189	122	22	16	10	50	205	103
Titanium ore (ilmenite) ... do	268	5,566	(5)	(5)	(5)	(5)	(5)	89	(5)	(5)	(5)	(5)
Titanium ore (rutile) ... do	277	46	(5)	(5)	(5)	(5)	(5)	11	(5)	(5)	(5)	(5)
Tungsten ore (60 percent concentrates) ... do	216	1,191	702	2,395	3,500	3,044	102	756	509	1,921	4,094	3,161
Uranium and vanadium ores ... do	35,076	13,070	(5)	(5)	131,080	231,687	2,401	331	(5)	(5)	(5)	899
Zinc,[6] sales value ... do	450,045	555,631	489,361	412,184	551,165	436,007	72,907	84,456	46,979	36,272	71,651	41,857
Total metallic products (approximate)	----------	----------	----------	----------	----------	----------	1,763,875	1,382,155	985,790	733,130	1,468,200	891,800

For footnotes, see p. 737.

No. 745.—Mineral Products of the United States—Quantities and Values: 1920 to 1938—Continued

Nonmetallic products	Quantity						Value in thousands of dollars					
	1920	1925	1930	1935	1937	1938	1920	1925	1930	1935	1937	1938
Arsenious oxide ... short tons	11,502	12,317	17,425	12,670	17,636	13,160	2,021	1,199	1,008	497	542	393
Asbestos ... do	1,648	1,258	4,242	8,920	12,079	10,440	678	52	289	293	345	247
Asphalt, native ... do	898,993	584,850	702,777	349,938	485,384	512,147	13,199	4,148	4,463	2,201	3,019	3,065
Asphalt, oil (including road oil) ... do		1,206,700	2,167,068	2,715,104	3,844,326	4,249,226		[4] 15,306	[4] 20,851	[4] 24,112	[4] 36,671	[4] 34,573
Barite (crude) ... do	228,113	228,063	234,932	225,111	355,888	309,663	2,142	1,703	1,538	1,251	2,241	2,005
Borates ... do	120,320	113,700	177,360	272,967	358,898	219,513	2,173	3,086	5,352	5,382	7,233	4,570
Bromine ... 1,000 pounds	1,161	1,566	8,463	16,429	26,200	32,324	745	488	2,110	3,483	5,180	6,610
Calcium-magnesium chloride ... short tons	27,849	67,870	116,160	83,546	101,547	103,930	539	1,387	2,208	1,039	1,295	1,219
Cement ... 1,000 bbls. (376 lbs. net)	97,079	159,047	160,846	76,244	115,678	108,070	195,590	281,076	231,249	114,810	171,414	156,535
Clay products							373,670	[10] 423,447	[10] 275,134	[10] 155,536	[10] 109,176	([10])
Clay, raw (sold by producers) ... 1,000 short tons	3,116	4,030	3,963	2,923	4,237	2,731	[4] 11,614	[4] 12,737	[4] 12,521	[4] 10,824	15,708	11,776
Coal, bituminous [11] ... do	568,667	520,053	467,526	372,373	[12] 445,531	[12] 344,630	2,129,933	1,060,402	795,483	658,063	[12] 864,042	[12] 655,000
Coal, Pennsylvania anthracite ... do	89,598	61,817	69,385	52,159	51,856	46,099	434,252	327,665	354,574	210,131	197,599	180,600
Coke ... do	51,345	51,267	47,972	35,141	52,375	32,633	[4] 494,246	[4] 262,559	[4] 209,137	[4] 176,853	[4] 261,004	([13])
Emery ... short tons	2,327	769	555	176	320		22	6	6	2	3	
Feldspar (crude) ... long tons	135,551	185,706	171,788	189,550	268,532	196,119	851	1,316	1,067	1,005	1,383	895
Fluorspar ... short tons	186,778	113,669	95,849	123,741	181,230	80,403	4,719	2,052	1,747	1,861	3,667	1,600
Fuller's earth ... do	128,487	206,574	335,644	227,745	226,165	170,852	2,506	2,924	4,327	2,230	2,296	1,708
Garnet for abrasive purposes ... do	5,476	8,429	5,003	3,060	4,863	2,669	434	713	314	257	383	192
Gems and precious stones							265	([14])	([14])	([14])	([14])	([14])
Graphite, amorphous ... short tons	4,694	3,536	1,941	([5])	([5])	([5])	50	40	21	([5])	([5])	([5])
Graphite, crystalline ... 1,000 pounds	9,632	2,257	([5])	([5])	([5])	([5])	576	57	([5])	([5])	([5])	([5])
Grindstones and pulpstones ... short tons	53,484	37,340	18,700	14,587	14,541	6,206	1,707	1,706	771	505	573	240
Gypsum [15] ... 1,000 short tons	3,129	5,678	3,471	1,904	3,058	2,684	24,533	47,577	27,051	18,860	4,783	4,272
Iodine ... pounds	([5])	([5])	([5])	245,696	299,286	([5])	([5])	([5])	([5])	249	242	([5])
Lime ... 1,000 short tons	3,570	4,581	3,388	2,987	4,124	3,347	37,544	42,609	25,616	21,749	30,091	24,138
Lithium minerals ... short tons	11,696	3,140	1,797	1,154	1,357	892	173	59	56	27	36	329
Magnesite (crude) ... do	303,767	120,660	129,320	177,154	203,437	97,000	2,748	1,433	1,033	1,192	1,483	725
Magnesium oxide, hydrated (brucite) ... 1,000 pounds					([3])	141,466					([5])	1,689
Magnesium salts, natural ... do	([5])	85,158	73,255	109,602	129,554		([5])	1,253	1,071	1,287	1,579	
Marl, calcareous ... short tons	97,487	68,670	34,012	88,062	46,650	23,572	326	188	113	97	60	40
Marl, greensand ... do	([5])	12,728	12,761	7,589	9,734	6,576		180	221	220	211	152
Mica, scrap ... do	5,723	9,695	6,732	[16] 18,852	[16] 25,196	[16] 20,257	167	174	109	[16] 244	[16] 355	[16] 256
Mica, sheet ... 1,000 pounds	1,683	1,794	1,465	937	1,695	940	547	322	177	161	285	139
Millstones							63	22	18	10	8	4
Mineral paints:												
Cadmium compounds ... pounds	([5])	([5])	([5])	([5])	([5])	([5])	([5])	([5])	324	([5])	1,441	710
Zinc and lead pigments [17] ... short tons	143,244	199,190	147,948	137,972	163,617	123,146	24,565	28,311	18,420	13,828	17,089	13,970
Mineral waters ... 1,000 gallons sold	36,218	([14])	([14])	([14])	([14])	([14])	4,861	([14])	([14])	([14])	([14])	([14])
Natural gas ... 1,000,000 cu. ft.	798,210	1,188,571	1,943,421	1,916,595	2,407,620	2,263,000	196,194	265,271	416,090	429,374	528,354	500,870
Natural gasoline ... 1,000 gallons	384,744	1,127,470	2,210,494	1,651,986	2,065,434	2,113,314	71,788	120,383	128,160	70,940	97,125	78,195
Oilstones, etc. ... short tons	1,144	970	651	439	810	511	232	272	137	106	113	130
Peat ... do	73,204	72,436	([14])	37,060	51,223	45,933	922	453	([14])	199	305	286

Petroleum ... 1,000 barrels (42 gals.)	442,929	763,742	898,011	996,596	1,279,160	1,213,254	1,360,745	1,284,960	1,070,200	961,440	1,513,340	1,390,000
Phosphate rock ... 1,000 long tons	4,104	3,482	3,926	3,042	3,956	3,739	25,080	11,546	13,997	10,952	12,975	12,952
Potash (K_2O) ... short tons	41,444	25,802	56,610	224,721	266,938	286,437	7,463	1,204	2,986	4,993	9,020	9,748
Pumice ... do	41,838	40,380	56,843	60,000	71,007	65,742	114	179	336	247	302	313
Pyrites ... long tons	310,777	170,081	[15] 347,512	[18] 514,192	[15] 584,166	[15] 555,629	1,597	650	[18] 1,029	[18] 1,583	[18] 1,778	[15] 1,686
Salt ... 1,000 short tons	6,840	7,398	8,054	7,927	9,242	8,026	29,894	26,162	25,009	21,838	24,132	23,243
Sand and gravel:												
Sand, glass ... do	2,166	2,335	1,849	2,126	2,799	2,109	4,749	3,836	3,211	3,735	4,747	3,602
Sand (molding, building, etc.) and gravel ... 1,000 short tons	79,875	169,667	195,203	121,798	186,861	179,211	60,913	103,706	111,966	58,242	92,726	82,321
Sand-lime brick ... thousands	169,761	[10] 315,595	[10] 191,193	[10] 61,757	[10] 135,005	([10])	2,490	[19] 3,781	[10] 1,951	[10] 555	[10] 1,191	([10])
Silica (quartz) ... short tons	68,190	25,444	13,156	17,178	13,012	18,611	320	205	121	112	66	88
Slate ... do	468,700	724,600	463,610	330,200	444,560	492,690	8,726	12,575	7,912	3,650	5,605	5,655
Sodium salts (carbonates and sulphates), natural ... short tons	40,243	55,850	122,930	131,936	184,764	180,220	1,183	1,007	1,792	1,449	1,791	1,832
Stone ... 1,000 short tons	78,527	115,851	126,996	[19] 83,159	[19] 133,143	[19] 124,839	133,542	174,217	178,949	[19] 87,824	[19] 146,213	[19] 139,255
Sulfur ... 1,000 long tons	1,518	1,858	1,990	1,635	2,467	1,629	30,000	29,000	35,800	29,300	44,300	27,300
Sulfuric acid, byproduct (60° Baumé)[20] ... 1,000 short tons	[21] 1,230	1,007	1,188	604	834	([5])	13,617	7,513	9,544	4,548	6,735	([5])
Talc, pyrophyllite, and soapstone [22] ... short tons	210,635	182,250	179,385	172,716	229,999	212,775	3,035	2,012	2,108	1,848	2,562	2,303
Tripoli ... do	40,233	29,388	32,439	27,375	34,936	22,188	570	435	508	383	451	329
Vermiculite ... do	----------	([5])	([5])	7,068	26,556	20,700	----------	([5])	([5])	88	261	192
Total nonmetallic products (approximate)	----------	----------	----------	----------	----------	----------	**5,217,665**	**4,295,475**	**3,779,010**	**2,916,870**	**3,945,400**	**3,462,200**
Metallic products	----------	----------	----------	----------	----------	----------	1,763,675	1,382,155	985,790	733,130	1,468,200	891,800
Nonmetallic products (exclusive of fuels)	----------	----------	----------	----------	----------	----------	1,024,755	1,236,795	1,014,510	586,870	744,900	657,500
Mineral fuels	----------	----------	----------	----------	----------	----------	4,192,910	3,058,680	2,764,500	2,330,000	3,200,500	2,804,700
Grand total (approximate)	----------	----------	----------	----------	----------	----------	**6,981,340**	**5,677,630**	**4,764,800**	**3,650,000**	**5,418,600**	**4,354,000**

[1] From both domestic and foreign ores. Data for 1935, 1937, and 1938 represent antimonial lead produced at primary refineries from both primary and secondary sources, and are not comparable with data for prior years; estimate of value of primary antimony and lead contents of antimonial lead from domestic sources included in total value of metallic products.

[2] For 1920, largely content of antimonial lead; 1925, content of antimonial lead. Value of the antimony in antimonial lead excluded from total value.

[3] Largely from foreign ore in 1935, 1937, and 1938. Value not included in total value. Bureau of Mines not at liberty to publish value figures or quantity figure for 1938.

[4] Value not included in total value; see headnote. [5] Value included in total value of metallic or nonmetallic products. Bureau of Mines not at liberty to publish figures or not available.

[6] Product from domestic ores only. [7] According to Bureau of the Mint; valued at $20.67+ per ounce through 1930, at $35 per ounce in 1935 and subsequent years.

[8] Figures not available. Value of products derived therefrom, or of raw materials used, is included elsewhere. [9] According to Bureau of the Mint.

[10] Figures obtained through cooperation with Bureau of the Census. Data for 1938 not yet available: estimate included in total value of nonmetallic products. Beginning 1937, value of clay products excludes values of pottery and refractories. [11] Includes brown coal and lignite, and anthracite mined elsewhere than in Pennsylvania.

[12] Quantities as reported by Department of the Interior, National Bituminous Coal Division; values are estimated from various sources and include selling expenses.

[13] Value not included in total value; figure not yet available. [14] No canvass. Estimate of value included in total value of nonmetallic products.

[15] Gypsum mined: After 1936, value of crude at mine; for earlier years, value as sold (crude and calcined). [16] Includes mica recovered by grinding mica schist; excluded in prior years shown.

[17] Sublimed blue lead, sublimed white lead, leaded zinc oxide, and zinc oxide.

[18] Figures include pyrites concentrates from Tennessee and partly desulphurized tailings from zinc operations in Wisconsin; similar output in earlier years was not included.

[19] Includes soapstone used as dimension stone. [20] From copper and zinc smelters, etc. [21] Includes 23,728 tons of stronger acid, not converted to 60° Baumé.

[22] For 1925 and 1930, figures exclude soapstone. For 1935 and thereafter, figures cover talc, pyrophyllite, and ground soapstone. Dimension soapstone is included in stone. Value of soapstone in 1925 and 1930 is included in value of nonmetallic products; Bureau of Mines not at liberty to publish figures.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 746.—Iron Ore—Production, Shipments, Exports, and Imports, 1881 to 1938, and Production, by Region, State, and Kind, 1935 to 1938

Note.—In thousands of long tons (2,240 pounds). Nearly all exports are to Canada. Blank spaces indicate lack of data. Since 1905, ore containing 5 percent or more of manganese has been excluded

Yearly average or year	Production	Shipments	Exports	Imports
1881-1890	10,385			766
1891-1900	17,551			587
1901-1910	41,339		271	1,180
1911-1915	51,595	50,592	953	1,841
1916-1920	69,737	70,224	1,143	967
1921-1925	52,429	52,617	677	1,691
1926-1930	64,600	64,952	1,021	2,709
1931-1935	22,732	23,538	389	1,166
1925	61,908	63,925	631	2,191
1926	67,623	69,203	869	2,555
1927	61,741	61,232	899	2,621
1928	62,197	63,433	1,282	2,463
1929	73,028	75,603	1,304	3,139
1930	58,409	55,201	752	2,775
1931	31,132	28,516	436	1,466
1932	9,847	5,331	83	582
1933	17,553	24,624	155	861
1934	24,588	25,793	609	1,428
1935	30,540	33,426	661	1,492
1936	48,789	51,466	645	2,232
1937	72,094	72,348	1,264	2,442
1938	28,447	26,431	592	2,122

Production	1935	1936	1937	1938
REGION				
Lake Superior [1]	25,368	41,781	61,657	21,308
Birmingham	3,182	4,008	5,953	4,156
All other	1,990	3,000	4,483	2,983
STATE				
Alabama	3,278	4,180	6,308	4,303
California	19	31	(2)	28
Michigan	5,206	9,178	12,085	6,004
Minnesota	19,375	31,634	48,417	14,449
New Jersey	72	160	520	186
New York	297	778	2,625	2,121
Pennsylvania	980	1,132		
Utah	161	154	191	168
Wisconsin	788	970	1,156	855
Wyoming	330	507	708	276
All other	25	65	84	56
KIND				
Hematite	[3] 28,920	[3 4] 46,108	[3] 68,073	[3 5] 25,607
Brown ore	267	475	[6] 666	363
Magnetite	[3] 1,352	[3] 2,206	[3 6] 3,354	[3 5] 2,476
Carbonate	1	1	1	(2)

[1] Includes only those mines in Wisconsin which are in true Lake Superior district. [2] Less than 500 tons.
[3] Some hematite included with magnetite. [4] Some brown ore included with hematite.
[5] Some magnetite included with hematite. [6] Some brown ore included with magnetite.

No. 747.—Pig Iron and Ferro-Alloys—Production, by States, Disposition, Kind, and Fuel and Materials Used: 1900 to 1938

[In thousands of long tons (2,240 pounds) unless otherwise specified]

	1900	1910	1915	1920	1925	1930	1935	1936	1937	1938
Total pig iron and ferro-alloys	13,789	27,304	29,916	36,926	36,701	31,752	21,373	31,029	37,127	19,161
By States:										
New England	14	17	8	10						
New York, New Jersey	463	2,203	2,105	2,601	2,188	2,211	1,611	2,464	3,103	1,494
Pennsylvania	6,366	11,272	12,791	13,983	12,523	10,305	5,700	9,433	11,809	5,001
Indiana, Michigan	164	1,250	1,987	2,940	4,120	3,934	2,898	4,168	4,722	2,347
Maryland and Virginia	781	771	503	953	830	1,088				
Alabama	1,184	1,939	2,049	2,393	2,836	2,395				
Ohio	2,471	5,752	6,913	8,533	8,863	6,805				
Illinois	1,363	2,676	2,447	3,281	3,604	3,345	11,163	14,964	17,494	10,319
Wisconsin, Minnesota	185	307	373	711	468	805				
Iowa, Colorado, Utah	798	1,117	741	1,520	505					
All other					762	865				
By disposition:										
For sale	(1)	(1)	8,583	10,724	8,991	7,083	4,022	5,686	7,185	3,390
For maker's use	(1)	(1)	21,333	26,202	27,710	24,670	17,351	25,343	29,943	15,770
By kinds:										
Basic	1,072	9,085	13,093	16,738	19,667	18,393	13,618	20,477	24,781	12,888
Bessemer and low-phosphorus	7,979	11,246	10,523	12,062	9,419	7,315	4,239	5,877	6,315	3,054
Foundry (incl. ferrosilicon)	3,376	5,260	4,844	5,958	5,410	3,960	1,908	2,391	3,239	1,853
Malleable	173	843	830	1,311	1,554	1,572	1,206	1,717	2,115	1,002
Forge	793	564	316	318	241	51	5	34	22	1
Ferromanganese, spiegeleisen, and all other	395	306	310	539	409	461	396	533	655	363
By fuels:										
Coke [2]	11,728	26,258	29,535	36,300	36,504	31,656	21,298	30,952	37,046	19,122
Anthracite	1,677	649	85	303						
Charcoal	384	397	296	323	196	97	75	77	82	39
Materials used:										
Iron ore, briquettes, etc.	24,131	51,739	55,137	66,450	65,450	[3] 53,662	[3] 35,183	[3] 51,405	[3] 62,087	[3] 32,109
Cinder, scale, scrap, etc.	1,600	2,800	4,483	4,986	5,017	[3] 6,296	[3] 4,257	[3] 5,676	[3] 6,449	[3] 3,321
Coke (1,000 tons of 2,000 pounds) [4]	(1)	(1)	33,329	42,046	39,296	[3] 31,168	[3] 20,272	[3] 30,289	[3] 36,540	[3] 18,424
Limestone	7,422	14,528	14,790	17,825	15,154	[3] 11,099	[3] 7,523	[3] 10,938	[3] 13,043	[3] 6,435
Total number furnaces Dec. 31	406	473	445	452	395	300	258	246	241	236
Furnaces in blast Dec. 31	232	206	310	216	238	97	124	176	95	116

[1] Not available. [2] Includes pig iron and ferro-alloys made in electric furnaces.
[3] Materials consumed in manufacture of pig iron only. [4] Coke and bituminous coal 1900 to 1925.

Sources: Table 746, Department of the Interior, Bureau of Mines; Minerals Yearbook. Table 747, American Iron and Steel Institute, annual report.

No. 748.—Pig Iron and Ferro-Alloys and Steel Ingots and Castings—Production, Exports, and Imports: 1871 to 1938

Note.—In long tons (2,240 pounds). Prior to 1901 exports and imports are for years ended June 30 following year specified; calendar years thereafter. Imports are imports for consumption beginning with 1933. All production figures are for calendar years. For individual years 1871 to 1913 and data for earlier years, see Statistical Abstract 1931, tables 750 and 751

Yearly average or year	Pig iron and ferro-alloys			Steel ingots and castings, production	Year	Pig iron and ferro-alloys			Steel ingots and castings, production
	Production	Exports of domestic	Imports			Production	Exports of domestic	Imports	
1871–1875	2,248,293	7,412	137,591	[1] 389,790	1922	27,219,904	33,332	498,059	35,602,926
1876–1880	2,562,763	3,407	276,600	803,479	1923	40,361,146	37,559	474,723	44,943,696
1881–1885	4,301,096	5,311	325,290	1,652,268	1924	31,405,790	45,818	276,966	37,931,939
1886–1890	7,079,312	12,407	229,970	3,292,763	1925	36,700,566	39,907	516,948	45,393,524
1891–1895	8,133,014	22,983	54,778	4,675,736	1926	39,372,729	28,606	514,288	48,293,763
1896–1900	11,491,937	224,268	34,308	8,439,938	1927	36,565,645	55,899	175,529	44,935,185
1901–1905	18,239,665	45,465	314,765	15,367,931	1928	38,155,714	96,743	194,636	51,544,180
1906–1910	24,024,722	78,618	275,036	22,166,783	1929	42,613,983	53,749	223,680	56,433,473
1911–1915	27,518,219	202,011	132,751	28,378,470	1930	31,752,169	25,344	182,446	40,699,483
1914	23,332,244	114,423	139,683	23,513,030	1931	18,426,354	15,429	103,540	25,945,501
1915	29,916,213	224,509	89,836	32,151,036	1932	8,781,453	6,938	145,664	13,681,162
1916	39,434,707	607,236	135,349	42,773,680	1933	13,345,602	11,272	196,284	23,232,347
1917	38,621,216	656,220	76,786	45,060,607	1934	16,138,573	13,474	157,387	[2] 26,055,289
1918	39,054,644	269,575	34,711	44,462,432	1935	21,372,699	17,714	189,197	[2] 34,092,594
1919	31,015,364	321,261	101,665	34,671,232	1936	31,029,187	23,606	254,006	[2] 47,767,856
1920	36,925,987	216,828	185,944	42,132,934	1937	37,127,277	818,000	161,272	[2] 50,568,701
1921	16,688,126	28,405	44,842	19,783,797	1938	19,160,861	460,361	71,436	[2] 28,349,991

[1] 1875 only. [2] Includes only steel castings produced in foundries producing steel ingots.

No. 749.—Rolled and Miscellaneous Steel Products—Production, by Kind: 1910 to 1938

Note.—In thousands of long tons (2,240 pounds). Blank spaces indicate figures not available. The miscellaneous products, except cast-iron pipe, are mostly further elaborations of products above

	1910	1915	1920	1925	1930	1935	1937	1938
Hot-rolled products, total	21,621	24,393	32,348	33,387	29,513	23,965	36,766	20,986
Rails	3,636	2,204	2,604	2,785	1,873	712	1,446	623
Bessemer and electric	1,884	327	143	10	2	1	1	(1)
Open hearth	1,751	1,775	2,334	2,692	1,835	692	1,412	608
Rerolled		102	127	84	36	19	33	15
Sheets and plates	4,955	6,078	9,338	9,808	9,067	8,691	14,037	7,284
Universal		955	1,250	1,196	1,041	439	836	342
Sheared		1,923	3,505	2,557	2,622	1,016	2,407	1,373
Black sheets [2]		1,837	2,886	4,097	3,512	5,176	7,840	4,745
Black plates for tinning		1,093	1,449	1,632	1,692	1,795	2,610	741
Other black-plate specialties		270	247	325	201	265	344	83
Wire rods	2,242	3,096	3,137	2,845	2,349	2,441	3,009	2,109
Structural shapes	[3] 2,267	2,437	3,307	3,604	3,512	1,750	3,277	1,860
Merchant bars	3,786	4,131	6,130	5,659	4,132	[4] 3,699	[4] 5,187	[4] 2,328
Skelp	1,828	2,299	3,220	3,230	2,682	1,352	2,280	1,253
Hoops	262	282	333	205	80	90	103	67
Bands and cotton ties	425	438	389	356	46	25	63	34
Splice and tie-plate bars		536	576	823	606	268	451	199
Rolled forging blooms, billets, etc	460	651	447	345	304	340	667	266
Bars for reenforced concrete work	241	353	572	820	850	557	845	784
Strip and sheets for cold reduced black plate and tin plate								1,503
Strips and flats for cold rolling	1,519	1,888	2,294	2,908	1,942	2,648	2,896	1,030
Blanks or pierced billets					1,248	953	1,922	1,320
All other rolled products					821	[4] 439	[4] 585	[4] 327
Miscellaneous products:								
Tin plate	648	983	1,375	1,544	1,660	1,695	2,418	1,430
Terneplate and long terne sheets	75	73	71	114	103	191	269	187
Galvanized sheets		706	835	1,134	1,045	1,028	1,380	1,051
Galvanized formed products		50	64	80	65	60	54	53
Wire nails	567	651	734	690	427	396	485	430
Cut nails and cut spikes	45	35	38	33	21	18	22	18
Wrought pipe or tubes [5]		1,920	3,003	3,031	2,247	964	1,664	923
Boiler tubes [5]		97	119	63	31	16	17	10
Seamless pipes or tubes		140	292	568	1,194	877	1,757	1,140
Cast-iron pipe and fittings		1,085	792	1,719	1,282	615	890	736
Forgings made by rolling mills	320	524	540	388	476	[6] 315	[6] 482	[6] 253

[1] Less than 500 tons. [2] Rolled on sheet or jobbing mills. [3] Small structural forms not included.
[4] Merchant bars include certain miscellaneous bars included in "All other rolled products" prior to 1935. [5] Excluding electric welding. [6] Including forged axles.

Sources: Table 748, production, American Iron and Steel Institute, annual report. Exports and imports, Dept. of Commerce, Bur. of Foreign and Domestic Commerce, annual report, Foreign Commerce and Navigation of the U. S. Table 749, American Iron and Steel Institute, annual report.

No. 750.—Iron and Steel, Finished Rolled—Production, Exports, and Imports: 1876 to 1938

Note.—In long tons (2,240 pounds). Imports are imports for consumption beginning with 1933; general imports in earlier years. Blank spaces indicate that figures are not available

Yearly average or year (calendar year)	Total production, finished rolled products	Rails			Plates and sheets			Merchant bar production [1]
		Production	Exports	Imports	Production	Exports	Imports	
1876-1880		911,095	4,441	59,851				
1881-1885		1,273,688	3,986	116,972				
1886-1890	[2] 5,278,214	1,710,278	7,275	49,775	[3] 684,914		8,013	
1891-1895	5,472,849	1,264,677	13,650	1,047	755,818	1,510	23,894	
1896-1900	8,162,560	1,881,905	232,518	2,399	1,463,879	30,995	4,771	
1901-1905	13,670,907	2,895,138	225,746	43,207	2,694,625	39,505	6,167	[3] 3,593,601
1906-1910	18,509,490	3,238,486	303,234	3,963	4,054,102	158,591	4,096	3,479,910
1911-1915	22,250,075	2,760,557	378,792	23,740	5,382,221	416,404	2,875	3,770,316
1916-1920	30,810,650	2,629,506	550,821	21,392	8,246,245	907,496	1,576	6,294,708
1918	31,155,754	2,540,892	453,537	8,705	8,799,135	854,136	1,517	6,587,369
1919	25,101,544	2,203,843	652,443	17,008	7,372,814	1,042,697	1,095	4,810,645
1920	32,347,863	2,604,116	594,628	45,684	9,337,680	1,273,558	1,792	6,702,685
1921	14,774,006	2,178,818	321,822	22,048	4,260,574	607,370	1,976	1,792,982
1922	26,452,004	2,171,776	277,090	26,629	7,968,397	439,417	[4] 1,947	4,554,474
1923	33,277,076	2,904,516	267,409	29,706	9,497,717	386,405	[4] 4,572	6,233,663
1924	28,086,435	2,433,332	208,496	43,358	8,087,883	360,540	[4] 6,066	4,937,043
1925	33,386,960	2,785,257	151,690	36,872	9,807,659	386,912	[4] 4,480	6,478,902
1926	35,495,892	3,217,649	187,557	55,212	10,529,056	517,611	[4] 15,616	6,289,665
1927	32,879,031	2,806,486	177,593	15,455	9,627,734	468,511	[4] 19,760	5,686,260
1928	37,662,916	2,647,493	190,925	14,019	11,006,050	522,657	[4] 30,800	7,229,723
1929	41,069,416	2,722,138	146,060	6,236	12,436,312	540,896	[4] 28,461	7,423,496
1930	29,513,007	1,873,233	95,179	8,307	9,067,366	346,853	[4] 28,486	4,982,124
1931	19,175,894	1,157,751	33,108	5,007	6,039,581	192,830	[4] 16,907	3,083,996
1932	10,451,088	402,566	11,320	5,662	3,443,308	79,031	[4] 22,252	1,699,501
1933	16,735,086	416,296	41,481	6,403	6,216,650	108,841	[4] 9,503	2,655,049
1934	18,969,506	1,010,224	69,159	3,073	6,375,815	202,265	[4] 4,646	3,289,431
1935	23,964,552	711,537	51,672	5,658	8,691,136	226,552	[4] 11,733	4,256,417
1936	33,801,379	1,219,846	73,455	7,768	12,152,317	309,600	[4] 23,032	6,091,511
1937	36,766,389	1,445,739	148,182	8,298	14,036,840	790,356	[4] 9,013	6,031,261
1938	20,935,563	622,895	82,721	3,624	7,283,877	512,338	[4] 6,399	3,111,538

Yearly average or year (calendar year)	Skelp production	Wire rods			Structural shapes			All other finished rolled production [1]
		Production	Exports	Imports	Production	Exports	Imports	
1891-1895		633,248		34,804	[5] 429,872			2,475,209
1896-1900		909,819	[6] 16,182	18,087	689,419	[6] 48,877		3,217,538
1901-1905	[3] 1,435,995	1,590,280	16,345	18,390	1,203,791	55,651	[7] 12,886	1,263,396
1906-1910	1,668,674	2,056,732	13,403	15,400	1,936,951	121,086	11,107	2,074,634
1911-1915	2,242,270	2,619,287	75,225	11,784	[8] 2,446,391	265,891	6,352	3,029,034
1916-1920	2,788,397	2,978,731	144,707	3,739	2,982,143	336,379	2,806	4,890,919
1918	2,564,011	2,562,390	148,523	7,677	2,849,969	232,729	3,504	5,251,988
1919	2,555,778	2,538,476	118,010	342	2,614,036	360,787	1,154	3,005,952
1920	3,220,289	3,136,907	116,775	5,488	3,306,748	493,633	1,685	4,039,438
1921	1,930,575	1,564,330	18,953	917	1,272,624	297,022	777	1,774,103
1922	2,872,215	2,654,741	40,424	1,735	2,718,768	167,585	7,823	3,511,633
1923	3,734,336	3,075,892	40,868	3,948	3,405,197	199,021	10,674	4,425,755
1924	3,170,543	2,522,545	18,762	6,851	3,283,708	167,910	43,245	3,651,381
1925	3,229,708	2,844,656	21,207	7,988	3,604,130	169,252	77,291	4,636,588
1926	3,764,550	2,722,032	19,646	10,075	3,911,663	233,059	121,100	5,061,277
1927	3,418,852	2,770,271	16,127	17,988	3,742,445	215,226	161,849	4,826,983
1928	3,368,973	3,080,816	38,623	19,298	4,096,143	296,885	163,762	6,233,718
1929	3,517,238	3,134,409	42,250	15,653	4,778,020	309,837	148,223	7,057,803
1930	2,682,046	2,348,600	39,779	8,843	3,512,473	243,840	120,333	5,047,165
1931	1,499,280	1,844,620	32,125	7,114	2,062,858	121,725	72,329	3,487,808
1932	607,599	1,186,181	14,818	7,934	937,228	32,561	36,547	2,174,705
1933	994,515	2,024,095	16,877	13,339	1,109,457	32,033	29,296	3,319,024
1934	1,120,217	1,723,765	23,732	10,657	1,425,040	53,574	25,023	4,025,014
1935	1,352,079	2,440,794	26,092	16,780	1,749,740	57,313	41,601	4,762,849
1936	2,156,602	2,997,880	34,872	18,911	2,897,631	87,628	61,584	6,285,592
1937	2,279,862	3,009,290	60,008	15,819	3,276,846	185,779	78,273	6,686,551
1938	1,253,161	2,108,598	22,283	5,280	1,859,540	127,519	39,624	4,745,954

[1] Merchant bars include concrete reinforcing bars and, beginning 1934, certain miscellaneous bars previously included in "All other products."
[2] Average for years 1887-1890.
[3] 1905 only; data not available for earlier years.
[4] Includes skelp.
[5] Average for years 1892-1895.
[6] Average for period July 1, 1897, to Dec. 31, 1900.
[7] Average for period July 1, 1903, to Dec. 31, 1905.
[8] Small structural forms not included in 1911.

Source: Production, American Iron and Steel Institute, annual report. Exports and imports, Dept. of Commerce, Bur. of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation of the U. S. Also published currently in Monthly Summary of Foreign Commerce of the U. S.

No. 751.—Steel, Wire and Wire Products, Tin Plate and Terneplate, and Cast-Iron Pipe and Fittings—Production: 1933, 1935, and 1937

Note.—The overlapping of the industries shown in this table results in considerable duplication in tonnages shown. The products chiefly used further in manufacture are wire rods, plates and sheets, black plates for tinning, and skelp. The figures under "Wire," "Tin and terneplate," and "Cast-iron pipe and fittings" include data for products of these departments of steel works and rolling mills and of all other industries producing these commodities.

Industry and product	Quantity in thousands of unit specified				Value in thousands of dollars		
	Unit	1933	1935	1937	1933	1935	1937
STEEL WORKS AND ROLLING MILLS							
All products, total value					1,143,889	1,931,318	3,330,491
Unrolled steel, total	Ton [1]	23,163	34,405	51,599			
Ingots—							
For sale and interplant transfer	do	133	237	643	3,932	9,473	21,132
Produced and consumed in works	do	22,751	33,654	49,790			
Direct steel castings—							
For sale and interplant transfer [2]	do	222	405	1,038	32,296	67,442	184,958
Produced and consumed in works	do	56	109	128			
Semifinished rolled products, for sale and interplant transfer, total.	do	5,470	7,420	10,314	137,957	209,831	336,507
Blooms, billets, and slabs, except for forging.	do	3,025	4,327	7,317	79,499	125,454	241,590
Rolled blooms and billets for forging	do	64	201	334	2,008	7,704	15,304
Sheet and tin-plate bars	do	2,369	2,874	2,642	56,026	75,799	78,590
Muck and scrap bar	do	12	18	22	423	874	1,023
Finished hot-rolled products and forgings, total.	do	16,161	[3] 24,318	[3] 37,320			
Produced and consumed in works	do	4,994	[3] 8,149	[3] 12,163			
For sale and interplant transfer	do	11,166	[3] 16,169	[3] 25,157	495,544	[3] 832,216	[3] 1,429,886
Rails	do	393	692	1,408	15,157	25,541	53,716
Rail joints, fastenings, tie plates, etc.	do	198	270	460	9,316	12,885	23,751
Structural shapes (not fabricated)	do	992	1,618	3,115	35,216	67,308	148,631
Concrete reinforcing bars	do	357	523	814	12,309	22,244	36,781
Merchant bars, mill shafting, etc.—							
Steel	do	2,275	3,322	4,389	107,840	191,101	295,037
Iron	do	45	51	71	3,348	3,623	6,577
Bolt and nut rods, spike and chain rods, etc.	do	34	40	37	1,361	1,798	1,738
Wire rods	do	736	920	1,040	26,179	35,980	49,229
Plates No. 12 and thicker	do	1,404	1,745	3,344	52,460	78,781	171,494
Sheets No. 13 and thinner	do	[4] 2,688	[4] 3,886	[4] 5,601	[4] 137,967	[4] 218,523	[4] 338,073
Skelp	do	468	702	1,144	15,206	25,216	45,095
Hot-rolled strips for cold rolling	do	455	934	1,359	18,041	45,405	73,382
Other strips, etc., and cotton ties	do	742	859	991	29,917	46,220	67,555
Axles	do	55	43	127	2,788	3,042	11,424
Armor plate and ordnance	do	8	21	20	2,080	8,846	8,461
Car and locomotive wheels	do	69	83	172	6,486	7,909	15,526
All other rolled and forged products	do	249	[3] 459	[3] 1,067	19,872	[3] 37,793	[3] 83,418
Scrap iron and steel, for sale and interplant transfer.	do	1,031	1,537	2,942	10,255	17,315	53,779
Cinder and scale	do	709	1,261	2,674	1,269	2,961	4,916
All other (including value added to rolled products by further manufacture).	do				462,636	792,079	1,299,313
WIRE AND WIRE PRODUCTS (ALL METALS)							
All industries, total value					302,829	476,070	764,241
Iron and steel wire:							
Plain wire, total [5]	Ton [6]	1,962	2,349	2,913			
For sale and interplant transfer	do	667	842	1,038	43,586	60,263	85,954
Produced and consumed in works	do	1,295	1,507	1,875			
Galvanized wire: For sale and interplant transfer.	do	168	195	229	9,936	14,335	18,802
Other coated wire: For sale and interplant transfer.	do	34	37	46	4,184	4,646	7,035
Cold-rolled from drawn wire: For sale and interplant transfer.	do	15	19	24	2,882	3,339	3,808
Copper wire:							
For sale and interplant transfer	Lb	99,135	143,581	258,102	10,305	19,506	43,071
Produced and consumed in works	do	169,714	272,268	473,901			
Drawn on contract or custom basis from rods or bars furnished by others.	do	9,673	12,863	20,949			

For footnotes, see next page.

No. 751.—Steel, Wire and Wire Products, Tin Plate and Terneplate, and Cast-Iron Pipe and Fittings—Production: 1933, 1935, and 1937—Con.

Industry and product	Quantity in thousands of unit specified				Value in thousands of dollars		
	Unit	1933	1935	1937	1933	1935	1937
WIRE AND WIRE PRODUCTS (ALL METALS)—continued							
Brass and bronze wire:							
For sale and interplant transfer	Lb	55,015	63,644	77,925	7,527	10,874	16,421
Produced and consumed in works	do	7,492	11,171	18,218			
Electrical-resistance wire, for sale	do	(7)	(7)	10,585	(7)	(7)	7,393
Other metal wire:							
For sale and interplant transfer	do	14,902	19,395	45,529	[8] 6,760	[8] 9,789	[8] 14,487
Produced and consumed in works	do	47	801	1,084			
Fabricated wire products for sale:							
Iron and steel—							
Nails, brads, and spikes [9]	Keg [10]	9,101	9,580	11,081	24,312	30,621	35,664
Tacks [9]	Lb	(11)	4,563	2,903	374	388	229
Staples	do	(11)	50,211	44,158	1,757	1,653	1,577
Barbed wire	Ton [6]	182	196	188	8,608	10,772	11,178
Rope or cable, except insulated	do	49	77	106	13,615	26,593	36,403
Strand, galvanized	do	20	24	33	2,098	3,125	4,403
Poultry netting	do	29	34	50	3,725	3,869	6,092
Woven wire fence, except poultry netting.	do	203	233	284	13,907	17,634	23,330
Fly screening	Lb	42,986	46,872	58,299	5,862	6,335	8,463
Other wire cloth	do	26,392	39,494	47,996	3,136	4,928	6,670
Concrete reinforcement wire	Ton [6]	(11)	(11)	(11)	3,665	4,935	7,685
Other woven wire	do	28	26	23	4,837	4,798	5,501
Motor-vehicle skid chains		(11)	(11)	(11)	3,336	7,258	7,198
Bale ties	Lb	124,090	151,769	160,770	3,680	5,542	5,900
Wire springs					24,104	45,135	73,371
Welding wire, not incl. electrodes	Lb	23,328	28,385	69,135	1,581	2,148	4,132
Other fabricated iron and steel wire products.					19,524	38,220	40,328
Nonferrous wire products—							
Fly screening—							
Copper and bronze	Lb	9,697	10,979	13,567	2,324	2,998	4,309
Other metals	do	91	162	304	64	97	239
Fourdrinier and cylinder wire cloth	do	1,985	2,670	3,183	3,189	4,113	4,961
Other wire cloth—							
Copper and bronze	do	(11)	(11)	(11)	1,227	1,111	1,588
Other metals	do	(11)	(11)	(11)		750	1,336
Copper strand, except insulated	do	24,771	42,541	131,783	2,480	5,986	22,096
Other fabricated nonferrous wire products, except insulated wire.					2,350	2,084	3,273
Fabricated wire products not distributed above.					2,255		
Insulated wire and cable					65,637	122,226	245,342
TIN PLATE AND TERNEPLATE							
All products, total value					151,601	195,845	285,775
Tin plate	Lb	3,764,702	3,789,159	5,433,509	142,434	175,730	254,289
Terneplate	do	198,254	426,843	616,343	6,336	16,593	25,349
All other products					2,830	3,522	6,137
CAST-IRON PIPE AND FITTINGS							
All industries, total value					22,633	40,392	66,212
Quantity reported	Ton [6]	520	743	1,098	20,065	35,315	58,363
Quantity not reported					2,569	5,077	7,849

[1] Of 2,240 pounds.

[2] In addition, steel castings were produced for sale and for interplant transfer by establishments classified in other industries as follows: For 1933, 14,495 tons valued at $2,508,632; 1935, 58,289 tons valued at $8,254,925; 1937, 49,187 tons valued at $9,566,662.

[3] Includes the production of piercing billets, rounds, and blanks which were not called for separately prior to 1935. The amounts reported for 1935 are as follows: Produced and consumed in same works, 888,594 tons; made for sale and interplant transfer, 73,639 tons, valued at $3,920,021. For 1937, produced and consumed in same works, 1,684,518 tons; made for sale and interplant transfer, 534,292 tons valued at $24,807,581. For years prior to 1935 data for the tonnage produced and consumed in plant and an indeterminable amount of that made for sale and interplant transfer were reported under "Blooms, billets, and slabs."

[4] Includes 10,377 tons, valued at $6,011,666 for 1933, 13,615 tons, valued at $9,147,892 for 1935, and 32,853 tons, valued at $21,018,180 for 1937, of stainless-steel plates and sheets not reported separately.

[5] All iron and steel wire, including that subsequently galvanized, otherwise coated, and cold rolled.

[6] Of 2,000 pounds.

[7] Not called for separately.

[8] Includes $313,000 in 1933, $673,000 in 1935, and $214,000 in 1937 for which no quantity was reported.

[9] Not including value of nails and tacks made from nail and tack plate.

[10] Of 100 pounds.

[11] No comparable data; quantity not reported in all cases.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 752.—Steel Ingots and Castings—Production, by Grade: 1890 to 1938

Note.—In long tons (2,240 pounds). Blank spaces indicate that figures are not available

Year	Total	Bessemer	Open hearth			Crucible	Electric	Miscellaneous
			Total	Basic	Acid			
1890	4,277,071	3,688,871	513,232			71,175		3,793
1900	10,188,329	6,684,770	3,398,135	2,545,091	853,044	100,562		4,862
1910	26,094,910	9,412,772	16,504,509	15,292,329	1,212,180	123,303	52,141	3,194
1915	32,151,036	8,287,213	23,679,102	22,308,725	1,370,377	113,782	69,412	1,527
1920	42,132,934	8,883,087	32,671,895	31,375,723	1,296,172	72,265	502,152	3,535
1925	45,393,524	6,723,962	38,034,488	37,087,342	947,146	19,562	615,512	
1930	40,699,483	5,035,459	35,049,172	34,268,316	780,856	2,253	612,599	
1935 [1]	34,092,594	2,835,031	30,715,429	30,361,237	354,192	642	541,492	
1936 [1]	47,767,856	3,458,457	43,536,128	43,114,826	421,302	816	772,455	
1937 [1]	50,568,701	3,449,927	46,272,303	45,772,510	499,793	934	845,537	
1938 [1]	28,349,991	1,880,661	25,964,300	25,691,963	272,337	6	505,024	

[1] Figures include only that part of steel for castings which was made in foundries producing steel ingots.

No. 753.—Blast Furnaces and Steel Mills—Summary: 1889 to 1937

Note.—The scope of the industry "Steel works and rolling mills" is indicated by table 751

Year	Number of establishments	Wage earners (average number)	Wages	Value of products [1]	Value added by manufacture [2]	Primary horsepower
			Thousands of dollars			
1889	719	171,181	89,273	478,688	151,415	784,358
1899	668	222,490	120,820	803,968	281,569	1,597,816
1909	654	278,505	187,807	1,377,152	399,013	3,274,285
1919	695	416,748	711,407	3,623,369	1,321,507	5,399,574
1923	658	424,913	696,761	4,161,938	1,289,910	5,999,941
1925	595	399,914	660,297	3,711,354	1,281,976	6,143,927
1927	602	389,270	645,534	3,488,744	1,219,534	6,781,058
1929	591	419,534	730,974	4,137,214	1,622,837	7,532,530
1931	526	278,206	357,645	1,714,214	623,199	(3)
1933	466	288,945	270,367	1,357,574	481,529	(3)
1935	468	374,808	458,584	2,305,970	893,681	(3)
1937	497	502,417	817,778	4,003,017	1,624,391	(3)
Blast furnaces:						
1935 [4]	72	15,178	18,916	374,651	73,993	(3)
1937 [4]	87	23,075	38,001	672,525	127,644	(3)
Steel works and rolling mills:						
1935	396	359,630	439,669	1,931,318	819,688	(3)
1937	410	479,342	779,776	3,330,491	1,496,747	(3)

[1] Includes much duplication.
[2] Value of products less cost of materials, fuel, and purchased electric energy. Beginning 1935, deductions include, in addition, cost of contract work.
[3] No data.
[4] Includes data for 3 establishments in 1935 and 5 in 1937 engaged in production of sintered ore and flue dust and operated independently of blast furnaces.

No. 754.—Iron and Steel—Aggregate Exports: 1890 to 1938

Note.—Prior to 1922, the small items for which quantity is not available are excluded, while in later years all items are included. Ferromanganese is included for all years. The small item "steam and hot water heating boilers and radiators," formerly classified as heavy iron and steel, is excluded beginning 1922

[Quantities in thousands of long tons (2,240 pounds); values in thousands of dollars]

Year	Quantity	Value	Year	Quantity	Value	Year	Quantity	Value
1890	52		1915	3,533	140,993	1927	2,183	160,609
1895	89		1916	6,101	353,971	1928	2,865	179,881
1900	1,154	42,518	1917	6,439	567,041	1929	3,038	200,203
1905	1,010	33,813	1918	5,375	558,279	1930	1,983	130,039
1907	1,302	60,046	1919	4,400	410,164	1931	969	63,226
1908	964	43,397	1920	4,935	458,376	1932	595	28,857
1909	1,244	50,777	1921	2,213	214,830	1933	1,341	45,534
1910	1,538	63,436	1922	1,995	136,334	1934	2,813	88,691
1911	2,188	86,599	1923	2,010	167,247	1935	3,064	88,414
1912	2,948	112,535	1924	1,806	150,494	1936	3,157	112,692
1913	2,746	108,875	1925	1,763	144,262	1937	7,579	302,360
1914	1,550	63,409	1926	2,167	174,145	1938	5,148	185,433

Sources: Table 752, American Iron and Steel Institute, annual report. Table 753, Dept. of Commerce, Bur. of Census, reports of Biennial Census of Manufactures. Table 754, Dept. of Commerce, Bur. Foreign and Domestic Commerce, annual report, Foreign Commerce and Navigation of the U. S. Also published currently in Monthly Summary of Foreign Commerce of the U. S.

No. 755.—Iron and Steel—Exports, by Kind: 1935 to 1938

Note.—This and tables 754 and 756 exclude the highly elaborated manufactures of iron and steel

Articles	Quantity in long tons (2,240 pounds)				Value in thousands of dollars			
	1935	1936	1937	1938	1935	1936	1937	1938 [1]
Total	3,083,659	3,157,407	7,578,677	5,147,928	88,414	112,692	302,360	185,433
Pig iron, not including ferro-alloys	4,107	5,316	782,436	432,851	96	119	19,403	7,135
Ferromanganese and spiegeleisen	131	466	1,725	247	10	27	73	19
Other ferro-alloys	(2)	2,482	2,780	1,197	(2)	807	2,202	1,172
Scrap	2,103,959	1,936,132	4,101,549	2,998,591	22,949	24,684	79,387	45,830
Ingots, blooms, sheet bars, skelp, etc.	104,202	91,602	415,200	227,328	3,047	2,886	16,898	8,370
Iron and steel bars	53,486	56,665	159,258	150,832	2,741	3,468	11,353	10,341
Alloy steel bars	2,817				583			
Wire rods	26,092	34,872	60,008	22,283	1,013	1,328	3,263	1,112
Galvanized sheets	74,997	63,205	81,019	76,037	5,208	4,689	7,470	7,020
Plates, iron and steel	44,278	95,854	386,819	221,108	1,978	4,461	21,507	11,344
Black steel sheets	100,483	140,158	286,510	205,279	6,550	10,003	24,014	16,442
Black iron sheets	5,183	6,964	10,788	7,566	350	455	935	615
Hoop, band, and strip steel	44,654	61,910	111,234	62,554	2,785	3,997	7,979	5,184
Tin plate, terneplate, etc.	134,499	238,880	360,683	161,576	13,022	23,753	39,940	19,078
Structural shapes, plain material	36,656	62,077	135,706	83,691	1,494	2,584	6,984	4,507
Structural materials, fabricated	21,418	28,034	73,543	45,313	1,613	2,203	6,168	4,405
Tanks, complete and knocked down	8,690	21,574	44,578	37,730	696	1,733	3,551	3,284
Metal lath	850	936	1,751	803	144	161	287	160
Steel rails	51,672	73,455	148,182	82,721	1,455	2,085	5,167	3,112
Rail fastenings, switches, frogs, etc.	10,288	12,903	21,321	12,830	771	946	1,834	1,105
Boiler tubes	8,644	7,387	17,458	8,124	1,154	1,338	2,785	1,541
Casing and oil-line pipe	23,721	28,410	83,481	63,703	2,402	2,760	8,302	6,917
Seamless black pipe, except casing and oil line	2,721	3,924	12,482	7,459	365	586	1,507	1,287
Black and galvanized welded pipe	36,393	25,235	46,431	31,183	2,912	2,181	4,530	3,170
Riveted pipe and fittings	476	1,122	980	945	78	150	137	189
Cast-iron pipe and fittings	17,509	19,952	31,176	31,892	1,309	1,614	2,344	2,475
Malleable-iron screwed pipe fittings	3,466	3,657	5,385	3,102	1,051	1,029	1,597	1,089
Barbed-wire and woven-wire fencing	34,142	36,642	36,995	36,156	1,929	2,177	2,983	2,707
Plain and galvanized wire	39,064	47,355	56,099	49,872	2,214	2,906	4,812	3,776
Woven-wire screen cloth	1,040	1,132	1,588	1,327	324	392	534	433
Wire rope and wire strand	4,040	3,256	7,824	4,372	956	832	1,841	1,181
Electric welding rods	6,021	5,361	9,082	1,183	1,277	1,231	2,061	270
Wire, other, and manufactures thereof				6,262				1,505
Wire nails	11,141	7,799	17,408	20,720	616	473	1,313	1,370
Nails other than wire, tacks, staples	3,702	3,291	4,483	5,236	504	477	660	655
Horseshoes	199	120	179	103	23	16	21	13
Bolts, nuts, rivets, and washers [3]	6,370	6,764	11,166	8,057	1,545	1,610	2,750	2,083
Car wheels and axles	18,410	8,300	27,777	20,938	1,113	576	2,343	1,899
Iron castings	9,163	7,073	9,579	5,152	798	744	1,089	826
Steel castings	2,682	3,281	3,896	2,452	570	678	1,049	688
Forgings	6,203	3,859	10,118	9,092	773	532	1,279	1,124

[1] Preliminary. [2] No comparable data. [3] Except track.

No. 756.—Iron and Steel—Exports, by Destination: 1936, 1937, 1938

Note.—All figures in long tons (2,240 pounds). Products covered are those listed in table 755

Country	1936	1937	1938	Country	1936	1937	1938
Belgium	11,544	66,338	24,744	Argentina	35,108	48,777	28,120
France	3,836	30,959	24,271	Brazil	73,996	109,079	76,451
Germany	7,407	110,012	241,518	Chile	19,958	45,705	50,583
Italy	292,799	402,498	443,802	Colombia	36,002	58,890	57,508
Netherlands	23,712	194,532	291,847	Peru	14,319	27,969	22,193
Norway	11,109	29,730	17,359	Uruguay	15,489	24,754	5,585
Poland and Danzig	31,247	278,329	155,962	Venezuela	28,441	72,717	72,293
Rumania	6,083	1,254	6,819	India and Ceylon	10,416	35,910	20,956
U. S. S. R., Europe and Asia	54,559	94,154	68,652	British Malaya	8,011	13,158	14,508
Sweden	36,693	130,765	31,419	China	79,968	157,965	35,507
United Kingdom	380,836	1,224,144	519,959	Netherlands Indies	10,734	40,718	18,512
Canada	356,119	642,165	368,516	Hong Kong	13,201	43,632	44,300
Central America	48,530	48,893	44,979	Japan	1,111,722	2,784,420	1,866,743
Mexico	110,174	213,411	66,620	Kwantung	5,810	106,358	95,100
British West Indies and Bermudas	4,519	14,758	9,100	Palestine and Syria	4,455	3,866	3,387
Cuba	49,691	61,451	51,755	Philippine Islands	71,574	96,922	106,004
Dominican Republic	3,901	5,074	3,710	Turkey	22,507	35,830	18,778
Netherlands West Indies	6,856	26,391	25,190	Australia	11,323	30,517	30,599
				British South Africa	32,540	64,643	43,027
				Mozambique	24,559	35,526	16,508
				All other	77,759	166,463	125,044

Source of tables 755 and 756: Dept. of Commerce, Bur. of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation of the U. S. Figures, except by destination, are published currently in Monthly Summary of Foreign Commerce of the U. S.

No. 757.—Iron and Steel—Average Annual Prices, by Class or Kind: 1891 to 1938

[Prices of pig iron, rails, and billets, and wire rods in dollars per long ton (2,240 pounds); other prices in dollars per 100 pounds]

Year	Pig iron			Open hearth rails at mills in Pennsylvania [2]	Open hearth steel billets, Pittsburgh [3]	Wire rods, Pittsburgh	Soft-steel bars, Pittsburgh	Iron bars (best refined), Pittsburgh [4]	Tank plates, Pittsburgh	Structural shapes, Pittsburgh [5]	Composite finished steel [6 7]
	Basic, The Valleys	Southern, No. 2, Cincinnati	Local, No. 2, Chicago [1]								
1891-1895	--------	11.74	12.80	27.27	20.89	--------	--------	1.46	--------	--------	--------
1896-1900	--------	12.56	14.30	24.96	21.08	--------	[8] 1.46	1.50	1.61	[8] 1.63	--------
1901-1905	--------	15.80	17.50	27.87	25.76	--------	1.47	1.77	1.60	1.63	--------
1906-1910	16.87	17.66	19.42	28.00	26.60	--------	1.47	1.75	1.57	1.58	1.77
1910	14.76	15.16	17.09	28.00	25.38	--------	1.44	1.65	1.47	1.45	1.68
1911	13.07	13.67	14.83	28.00	21.46	--------	1.26	1.41	1.31	1.32	1.54
1912	13.92	14.93	15.32	28.00	22.38	--------	1.29	1.44	1.33	1.32	1.53
1913	14.71	14.90	15.85	28.00	25.79	--------	1.55	1.69	1.50	1.50	1.66
1914	12.87	13.41	13.60	28.00	20.09	--------	1.15	1.32	1.14	1.15	1.43
1915	13.74	13.57	14.01	28.00	22.44	--------	1.31	1.48	1.31	1.30	1.53
1916	19.76	18.67	20.26	32.00	43.95	--------	2.67	2.13	3.58	2.55	2.67
1917	38.90	38.95	41.31	38.00	70.96	--------	3.64	3.83	5.88	3.67	4.19
1918	32.50	36.56	38.25	55.00	47.33	--------	2.89	4.31	3.24	2.99	3.54
1919	27.67	32.17	29.11	47.29	40.54	53.98	2.50	4.10	2.72	2.52	3.12
1920	42.25	44.52	42.52	52.42	56.14	69.55	3.22	4.75	3.28	2.95	3.74
1921	21.73	26.68	22.93	44.06	34.46	45.94	1.87	4.47	1.93	1.94	2.44
1922	24.20	23.93	24.85	40.75	33.90	40.49	1.72	3.35	1.72	1.71	2.12
1923	25.81	27.87	28.16	43.00	41.75	50.39	2.36	3.50	2.43	2.43	2.70
1924	20.24	23.91	22.10	43.00	37.99	48.31	2.20	4.00	2.12	2.19	2.51
1925	19.59	23.74	22.09	43.00	35.62	46.05	2.02	4.52	1.91	1.99	2.33
1926	18.55	24.71	21.64	43.00	35.00	45.00	2.00	4.62	1.88	1.95	2.32
1927	17.70	21.16	19.68	43.00	33.27	42.44	1.84	4.68	1.82	1.83	2.20
1928	16.66	19.70	18.54	43.00	32.67	42.55	1.87	4.64	1.87	1.87	2.17
1929	18.19	18.51	20.00	43.00	34.06	41.50	1.92	4.13	1.93	1.92	2.21
1930	17.98	16.16	18.47	43.00	31.84	36.91	1.71	4.11	1.69	1.69	2.05
1931	15.85	14.52	17.35	43.00	29.36	35.03	1.63	3.69	1.62	1.62	1.96
1932	13.98	13.84	15.87	42.44	26.51	37.00	1.57	3.35	1.57	1.57	1.90
1933	15.24	16.31	16.47	39.26	26.00	35.15	1.64	3.35	1.61	1.68	1.88
1934	17.69	18.80	18.19	36.37	27.10	37.37	1.81	3.50	1.78	1.78	2.03
1935	18.17	19.34	18.68	36.37	27.25	38.21	1.81	3.50	1.80	1.80	2.06
1936	19.10	19.99	19.60	36.59	29.68	39.12	1.93	3.70	1.85	1.85	2.08
1937	22.99	23.20	23.49	41.86	36.45	46.27	2.40	4.50	2.21	2.21	2.46
1938	21.70	22.18	22.20	41.77	35.45	44.93	2.35	4.50	2.17	2.17	2.39

[1] At furnace after 1907.
[2] Bessemer rails prior to Oct. 22, 1921.
[3] Bessemer billets prior to 1927.
[4] Muck iron in 1891.
[5] Beams prior to Mar. 19, 1929.
[6] Includes hot-rolled strip beginning 1920.
[7] Prior to 1920, No. 24 gage hot-rolled annealed sheets; thereafter, No. 10.
[8] Average for 1898-1900.

No. 758.—Aluminum and Bauxite—Production, Exports, and Imports: 1913 to 1938

	1913	1920	1925	1930	1935	1937	1938
BAUXITE							
Quantities, long tons (2,240 pounds):							
Production	210,241	521,308	316,540	330,612	233,912	420,232	[1] 311,354
Georgia, Alabama, and Tennessee [2]	40,370	40,029	20,220	15,339	14,121	18,037	[1] 18,074
Arkansas	169,871	481,279	296,320	315,273	219,791	402,195	[1] 293,280
Imports for consumption	21,456	42,895	353,696	409,678	199,959	507,423	455,693
Exports, including concentrates	(3)	22,257	78,633	104,504	82,491	123,191	57,726
Value of production [4] (1,000 dollars)	998	3,247	1,988	1,928	1,557	2,445	1,813
ALUMINUM							
Value, 1,000 dollars:							
Production—							
Primary metal	9,450	41,375	36,430	50,961	22,070	55,609	56,659
Secondary metal	2,199	9,489	24,816	17,177	19,018	23,773	15,326
Imports for consumption, total	4,784	13,077	10,107	5,286	4,270	8,178	3,379
Crude and semicrude	4,388	12,184	9,806	4,690	3,694	6,883	2,491
Manufactures	396	893	301	596	585	1,295	888
Exports, total	966	5,631	6,057	7,122	2,067	2,943	5,484
Crude and semicrude	--------	3,068	3,366	3,916	694	1,261	3,912
Manufactures	--------	2,563	2,691	3,206	1,373	1,682	1,572
Quantities, 1,000 pounds:							
Imports (crude and semicrude)	25,095	39,299	41,997	25,461	21,291	45,178	17,740
Exports (crude and semicrude)	(3)	9,408	12,642	17,330	3,970	5,384	12,618

[1] Includes small quantity of activated bauxite.
[2] *No production in Tennessee since 1928.*
[3] Unavailable.
[4] F. o. b mines.

Sources: Table 757, Iron ge, published Jan. 5, 1939, and American Iron and Steel Institute, annual report; table 758, Department of the Interior, Bureau of Mines, Minerals Yearbook.

No. 759.—Copper—Production, Exports, Imports, and Consumption: 1910 to 1938

NOTE.—All quantities except ore produced in millions and tenths of millions of pounds. Production figures include continental United States and Alaska. Owing to the varying stages of production, the stocks in different classes of hands, the redistribution of copper previously purchased, the recovery and use of old copper, etc., calculations of consumption are somewhat uncertain. The American Bureau of Metal Statistics presents consumption estimates rather widely different from those given below. Consumption as shown represents the quantity of copper withdrawn on domestic account, but not actual domestic consumption, as no account is taken of consumers' stocks

Item	1910	1920	1925	1930	1935	1936	1937	1938
UNREFINED COPPER								
Ore produced (million short tons) [1]	28.5	36.8	53.1	47.4	19.1	38.5	[2] 61.5	([3])
Average copper yield, percent	1.88	1.63	1.54	1.43	1.89	1.54	1.29	([3])
Smelter output from domestic ore	1,080.2	1,209.1	1,674.9	1,394.4	762.6	1,222.8	1,669.3	1,124.7
Mine production	1,088.2	1,224.6	1,678.1	1,410.1	761.0	1,229.0	1,684.0	1,115.5
Imports, unrefined:								
Ore (copper content)	64.2	52.0	107.6	101.3	15.3	26.0	32.3	15.0
Concentrates (copper content)	21.0	46.8	54.0	56.9	60.4	61.9	103.7	124.5
Matte and regulus (copper content)		17.6	1.7	4.7	5.5	3.7	10.4	5.0
Unrefined, in bars, pigs, etc.	[4] 259.2	244.7	379.3	560.5	395.9	276.3	391.8	353.6
REFINED COPPER PRODUCTION								
Total new and old copper	1,611.0	2,151.0	3,045.0	3,091.0	2,075.4	2,614.2	3,197.8	2,304.4
New copper (primary)	1,422.0	1,526.2	2,204.6	2,157.1	1,177.6	1,645.0	2,133.6	1,584.8
Domestic	1,071.9	1,182.4	1,682.9	1,391.2	676.6	1,290.9	1,644.5	1,105.1
Foreign	350.1	343.7	521.7	765.8	501.0	354.1	489.1	479.7
Electrolytic	1,128.3	1,351.7	2,050.6	1,993.6	[5] 1,103.7	1,551.9	[5] 2,035.1	[5] 1,512.6
Lake	221.5	153.5	138.0	143.0	[5] 73.6	91.1	[5] 84.0	[5] 72.0
Casting and best select	72.3	[6] 21.0	15.9	20.5	.3	1.9	14.5	.2
Secondary copper (from new and old scrap)	189.0	624.9	840.4	934.4	897.8	969.2	1,064.2	719.6
REFINED COPPER CONSUMPTION								
New copper produced (refinery)	1,422.0	1,526.2	2,204.6	2,157.1	1,177.6	1,645.0	2,133.6	1,584.8
Refined copper imported	([4])	108.7	99.8	86.2	36.1	9.6	15.0	3.0
Refined copper exported	[7] 708.3	[7] 553.1	1,022.3	669.3	550.0	472.2	620.8	770.4
Stocks, Dec. 31 (refined)	122.8	659.0	124.0	615.0	350.0	220.0	358.0	362.0
Withdrawn on domestic account:								
New refined copper	732.4	1,053.8	1,401.0	1,265.0	882.7	1,312.4	1,389.8	814.0
New and old copper	921.0	1,679.0	2,241.0	2,199.0	1,780.0	2,282.0	2,454.0	1,534.0

[1] Tons of 2,000 pounds. Old tailings are included beginning with 1930.
[2] Exclusive of Alaska, figures for which the Bureau of Mines is not at liberty to publish.
[3] Not available.
[4] Imports of refined copper in ingots, bars, or other forms included in imports of unrefined.
[5] Some copper from Michigan was electrolytically refined and is included with electrolytic.
[6] Includes pig.
[7] Includes small exports of unrefined black blister and converter copper (bars, pigs, etc.).

No. 760.—Copper—Smelter Production, by State of Origin of Ore: 1910 to 1938

[Quantities in thousands of pounds]

State of origin	1910	1920	1925	1930	1935	1936	1937	1938
Total	1,080,160	1,209,061	1,674,870	1,394,389	762,587	1,222,819	1,669,322	1,124,657
Alaska	4,311	66,094	72,204	36,380	14,602	30,422	42,215	33,493
Arizona	297,251	552,989	722,653	570,897	278,519	414,144	580,493	420,351
California	45,760	11,822	46,944	26,262	1,630	10,328	10,615	1,681
Colorado	9,307	4,283	3,163	12,944	14,341	19,181	21,826	30,564
Idaho	6,878	1,922	3,144	2,714	2,125	2,925	4,804	5,611
Michigan	221,463	153,484	138,030	142,986	73,812	91,105	84,751	75,281
Missouri	----------	533	12	2	85	464	696	626
Montana	283,079	177,744	270,605	198,796	157,760	215,433	280,662	156,250
Nevada	64,495	55,580	77,138	87,475	72,819	146,154	149,064	93,656
New Mexico	3,785	52,160	76,467	74,188	4,560	6,075	63,574	43,913
Oregon	22	2,529	126	230	372	566	870	89
Pennsylvania	741	618	562	3,061	([1])	([1])	([1])	([1])
Tennessee	16,692	16,728	19,789	([1])	([1])	([1])	([1])	([1])
Utah	125,185	110,358	242,731	205,770	120,973	261,202	404,169	229,877
Washington	65	2,126	1,185	1,405	81	202	124	12,494
Undistributed	1,127	92	117	[2] 31,280	[2] 20,909	[2] 23,717	[2] 24,558	[2] 20,771

[1] Included under "Undistributed." [2] See note 1.

Source of tables 759 and 760: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 761.—Copper—Smelter and Refinery Output: 1850 to 1938

Note.—Smelter output as here given represents the production of unrefined copper from domestic (including Alaskan) ores. Some copper ore is imported and smelted in this country, but this appears only in the figures of refined copper from imported material in table 759

[Quantities in millions of pounds; values in thousands of dollars]

Period	Smelter output from domestic ore		Year	Smelter output from domestic ore		Refinery output (quantity)			
						New copper			Secondary copper
	Quantity	Value		Quantity	Value	Total [1]	Domestic	Foreign [1]	
1850	1½	320	1915	1,388	242,902	1,634	1,388	247	395
1860	16	3,709	1916	1,928	474,288	2,259	1,928	331	700
1870	28	5,997	1917	1,886	514,911	2,428	1,886	542	767
			1918	1,909	471,408	2,432	1,883	549	705
1871–1875	34	8,895	1919	1,286	239,274	1,805	1,433	372	574
1876–1880	50	9,679	1920	1,209	222,467	1,526	1,182	344	625
1881–1885	118	17,236	1921	506	65,221	951	609	341	435
1886–1890	226	30,345	1922	950	128,289	1,256	905	351	672
1891–1895	339	37,266	1923	1,435	210,945	1,980	1,464	516	822
1896–1900	531	74,424	1924	1,634	214,087	2,260	1,674	586	777
1901–1905	732	103,859	1925	1,675	237,832	2,205	1,683	522	840
1906–1910	980	150,924	1926	1,740	243,547	2,322	1,731	591	960
1911–1915	1,221	185,592	1927	1,684	220,609	2,326	1,719	607	980
1916–1920	1,644	395,270	1928	1,826	262,930	2,488	1,792	696	1,073
1921–1925	1,240	171,275	1929	2,003	352,504	2,740	1,983	757	1,253
1926–1930	1,729	252,172	1930	1,394	181,271	2,157	1,391	766	934
1931–1935	658	52,066	1931	1,043	94,887	1,501	1,075	427	694
			1932	544	34,278	681	445	236	496
1909	1,093	142,084	1933	450	28,800	742	481	260	676
1910	1,080	137,180	1934	489	30,076	891	466	425	755
1911	1,097	137,154	1935	763	63,295	1,178	677	501	898
1912	1,243	205,130	1936	1,223	112,499	1,645	1,291	354	969
1913	1,224	189,795	1937	1,669	201,988	2,134	1,645	489	1,064
1914	1,150	152,968	1938	1,125	110,216	1,585	1,105	480	720

[1] Figures for 1919 and prior years include data for refined copper imported.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 762.—Copper—Exports and Imports: 1891 to 1938

Note.—Exports are those classed as "domestic" in the foreign trade statistics but include copper smelted or refined in the United States from imported ore or unrefined metal. Values include all forms of copper. Quantities represent all copper except the small item, "other manufactures." Copper content of exports of ore for years 1891–1915 and of imports for years 1894–1903 was estimated

[Quantities in short tons (2,000 pounds); values in thousands of dollars]

Yearly average or year	Exports		Imports		Year	Exports		Imports	
	Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value
1891–1895 [1]	65,586	14,392	5,477	896	1929	499,237	183,405	487,156	153,710
1896–1900 [1]	137,684	36,745	24,634	5,866	1930	376,647	105,342	408,577	104,616
1901–1905 [1]	190,451	54,942	83,237	22,611	1931	278,937	54,748	292,946	48,745
1906–1910 [1]	289,445	92,334	130,111	38,026	1932	164,111	21,236	195,996	23,735
1911–1915 [1]	416,840	123,655	176,635	46,129	1933	174,627	24,017	[3] 126,639	[3] 14,834
1916–1920 [2]	376,877	208,909	244,948	103,805	1934	312,743	49,765	[3] 199,538	[3] 27,786
1921–1925	438,337	129,761	298,975	77,811	1935	302,873	48,933	[3] 240,528	[3] 33,213
1926–1930	491,290	149,999	407,630	108,244	1936	262,417	50,663	[3] 183,788	[3] 29,884
1931–1935	246,658	39,920	211,138	20,662	1937	350,317	93,626	[3] 227,479	[3] 52,563
1927	538,365	150,214	359,161	84,963	1938	422,014	86,809	[3] 205,718	[3] 37,872
1928	562,510	169,831	393,537	98,187					

[1] Fiscal years ended June 30.
[2] Average for period July 1, 1915, to Dec. 31, 1920.
[3] Imports for consumption; general imports prior to 1933.

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation of the U. S. Also published currently in Monthly Summary of Foreign Commerce of the U. S.

No. 763.—Lead, Recoverable—Mine Production, by States and for Alaska: 1920 to 1938

[In short tons (2,000 pounds)]

State	1920	1925	1930	1934	1935	1936	1937	1938[1]
Total	**496, 814**	**684, 439**	**558, 313**	**287, 339**	**331, 103**	**372, 919**	**464, 892**	**369, 726**
Western States and Alaska	248, 131	364, 387	312, 413	169, 251	193, 439	218, 387	254, 468	202, 953
Alaska	875	789	1, 365	747	670	941	823	994
Arizona	6, 935	11, 938	4, 246	3, 439	7, 783	10, 688	12, 354	10, 571
Colorado	23, 315	31, 483	22, 130	4, 218	5, 673	7, 267	9, 786	9, 455
Idaho	118, 565	126, 521	134, 058	71, 324	79, 020	91, 339	103, 711	92, 177
Montana	14, 846	18, 765	10, 653	10, 005	15, 589	19, 059	17, 957	9, 327
Nevada	10, 100	12, 238	11, 529	10, 991	12, 676	10, 712	9, 347	4, 679
New Mexico	1, 435	3, 210	10, 378	9, 365	7, 289	6, 626	6, 512	4, 949
Utah	66, 898	153, 335	115, 495	58, 077	63, 510	69, 886	89, 458	65, 057
Other	5, 162	6, 108	2, 559	1, 085	1, 229	1, 869	4, 520	5, 144
Central States	246, 780	317, 375	237, 533	114, 463	132, 682	148, 536	204, 885	158, 873
Kansas	16, 452	22, 775	12, 910	6, 805	10, 892	11, 409	16, 008	15, 239
Missouri	161, 812	211, 566	199, 632	90, 493	97, 493	110, 428	157, 631	122, 027
Oklahoma	64, 086	79, 946	23, 052	16, 747	23, 405	25, 427	29, 840	21, 004
Other	4, 430	3, 088	1, 939	418	892	1, 272	1, 406	603
Eastern States	[2] 1, 903	2, 677	8, 367	3, 625	4, 982	5, 996	5, 539	7, 900
New York	--------	--------	8, 367	3, 625	4, 982	5, 996	5, 539	7, 896
Tennessee	1, 880	448						
Virginia	--------	2, 229						
North Carolina	--------	--------	--------	--------	--------		--------	4

[1] Preliminary. [2] Includes small quantities produced in Massachusetts, Pennsylvania, and Georgia.

No. 764.—Lead—Production of Refined Primary and Secondary Lead, 1830 to 1938, and by Class and Source: 1880 to 1938

Note.—Production in short tons (2,000 pounds); values, except price per pound, in thousands of dollars. Figures, except those for antimonial and secondary lead, relate to new (primary) lead only; totals include lead derived from both domestic (including Alaska) and foreign ore. General production figures and production of desilverized lead exclude lead content of antimonial lead, shown in next to last column

Year	Production	Value	Year	Production	Value	Year	Production	Value
1830	8, 000	608	1905	388, 307	36, 501	1922	532, 662	58, 593
1840	17, 000	1, 660	1906	404, 746	46, 141	1923	618, 322	86, 565
1850	22, 000	2, 112	1907	413, 389	43, 819	1924	690, 493	110, 479
1860	15, 600	1, 778	1908	396, 564	33, 311	1925	766, 969	133, 453
1870	17, 830	2, 247	1909	446, 909	38, 434	1926	798, 941	127, 831
1880	95, 725	9, 573	1910	470, 272	41, 384	1927	796, 530	100, 363
1885	126, 192	10, 095	1911	486, 979	43, 828	1928	781, 071	90, 604
1890	157, 844	14, 206	1912	480, 894	43, 280	1929	774, 633	97, 604
1895	235, 822	15, 093	1913	462, 460	40, 696	1930	643, 033	64, 303
1897	282, 169	20, 316	1914	542, 122	42, 286	1931	442, 764	32, 765
1898	302, 148	22, 963	1915	550, 055	51, 705	1932	281, 941	16, 916
1899	298, 047	26, 824	1916	571, 134	78, 817	1933	263, 676	19, 512
1900	367, 773	32, 364	1917	610, 769	105, 052	1934	311, 236	23, 031
1901	371, 032	30, 909	1918	640, 195	90, 908	1935	324, 560	25, 965
1902	367, 892	30, 167	1919	482, 220	51, 115	1936	399, 156	36, 722
1903	368, 939	30, 991	1920	529, 657	84, 745	1937	467, 317	55, 143
1904	393, 452	33, 837	1921	448, 589	40, 373	1938	383, 669	35, 298

Year	Class		Source			Average value per pound	Antimonial lead, at primary refineries	Secondary lead recovered, total
	Desilverized [1 2]	Soft undesilverized [2]	Domestic ores and bullion [3]	Foreign ores	Foreign base bullion			
1880	68, 035	27, 690	95, 725	--------	--------	$0. 050	(4)	--------
1890	126, 493	31, 351	139, 720	18, 124		. 045	(4)	--------
1900	319, 752	48, 021	260, 918	106, 855		. 044	(4)	--------
1910	328, 954	141, 318	375, 402	18, 065	76, 805	. 044	(4)	55, 422
1920	339, 803	189, 854	476, 849	8, 414	44, 394	. 080	(4)	124, 650
1925	506, 409	260, 560	654, 921	47, 024	65, 024	. 087	(4)	226, 880
1930	441, 672	201, 361	573, 740	34, 348	34, 945	. 050	24, 797	255, 800
1932	218, 811	63, 130	248, 917	21, 747	11, 277	. 030	21, 024	198, 300
1933	178, 098	85, 578	249, 713	7, 677	6, 286	. 037	17, 805	224, 500
1934	209, 212	102, 024	299, 841	10, 241	1, 154	. 037	16, 607	208, 400
1935	227, 777	96, 783	310, 505	13, 659	396	. 040	16, 384	270, 400
1936	287, 406	111, 750	387, 698	11, 401	57	. 046	23, 230	262, 900
1937	327, 368	139, 949	443, 142	23, 393	782	. 059	27, 524	275, 100
1938	275, 877	107, 792	331, 964	32, 862	18, 843	. 046	24, 123	224, 900

[1] Desilverized soft lead is included.
[2] Soft lead, both desilverized and undesilverized, includes lead derived from Missouri ores and other non-argentiferous ores.
[3] Excludes lead content of antimonial lead. [4] Not available.
Source of tables 763 and 764: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 765.—Lead—Supply and Distribution of Refined Primary Pig: 1910 to 1938

Note.—All data in short tons (2,000 pounds). Apparent deliveries are only approximate, as no account (except for bonded warehouses prior to 1933) is taken of changes in stocks

	1910	1920	1925	1930	1935	1936	1937	1938
Supply, total	473, 836	565, 610	779, 035	644, 570	325, 882	401, 746	469, 555	385, 574
Stock in bonded warehouses Jan. 1	79	234	5, 045	1, 328	(1)	(1)	(1)	(1)
Imports of pigs, bars, and old	3, 485	35, 719	7, 021	209	[2] 1, 322	[2] 2, 590	2, 238	1, 905
Production from domestic and foreign ore	470, 272	529, 657	766, 969	643, 033	324, 560	399, 156	467, 317	383, 669
Deductions, total	69, 861	21, 415	111, 681	49, 635	6, 982	18, 313	20, 091	[3] 45, 866
Exports of pigs, bars, etc.[4]	69, 786	20, 093	103, 519	48, 307	6, 982	18, 313	20, 091	[3] 45, 866
Stock in bonded warehouses Dec. 31	75	1, 322	8, 162	(1)	(1)	(1)	(1)	(1)
Apparent deliveries to domestic consumers	403, 975	544, 195	667, 354	594, 935	318, 900	383, 433	449, 464	339, 708

[1] Stocks of pigs, bars, etc., in bonded warehouse not separately reported after April 1930; included with base bullion. For purpose of calculating apparent deliveries in 1930, stocks in warehouse are estimated to have remained unchanged from beginning of the year.
[2] Includes small quantities of old, reclaimed, and scrap lead.
[3] Includes a small quantity, not separable, of "sheets."
[4] Including small quantities of foreign lead reexported.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 766.—Nonferrous Metals and Alloys, and Finished Products Thereof—Production, by Kind: 1933, 1935, and 1937

Note.—Table shows products made for sale and interplant transfer, excluding those made for consumption in same works. Data represent production of commodities specified, whether made as primary or as secondary products by industries reporting them. The census designations of industries in which these commodities are made as primary products are as follows: "Nonferrous-metal alloys; nonferrous-metal products, except aluminum, not elsewhere classified;" and "Smelting and refining, nonferrous metals other than gold, silver, and platinum, not from the ore." No data are included for establishments engaged in smelting and refining concentrates containing copper, lead, zinc, and other nonferrous metals

Kind	Tons (2,000 pounds)			Value (thousands of dollars)		
	1933	1935	1937	1933	1935	1937
Ingots and pigs:						
Copper (secondary)	29, 277	29, 281	39, 890	4, 180	4, 935	9, 499
Lead (secondary)	119, 095	129, 512	125, 520	9, 913	11, 429	15, 437
Zinc (secondary)	23, 337	31, 058	47, 918	2, 037	3, 044	6, 221
Brass and bronze	58, 641	74, 388	138, 762	8, 018	[1] 14, 381	34, 348
Antifriction bearing metal	12, 814	19, 638	40, 970	4, 324	[1] 6, 520	11, 674
Solders, of all kinds	26, 740	38, 950	58, 546	11, 241	[1] 16, 720	28, 622
Type metal	22, 428	28, 381	34, 756	2, 762	[1] 4, 234	6, 258
Plates and sheets:						
Brass and bronze	117, 559	153, 364	195, 822	28, 754	44, 606	78, 798
Copper	69, 287	93, 014	104, 366	17, 237	26, 143	36, 350
Lead	12, 284	17, 332	22, 503	1, 537	2, 309	3, 776
Nickel alloys	10, 641	14, 881	17, 899	5, 710	7, 713	10, 795
Zinc	24, 957	49, 931	63, 744	4, 306	8, 131	12, 342
Rods:						
Brass and bronze	68, 821	94, 261	139, 743	14, 279	23, 894	43, 240
Copper	80, 470	111, 334	199, 374	12, 588	22, 387	44, 080
Nickel and other metals and alloys				4, 229	6, 400	8, 760
Extruded shapes				1, 438	5, 966	6, 077
Tubing (seamless) and pipe:						
Brass and bronze	38, 730	47, 834	78, 865	10, 760	16, 626	34, 870
Copper	29, 575	33, 992	57, 999	9, 055	12, 039	26, 282
Lead	13, 485	16, 829	22, 965	1, 953	2, 455	3, 928
Nickel alloys	792	1, 304	1, 918	600	1, 522	2, 165
Other tubing				520	1, 399	2, 183
Castings, rough:						
Brass and bronze:						
Quantity reported	36, 543	51, 598	126, 281	11, 917	19, 156	49, 354
Quantity not reported				4, 658	14, 303	
Copper	1, 367	1, 820	3, 901	664	[2] 771	2, 214
Nickel alloys [3]	3, 318	2, 256	4, 233	2, 838	[2] 2, 480	4, 490
Finished products:						
Castings, finished				3, 530	4, 356	3, 475
Bearings and bushings (including antifriction linings)				9, 533	21, 209	43, 255
Die castings				7, 962	20, 267	28, 073
Forgings and hot-pressed parts				1, 781	2, 723	6, 837
Bells				161	351	407

[1] Not including the value of ingots and pigs for which no quantity was reported as follows: Brass and bronze, $197,000; antifriction bearing metal, $1,186,000; solders, $2,010,000; type metal, $214,000.
[2] Not including the value of castings for which no quantity was reported as follows: Copper, $644,000; nickel alloys, $419,000.
[3] Includes nonferrous heat-corrosion-resistant alloy castings.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

No. 767.—Zinc—Production of Ore, by States, Smelter Production, and Primary Slab Zinc Available for Consumption: 1910 to 1938

Note.—The excess of mine production over smelter production is due chiefly to export of ore

[All quantity figures in short tons (2,000 pounds); values in thousands of dollars]

	1910	1920	1925	1930	1935	1936	1937	1938 [1]
Mine production (recoverable zinc content of ore)	327,618	587,524	710,847	595,425	517,903	575,574	626,362	516,699
Colorado	38,545	24,395	30,811	36,259	1,202	1,172	4,247	4,553
Idaho	2,802	13,966	15,619	37,649	31,053	49,100	54,199	44,030
Kansas	13,229	61,073	118,778	74,304	54,110	79,017	80,300	73,024
Missouri	128,589	24,509	14,794	10,811	7,263	18,709	20,600	10,226
Montana	15,819	92,169	57,658	26,421	54,781	49,717	39,168	8,844
Nevada	1,354	5,349	7,411	14,584	15,536	13,477	14,236	8,940
New Jersey	68,584	78,511	89,261	97,626	85,708	89,883	101,408	85,839
New Mexico	9,044	5,007	9,246	32,765	22,126	20,668	23,927	28,236
New York	----------	5,654	5,158	22,471	23,720	26,941	32,690	29,896
Oklahoma	6,394	219,727	283,371	136,153	129,763	129,175	135,696	112,924
Tennessee	966	19,217	16,256	[2] 48,147	[2] 48,832	[2] 44,916	[2] 55,255	[2] 56,766
Utah	8,184	4,079	26,306	44,495	31,107	36,192	48,001	33,658
Wisconsin	25,927	27,285	20,230	12,558	8,923	8,126	6,938	2,073
Other States	8,181	6,583	15,948	1,182	3,779	8,481	9,697	17,690
Smelter production	310,407	506,227	634,376	547,345	([3])	([3])	621,444	488,611
Primary zinc	269,184	463,377	572,946	498,045	420,634	492,132	556,904	446,341
From domestic ore	252,479	450,045	555,631	489,361	412,184	491,803	551,165	436,007
From foreign ore	16,705	13,332	17,315	8,684	[4] 8,450	[4] 329	[4] 5,739	[4] 10,334
Secondary zinc	41,223	42,850	61,430	49,300	([3])	([3])	64,540	42,270
Redistilled	12,784	21,371	39,181	[5] 34,849	28,650	42,209	51,554	31,613
Remelted	28,439	21,479	22,249	14,451	([3])	([3])	12,986	10,657
Value of primary product from domestic ore ($1,000)	27,268	72,007	84,456	46,979	36,272	49,180	71,651	41,857
Primary slab zinc:								
Supply, total	281,379	500,170	593,700	584,230	549,861	594,331	649,612	532,715
Stock at smelters, Jan. 1	11,206	36,793	20,754	85,904	124,783	90,539	55,500	79,144
Production	269,184	463,377	572,946	498,045	420,634	492,132	556,904	446,341
Imports for consumption	989	([6])	([6])	281	4,444	11,660	37,208	7,230
Deductions:								
Exports	73,990	102,178	76,351	4,633	1,617	37	249	[8] 200
Stock at smelters, Dec. 31	23,232	71,037	13,080	167,293	90,539	55,500	79,144	157,511
Apparent deliveries to domestic consumers	254,157	326,955	504,269	412,304	457,705	538,794	570,219	375,004

[1] Preliminary. [2] Includes Virginia. [3] Figures are being revised.
[4] Derived from Mexican ores, 1935 and 1936; thereafter, mostly from Peru.
[5] Includes small quantity of secondary electrolytic zinc. [6] Less than one-half of 1 ton.
[7] Includes plates and sheets; not separately reported. [8] Estimated; not separately recorded.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 768.—Zinc, Primary—Smelter Production From Domestic Ore: 1875 to 1938

[Quantities in short tons (2,000 pounds); values[1] in thousands of dollars]

Yearly average or year	Quantity	Value	Yearly average or year	Quantity	Value	Year	Quantity	Value
1875	15,833	[2] 2,217	1921-1925	426,261	56,149	1929	612,136	80,802
1880 [3]	23,230	2,277	1926-1930	576,395	73,119	1930	489,361	46,979
1885	40,688	3,540	1931-1935	314,541	25,432	1931	291,996	22,192
1886-1890	54,285	5,219	1922	353,274	40,273	1932	207,148	12,429
1891-1895	82,396	6,787	1923	508,335	69,134	1933	306,010	25,705
1896-1900	109,963	10,180	1924	515,831	67,058	1934	355,366	30,561
1901-1905	169,504	17,067	1925	555,631	84,456	1935	412,184	36,272
1906-1910	219,378	24,165	1926	611,991	91,799	1936	491,803	49,180
1911-1915	346,867	52,416	1927	576,960	73,851	1937	551,165	71,651
1916-1920	508,731	99,812	1928	591,525	72,166	1938	436,007	41,857

[1] Values at New York prices, up to and including 1907; at St. Louis prices, 1908 to 1914; at average price of all grades, 1915 and later years.
[2] Computed at yearly average of high and low monthly prices at New York.
[3] Census year ended May 31.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 769.—Gold and Silver—Production in Continental United States, Alaska, Puerto Rico, and Philippine Islands: 1792 to 1938

Note.—The value of gold, in terms of money, being at a fixed rate, is not shown in the table. Gold is valued at $20.67+ per fine troy ounce from 1837 through 1933. In 1933, however, varying higher prices prevailed subsequent to the Executive order of Aug. 29. The value of gold production for 1933, as computed by the Bureau of Mines, was $65,338,000, including $52,842,000 calculated at legal coinage value ($20.67+ per ounce) plus $12,485,000 premium calculated at average weighted price ($25.56 per ounce). On Jan. 31, 1934, the legal value of gold was fixed at $35 per fine ounce. The value of silver given is commercial value, except for 1921 to June 1923 and beginning 1934 (see footnotes 1 and 2), which has differed materially from coinage value

[Figures are totals for period or for year]

Calendar year or period	Gold, 1,000 fine ounces	Silver, 1,000 fine ounces	Silver, value, 1,000 dollars	Calendar year	Gold, 1,000 fine ounces	Silver, 1,000 fine ounces	Silver, value, 1,000 dollars
1792–1847	1,187	310	405	1907	4,375	56,515	37,300
1848–1850	4,838	116	152	1908	4,574	52,441	28,051
1851–1855	14,271	194	259	1909	4,822	54,722	28,455
1856–1860	12,384	309	418	1910	4,657	57,138	30,855
1861–1865	10,716	28,811	38,674				
				1911	4,687	60,399	32,616
1866–1870	12,226	49,113	65,261	1912	4,521	63,767	39,198
1871–1875	8,826	121,083	156,270	1913	4,300	66,802	40,348
1876–1880	10,301	157,681	182,506	1914	4,573	72,455	40,068
1881–1885	7,730	182,841	202,807	1915	4,888	74,961	37,397
1886–1890	8,078	231,819	227,405				
				1916	4,479	74,415	48,953
1891–1895	9,107	287,057	227,960	1917	4,051	71,740	59,078
1896–1900	15,729	279,544	172,689	1918	3,321	67,810	66,485
1901–1905	19,394	278,798	159,543	1919	2,919	56,682	63,534
1906–1910	22,993	277,333	162,916	1920	2,476	55,362	60,802
1911–1915	22,968	338,384	189,626				
				1921	2,422	53,052	[1] 53,052
1916–1920	17,246	326,009	298,852	1922	2,363	56,240	[1] 56,240
1921–1925	12,229	314,190	259,162	1923	2,503	73,335	[1] 60,135
1926–1930	11,259	293,692	159,829	1924	2,529	65,407	43,823
1931–1935	14,102	156,565	77,948	1925	2,412	66,155	45,912
1895	2,255	55,727	36,446	1926	2,335	62,719	39,136
				1927	2,197	60,434	34,266
1896	2,568	58,835	39,655	1928	2,233	58,463	34,201
1897	2,775	53,860	32,316	1929	2,208	61,328	32,688
1898	3,118	54,438	32,118	1930	2,286	50,748	19,538
1899	3,437	54,765	32,859				
1900	3,830	57,647	35,741	1931	2,396	30,932	8,970
				1932	2,449	23,981	6,763
1901	3,806	55,214	33,128	1933	2,556	23,003	8,051
1902	3,870	55,500	29,415	1934	3,091	32,725	[2] 21,156
1903	3,560	54,300	29,322	1935	3,609	45,924	[2] 33,008
1904	3,892	57,683	33,456	1936	4,357	63,812	[2] 49,423
1905	4,266	56,102	34,222	1937	4,805	71,942	[2] 55,647
1906	4,565	56,518	38,256	1938	5,090	62,665	[2] 40,511

State or Territory	Gold, 1,000 fine ounces					Silver, 1,000 fine ounces					Silver, value, 1938 (1,000 dollars)[2]
	1910	1920	1930	1937	1938	1910	1920	1930	1937	1938	
Total	4,657	2,476	2,286	4,805	5,090	57,138	55,362	50,748	71,942	62,665	40,511
Alaska	787	413	407	629	660	154	822	392	657	564	365
Arizona	165	240	149	344	308	2,656	5,432	4,910	9,541	7,483	4,838
California	989	716	450	1,170	1,318	1,792	1,655	1,434	2,795	2,694	1,742
Colorado	993	363	218	370	375	8,523	5,167	4,852	6,286	7,806	5,046
Idaho	50	23	21	33	98	7,027	7,365	9,710	19,556	18,397	11,893
Michigan	------	------	------	(3)	------	262	512	11	19	106	69
Montana	180	92	47	205	188	12,283	13,263	8,597	11,741	6,762	4,371
Nevada	913	175	140	273	280	12,366	7,482	4,179	4,723	4,115	2,660
New Mexico	23	22	32	43	42	779	700	1,100	1,400	1,262	816
Oregon	33	50	14	54	80	44	102	10	75	92	59
South Dakota	260	210	406	576	592	121	88	105	142	158	102
Texas	(3)	(3)	(3)	1	(3)	364	523	469	1,338	1,381	893
Utah	209	103	209	312	215	10,446	11,755	14,451	12,092	10,289	6,651
Washington	39	7	4	33	68	205	178	30	100	311	201
Philippine Islands	7	62	185	692	845	2	22	121	643	976	631
Other	8	(3)	3	12	21	115	296	317	233	269	174

[1] For 1921, 1922, and first half of 1923 price is taken at the figure of $1 per ounce fixed by the Pittman Act.
[2] Valued from 1934 to 1937 at Government's average buying price for domestic product: 1934, $0.64+ per fine ounce; 1935, $0.71875; 1936, $0.7745; 1937, $0.7735; 1938, $0.6464+, the amount per fine ounce returned to depositors of newly mined domestic silver produced in 1938.
[3] Less than 500 ounces.

Source: Treasury Department, Bureau of the Mint, Annual Report of the Director.

No. 770.—Gold and Silver for Use in Manufactures and the Arts

Yearly average or year	Gold in thousands of dollars[1]					Silver in thousands of fine ounce				
	New material			Old material	Grand total	New material			Old material	Grand total
	United States coin	Bullion and foreign coin	Total			United States coin	Bullion and foreign coin	Total		
1880	3,300	5,511	8,811	1,294	10,105	464	2,126	2,590	204	2,794
1881-1885	3,715	6,991	10,706	1,863	12,568	155	3,685	3,840	315	4,155
1886-1890	3,500	8,512	12,012	4,029	16,041	155	4,831	4,986	676	5,662
1891-1895	3,500	7,948	11,448	5,060	16,508	108	6,938	7,046	951	7,997
1896-1900	3,500	9,399	12,899	4,067	16,965	77	8,937	9,014	1,200	10,214
1901-1905	3,500	18,218	21,718	6,778	28,496	77	16,447	16,524	3,002	19,526
1906-1910	3,500	26,941	30,441	7,708	38,149	77	20,807	20,884	3,669	24,553
1911-1915	2,500	28,121	30,621	9,967	40,588	77	23,438	23,516	6,928	30,444
1916-1920	1,000	38,831	39,831	22,033	61,864	77	22,011	22,089	9,126	31,214
1921-1925	1,000	29,321	30,321	29,275	59,596	77	28,538	28,616	8,189	36,805
1926-1930	1,000	23,747	24,747	30,450	55,197	77	28,059	28,137	10,325	38,461
1931-1935	420	[2] *20,521*	[2] *20,101*	41,389	21,288	77	13,200	13,278	20,353	33,631
1930	1,000	14,178	15,178	27,512	42,689	77	26,797	26,874	9,469	36,343
1931	1,000	4,931	5,931	23,227	29,158	77	24,258	24,336	9,346	33,682
1932	1,000	[2] *7,490*	[2] *6,490*	26,595	20,105	77	14,384	14,461	9,797	24,258
1933	100	[2] *6,893*	[2] *5,793*	22,806	17,013	77	10,733	10,811	18,533	29,343
1934	-------	[2] *61,694*	[2] *61,694*	75,927	14,233	77	11,415	11,492	28,186	39,679
1935	-------	[2] *82,461*	[2] *82,461*	58,391	25,929	77	5,212	5,289	35,903	41,192
1936	-------	[2] *2,908*	[2] *2,908*	35,876	32,968	77	19,062	19,139	16,703	35,843
1937	-------	3,214	3,214	36,408	39,622	77	27,650	27,727	23,565	51,292
1938	-------	[2] *824*	[2] *824*	30,481	30,157	77	20,104	20,181	18,439	38,620

[1] Value prior to 1934 calculated on basis of $20.67+ per fine ounce; in 1934 and thereafter, $35.00 per fine ounce. [2] Excess of return from industry over new material issued to industry.

No. 771.—Silver—Prices, London and New York, and Value in the Dollar: 1835 to 1938

Note.—The London price is converted to the basis of the ounce 1,000 fine and converted to American money at par of exchange through 1930; thereafter, at the current rate of exchange. London quotations are in depreciated currency after Sept. 21, 1931, also in some prior year periods, including 1918 to 1924. New York quotations are in depreciated currency after early March 1933. The commercial ratio is computed on the basis of London quotations through 1914; thereafter, on the basis of the New York average price. Beginning with 1934 the monetary value of gold is $35.00 per fine ounce as compared with $20.67 in previous years. The value of fine silver (371¼ grains) in the dollar is computed on the basis of London quotations through 1917; thereafter, on the basis of the New York average price

[All figures, except "Commercial ratio to gold," expressed in dollars]

Calendar year	London, per fine ounce	New York, per fine ounce			Commercial ratio to gold	Value of silver in dollar	Calendar year	London, per fine ounce	New York, per fine ounce			Commercial ratio to gold	Value of silver in dollar
		Average	High	Low					Average	High	Low		
1835	1.308	------	------	------	15.80	------	1912	0.615	0.620	0.656	0.553	33.62	0.475
1840	1.323	------	------	------	15.62	1.023	1913	.605	.612	.651	.580	34.19	.468
1845	1.298	------	------	------	15.92	1.004	1914	.553	.563	.609	.490	37.37	.428
1850	1.316	------	------	------	15.70	1.018	1915	.519	.511	.580	.478	40.48	.401
1855	1.344	------	------	------	15.38	1.039	1916	.686	.672	.791	.573	30.78	.531
1860	1.352	------	------	------	15.29	1.045	1917	.895	.840	1.165	.731	24.61	.692
1865	1.338	------	------	------	15.44	1.035	1918	1.042	.984	1.019	.889	21.00	.761
1870	1.328	------	------	------	15.57	1.027	1919	1.250	1.121	1.383	1.014	18.44	.867
1875	1.242	1.239	1.261	1.210	16.64	.961	1920	1.346	1.019	1.379	.604	20.28	.788
1880	1.145	1.139	1.150	1.113	18.05	.886	1921	.805	.631	.738	.532	32.76	.488
1885	1.065	1.064	1.095	1.028	19.41	.824	1922	.754	.679	.742	.629	30.43	.525
1890	1.046	1.053	1.205	.958	19.75	.809	1923	.700	.652	.690	.629	31.69	.505
1895	.654	.663	.690	.600	31.60	.506	1924	.745	.671	.724	.630	30.80	.519
1897	.604	.608	.661	.528	34.20	.467	1925	.703	.694	.732	.668	29.78	.537
1898	.590	.591	.623	.551	35.03	.456	1926	.629	.624	.689	.518	33.11	.483
1899	.602	.605	.648	.586	34.36	.465	1927	.571	.567	.603	.542	36.47	.438
1900	.620	.621	.658	.598	33.33	.480	1928	.586	.585	.639	.568	35.34	.452
1901	.596	.597	.645	.548	34.68	.461	1929	.536	.533	.578	.468	38.78	.412
1902	.528	.528	.569	.474	39.15	.408	1930	.387	.385	.472	.311	53.74	.298
1903	.543	.542	.624	.475	38.10	.420	1931	.292	.290	.376	.261	71.25	.224
1904	.579	.578	.625	.534	35.70	.448	1932	.281	.282	.313	.246	73.20	.218
1905	.610	.610	.665	.556	33.87	.472	1933	.346	.350	.453	.248	59.06	.271
1906	.677	.674	.724	.631	30.54	.524	1934	.481	.483	.561	.421	72.49	.373
1907	.662	.660	.710	.528	31.24	.512	1935	.639	.646	.813	.501	54.19	.500
1908	.535	.535	.589	.483	38.64	.414	1936	.449	.454	.501	.451	77.09	.351
1909	.520	.522	.545	.508	39.74	.402	1937	.447	.452	.471	.451	77.44	.350
1910	.541	.542	.576	.508	38.22	.418	1938	.430	.435	.451	.431	80.39	.337
1911	.539	.540	.575	.521	38.33	.417							

Source of tables 770 and 771: Treasury Dept., Bureau of the Mint, Annual Report of the Director.

No. 772.—Coke—Production, Exports, and Imports: 1896 to 1938

Yearly average or year	Production in thousands of short tons (2,000 pounds)			By-product ovens, per cent of total	Production (value) in thousands of dollars	Exports	Imports[1]
	Total	Beehive ovens	By-product ovens			Thousand of short tons (2,000 pounds)	
1896–1900	16,265	15,741	524	3.2	30,293	265	54
1901–1905	25,673	23,566	2,107	8.2	58,581	519	150
1906–1910	36,848	31,296	5,552	15.1	91,068	904	159
1911–1915	40,394	29,000	11,394	28.2	103,739	897	98
1916–1920	52,429	27,733	24,696	47.1	320,799	1,182	34
1921–1925	42,985	11,026	31,959	74.4	251,967	734	99
1926–1930	53,724	6,687	47,037	87.6	262,212	1,027	171
1931–1935	29,965	927	29,038	96.9	145,035	716	171
1922	37,124	8,573	28,551	76.9	238,313	512	94
1923	56,978	19,380	37,598	66.0	373,497	1,237	85
1924	44,270	10,286	33,984	76.8	244,042	660	83
1925	51,267	11,355	39,912	77.9	262,559	954	202
1926	56,866	12,489	44,377	78.0	307,773	987	285
1927	51,092	7,207	43,885	85.9	262,321	807	169
1928	52,806	4,493	48,313	91.5	252,834	1,008	148
1929	59,884	6,472	53,412	89.2	278,995	1,238	120
1930	47,972	2,776	45,196	94.2	209,137	1,004	133
1931	33,484	1,128	32,356	96.6	161,609	754	100
1932	21,789	652	21,137	97.0	104,337	630	117
1933	27,589	911	26,678	96.7	122,951	638	161
1934	31,822	1,029	30,793	96.8	159,426	943	161
1935	35,141	917	34,224	97.4	176,853	614	317
1936	46,275	1,706	44,569	96.3	232,374	670	330
1937	52,375	3,165	49,211	94.0	261,004	527	286
1938[2]	32,633	837	31,796	97.4	(3)	487	135

[1] Imports entered for consumption. [2] Preliminary. [3] Not available.

No. 773.—Coke—By-Product and Beehive Production, by States: 1915 to 1938

[Figures in thousands of short tons (2,000 pounds)]

	1915	1920	1925	1930	1934	1935	1936	1937	1938[1]
BY-PRODUCT									
Total	14,073	30,834	39,912	45,196	30,793	34,224	44,569	49,211	31,796
Alabama	2,070	3,124	4,582	3,987	2,109	1,904	3,090	4,260	3,375
Colorado	-------	517	490	379	171	207	337	487	192
Illinois	1,687	2,137	3,012	3,576	1,650	1,669	2,083	2,999	1,738
Indiana	2,768	4,554	5,142	4,984	2,613	3,768	5,450	5,467	2,895
Maryland	313	682	1,019	1,169	785	930	1,217	1,514	1,105
Massachusetts	504	488	535	863	1,128	1,006	1,108	1,131	1,129
Michigan	(2)	1,393	1,751	2,604	2,548	2,482	2,294	2,284	1,752
Minnesota	128	675	518	641	417	430	522	705	540
New Jersey	269	726	904	919	910	917	1,008	1,015	1,002
New York	684	1,040	2,220	3,850	4,090	4,099	4,836	4,947	3,949
Ohio	666	5,615	7,105	6,163	4,296	5,101	6,242	6,738	3,704
Pennsylvania	3,092	7,730	9,853	12,529	6,834	8,078	12,571	13,701	7,125
West Virginia	141	447	1,056	1,479	1,344	1,604	1,703	1,818	1,360
All other States	1,749	1,706	1,725	2,051	1,897	1,939	2,110	2,147	1,930
BEEHIVE									
Total	27,508	20,511	11,355	2,776	1,029	917	1,706	3,165	837
Pennsylvania	22,531	15,908	9,574	2,011	721	564	1,213	2,559	482
Ohio	19	87	156	-------	-------	-------	-------	-------	-------
West Virginia	1,250	1,381	490	422	172	155	231	279	154
Alabama	1,001	890	88	-------	-------	-------	-------	-------	-------
Kentucky	285	273	(2)	-------	-------	-------	-------	-------	-------
Tennessee	234	163	128	25	6	3	4	15	6
Virginia	630	1,028	422	220	78	138	191	240	134
Colorado	671	273	155	79	38	49	61	64	55
Utah	(2)	(2)	146	7	13	6	6	7	8
All other States	887	509	196	12	2	2	(3)	-------	-------

[1] Preliminary. [2] Included under "all other States." [3] Less than 500 tons.

Source of tables 772 and 773: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 774.—Coal—Production, 1821 to 1938, and by States, 1911 to 1938

Note.—Quantities in thousands of short tons (2,000 pounds); values in thousands of dollars. Includes coal consumed at mines. Figures for anthracite relate to Pennsylvania output only; those for bituminous relate to continental United States and Alaska. Bituminous coal includes brown coal and small amounts of anthracite outside Pennsylvania. Comparatively little coal is held in stock at the mines

Year or yearly average	Quantity			Year	Quantity			Value	
	Total	Anthracite	Bituminous		Total	Anthracite	Bituminous	Anthracite	Bituminous
1821–1830	140	66	75	1916	590,098	87,578	502,520	202,010	665,116
1831–1840	1,032	722	310	1917	651,402	99,612	551,791	283,651	1,249,273
1841–1850	4,535	2,697	1,837	1918	678,212	98,826	579,386	336,480	1,491,810
1851–1860	12,513	7,645	4,868	1919 [1]	553,952	88,092	465,860	364,927	1,160,016
1861–1865	20,538	11,142	9,396	1920	658,265	89,598	568,667	434,252	2,129,933
1866–1870	31,706	16,281	15,425	1921 [1]	506,395	90,473	415,922	452,305	1,199,984
1871–1875	52,179	23,407	28,773	1922	476,951	54,683	422,268	273,700	1,274,820
1876–1880	62,261	25,800	36,461	1923	657,904	93,339	564,565	506,787	1,514,621
1881–1885	107,291	36,198	71,093	1924 [1]	571,613	87,927	483,687	477,231	1,062,626
1886–1890	138,398	43,952	94,446	1925 [1]	581,870	61,817	520,053	327,665	1,060,402
1891–1895	178,822	53,405	125,416	1926 [1]	657,804	84,437	573,367	474,164	1,183,417
1896–1900	227,123	55,625	171,498	1927 [1]	597,859	80,096	517,763	420,942	1,029,652
1901–1905	339,357	66,854	272,503	1928 [1]	576,093	75,348	500,745	393,638	933,774
1906–1910	454,555	81,142	373,413	1929 [1]	608,817	73,828	534,989	385,643	952,781
1911–1915	529,189	89,233	439,956	1930 [1]	536,911	69,385	467,526	354,574	795,483
1916–1920	626,386	92,741	533,645	1931 [1]	441,735	59,646	382,089	296,355	588,895
1921–1925	558,947	77,648	481,299	1932 [1]	359,565	49,855	309,710	222,375	400,677
1926–1930 [1]	595,497	76,619	518,878	1933 [1]	383,172	49,541	333,631	206,718	445,788
1931–1935 [1]	405,108	53,674	351,434	1934 [1]	416,536	57,168	359,368	244,152	628,383
1912	534,467	84,362	450,105	1935 [1]	424,532	52,159	372,373	210,131	658,063
1913	569,960	91,525	478,435	1936 [1]	493,668	54,580	[2] 439,088	227,004	770,955
1914	513,525	90,822	422,704	1937 [1]	497,387	51,856	[2] 445,531	197,599	[3] 864,042
1915	531,619	88,995	442,624	1938 [1] [4]	390,729	46,099	[2] 344,630	180,600	[3] 655,000

State	1911–1915	1916–1920	1921–1925	1926–1930 [1]	1931–1935 [1]	1935 [1]	1936 [1]	1937 [1]	1938 [1] [4]
Total quantity	**529,189**	**626,386**	**558,947**	**595,497**	**405,108**	**424,532**	**493,668**	**497,387**	**390,729**
Anthracite (Pa.)	89,233	92,741	77,648	76,619	53,674	52,159	54,580	51,856	46,099
Bituminous	439,956	533,645	481,299	518,878	351,434	372,373	[2] 439,088	[2] 445,531	[2] 344,630
Alabama	15,864	17,834	18,097	18,380	9,252	8,505	12,229	12,440	10,950
Arkansas	1,986	1,980	1,261	1,579	1,012	1,133	1,623	1,511	1,192
Colorado	9,433	11,595	10,049	9,665	5,711	5,911	6,812	7,187	5,676
Illinois	58,320	78,255	68,523	57,310	40,198	44,525	50,927	51,602	40,650
Indiana	16,060	25,515	21,677	18,467	14,386	15,754	17,822	17,765	14,050
Iowa	7,442	7,571	4,952	3,879	3,492	3,650	3,961	3,637	3,250
Kansas	6,811	6,556	3,927	3,215	2,270	2,686	2,944	2,893	2,560
Kentucky	18,380	30,108	43,743	61,116	38,130	40,761	47,522	47,086	38,496
Maryland	4,549	4,158	2,033	2,700	1,654	1,678	1,704	1,549	1,306
Michigan	1,271	1,301	976	705	492	628	626	562	478
Missouri	4,048	5,086	3,011	3,538	3,624	3,646	3,985	4,091	3,412
Montana	2,972	4,008	2,881	3,139	2,396	2,759	2,988	2,965	2,804
New Mexico	3,618	3,728	2,772	2,612	1,338	1,389	1,597	1,715	1,252
North Dakota	506	787	1,221	1,622	1,750	1,956	2,215	2,251	2,047
Ohio	28,553	40,609	31,590	21,111	19,151	21,153	24,110	25,178	17,920
Oklahoma	3,720	4,292	2,741	3,346	1,368	1,229	1,540	1,600	1,269
Pennsylvania	157,229	168,532	133,721	137,038	86,592	91,405	109,887	111,002	77,040
Tennessee	6,288	6,208	5,078	5,544	4,062	4,138	5,108	5,213	4,373
Texas	2,201	1,980	1,084	1,107	738	758	843	910	892
Utah	2,999	4,693	4,593	4,683	2,846	2,947	3,247	3,810	2,908
Virginia	7,924	10,158	10,648	12,521	8,923	9,667	11,662	13,795	12,192
Washington	3,261	3,576	2,626	2,513	1,555	1,559	1,812	2,002	1,565
West Virginia	69,353	86,369	97,044	136,315	95,748	99,179	117,926	118,646	92,922
Wyoming	6,907	8,555	6,812	6,526	4,545	5,177	5,781	5,918	5,200
Other States and Alaska	259	190	239	246	201	180	217	203	226

[1] Exclusive of product of wagon mines. [2] According to National Bituminous Coal Division.
[3] Estimated from various sources; includes selling expenses.
[4] Preliminary.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 775.—Coal—Exports, Imports, and Bunker Coal Laden on Vessels in Foreign Trade: 1891 to 1938

[Quantities in thousands of long tons (2,240 pounds); values in thousands of dollars]

Yearly average or year	Total exports [1]		Anthracite exports		Bituminous exports [1]		Total imports [2]		Bunker coal	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1891–1895 [3]	3,028	10,012	1,128	4,929	1,900	5,081	1,237	3,984	--------	--------
1896–1900 [3]	4,710	13,300	1,469	6,268	3,241	7,032	1,403	3,831	--------	--------
1901–1905 [3]	7,750	24,254	1,846	8,782	5,903	15,472	2,287	6,376	--------	--------
1906–1910 [4]	12,018	36,805	2,646	13,034	9,372	23,770	1,727	4,530	[5] 5,638	[5] 18,291
1911–1915	19,132	58,362	3,753	19,624	15,379	38,738	1,437	4,069	7,289	23,890
1916–1920	27,160	151,356	4,647	32,960	22,513	118,396	1,258	5,788	7,389	43,975
1920	39,215	349,811	4,825	45,538	34,390	304,273	1,140	6,992	9,362	82,462
1921	24,829	168,222	4,176	45,625	20,653	122,597	1,131	7,457	7,548	52,278
1922	13,449	91,242	2,366	25,351	11,083	65,892	4,727	28,250	4,120	27,913
1923	23,700	154,124	4,545	49,577	19,155	104,547	1,949	12,249	4,547	31,470
1924	18,855	111,039	3,587	40,068	15,268	70,971	478	3,019	3,983	22,883
1925	18,429	100,163	2,838	31,761	15,591	68,403	879	5,846	4,344	23,398
1926	35,091	196,905	3,598	41,086	31,493	155,819	1,202	9,301	6,907	38,025
1927	19,051	104,257	2,969	32,928	16,082	71,329	597	3,284	4,076	22,077
1928	17,411	92,121	2,979	32,657	14,433	59,464	831	4,989	3,834	20,258
1929	18,603	98,310	3,041	32,569	15,562	65,742	877	5,486	3,827	19,575
1930	16,455	83,694	2,278	24,509	14,176	59,186	818	5,525	3,122	15,697
1931	12,415	60,457	1,588	17,062	10,827	43,395	755	5,160	1,960	9,639
1932	9,033	41,752	1,164	12,064	7,870	29,688	709	4,420	1,204	5,534
1933	8,992	37,611	924	9,040	8,069	28,572	[6] 584	[6] 3,432	1,175	5,241
1934	10,863	51,404	1,159	11,082	9,704	40,382	[6] 593	[6] 4,190	1,179	5,798
1935	10,135	48,424	1,436	13,186	8,699	35,238	[6] 690	[6] 4,276	1,407	7,338
1936	11,012	52,381	1,498	13,775	9,513	38,606	[6] 791	[6] 4,570	1,448	7,463
1937	13,445	63,617	1,709	14,796	11,736	48,821	[6] 584	[6] 2,946	1,635	8,840
1938	11,071	52,739	1,704	14,635	9,366	38,105	[6] 539	[6] 3,267	1,208	6,557

[1] Does not include fuel or bunker coal laden on vessels engaged in the foreign trade.
[2] Including lignite, slack, and culm. [3] Fiscal years ended June 30.
[4] Average for period July 1, 1905, to Dec. 31, 1910.
[5] Figures do not include coal laden on vessels on the Great Lakes in 1906, 1907, and 1908.
[6] Imports for consumption; general imports prior to 1933.

No. 776.—Coal—Shipments, Value, and Employment in Mines: 1890 to 1938

Calendar year	Thousand tons (2,000 pounds)				Average value per ton at mines (1)	Average number of men employed	Average number of days worked	Average tonnage per man—		Per cent mined by machine	Capacity of mines [2] (million tons [3])
	Loaded for shipment	Sold locally	Used by mines	Made into coke at mines				Per day	Per year		
ANTHRACITE											
1890	41,011	2,001	3,457	--------	$1.43	126,000	200	1.85	369	(4)	71
1895	52,093	1,315	4,591	--------	1.41	142,917	196	2.07	406	(4)	90
1900	50,710	1,208	5,550	--------	1.49	144,206	166	2.40	398	(4)	105
1905	69,053	1,571	7,036	--------	1.83	165,406	215	2.18	470	(4)	110
1910	73,623	2,021	8,841	--------	1.90	169,497	229	2.17	498	(4)	112
1915	76,906	2,092	9,997	--------	2.07	176,552	230	2.19	504	1.5	118
1920	76,844	2,897	9,858	--------	4.85	145,074	271	2.28	618	1.1	101
1925	53,768	2,885	5,164	--------	5.30	160,312	182	2.12	386	1.6	103
1930	61,202	3,144	5,038	--------	5.11	150,804	208	2.21	460	2.0	90
1935	46,538	2,875	2,746	--------	4.03	103,269	189	2.68	505	3.5	84
1936	48,648	3,227	2,705	--------	4.16	102,081	192	2.79	535	4.0	87
1937	46,203	2,981	2,672	--------	3.81	99,085	189	2.77	523	3.8	83
1938	40,764	2,722	2,313	--------	3.92	[5] 97,000	(4)	(4)	(4)	3.4	(4)
BITUMINOUS											
1890	87,373	7,008	1,607	15,332	.99	192,204	226	2.56	579	[6] 5.3	151
1895	106,287	8,340	2,086	18,404	.86	239,962	194	2.90	563	[7] 11.9	216
1900	173,072	7,868	3,740	27,635	1.04	304,375	234	2.98	697	24.9	281
1905	255,201	10,639	7,007	42,412	1.06	460,629	211	3.24	684	32.8	459
1910	342,969	12,287	9,668	52,187	1.12	555,533	217	3.46	751	41.7	592
1915	379,877	12,354	9,799	40,595	1.13	557,456	203	3.91	794	55.0	671
1920	504,873	21,289	11,896	30,608	3.75	639,547	220	4.00	881	59.8	798
1925	477,173	21,351	5,776	15,753	2.04	588,493	195	4.52	884	70.6	823
1930	437,399	22,121	3,993	4,014	1.70	493,202	187	5.06	948	77.5	770
1935	338,069	29,734	3,103	1,468	1.77	462,403	179	4.50	805	78.8	640
1936	395,631	37,501	3,227	2,729	1.83	477,204	199	4.62	920	79.3	680
1937	399,238	37,763	3,052	4,884	1.94	491,864	193	4.69	906	(4)	710

[1] Figures for bituminous coal represent average value per ton less selling expense (Bur. of Mines series) prior to 1936; thereafter, average gross realization including selling expense (Coal Commission series).
[2] Calculated at 303.5 working days in the anthracite field and 308 working days in the bituminous field.
[3] Of 2,000 pounds. [4] Not available. [5] Estimate by Pa. Dept. Mines. [6] 1891. [7] 1896.

Sources: Table 775, Dept. of Commerce, Bur. of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation of the U. S. Also published currently in Monthly Summary of Foreign Commerce of the U. S. Table 776, Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 777.—Bituminous Coal—Consumption, by Class of Consumer: 1889 to 1938

	1889	1899	1909	1919	1929	1935	1936	1937	1938 [1]
Consumption (million tons of 2,000 lbs.), total	95.8	190.3	370.3	481.7	519.6	360.3	422.8	428.5	340.7
Colliery fuel	1.4	3.1	9.5	11.1	4.7	3.1	3.2	3.1	2.4
Locomotive fuel, all steam roads	26.5	53.4	106.0	[2] 119.7	[2] 113.9	[2] 71.3	[2] 81.1	[2] 82.7	[2] 69.7
Bunkers, vessels in foreign trade	1.9	3.8	6.8	8.2	4.3	1.6	1.6	1.8	1.4
Coke ovens, beehive and by-product	16.0	30.2	59.4	65.6	86.8	50.5	65.9	74.5	46.4
Electric public utilities [3]	(4)	7.6	18.7	35.1	44.9	34.8	42.0	44.8	40.2
All other uses [5]	50.0	92.2	169.9	242.0	265.0	199.0	228.9	221.7	180.8
Per cent of total consumption	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Colliery fuel	1.5	1.6	2.6	2.3	.9	.9	.8	.7	.7
Locomotive fuel, all steam roads	27.7	28.1	28.6	[2] 24.9	[2] 21.9	[2] 19.8	[2] 19.2	[2] 19.3	[2] 20.5
Bunkers, vessels in foreign trade	2.0	2.0	1.9	1.7	.8	.4	.4	.4	.4
Coke ovens, beehive and by-product	16.7	15.9	16.0	13.6	16.7	14.0	15.6	17.4	13.6
Electric public utilities	(4)	4.0	5.0	7.3	8.6	9.7	9.9	10.4	11.8
All other uses	52.1	48.4	45.9	50.2	51.0	55.2	54.1	51.7	53.1

[1] Preliminary. [2] Class I roads.
[3] Includes electric central stations and street railways and certain minor plants. Figures include a small amount of anthracite consumed. [4] Not available.
[5] Obtained by subtracting known items from total consumption. Includes general manufacturing, domestic, and miscellaneous uses.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook (data were assembled from various original sources).

No. 778.—Strikes in Anthracite and Bituminous Coal Mining Industries, by Major Issues Involved: 1927 to 1938

Note.—Strikes involving fewer than 6 workers or lasting less than 1 day are not included. Figures are for strikes beginning in years shown. For combined statistics covering strikes in all industries, see table 385

Coal-mining industry and year	Number of strikes				Number of workers involved				Number of man-days idle			
	Total	Major issues			Total	Major issues			Total	Major issues		
		Wages and hours	Union organization	Miscellaneous		Wages and hours	Union organization	Miscellaneous		Wages and hours	Union organization	Miscellaneous
Anthracite:												
1927	32	7	12	13	26,052	3,856	10,162	12,034	157,857	35,645	40,210	82,002
1928	41	4	10	27	78,424	4,059	12,581	61,784	573,404	18,426	93,039	461,939
1929	32	2	8	22	57,276	1,022	8,757	47,497	239,206	3,685	14,685	220,836
1930	18	1	8	9	20,036	1,580	6,848	11,608	117,338	3,160	29,505	84,673
1931	14	4	4	6	61,416	21,675	2,151	37,590	655,203	250,633	17,610	386,960
1932	18	6	2	10	19,592	16,105	333	3,154	167,036	125,175	9,570	32,291
1933	27	9	2	16	96,297	8,559	3,300	84,438	1,012,787	103,026	42,100	867,661
1934	38	10	1	27	105,296	11,130	313	93,853	948,767	136,009	939	811,819
1935	33	7	1	25	50,191	9,517	1,100	39,574	788,724	75,604	41,800	671,320
1936	26	5	6	15	23,073	3,596	13,005	6,472	264,545	43,043	153,083	68,419
1937	32	13	1	18	59,600	24,902	480	34,218	606,656	144,548	15,360	446,748
1938	17	4	3	10	26,416	2,316	5,325	18,775	357,854	35,191	181,577	141,086
Bituminous:												
1927	22	5	10	7	176,022	169,857	4,310	1,855	23,024,211	22,970,872	36,254	17,085
1928	30	10	2	18	63,279	51,154	459	11,666	5,940,992	5,862,745	997	77,250
1929	58	34	11	13	18,093	12,594	2,253	3,246	181,631	138,010	21,296	22,325
1930	52	32	7	13	26,841	14,786	7,189	4,866	882,599	414,044	385,826	82,729
1931	57	27	18	12	52,392	7,944	37,105	7,343	1,542,506	98,546	1,288,066	155,894
1932	43	25	7	11	63,619	52,123	8,792	2,704	5,913,886	5,007,375	873,252	33,259
1933	102	38	30	34	142,242	17,488	111,413	13,341	2,211,375	472,521	1,644,661	94,193
1934	78	21	23	34	109,827	46,309	43,741	19,777	1,562,358	981,282	473,735	107,341
1935	42	10	12	20	420,574	403,790	3,174	13,610	2,971,449	2,860,358	24,178	86,913
1936	38	5	9	24	19,648	1,378	2,934	15,336	533,314	356,058	43,431	133,825
1937	54	11	21	22	99,253	45,913	27,878	25,462	1,924,951	1,048,642	400,759	475,550
1938	27	6	10	11	9,505	2,196	2,324	4,985	132,855	8,422	24,151	100,282

Source: Department of Labor, Bureau of Labor Statistics; Bulletin No. 651, Strikes in the United States, 1880–1936; annual report, Analysis of Strikes; and official records. Figures are published currently in part in Monthly Labor Review.

No. 779.—Coal for Household Use—Retail Prices, by Cities: 1929 to 1939

Note.—Prices (in dollars) of coal per ton of 2,000 pounds unless otherwise specified. Bituminous prices represent Eastern, except those in italics, which are Western

City	Pa. anthracite, chestnut					Bituminous, high volatile, egg				
	1929	1932	1936	1937	1938	1937		1938		1939, June 15
	December 15					June 15	Dec. 15	June 15	Dec. 15	
New England:										
Boston, Mass.	15.50	13.50	13.00	12.72	13.35	[1] 9.18	[1] 9.19	[1] 9.19	[1] 9.14	[1] 9.20
Bridgeport, Conn.	15.50	12.88	12.50	12.10	12.10	------	------	------	------	------
Fall River, Mass.	16.25	14.25	13.50	13.75	13.50	[1] 8.75	[1] 8.80	[1] 8.75	[1] 9.00	[1] 9.00
Manchester, N. H.	17.00	14.83	14.50	14.19	14.50	[1] 10.08	[1] 10.50	[1] 10.50	[1] 10.50	[1] 10.50
New Haven, Conn.	15.25	14.00	13.35	13.00	13.00	------	------	------	------	------
Portland, Maine	16.80	15.60	14.00	13.25	12.50	[1] 8.50	[1] 8.50	[1] 6.70	[1] 6.63	[1] 6.67
Providence, R. I.	16.00	14.50	14.31	13.38	13.78	[1] 8.38	[1] 8.38	[1] 7.85	[1] 7.92	[1] 7.76
Middle Atlantic:										
Buffalo, N. Y.	13.32	12.21	12.50	11.95	11.85	(2)	[1] 6.10	[1] 6.25	[1] 6.38	[1] 6.20
Newark, N. J.	13.46	12.00	11.75	11.25	11.25	------	------	------	------	------
New York, N. Y.[3]	14.08	12.29	11.83	11.01	11.25	[1] 7.26	[1] 7.43	[1] 7.47	[1] 7.44	[1] 7.34
Philadelphia, Pa.	[4] 14.50	11.50	10.71	10.11	[5] 10.55	------	------	------	------	------
Pittsburgh, Pa.[6]	15.00	13.00	12.88	12.69	12.75	4.48	4.66	4.04	4.36	4.41
Rochester, N. Y.	14.25	13.13	12.11	11.93	11.91	------	------	------	------	------
Scranton, Pa.	9.92	9.00	8.28	7.88	7.81	------	------	------	------	------
East North Central:										
Chicago, Ill.[3 6]	16.40	15.50	15.00	15.05	15.24	9.36	9.72	9.10	9.47	8.42
Cincinnati, Ohio [5]	------	------	------	------	------	5.97	6.55	5.68	6.12	5.40
Cleveland, Ohio [3]	14.80	13.44	13.65	13.69	13.61	7.15	7.04	7.18	7.25	7.13
Columbus, Ohio [5]	------	------	------	------	------	5.75	6.06	5.94	6.04	6.06
Detroit, Mich.[3]	15.50	13.17	12.40	12.36	12.28	6.95	6.86	6.87	6.84	6.72
Indianapolis, Ind.	------	------	------	------	------	6.63	6.93	6.65	6.93	6.61
Milwaukee, Wis.	15.85	14.80	14.00	13.95	13.55	8.43	8.78	8.16	8.16	8.30
Peoria, Ill.[5 6]	------	------	------	------	------	*4.51*	*4.72*	*4.46*	*4.06*	*3.99*
Springfield, Ill.[5 6]	------	------	------	------	------	*3.75*	*5.00*	*4.99*	*4.99*	*4.69*
West North Central:										
Kansas City, Mo.[3]	[7] 12.55	[7] 10.63	[7] 10.10	[7] 10.83	[7] 9.97	[8] *6.09*	[8] *6.25*	[8] *6.25*	[8] *6.05*	[8] *6.07*
Minneapolis, Minn.	17.85	17.10	15.90	15.50	15.75	*10.07*	*9.81*	*9.55*	*9.86*	*9.59*
Omaha, Nebr.	------	------	------	[7] 12.58	[7] 11.95	*8.50*	*9.14*	*8.54*	*8.68*	*8.50*
St. Louis, Mo.[3 5]	16.45	15.22	14.39	14.66	14.28	*5.66*	*5.75*	*5.31*	*5.79*	*5.23*
St. Paul, Minn.	17.85	17.10	15.90	15.47	15.75	*10.06*	*9.63*	*9.53*	*9.88*	*9.58*
South Atlantic:										
Atlanta, Ga.	------	------	------	------	------	6.25	7.50	6.18	7.54	6.25
Baltimore, Md.	13.75	12.75	11.25	10.20	10.83	7.19	7.04	7.00	7.06	7.13
Charleston, S. C.	------	------	------	------	------	9.00	9.00	9.50	9.50	9.50
Jacksonville, Fla.	------	------	------	------	------	[8] 10.00	[8] 11.00	[8] 11.00	[8] 12.00	[8] 11.00
Norfolk, Va.	14.00	13.00	13.50	13.00	13.00	7.50	7.50	7.50	7.50	7.50
Richmond, Va.	15.00	13.50	13.50	12.67	12.92	7.36	7.82	7.53	8.13	7.68
Savannah, Ga.[9]	------	------	------	------	------	8.83	9.83	9.38	9.17	9.05
Washington, D. C.[4]	15.23	14.15	13.00	12.79	13.09	8.25	8.74	8.22	8.40	8.25
East South Central:										
Birmingham, Ala.[5]	------	------	------	------	------	6.29	6.65	5.91	6.91	5.50
Louisville, Ky.	------	------	------	------	------	5.72	5.81	5.59	5.69	5.59
Memphis, Tenn.	------	------	------	------	------	8.25	8.08	7.88	7.88	7.88
Mobile, Ala.	------	------	------	------	------	8.82	9.69	8.58	(2)	(2)
West South Central:										
Dallas, Tex.	[7] 15.50	[7] 14.00	[7] 13.25	[7] 12.83	[7] 12.83	[8] *10.25*	[8] *10.63*	[8] *10.63*	[8] *10.50*	[8] *10.38*
Houston, Tex.	------	[7] 14.67	[7] 14.33	[7] 15.00	[7] 14.50	[8] *11.00*	[8] *11.88*	[8] *10.63*	[8] *11.50*	[8] *11.25*
Little Rock, Ark.[3]	[7] 13.50	[7] 10.75	[7] 9.00	[7] 9.69	[7] 8.67	(2)	[10] 8.71	[10] 8.80	[10] 8.55	[10] 8.51
New Orleans, La.[5]	------	------	------	[7] 15.60	[7] 15.13	11.40	11.15	9.53	10.71	9.69
Mountain:										
Butte, Mont.[6]	------	------	------	------	------	*10.75*	*11.00*	(2)	*11.13*	*11.25*
Denver, Colo.[3]	[11] 14.75	[11] 14.50	[11] 15.81	[12] 15.81	[12] 15.81	*7.81*	*7.87*	*8.10*	*7.86*	*7.60*
Salt Lake City, Utah [5]	------	------	------	------	------	[8] *7.64*	[8] *7.62*	[8] *7.61*	[8] *7.52*	[8] *7.59*
Pacific:										
Los Angeles, Calif.[5]	------	------	------	------	------	[8] *16.59*	[8] *16.90*	[8] *16.59*	[8] *16.90*	[8] *16.57*
Portland, Oreg.	------	------	------	------	------	[8] *13.29*	[8] *13.80*	[8] *13.80*	[8] *13.18*	[8] *13.17*
San Francisco, Calif.[3]	[13] 26.00	[13] 25.00	[13] 23.69	[13] 23.95	[13] 23.69	[8] *16.74*	[8] *17.51*	[8] *17.51*	[8] *17.51*	[8] *17.51*
Seattle, Wash.[5 6]	------	------	------	------	------	*10.65*	*11.37*	*11.17*	*11.34*	*11.20*

[1] Run of mine, low volatile. [2] Insufficient data. [3] Prices include sales tax beginning 1936.
[4] Price is per ton of 2,240 pounds. [5] Price includes sales tax.
[6] Increases of approximately 10 to 30 cents per ton resulted from exclusion of reduced prices for deliveries of lots of 2 or more tons in computation of average prices for certain cities for December 1936. This accounts for differences between 1936 prices as given in this table and those given in table 749 of the 1937 Statistical Abstract. Beginning 1936, prices are on basis of 1 ton deliveries; for earlier years, on averages of 1 or more. [7] Arkansas, egg or furnace. [8] Lump.
[9] Price includes municipal weighing charge of 10 cents per ton. [10] Lump, low volatile.
[11] Colorado, furnace, 1 and 2 mixed. [12] Colorado, egg. [13] New Mexico, egg.

Source: Dept. of Labor, Bur. of Labor Statistics; published in Retail Prices for January 1939 and special releases.

No. 780.—Coal—Average Retail Prices and Indexes for Large Cities Combined: 1930 to 1939

Year and month	Average price per ton of 2,000 pounds			Index (October 1922-September 1925=100)		
	Bituminous (unweighted average, 38 cities)	Pennsylvania anthracite (weighted average, 25 cities)		Bituminous (unweighted average, 38 cities)	Pennsylvania anthracite (weighted average, 25 cities)	
		Stove	Chestnut		Stove	Chestnut
1930	$8.83	$14.03	$13.66	91.3	99.7	97.3
1931	8.33	13.68	13.65	86.2	97.1	97.3
1932	7.71	12.55	12.45	79.7	89.2	88.7
1933	7.65	12.12	11.93	79.1	86.2	85.0
1934	8.26	12.18	11.92	85.4	86.6	85.0
1935	8.29	11.38	11.14	85.7	80.9	79.4
1936	8.42	11.74	11.60	87.1	83.5	82.7
1937	8.58	11.05	11.19	88.4	78.5	79.6
1938 [1]	8.61	10.96	11.11	88.7	77.9	79.1
1937						
June	8.39	10.49	10.66	86.4	74.5	75.9
December	8.72	11.13	11.28	90.1	79.1	80.3
1938						
June	8.38	10.52	10.63	86.4	74.8	75.7
December	8.68	11.37	11.49	89.3	80.8	81.8
1939						
March	8.68	11.28	11.35	89.4	80.2	80.8
June [1]	8.28	10.47	10.55	85.2	74.4	75.1

[1] Preliminary.

No. 781.—Natural Gas and Natural Gasoline—Production, 1906 to 1938, and by States, 1925 to 1938

NOTE.—**Quantities of gas in millions of cubic feet, of gasoline in thousands of gallons; values in thousands of dollars.** Production figures for gas refer only to that marketed, in addition to which considerable quantities are used by producers, and large quantities are wasted or lost. Values given are at the point of consumption. Consumption figures by States differ greatly from production figures by reason of interstate transportation

Yearly average or year	Natural gas produced and marketed		Natural gasoline			Year	Natural gas produced and marketed		Natural gasoline		
	Quantity	Value	Gas treated	Production	Value		Quantity	Value	Gas treated	Production	Value
1906-1910	437,057	57,940				1930	1,943,421	416,090	2,088,778	2,210,494	128,160
1911-1915	575,708	88,492	11,602	30,317	2,481	1931	1,686,436	392,816	1,790,119	1,831,918	63,732
1916-1920	762,681	154,590	412,787	268,038	48,174	1932	1,556,900	384,632	1,499,756	1,523,800	49,244
1921-1925	947,419	229,002	820,445	762,151	82,205	1933	1,555,474	368,540	1,551,464	1,420,000	54,368
1926-1930	1,637,540	362,238	1,613,811	1,852,490	136,123	1934	1,770,721	395,378	1,776,172	1,535,360	60,523
1931-1935	1,697,043	394,148	1,687,902	1,592,613	59,761	1935	1,916,595	420,374	1,822,000	1,651,936	70,940
1927	1,445,428	317,930	1,341,248	1,641,144	118,688	1936	2,167,802	476,813	1,815,000	1,796,340	84,572
1928	1,568,139	363,726	1,473,434	1,814,034	138,944	1937	2,407,620	528,354	2,108,800	2,065,434	97,125
1929	1,917,693	413,276	1,959,294	2,233,688	158,410	1938 [1]	2,263,000	500,870	2,115,000	2,113,314	78,195

State	Natural gas produced and marketed					Natural gas consumed	Natural gasoline produced		
	1925	1930	1935	1936	1937	1937	1936	1937	1938 [1]
Total [2]	1,188,571	1,943,421	1,916,595	2,167,802	2,407,620	2,403,041	1,796,340	2,065,434	2,113,314
Arkansas	41,878	18,585	6,167	8,500	9,690	35,074	11,957	11,285	24,235
California	187,789	334,789	284,109	320,406	329,769	329,769	593,416	623,894	663,992
Illinois	4,165	2,890	1,448	865	1,040	78,650	2,337	2,567	2,455
Kansas	26,917	37,630	57,125	69,178	83,890	96,822	37,775	57,026	54,133
Kentucky	10,770	28,023	39,738	43,903	55,719	18,154	6,009	7,344	6,997
Louisiana	152,620	278,341	249,450	290,151	315,301	174,153	72,687	106,415	86,693
Montana	1,496	10,060	19,870	23,003	24,765	[3] 21,594	2,071	2,296	1,767
New Mexico	([4])	9,497	27,931	[5] 33,928	[5] 46,337	28,056	28,921	38,253	47,453
New York	[6] 6,210	[6] 9,624	[6] 8,288	[6] 12,431	[6] 21,325	50,080	22	33	28
Ohio	43,235	63,394	49,592	46,994	42,783	125,133	6,991	7,704	7,379
Oklahoma	249,285	348,116	274,313	280,481	296,260	269,604	418,591	492,290	498,460
Pennsylvania	101,632	88,706	[7] 94,464	[7] 110,362	[7] 115,928	119,501	14,267	13,940	10,685
Texas	[8] 134,872	[8] 517,880	[8] 642,366	[8] 734,561	[8] 854,561	706,120	520,547	615,281	655,835
W. Virginia	180,345	144,180	115,772	138,076	149,084	65,395	44,389	50,379	49,533
Wyoming	45,539	43,219	26,643	29,322	31,023	21,648	33,894	[9] 33,915	29,989

[1] Preliminary. [2] Includes States not shown separately.
[3] Includes 289,000,000 cubic feet piped from Canada. [4] Separate data not available.
[5] Includes 594,000,000 cubic feet piped to Mexico in 1936 and 867,000,000 in 1937.
[6] Includes 68,000,000 cubic feet piped to Canada in 1925, 107,000,000 in 1930, 29,000,000 in 1935, 30,000,000 in 1936, and 29,000,000 in 1937.
[7] Includes 44,000,000 cubic feet piped to Canada in 1935, 54,000,000 in 1936, and 49,000,000 in 1937.
[8] Includes 64,000,000 cubic feet piped to Mexico in 1925, 1,691,000,000 in 1930, 6,727,000,000 in 1935, 6,758,000,000 in 1936, and 3,923,000,000 in 1937. [9] Includes Utah.

Sources: Table 780, Dept. of Labor, Bur. of Labor Statistics; published quarterly in Retail Prices. Table 781, Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 782.—Manufactured-Gas Industry—Fuel Consumed, by Kind and by Use: 1931 to 1938

Note.—Coal and coke in thousands of tons of 2,000 pounds; oil in thousands of gallons. Companies formerly distributing manufactured gas but which were distributing natural gas at the beginning of 1938 have been excluded from the figures for all years. The figures do not include fuels used in production of coke oven gas which is purchased by gas companies from coke and steel companies for public distribution

	1931	1932	1933	1934	1935	1936	1937	1938
By kind:								
Anthracite [1]	135	115	132	185	125	144	178	181
Bituminous coal	8,823	7,517	7,344	7,909	7,508	7,578	7,352	6,715
Coke purchased	904	789	670	781	746	720	662	729
Coke made in plant [2]	1,864	1,450	1,331	1,282	1,338	1,338	1,347	1,255
Coke breeze	492	500	487	490	502	466	399	368
Oil [3]	621,919	548,914	497,272	492,410	475,930	515,016	525,817	[3] 585,762
Coal and coke, by use:								
Generator fuels [2]	2,409	1,934	1,631	1,709	1,655	1,723	1,718	1,707
Boiler fuels [1]	1,084	903	857	912	892	899	907	813
Bituminous coal carbonized	7,783	6,782	6,711	7,214	6,876	6,895	6,603	6,060
Bench and producer fuels	942	752	755	812	796	729	710	668

[1] Includes screenings. [2] Includes fuel used in production of reformed oil refinery gas.
[3] Oil used. For 1938, for carburetting water gas, 502,779,000 gallons; for making oil gas, 48,536,000 gallons; for boiler fuel, 34,447,000 gallons.

No. 783.—Manufactured-Gas and Natural-Gas Industries—Summary: 1931 to 1938

Note.—Population served and number of customers in thousands, gas produced, purchased, and sold in millions of cubic feet; revenue in thousands of dollars. Companies formerly distributing manufactured gas but which were distributing natural gas at the beginning of 1938 have been excluded from the figures for manufactured gas and included with those for natural gas for all years shown in this table. Companies selling mixed manufactured and natural gas are included with data for manufactured gas. Figures for natural gas do not include natural gas used in field operations or in the manufacture of carbon black, or gas used by distributing companies in the conduct of their gas operations

	1931	1932	1933	1934	1935	1936	1937	1938
MANUFACTURED-GAS INDUSTRY								
Population served, Dec. 31	46,628	46,520	47,009	47,261	47,263	47,396	47,847	48,086
Miles of main, Dec. 31	87,300	87,300	88,500	88,700	89,800	90,100	90,800	90,900
Employees, Dec. 31	68,600	62,800	66,300	68,400	67,900	69,600	69,400	67,600
Total gas produced and purchased	383,340	356,556	342,558	360,214	364,185	374,375	377,445	372,014
Gas produced	279,852	247,362	230,970	237,207	234,438	238,549	236,442	232,384
Gas purchased	103,488	109,194	111,588	123,007	129,747	135,826	141,003	139,630
Total number of customers, Dec. 31 [1]	9,654	9,205	9,160	9,330	9,466	9,648	9,889	9,941
Domestic	9,138	8,730	8,664	8,792	8,910	9,012	9,220	9,248
House heating	57	59	79	115	131	171	202	227
Industrial and commercial	453	407	408	414	416	456	458	457
Total gas sales to consumers [1]	357,153	327,901	311,431	323,022	328,828	340,150	348,655	348,644
Domestic	252,018	239,459	222,176	215,608	205,710	197,240	194,350	197,052
House heating	19,101	18,955	20,013	28,155	34,997	41,146	45,525	47,918
Industrial and commercial	84,009	67,248	67,252	77,207	85,994	99,572	106,656	101,430
Total revenue from consumers [1]	402,667	381,711	352,711	354,623	351,191	355,083	357,530	360,494
Domestic	310,091	301,785	277,726	272,645	263,811	257,287	255,075	258,357
House heating	15,368	14,587	14,089	18,811	22,601	26,144	28,472	31,030
Industrial and commercial	75,642	63,743	59,386	61,701	63,286	70,141	72,507	69,573
NATURAL-GAS INDUSTRY								
Population served, Dec. 31	-------	-------	-------	-------	-------	-------	33,127	33,785
Miles of main, Dec. 31	-------	-------	-------	-------	-------	-------	183,420	186,850
Employees, Dec. 31	-------	-------	-------	-------	-------	-------	66,260	63,990
Total number of customers, Dec. 31	6,223	6,128	6,177	6,391	6,605	6,817	7,066	7,231
Domestic [2]	5,777	5,671	5,716	5,911	6,104	6,292	6,521	6,665
Commercial	419	430	433	447	468	488	505	524
Industrial [3]	27	27	28	33	33	37	40	42
Total gas sales to consumers	908,270	834,010	862,388	976,141	1,053,806	1,215,930	1,314,907	1,213,352
Domestic [2]	340,591	320,641	300,286	303,321	320,733	339,893	359,890	352,964
Commercial	68,783	77,100	73,781	79,153	88,115	96,759	103,220	100,951
Industrial [3]	498,896	436,269	488,321	593,667	644,958	779,278	851,797	759,437
Total revenue from consumers	366,246	342,651	329,880	347,067	376,388	412,444	443,408	416,580
Domestic [2]	237,739	228,063	213,496	213,619	225,445	237,210	248,175	242,658
Commercial	37,899	38,995	37,105	38,376	42,314	46,463	48,642	47,240
Industrial [3]	90,608	75,593	79,228	95,072	108,629	128,771	146,591	126,682

[1] Including data for the miscellaneous group not separately shown. [2] Including house heating.
[3] Including data for electric generation.

Source of tables 782 and 783: American Gas Association, Annual Statistics of the Manufactured-Gas and Natural-Gas Industries, Statistical Bulletins Nos. 36 and 37.

No. 784.—Gas Prices—Monthly Prices of Specified Quantities, by Cities

[Based on rate as of Dec. 15, 1938]

City	Kind of gas [1]	Heating value per cubic foot in British thermal units	Equipment and average monthly consumption for 5-room house: Range, 10.6 therms [2]		Range and manual water heater, 19.6 therms [2]		Range and automatic [3] water heater, 30.6 therms [2]		Range, automatic [3] water heater, and refrigerator, 40.6 therms [2]	
			Monthly bill	Price per therm	Monthly bill	Price per therm	Monthly bill	Price per therm	Monthly bill	Price per therm
			Dollars	*Cents*	*Dollars*	*Cents*	*Dollars*	*Cents*	*Dollars*	*Cents*
Atlanta	N	980	1.78	16.8	2.70	13.8	3.77	12.3	4.38	10.8
Baltimore	M	500	1.80	17.0	3.33	17.0	4.78	15.6	6.08	15.0
Birmingham	M	520	1.63	15.4	3.02	15.4	4.70	15.4	6.25	15.4
Boston	M	535	2.48	23.4	4.16	21.2	5.70	18.6	7.19	17.7
	M	535	2.28	21.5	4.21	21.5	5.63	18.4	7.12	17.5
Buffalo	X	900	.77	7.2	1.42	7.2	2.21	7.2	2.93	7.2
Butte	N	850	1.11	10.5	1.59	8.1	2.17	7.1	2.70	6.7
Charleston, S. C.:										
Immediate	M	550	2.70	25.5	4.98	25.5	7.19	23.5	9.01	22.2
Objective [4]	M	550	(5)	(5)	4.42	22.6	5.92	19.3	7.28	17.9
Chicago	X	800	2.26	21.3	3.65	18.6	5.01	16.4	5.71	14.1
Cincinnati	X	930	.85	8.0	1.52	7.8	2.29	7.5	2.97	7.3
Cleveland	N	1,100	[6] .75	7.1	.89	4.5	1.43	4.7	1.93	4.8
Columbus	N	1,050	[6] .75	7.1	1.03	5.2	1.60	5.2	2.13	5.2
	N	1,050	[6] .75	7.1	.90	4.6	1.40	4.6	1.86	4.6
Dallas	N	1,050	1.26	11.9	1.84	9.4	2.54	8.3	3.19	7.9
Denver [7]	N	825	2.18	20.6	3.35	17.1	4.20	13.7	4.84	11.9
Detroit [8]	N	1,010	1.55	14.6	2.51	12.8	3.68	12.0	4.75	11.7
Fall River	M	528	2.53	23.9	4.06	20.7	5.94	19.4	7.64	18.8
Houston	N	1,030	1.17	11.0	1.74	8.9	2.43	7.9	3.06	7.5
Indianapolis	M	570	1.58	14.9	2.92	14.9	4.57	14.9	6.05	14.9
Jacksonville	M	535	3.97	37.5	5.73	29.3	7.59	24.8	9.27	22.8
Kansas City [7]	N	1,040	1.33	12.6	2.12	10.8	3.05	10.0	3.88	9.6
Little Rock [7]	N	1,000	1.11	10.4	1.61	8.2	2.23	7.3	2.79	6.9
Los Angeles	N	1,100	1.25	11.8	1.81	9.2	2.42	7.9	2.95	7.3
Louisville [8]	X	900	.98	9.2	1.58	8.0	2.20	7.2	2.78	6.8
Manchester	M	525	2.85	26.8	4.82	24.6	5.67	18.5	6.92	17.0
Memphis	N	980	1.51	14.3	2.48	12.7	3.60	11.8	4.21	10.4
Milwaukee	M	520	1.76	16.6	2.89	14.7	4.26	13.9	5.51	13.6
Minneapolis	X	800	1.94	18.3	3.05	15.6	4.40	14.4	5.59	13.8
Mobile: Present	N	960	2.25	21.2	3.43	17.5	4.75	15.5	5.43	13.4
Objective [4]	N	960	2.05	19.3	2.99	15.3	4.06	13.3	4.69	11.5
Newark	M	525	2.69	25.4	4.31	22.0	6.06	19.8	7.29	18.0
New Haven	M	528	2.41	22.7	4.11	21.0	6.20	20.3	8.09	19.9
New Orleans	N	950	1.26	11.9	2.10	10.7	3.15	10.3	4.09	10.1
New York: [8]										
Bronx, Manhattan, and Queens	M	540	2.32	21.9	4.30	21.9	6.72	21.9	8.91	21.9
Brooklyn	M	540	2.36	22.3	3.83	19.6	5.30	17.3	6.48	16.0
Richmond	M	540	3.14	29.6	5.15	26.3	7.15	23.3	8.95	22.1
Norfolk	M	530	2.40	22.6	4.36	22.2	6.62	21.6	8.51	21.0
Omaha	M	555	1.46	13.7	2.27	11.6	3.26	10.6	4.16	10.2
Peoria	N	1,000	2.12	20.0	3.64	18.6	4.67	15.3	5.57	13.7
Philadelphia [7]	M	530	1.84	17.3	3.31	16.9	5.10	16.7	6.74	16.6
Pittsburgh [9]	N	1,100	[6] 1.00	9.4	1.07	5.4	1.67	5.4	2.21	5.4
	N	1,113	[6] 1.00	9.4	1.06	5.4	1.65	5.4	2.19	5.4
Portland, Maine	M	525	3.03	28.5	5.16	26.3	6.51	21.3	8.03	19.8
Portland, Oregon	M	570	2.34	22.0	3.98	20.3	5.33	17.4	6.61	16.3
Providence	M	510	2.57	24.3	4.16	21.2	6.10	19.9	7.86	19.4
Richmond	M	525	2.63	24.8	4.78	24.4	6.05	19.8	7.76	19.1
Rochester	M	537	1.97	18.6	3.65	18.6	5.56	18.2	7.05	17.4
St. Louis [7]	X	800	2.05	19.4	3.35	17.1	4.92	16.1	6.23	15.3
St. Paul	M	550	1.98	18.7	3.16	16.1	4.59	15.0	5.87	14.5
Salt Lake City [7]	N	865	2.12	20.0	3.27	16.7	4.16	13.6	4.86	12.0
San Francisco	N	1,150	1.22	11.5	1.73	8.8	2.35	7.7	2.85	7.0
Savannah	M	535	2.48	23.3	4.58	23.3	7.15	23.3	9.49	23.3
Scranton	M	520	2.89	27.2	4.57	23.3	5.77	18.8	7.60	18.7
Seattle [8]	M	500	3.10	29.2	5.36	27.3	5.32	17.4	6.45	15.9
Springfield, Ill.	N	1,000	1.91	18.0	3.36	17.1	4.47	14.6	5.37	13.2
Washington	X	604	1.51	14.2	2.71	13.8	4.01	13.1	5.16	12.7

[1] M, manufactured; N, natural; X, mixed.
[2] 1 therm equals 100,000 British thermal units.
[3] Automatic storage or instantaneous water heater.
[4] Rate designed to encourage greater use of gas.
[5] The "Objective" rate is not applicable for customers using 10.6 therms for the reason that the bill would be higher than that computed under the "Immediate" rate.
[6] Minimum charge.
[7] Prices include 2-percent sales tax.
[8] Prices include 3-percent sales tax.
[9] Reports from 2 companies with identical rates.

Source: Dept. of Labor, Bur. of Labor Statistics; published in Retail Prices, Dec., 1938.

No. 785.—Petroleum, Crude—Production: 1861 to 1938

[Quantities in thousands of barrels (42 gallons); values in thousands of dollars]

Yearly average	Quantity	Value	Year	Quantity	Value	Year	Quantity	Value
1861–1865	2,479	9,965	1909	183,171	128,329	1924	713,940	1,022,683
1866–1870	4,013	15,795	1910	209,557	127,900	1925	763,743	1,284,960
1871–1875	8,221	16,430	1911	220,449	134,045	1926	770,874	1,447,760
1876–1880	16,816	22,926	1912	222,935	164,213	1927	901,129	1,172,830
1881–1885	25,508	22,933	1913	248,446	237,121	1928	901,474	1,054,880
1886–1890	32,990	23,830	1914	265,763	214,125	1929	1,007,323	1,280,417
1891–1895	51,095	35,708	1915	281,104	179,463	1930	898,011	1,070,200
1896–1900	59,498	56,836	1916	300,767	330,900	1931	851,081	550,630
1901–1905	102,083	83,524	1917	335,316	522,635	1932	785,159	680,460
1906–1910	172,769	119,572	1918	355,928	703,944	1933	905,656	608,000
1911–1915	247,739	185,793	1919	378,367	760,266	1934	908,065	904,825
1916–1920	362,661	735,698	1920	442,929	1,360,745	1935	996,596	961,440
1921–1925	647,961	999,186	1921	472,183	814,745	1936	1,099,687	1,199,820
1926–1930	895,762	1,205,217	1922	557,531	895,111	1937	1,279,160	1,513,340
1931–1935	889,311	741,071	1923	732,407	978,430	1938 (prel.)	1,213,254	1,390,000

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 786.—Petroleum, Crude and Refined—Production, Imports, Exports, and Bunker Oil Laden on Vessels in Foreign Trade: 1871 to 1938

Note.—Exports of refined oils include residuum prior to 1913 and exclude it thereafter. Exports exclude reexports of imported oils. General imports through 1933; imports for consumption thereafter

Period	Quantity (thousands of barrels of 42 gallons)						Value (millions of dollars)				
	Production, crude oil	Imports		Exports		Bunker oil	Imports		Exports		Bunker oil
		Crude oil	Refined oils	Crude oil	Refined oils		Crude oil	Refined oils	Crude oil	Refined oils	
1871–1880	12,519	(1)	(1)	528	6,026	(1)	(1)	(1)	2.4	37.7	(1)
1881–1890	20,249	(1)	(1)	1,719	12,084	(1)	(1)	(1)	5.1	43.7	(1)
1891–1895	51,095	(1)	(1)	2,606	16,751	(1)	(1)	(1)	5.0	40.8	(1)
1896–1900	59,498	(1)	(1)	2,007	20,240	(1)	(1)	(1)	5.8	57.1	(1)
1901–1905	102,083	(1)	(1)	3,029	22,317	(1)	(1)	(1)	6.3	68.5	(1)
1906–1910	172,769	[2] 295	(1)	3,686	30,521	(1)	[2] 0.7	(1)	6.4	90.4	(1)
1911–1915	247,739	12,080	293	4,134	44,475	(1)	7.6	1.1	6.1	125.8	(1)
1916–1920	362,661	49,531	1,396	5,413	58,896	11,681	26.5	5.0	14.1	323.7	24.2
1921–1925	647,961	94,857	12,545	13,330	76,455	36,501	68.0	22.2	22.5	363.6	55.9
1926–1930	895,762	67,919	23,779	20,062	119,700	50,198	78.6	51.8	30.2	464.7	62.3
1931–1935	889,311	38,395	23,902	36,413	[3] 70,892	34,868	27.3	22.3	38.2	[3] 164.3	31.3
1922	557,531	127,308	8,639	9,995	59,592	31,692	70.4	17.8	18.3	312.6	43.7
1923	732,407	82,015	17,592	17,061	77,893	37,582	53.9	24.3	23.1	327.0	52.2
1924	713,940	77,775	16,760	17,605	93,411	43,328	73.8	26.9	26.5	392.3	58.0
1925	763,743	61,824	16,324	13,125	93,843	42,827	75.4	31.3	24.3	422.6	68.2
1926	770,874	60,382	20,902	15,406	108,398	46,662	79.3	44.6	28.5	497.2	71.0
1927	901,129	58,383	13,281	15,843	115,399	50,051	78.6	33.6	25.9	429.7	73.0
1928	901,474	79,767	11,701	18,961	126,159	51,226	90.5	40.9	26.8	465.2	59.4
1929	1,007,323	78,933	29,632	26,394	126,377	52,278	79.9	61.0	37.8	493.4	54.7
1930	898,011	62,129	43,381	23,704	122,167	50,773	64.9	78.7	32.2	438.2	53.6
1931	851,081	47,250	38,702	25,535	91,009	43,714	39.2	52.1	20.8	232.3	38.8
1932	785,159	44,700	30,228	27,391	[3] 69,348	38,152	30.4	29.2	27.1	[3] 168.1	29.4
1933	905,656	31,908	13,257	36,584	[3] 61,419	32,272	17.7	7.1	32.0	[3] 151.3	27.1
1934	908,065	35,772	14,952	41,127	[3] 64,750	29,899	25.9	9.6	49.8	[3] 159.5	31.3
1935	996,596	32,345	22,369	51,430	[3] 67,932	30,304	23.4	13.5	61.2	[3] 169.9	29.9
1936	1,099,687	32,957	25,460	50,313	[3] 71,402	33,407	23.2	16.5	66.1	[3] 179.0	34.3
1937	1,279,160	27,310	33,038	67,127	[3] 93,464	37,688	20.8	22.4	96.4	[3] 253.4	43.5
1938 (prel.)	1,213,254	26,048	27,891	77,254	[3] 102,124	36,059	18.6	19.7	111.6	[3] 249.6	37.8

[1] Data are not available. [2] Average for years 1908–1910 for total mineral oils.

[3] Not including natural gasoline (308,000 barrels valued at $533,000 in 1932, 1,657,000 barrels at $3,395,000 in 1933, 1,495,000 barrels at $2,729,000 in 1934, 1,645,000 barrels at $3,335,000 in 1935, 1,904,000 barrels at $4,227,000 in 1936, 3,738,000 barrels at $9,465,000 in 1937, and 6,114,000 barrels at $13,059,000 in 1938), included with refined oils prior to 1932.

Sources: Production, Dept. of the Interior, Bur. of Mines; Minerals Yearbook. Imports and exports, Dept. of Commerce, Bur. of Foreign and Domestic Commerce: annual report, Foreign Commerce and Navigation of the U. S. Also published currently in Monthly Summary of Foreign Commerce of the U. S.

158295°—40——50

No. 787.—Petroleum, Crude—World Production; United States Production by Regions and States: 1901 to 1938

[In thousands of barrels of 42 gallons]

Section	1901–1910 (average)	1911–1915 (average)	1916–1920 (average)	1921–1925 (average)	1926–1930 (average)	1931–1935 (average)	1936	1937	1938 (preliminary)
World total [1]	236,615	384,345	541,733	944,777	1,316,390	1,460,372	1,804,925	2,041,715	1,978,340
United States [2]	137,426	247,739	362,661	647,961	895,762	889,311	1,099,687	1,279,160	1,213,254
Percent of total	*58.1*	*64.5*	*66.9*	*68.6*	*68.0*	*60.9*	*60.9*	*62.7*	*61.3*
Regions:									
Appalachian	28,943	24,594	27,161	28,504	31,603	30,079	34,322	36,964	34,723
Lima—N. E. Ind. [3]—Mich	17,253	5,052	3,468	2,298	3,603	10,050	12,706	17,272	19,794
Illinois—S. W. Indiana [3]	12,650	24,955	13,918	9,585	7,495	5,326	5,277	8,325	24,898
Mid-continent	25,088	87,656	184,616	343,545	527,944	566,251	669,538	774,309	676,926
Gulf	17,436	12,357	24,273	33,688	54,140	75,401	140,562	176,743	181,478
Rocky Mountain	402	2,605	11,830	35,258	29,468	17,984	22,509	26,906	25,686
California	35,641	90,512	97,384	195,074	241,509	184,221	214,773	238,521	249,749
States:									
Arkansas	-------	-------	-------	36,644	35,010	12,144	10,469	11,764	18,077
California	35,641	90,512	97,384	195,074	241,509	184,221	214,773	238,521	249,749
Colorado	381	211	139	392	2,477	1,260	1,650	1,605	1,412
Illinois	12,659	24,955	13,918	8,815	6,654	4,551	4,475	7,409	23,929
Indiana	6,527	1,167	865	1,011	937	800	822	844	969
Kansas [4]	4,603	2,235	32,556	32,733	41,123	43,033	58,317	70,761	59,587
Kentucky [5]	696	484	5,335	8,044	7,103	5,494	5,633	5,484	5,821
Louisiana	4,310	12,997	19,117	26,759	22,338	30,396	80,491	90,924	94,812
Michigan	-------	-------	-------	1	1,913	9,004	11,928	16,628	19,211
Montana	-------	-------	129	2,729	4,826	3,153	5,868	5,805	4,907
New Mexico [6]	-------	-------	-------	[7] 554	3,171	15,829	27,223	38,854	35,759
New York	1,153	920	864	1,274	2,765	3,618	4,663	5,478	5,045
Ohio	15,677	8,586	7,583	7,045	7,022	4,504	3,847	3,559	3,298
Oklahoma [4]	19,076	68,624	102,209	155,088	235,663	176,293	206,555	228,839	174,882
Pennsylvania	10,538	8,002	7,662	7,607	10,613	13,443	17,070	19,189	17,426
Texas	14,534	16,256	55,008	127,009	245,792	364,341	427,411	510,318	475,614
West Virginia	11,605	10,487	8,311	6,575	5,655	4,032	3,847	3,845	3,684
Wyoming	21	2,394	11,562	31,901	21,145	13,158	14,582	19,166	19,004

[1] Estimated.
[2] Includes for certain years small quantities not distributed by regions and States.
[3] Southwestern Indiana reported with Illinois beginning 1921; previously with Lima-Indiana region.
[4] Kansas includes Oklahoma, 1905 and 1906. [5] Kentucky includes Tennessee, 1891 to 1907.
[6] Not shown separately prior to 1924. [7] Average for years 1924 and 1925.

No. 788.—Petroleum and Petroleum Products—Stocks on December 31: 1920 to 1938

[In thousands of barrels of 42 gallons]

	1920	1925	1930	1935	1936	1937	1938
Crude petroleum, total [1]	149,448	345,863	408,809 [2] 411,882	314,855	288,579	306,826 [2] 319,596	290,820
Gasoline bearing:							
At refineries [3]	28,703	[4] 29,607	[4] 41,136	59,148	46,846	51,041	51,551
Pipe line and tank farm [5]	117,159	[4] 308,696	[4] 361,065 [2] [4] 364,138	245,178	230,499	244,545 [2] 243,552	211,931
Producers' [5]	3,586	7,560	6,608	10,529	11,234	11,240 [2] 10,498	10,871
Nongasoline bearing (Calif. heavy crude)	([6])	([6])	([6])	([6])	([6])	[2] 14,505	16,467
Natural gasoline	([6])	[7] 326	2,377 [2] 3,100	3,608	4,055	4,758	4,830
Refined products, total [1] [8]	60,397	206,275	254,311 [2] 251,680	223,361	226,595	253,413 [2] 239,632	259,613
Gasoline	11,009	38,918	40,541 [2] 40,098	50,647	56,382	69,892	65,949
Kerosene	9,359	7,121	6,883	7,915	5,633	7,083	7,799
Gas oil and fuel oil [1]	19,938	110,464	140,428 [2] 137,790	103,984	107,049	117,585 [2] 104,073	125,619
Lubricants	3,822	7,253	10,971	7,025	6,942	7,512	7,695
Grand total stocks all oils	209,845	552,464	665,497 [2] 666,662	541,914	519,229	564,997 [2] 563,986	555,263

[1] California heavy crude and fuel oil included in refined products as residual fuel oil, 1925 through 1937.
[2] For comparison with succeeding year. [3] Includes foreign crude held by importers.
[4] Refinery stocks in California included in pipe-line and tank-farm stocks.
[5] Producers' stocks in California included in pipe-line and tank-farm stocks prior to 1933.
[6] Not available. [7] At plants only. [8] Includes wax, coke, and asphalt.

Source of tables 787 and 788: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 789.—Oils, Crude and Refined—Supply and Demand: 1932 to 1938

[In thousands of barrels of 42 gallons]

	1932	1933	1934	1935	1936	1937	1938 (preliminary)
Total new supply of all oils	886, 985	986, 228	996, 823	1, 090, 485	1, 202, 063	1, 388, 284	1, 319, 418
Domestic production, total	822, 471	940, 834	946, 329	1, 037, 800	1, 144, 959	1, 331, 127	1, 265, 270
Crude petroleum	785, 159	905, 656	908, 065	996, 596	1, 099, 687	1, 279, 160	1, 213, 254
Natural gasoline	36, 281	33, 810	36, 556	39, 333	42, 770	49, 177	50, 317
Benzol	1, 031	1, 368	1, 708	1, 871	2, 502	2, 790	1, 699
Imports—							
Crude	44, 682	31, 893	35, 558	32, 239	32, 327	27, 484	26, 412
Refined [1]	29, 812	13, 501	14, 936	20, 396	24, 777	29, 673	27, 736
Change in stocks [2]	−41, 792	+11, 013	−37, 848	−22, 238	−22, 685	+45, 768	−8, 723
Total demand	938, 757	975, 215	1, 034, 671	1, 112, 673	1, 224, 748	1, 342, 516	1, 328, 141
Exports [3]—							
Crude	27, 393	36, 584	41, 127	51, 430	50, 313	67, 234	77, 273
Refined [1]	75, 882	70, 143	73, 380	77, 557	81, 681	105, 600	116, 633
Domestic [4]	835, 482	868, 488	920, 164	983, 686	1, 092, 754	1, 169, 682	1, 134, 235

[1] Includes wax, coke, asphalt, and residuum in barrels. Data from Bur. of Foreign and Domestic Commerce.
[2] Data include crude petroleum, refined products, and natural gasoline.
[3] Includes shipments to noncontiguous territories. Data from Bur. of Foreign and Domestic Commerce.
[4] Includes bunker oil put on vessels engaged in foreign trade.

Source: Department of the Interior, Bureau of Mines, except as noted; Minerals Yearbook.

No. 790.—Petroleum Products—Production, by Kind: 1933, 1935, and 1937

Product	Quantity (thousands of gallons unless otherwise specified)			Value (thousands of dollars)		
	1933 [1]	1935	1937	1933 [1]	1935	1937
Refinery products, total value				1, 359, 968	1, 830, 394	2, 537, 061
Gasoline	16, 094, 531	18, 505, 867	22, 626, 325	759, 183	1, 023, 578	1, 447, 688
Naphtha	228, 516	216, 906	281, 391	12, 251	13, 223	19, 381
Illuminating oils	1, 949, 863	2, 194, 731	2, 508, 045	78, 128	94, 179	123, 681
Fuel oils	13, 295, 107	15, 905, 206	19, 243, 714	253, 237	359, 437	512, 904
Distillates	1, 598, 816	1, 782, 051	2, 997, 561	49, 648	60, 983	122, 187
Gas oils	1, 977, 443	2, 709, 138	3, 153, 937	53, 931	85, 550	110, 428
Residual fuel oils	9, 718, 848	11, 414, 016	13, 092, 216	149, 658	212, 905	280, 289
Partially refined oils sold for rerunning	1, 130, 068	1, 042, 276	1, 147, 454	23, 734	31, 658	38, 726
Above fuel oil	760, 697	737, 007	838, 758	(2)	(2)	(2)
Fuel oil	345, 215	276, 557	247, 723			
Below fuel oil	24, 156	28, 712	60, 973			
Lubricating oils [3]	1, 047, 212	1, 274, 384	1, 517, 103	142, 444	186, 534	245, 666
Black, cylinder, red, neutral, pale, and paraffin	650, 475	777, 072	970, 593	74, 178	104, 986	133, 986
All other lubricating oils, including compounded (except cylinder) oils	396, 736	497, 313	546, 510	68, 266	81, 547	111, 681
Liquid asphaltic road oils	300, 243	406, 968	481, 135	8, 343	13, 346	16, 418
Residuum or tar	64, 977	88, 526	20, 421	1, 271	1, 696	853
Greases	41, 923	49, 919	61, 926	9, 251	12, 740	17, 216
Petrolatum, mineral jelly, etc.	14, 711	18, 327	23, 083	1, 855	2, 608	3, 932
Lubricating greases, including axle grease [3]	27, 212	31, 591	38, 843	7, 396	10, 132	13, 284
Paraffin wax	72, 852	76, 495	90, 608	12, 211	14, 447	19, 213
Acid oil	85, 627	94, 258	57, 633	1, 015	1, 219	1, 016
Asphalt other than liquid asphalt [4]	1, 790	2, 154	2, 971	17, 932	23, 233	31, 352
Petroleum coke [4]	1, 751	1, 444	1, 327	5, 582	5, 765	5, 048
Other refinery products, value				35, 388	49, 340	57, 898

[1] Data incomplete; see third paragraph of general note, p. 772.
[2] No data.
[3] Production in petroleum refineries only.
[4] Thousands of tons of 2,000 pounds.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

No. 791.—Petroleum and Natural Gasoline—Amounts Run to Stills; Refinery Production, Stocks, Exports, and Apparent Consumption of Products: 1918 to 1938

Note.—Stocks are those in refiners' hands only. Hence "apparent consumption" represents deliveries by refiners to dealers and consumers. Exports include shipments to noncontiguous territories. Consumption figures for the several products take into account imports not shown separately

[In thousands of barrels of 42 gallons, except as indicated]

Item	1918	1920	1925	1930	1935	1936	1937	1938 (prel.)
Crude oil run to stills	326,025	433,915	739,920	927,447	965,790	1,068,570	1,183,440	1,165,015
Domestic	324,618	372,779	698,582	866,615	933,659	1,034,637	1,157,444	1,138,828
Foreign	1,407	61,136	41,338	60,832	32,131	33,933	25,996	26,187
Natural gasoline run to stills or blended at refineries	2,451	3,153	[1] 19,636	[1] 43,170	[1] 31,025	[1] 33,817	[1] 39,381	[1] 39,961
Stocks of crude oil, end of year	15,750	21,261	[2] 29,200	[2] 41,136	59,148	46,846	51,041	51,551
Motor fuel:								
Production	86,280	118,022	262,252	440,728	468,021	516,266	571,727	567,905
Exports (gasoline, natural gasoline, and benzol)	13,650	15,678	31,684	65,575	30,613	28,646	38,306	50,198
Stocks, end of year	7,080	11,009	38,918	40,098	[3] 54,345	[3] 60,437	[3] 74,650	[3] 70,779
Apparent consumption	75,672	102,937	226,329	394,800	434,810	481,606	519,352	521,657
Kerosene:								
Production	43,461	55,240	59,689	49,208	55,813	56,082	65,308	64,580
Exports	11,820	20,878	21,212	16,884	6,651	6,936	8,886	7,513
Stocks, end of year	9,050	9,359	7,121	6,883	7,915	5,633	7,083	7,799
Apparent consumption	34,442	33,082	39,969	34,736	47,645	51,428	54,972	56,351
Gas oil and fuel oils:								
Production	174,319	210,987	364,991	372,498	360,061	413,874	458,770	446,746
Exports	29,637	22,080	36,088	36,450	28,948	34,883	45,433	47,631
Stocks, end of year	15,691	19,038	[2] 24,681	[4] 137,790	[4] 103,984	[4] 107,049	{[4] 117,585 [5] 104,073}	125,619
Apparent consumption					366,723	410,641	442,355	409,214
Lubricants:								
Production	20,035	24,938	31,055	34,201	27,853	30,927	35,321	30,826
Exports	6,165	9,643	9,678	9,935	8,499	8,691	10,975	9,402
Stocks, end of year	3,306	3,822	7,253	10,971	7,025	{6,942 [5] 6,482}	7,512	7,695
Apparent consumption	13,823	14,742	20,581	21,589	19,661	22,323	23,323	21,248
Wax—production 1,000 lbs	505,144	541,204	590,577	547,680	450,240	472,920	521,640	435,400
Stocks, end of year do	199,658	195,368	116,391	232,592	114,675	115,434	144,992	129,340
Coke—production 1,000 tons [6]	560	577	991	1,940	1,458	1,378	1,307	1,602
Stocks, end of year do	23	32	238	1,069	389	389	379	708
Asphalt—production 1,000 tons [6]	608	1,291	2,677	3,308	3,115	3,869	4,182	4,392
Stocks, end of year do	77	81	159	308	430	364	{557 [5] 566}	481
Other finished products			8,044	13,179	[7] 59,102	[7] 66,592	[7] 74,687	[7] 72,119
Losses	14,557	18,743	22,914	37,003	[7] 11,493	[7] 8,719	[7] 6,256	[7] 7,196

[1] Includes natural gasoline run through pipe lines in California. [2] Stocks east of California only.
[3] Includes terminal, transit, and natural gasoline stocks. [4] Including California heavy crude.
[5] For comparison with succeeding year. [6] Of 2,000 pounds.
[7] Other finished products include still gas formerly reported also with losses.

No. 792.—Petroleum and Natural Gasoline—Amounts Run to Stills, 1937 and 1938, and Refinery Products, 1938, by Regions

[In thousands of barrels of 42 gallons, except wax, which is in thousands of pounds]

Region	Crude oil run to stills		Natural gasoline run to stills or blended		Output of refineries, 1938 [1]				
	1937	1938 [1]	1937	1938 [1]	Gasoline	Kerosene	Gas oil and fuel oil	Lubricants	Wax
Total	**1,183,440**	**1,165,015**	**39,381**	**39,961**	**555,850**	**64,580**	**446,746**	**30,826**	**435,400**
East coast	198,080	180,606	1,540	1,198	73,547	9,208	79,281	7,613	196,560
Appalachian	40,286	39,180	362	269	19,380	2,769	7,171	5,763	82,880
Indiana, Illinois, Kentucky, etc.	164,243	163,140	4,077	4,488	95,511	7,096	40,716	2,609	31,640
Oklahoma, Kansas, and Missouri	121,238	111,143	5,895	5,772	65,719	6,960	30,264	2,962	30,800
Texas	357,429	374,829	12,546	12,688	182,427	25,342	141,391	7,841	62,160
Louisiana and Arkansas	75,654	70,992	1,566	1,119	27,819	8,176	26,204	1,549	19,880
Rocky Mountain	23,365	24,791	826	803	13,919	810	6,605	205	11,480
California	203,145	200,334	[2] 12,569	[2] 13,624	77,528	4,219	115,024	2,284	

[1] Preliminary.
[2] Includes 1,374,000 barrels run through pipe lines in 1937 and 1,349,000 barrels in 1938.

Source of tables 791 and 792: Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 793.—Petroleum Pipe Lines—Summary: 1921 to 1938

[All figures, except miles of line operated, in thousands of dollars]

Year	Miles of line operated	Investment in pipe lines	Other investments	Pipe-line operating revenues	Pipe-line operating expenses	Pipe-line operating income	Net income
1921	55, 260	365, 024	287, 114	115, 950	62, 370	25, 530	34, 400
1925	70, 009	511, 088	93, 896	164, 645	80, 232	70, 966	88, 495
1929	85, 796	741, 010	104, 445	251, 411	102, 101	135, 421	142, 216
1930	88, 727	772, 711	96, 184	237, 910	99, 363	121, 816	123, 741
1931	93, 090	845, 050	90, 505	222, 944	96, 237	116, 767	120, 738
1932	92, 783	763, 942	41, 754	211, 789	86, 003	110, 019	112, 362
1933	93, 724	766, 251	47, 947	217, 192	85, 374	107, 811	105, 943
1934	93, 070	758, 172	57, 275	199, 166	86, 884	84, 865	84, 143
1935	92, 037	763, 009	119, 071	197, 368	89, 364	79, 586	78, 249
1936	94, 060	773, 743	77, 239	219, 057	92, 899	94, 491	91, 742
1937	96, 611	802, 946	87, 389	248, 198	99, 641	109, 994	102, 720
1938	95, 775	807, 657	70, 666	228, 211	98, 756	95, 128	80, 346

Source: Records of Interstate Commerce Commission.

No. 794.—Petroleum and Petroleum Products—Prices, 1921 to 1938, and by Months, 1938

Note.—Prices of crude and fuel oil in dollars per barrel of 42 gallons; others in cents per gallon. All prices are weighted averages compiled by Joseph E. Pogue.

Year	Crude [1]	Gasoline [2]	Kerosene [3]	Fuel oil [4]	Lubricating oil [5]	Month, 1938	Crude [1]	Gasoline [2]	Kerosene [3]	Fuel oil [4]	Lubricating oil [5]
	Dolls.	*Cents*	*Cents*	*Dolls.*	*Cents*		*Dolls.*	*Cents*	*Cents*	*Dolls.*	*Cents*
1921	1.86	-------	12.9	1.30	-------	January	1.33	10.1	9.6	1.05	13.5
1925	1.96	19.9	12.3	1.46	24.3	February	1.33	10.1	9.7	1.03	13.7
1929	1.67	17.7	13.4	.89	26.3	March	1.31	10.0	9.7	.98	13.7
1930	1.39	16.4	12.1	.78	19.8	April	1.31	10.2	9.8	.95	13.4
1931	.91	12.9	10.3	.57	14.7	May	1.31	10.1	9.8	.90	12.6
1932	1.02	13.2	9.4	.62	14.5	June	1.29	10.1	9.5	.87	12.4
1933	.87	12.8	9.2	.67	14.7	July	1.26	10.1	9.6	.88	12.3
1934	1.21	13.5	9.5	.84	18.5	August	1.26	9.9	9.5	.88	12.7
1935	1.17	13.4	8.9	.89	14.4	September	1.24	9.8	9.5	.91	12.9
1936	1.30	13.0	9.0	.92	16.3	October	1.16	9.7	9.2	.91	12.9
1937	1.39	10.5	9.5	1.03	17.7	November	1.12	9.5	9.1	.90	12.8
1938	1.25	9.9	9.5	.93	12.9	December	1.12	9.5	9.1	.91	12.6

[1] Average for 5 important grades at wells.
[2] Average based on sales in 50 cities (exclusive of all taxes). Prior to 1937, service-station prices; for 1937 and 1938, tank-wagon prices.
[3] Average for 5 markets.
[4] Prior to 1938, average of 5 refining-location prices; 1938, 3 refining-location prices and 1 bunker price.
[5] Average at refineries.

No. 795.—Oil Wells, Number and Production, 1936 and 1937, and Number of Oil and Gas Wells Drilled, 1937 and 1938, by States

State	Producing oil wells				Wells drilled [1]					
	Approximate number, Dec. 31		Average production per well per day (barrels)		Oil		Gas		Dry	
	1936	1937	1936	1937	1937	1938	1937	1938	1937	1938
Total	**349, 450**	**363, 030**	**8.7**	**9.8**	**22, 143**	**19, 121**	**2, 834**	**2, 236**	**6, 420**	**6, 043**
Arkansas	2, 670	2, 670	10.7	12.1	103	204	6	3	78	44
California [2]	12, 230	13, 460	46.9	50.9	1, 147	993	17	7	314	265
Colorado	210	200	22.0	21.4	2	7	2	1	23	10
Illinois	14, 100	14, 110	.9	1.5	272	1, 806	3	23	117	408
Indiana	1, 230	1, 240	1.8	1.9	47	46	39	43	58	69
Kansas	19, 800	21, 850	8.2	9.3	1, 867	1, 108	357	200	606	402
Kentucky	13, 600	13, 700	1.1	1.1	407	484	193	91	234	314
Louisiana	3, 800	4, 160	61.1	62.6	679	690	148	126	306	331
Michigan	1, 360	1, 780	25.9	29.0	586	566	69	28	277	406
Montana	1, 470	1, 600	10.3	10.4	135	69	26	21	56	27
New Mexico	1, 250	1, 920	71.2	67.2	574	494	27	19	64	67
New York	19, 950	19, 900	.6	.8	(3)	(3)	(3)	(3)	(3)	(3)
Ohio	30, 950	28, 500	.3	.3	316	189	497	433	432	288
Oklahoma	54, 800	55, 900	10.3	11.3	1, 852	986	123	160	697	545
Pennsylvania	82, 950	82, 800	.6	.6	[4] 2, 861	[4] 2, 378	[4] 186	[4] 166	[4] 93	[4] 95
Texas	66, 920	77, 360	18.5	19.4	11, 026	8, 802	425	341	2, 820	2, 577
West Virginia	18, 600	18, 400	.6	.6	197	114	650	484	171	126
Wyoming	3, 420	3, 350	11.7	15.5	72	95	12	19	43	43
Other States	140	130	-------	-------	-------	-------	54	71	31	26

[1] Figures, except for California, from *Oil and Gas Journal*.
[2] From *American Petroleum Institute*.
[3] Included in Pennsylvania.
[4] Includes New York.

Source: Dept. of the Interior, Bur. of Mines; Minerals Yearbook, except as noted.

No. 796.—Asphalt—Supply, Distribution, and Value: 1932 to 1938

	1932	1933	1934	1935	1936	1937	1938
Total supply (1,000 tons of 2,000 pounds)	**3,140**	**3,090**	**3,573**	**4,028**	**5,098**	**5,301**	**5,610**
Native asphalt and related bitumens:							
Produced	340	313	441	347	581	485	512
Imported (chiefly lake asphalt)	20	22	16	54	22	29	24
Petroleum asphalt (excluding road oil):							
Produced at refineries from—							
Domestic petroleum	1,116	1,237	1,445	1,802	2,327	2,804	3,069
Foreign petroleum	1,359	1,219	1,396	1,485	1,738	1,556	1,438
Imported						63	10
Stocks, Jan. 1	305	299	276	339	430	364	557
Total distribution (1,000 tons of 2,000 pounds)	**3,140**	**3,090**	**3,573**	**4,028**	**5,098**	**5,301**	**5,610**
Native asphalt and related bitumens:							
Indicated domestic demand	328	299	426	328	567	467	499
Exports (unmanufactured)	12	14	15	19	14	19	14
Petroleum asphalt (excluding road oil):							
Indicated domestic demand (incl. lake asphalt)	2,295	2,296	2,569	3,028	3,962	4,049	4,405
Exports	206	204	224	223	191	209	202
Stocks, Dec. 31	299	276	339	430	364	557	490
VALUE (1,000 DOLLARS)							
Native asphalt and related bitumens:							
Sales	1,943	1,705	2,366	2,149	3,261	3,019	3,065
Imports (chiefly lake asphalt)	251	278	222	545	316	396	378
Exports (unmanufactured)	449	554	581	710	528	720	544
Petroleum asphalt (excluding road oil):							
Sales	18,605	23,543	29,895	31,355	41,145	42,994	41,381
Imports						260	39
Exports	3,168	2,861	3,383	3,371	2,835	3,111	3,030

No. 797.—Gypsum—Supply, Sales, Imports, and Exports: 1934 to 1938

[Quantities in thousands of short tons (2,000 pounds); values in thousands of dollars]

	1934	1935	1936	1937	1938
Crude gypsum:					
Mined	1,536	1,904	2,713	3,058	2,684
Imported	360	450	677	897	789
Apparent supply	1,896	2,354	3,390	[1] 3,956	[1] 3,474
Calcined gypsum produced:					
Short tons	(2)	1,383	(2)	[3] 2,411	[3] 2,253
Value	(2)	(2)	(2)	[3] 11,076	[3] 10,990
Gypsum products sold: [4]					
Uncalcined:					
Short tons	579	595	831	[3] 861	[3] 757
Value	1,267	1,329	1,866	[3] 1,921	[3] 1,681
Calcined:					
Short tons	1,141	1,553	2,210	[3] 2,643	[3] 2,556
Value	16,184	22,358	31,089	[3] 36,880	[3] 34,575
Gypsum and gypsum products:					
Imported for consumption, value	414	512	718	964	832
Exported, value	133	186	256	271	283

[1] To avoid revealing confidential data, by-product gypsum produced at chemical plants is excluded.
[2] Data not collected.
[3] Includes by-product gypsum produced at chemical plants.
[4] Gypsum products from domestic and imported crude.

Source of tables 796 and 797: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 798.—Portland Cement—Production, by States; Shipments, Imports, and Stocks: 1910 to 1938

Note.—Imports are "Imports for consumption" and include all kinds of hydraulic cement, most of which is Portland. "Shipments" include exports made directly by manufacturers and shipments made by them to noncontiguous territories. (See table 799.)

State	1910	1920	1925	1930	1935	1936	1937	1938
	Thousands of barrels of 376 pounds							
Production, total	76,550	100,023	161,659	161,197	76,742	112,650	116,175	105,357
Alabama	[1] 1,481	1,132	6,288	4,821	2,493	3,912	4,415	4,628
California	[2] 6,386	7,098	13,098	10,124	7,974	13,399	11,954	10,513
Illinois	4,459	5,539	7,101	7,935	3,368	4,807	5,246	3,960
Iowa	[3] 2,010	4,849	4,648	7,088	3,520	4,099	4,706	4,727
Kansas	5,656	4,341	6,511	6,012	2,337	3,560	3,697	3,264
Michigan	3,688	4,891	10,936	11,511	4,579	7,673	8,181	7,159
Missouri	4,456	6,018	8,332	7,809	3,392	4,955	4,756	4,491
New York	3,296	5,885	8,770	10,373	4,285	5,729	5,913	5,808
Ohio	1,528	1,780	5,715	8,632	3,876	5,370	5,700	5,188
Pennsylvania	26,676	28,269	42,347	37,844	15,502	22,871	23,064	20,868
Tennessee	(4)	(4)	(4)	3,875	2,703	3,014	3,081	3,319
Texas	[5] 2,287	2,562	4,858	6,782	3,787	5,840	6,906	6,949
Other States	14,627	27,659	43,055	38,393	18,925	27,420	28,555	24,482
Shipments	(6)	96,312	157,295	159,059	75,233	112,850	113,805	106,324
Imports	307	525	3,667	985	619	1,059	1,804	1,727
Stocks at mills (Dec. 31)	(6)	8,833	18,336	25,899	23,065	22,569	24,939	23,946

[1] Includes Georgia and Tennessee.
[2] California includes Washington.
[3] Includes Kentucky and West Virginia.
[4] Included in other States.
[5] Includes Oklahoma.
[6] Not available.

No. 799.—Portland Cement—Shipments, by States, and Exports: 1935 to 1938

[In thousands of barrels of 376 pounds]

State	1935	1936	1937	1938
Shipped from cement plants	75,233	112,850	113,805	106,324
Shipments to States	74,321	111,967	112,782	105,043
New England	3,485	4,531	4,999	4,618
Maine	245	373	393	412
New Hampshire	248	320	345	289
Vermont	193	238	295	222
Massachusetts	1,606	1,900	2,066	1,958
Rhode Island	336	494	422	372
Connecticut	857	1,206	1,478	1,365
Middle Atlantic	14,405	21,635	22,182	20,315
New York	7,933	11,325	11,112	10,824
New Jersey	2,324	3,760	3,858	3,424
Pennsylvania	4,148	6,550	7,213	6,068
East North Central	16,150	24,307	24,005	22,445
Ohio	3,436	5,414	5,420	5,266
Indiana	2,343	3,392	3,279	2,837
Illinois	4,936	6,981	6,945	6,432
Michigan	3,325	5,657	5,360	5,289
Wisconsin	2,110	2,863	3,001	2,620
West North Central	9,240	12,978	12,874	11,830
Minnesota	1,741	2,843	2,553	2,394
Iowa	1,919	2,902	3,249	3,227
Missouri	2,123	3,264	3,132	2,788
North Dakota	261	320	275	280
South Dakota	418	399	526	394
Nebraska	1,341	1,212	1,191	1,102
Kansas	1,437	2,039	1,950	1,646
South Atlantic	7,578	11,046	11,146	11,222
Delaware	177	352	292	299
Maryland	996	1,469	1,842	1,612
District of Columbia	843	1,147	1,066	1,005
Virginia	1,250	1,477	1,668	2,307
Shipments to States—Con. South Atlantic—Continued.				
West Virginia	1,090	2,061	1,325	1,021
North Carolina	832	1,209	1,432	1,649
South Carolina	365	610	734	769
Georgia	1,167	1,518	1,423	1,324
Florida	858	1,203	1,365	1,236
East South Central	4,569	5,850	6,827	7,284
Kentucky	1,063	1,625	1,704	1,984
Tennessee	1,778	2,055	2,082	1,970
Alabama	1,212	1,222	1,224	1,311
Mississippi	516	948	1,816	2,020
West South Central	6,761	10,077	10,451	10,859
Arkansas	658	646	743	779
Louisiana	1,018	1,544	1,695	1,908
Oklahoma	1,447	2,416	2,099	1,900
Texas	3,638	5,471	5,914	6,271
Mountain	3,163	5,042	4,749	4,328
Montana	685	1,488	820	392
Idaho	221	364	471	383
Wyoming	182	249	395	497
Colorado	597	1,134	1,056	857
New Mexico	301	534	825	891
Arizona	311	563	571	702
Utah	329	509	500	479
Nevada	537	202	110	128
Pacific	8,947	16,235	15,498	12,123
Washington	1,290	3,781	4,107	2,237
Oregon	882	816	762	669
California	6,775	11,639	10,629	9,216
Unspecified	24	267	51	19
Exports direct by manufacturers[1]	912	883	1,022	1,281

[1] Includes shipments to Alaska, Hawaii, and Puerto Rico.

Source of tables 798 and 799: Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 800.—Cement—Production, by Kind: 1890 to 1938

Note.—Portland cement is expressed in barrels of 376 pounds; masonry, natural, and puzzolan cement in 1921 and later years in 376-pound barrels but prior to 1921 in barrels of 240, 265, and 320 pounds, respectively. For 1912 through 1924 the figures for masonry, natural, and puzzolan cement represent shipments

Year	Production in thousands of barrels			Total value in thousands of dollars	Year	Production in thousands of barrels			Total value in thousands of dollars
	Total	Portland	Masonry, natural, and puzzolan			Total	Portland	Masonry, natural, and puzzolan	
1890	7,777	336	7,441	4,527	1923	138,732	137,460	1,272	263,122
1895	8,731	990	7,741	5,482	1924	150,777	149,358	1,418	272,345
1900	17,231	8,482	8,749	13,284	1925	163,388	161,659	1,729	[1] 281,070
1905	40,102	35,247	4,855	35,932					
					1926	166,635	164,530	2,105	[1] 280,786
1910	77,785	76,550	1,235	68,752	1927	175,330	173,207	2,124	[1] 281,736
1911	79,548	78,529	1,019	66,705	1928	178,509	176,299	2,210	[1] 278,883
1912	83,351	82,438	913	67,462	1929	172,856	170,646	2,209	[1] 255,105
1913	92,949	92,097	852	93,001	1930	162,989	161,197	1,792	[1] 231,240
1914	89,050	88,230	820	82,204					
1915	86,708	85,915	794	74,285	1931	126,671	125,429	1,242	[1] 142,580
					1932	77,198	76,741	457	[1] 82,718
1916	92,363	91,521	842	101,379	1933	63,984	63,473	511	[1] 86,229
1917	93,454	92,814	639	126,106	1934	78,419	77,748	672	[1] 117,882
1918	71,515	71,082	433	114,132	1935	77,748	76,742	1,006	[1] 114,810
1919	81,307	80,778	529	138,714					
1920	100,791	100,023	767	203,198	1936	114,469	112,650	1,819	[1] 172,778
1921	99,381	98,842	539	187,708	1937	118,075	116,175	1,901	[1] 171,414
1922	115,679	114,790	889	203,324	1938	107,062	105,357	1,705	[1] 156,535

[1] Value of shipments.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 801.—Stone—Sales, by Kind and by Use: 1932 to 1938

Variety and use	Quantity sold, thousands of short tons (2,000 pounds)[1]							Value, 1,000 dollars	
	1932	1933	1934	1935	1936	1937	1938 [2]	1937	1938 [2]
Total	**70,644**	**70,222**	**92,064**	**83,159**	**131,416**	**133,143**	**124,839**	**146,213**	**139,255**
Granite	5,119	4,422	6,792	6,014	15,442	9,266	10,433	20,193	20,916
Basalt and related rocks	9,329	7,394	11,643	9,672	14,014	13,581	13,909	12,508	12,280
Sandstone	2,973	2,800	3,605	3,010	6,254	5,073	6,314	7,516	8,066
Marble	343	225	177	132	166	208	219	5,456	5,248
Limestone	46,914	45,922	57,502	57,493	87,736	94,577	81,680	90,902	82,287
All other	5,968	9,450	12,345	6,838	7,804	10,438	12,284	9,638	10,458
Building stone	1,296	870	711	830	1,001	1,159	1,006	13,143	11,895
Monumental	168	166	187	179	236	249	202	8,427	7,359
Paving blocks	72	60	64	78	75	74	38	781	463
Curbing	80	56	79	69	124	98	109	1,139	1,217
Flagging	26	14	23	24	44	50	41	509	418
Rubble	179	142	293	279	327	251	370	334	427
Riprap	3,462	3,255	6,053	4,919	11,319	5,389	6,211	5,850	6,995
Crushed stone	51,995	45,491	60,568	54,755	87,271	88,433	94,763	82,825	88,767
Furnace flux (limestone and marble)	3,991	7,985	9,231	12,192	17,725	21,332	9,703	14,704	6,943
Refractory stone	197	501	677	866	1,324	1,525	660	2,259	992
Manufacturing industries (limestone and marble)	4,369	5,638	5,373	5,835	6,596	14,583	11,737	16,243	13,779
Agricultural limestone and other	4,808	6,045	8,804	3,131	5,373				

[1] Quantities of stones not sold by the short ton are expressed in the approximate equivalent in short tons; expressed in their selling units the quantities are as follows for 1938: Building stone (cut stone, slabs, and mill blocks), 7,135,860 cubic feet; monumental stone, 2,450,930 cubic feet; paving blocks, 4,300,930 (number); curbing, 1,375,920 cubic feet; and flagging, 488,340 cubic feet.

[2] Preliminary.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 802.—Glass and Glassware—Production, by Kind: 1931, 1935, and 1937

Note.—Comparable figures not available for 1933. See third paragraph of general note, p. 772.

	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1931	1935	1937	1931	1935	1937
Total value					211,955	277,627	354,039
Window glass	Sq. ft	266,772	428,938	616,566	10,307	18,180	31,389
Obscured glass, including cathedral and skylight glass and opalescent sheet glass.	do	17,796	14,372	27,698	2,389	1,644	3,966
Wire glass, rough and polished	do	15,664	11,961	21,343	1,800	1,369	2,719
Tableware, pressed and blown					24,263	[1] 34,750	[1] 41,082
Shades, globes, reflectors, etc					6,590	5,812	9,160
Lenses, except optical lenses	Dozen	(2)	2,045	2,077	1,362	1,876	3,085
Food-product containers [3]	Gross	13,194	14,686	17,059	50,929	54,147	59,740
Beverage containers	do	(2)	9,114	16,459	15,642	33,064	57,474
Medicinal and toilet preparation containers.	do	12,765	14,579	18,348	30,280	30,345	36,157
Other glass and glass products [4]					68,392	[1] 96,439	[1] 109,267

[1] Ovenware, previously included with "Tableware," is included with "Other glass and glass products."
[2] Data incomplete or no data. [3] Not including pressed ware (packers' ware) and jelly glasses (home-pack).
[4] Including polished plate glass.

No. 803.—Clay Products—Production, by Kind: 1933, 1935, and 1937

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1933	1935	1937	1933	1935	1937
CLAY PRODUCTS (OTHER THAN POTTERY)							
Total value					52,772	90,178	159,009
Brick:							
Common	Number	1,019,810	1,811,341	3,252,633	8,816	18,238	34,010
Vitrified [1]	do	63,111	71,800	84,678	1,224	1,724	2,049
Face	do	270,323	472,587	937,599	3,807	7,011	14,357
Drain tile	Ton [2]	168	264	444	1,127	2,002	3,589
Sewer pipe	do	451	670	973	4,911	8,617	13,718
Architectural terra cotta	do	26	18	29	1,831	1,528	2,915
Hollow building tile or block	do	608	913	1,654	2,836	5,469	10,767
Tile (not drain):							
Roofing	Squares	103	135	228	911	1,145	2,054
Floor (incl. plain, vitreous, encaustic, quarry, etc.).	Sq. ft	5,793	7,555	13,246	887	1,084	1,754
Ceramic mosaic (vitreous and semivitreous, unglazed).	do	4,229	6,416	11,734	699	1,317	2,366
Faience (including art, enameled, and hand-decorated).	do	8,401	12,625	29,182	2,386	3,862	9,066
Wall (white and bright glazed).[3]	do	9,930	10,705	10,052	1,552	3,091	2,689
Stove lining	Ton [2]	6	8	12	224	236	310
Fire-clay products (shaped):							
Brick, block, etc.[4]	Number	382,076	494,899	728,406	13,834	20,567	34,949
Special shapes	Ton [2]	107	156	184	2,293	3,265	4,751
All other clay products					5,432	11,021	19,673
POTTERY, INCLUDING PORCELAIN WARE							
Total value					44,024	68,283	97,365
Red earthenware (flower pots, etc.).					1,207	1,795	1,960
Stoneware (except chemical) and yellow and Rockingham ware.					2,222	1,677	1,889
White ware, cream color, white granite, semiporcelain, and semivitreous porcelain.					15,005	22,104	25,711
Hotel china					5,008	7,198	10,018
Vitreous china plumbing fixtures.					7,709	12,969	20,148
Porcelain electrical supplies [5]					7,056	12,504	24,837
Saggers					326	424	537
All other products					5,491	9,551	12,215

[1] Excluding sewer liners. Figure for 1933 includes some brick made for purposes other than paving.
[2] Of 2,000 pounds. [3] Including trim.
[4] Brick, block, or tile for locomotive and other fire-box lining, etc. (9-inch equiv.); and high alumina brick.
[5] Includes value of metal fittings for 1935 and 1937.

Source of tables 802 and 803: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

No. 804.—Clay Building Materials—Production of Brick, Tile, and Fire-Clay Products: 1915 to 1938

Year	Brick (millions)			Value (thousands of dollars)							
				Brick			Architectural terra cotta	Hollow building tile	Tile (other than hollow and drain)	Sewer pipe	Fire-clay products
	Common	Vitrified [1]	Face	Common	Vitrified [1]	Face					
1915 [2]	6,851	953	856	42,145	12,231	9,536	4,796	7,801	5,186	11,259	15,800
1920 [2]	4,852	468	787	82,216	12,679	19,441	10,852	27,112	12,470	25,371	53,416
1923	7,282	699	1,931	94,473	15,570	38,892	16,486	28,275	23,804	20,103	46,677
1924	7,159	554	2,030	86,692	12,974	39,931	16,446	24,998	24,842	32,400	40,621
1925	7,562	539	2,475	88,551	11,876	45,428	19,139	20,264	27,124	30,421	41,164
1926	7,517	468	2,440	88,227	10,285	44,516	19,667	27,818	34,985	29,303	42,707
1927	7,061	503	2,413	78,408	10,764	41,521	16,628	26,499	32,766	29,426	38,174
1928	6,413	378	2,412	69,333	7,800	40,034	13,842	25,792	31,523	23,969	37,392
1929	5,505	368	2,139	58,733	7,504	36,120	13,921	30,142	32,846	21,330	42,376
1930	3,631	300	1,482	37,433	6,247	24,615	10,016	22,219	23,934	15,964	36,054
1931	2,315	207	903	21,652	4,266	13,271	5,492	11,172	19,700	9,448	19,487
1932	1,013	133	384	8,705	2,642	5,273	2,317	4,269	8,108	3,745	9,924
1933	1,020	63	270	8,816	1,224	3,807	1,831	2,836	6,435	4,911	16,127
1934	1,099	114	305	11,419	2,434	4,749	1,128	3,904	6,705	7,913	19,243
1935	1,811	72	473	18,238	1,724	7,011	1,528	5,469	10,500	8,617	23,831
1936	2,967	79	849	30,108	1,868	12,727	2,565	8,913	15,954	12,459	35,104
1937	3,253	85	938	34,010	2,049	14,357	2,915	10,767	17,929	13,718	42,538
1938	2,730	85	803	28,373	2,035	11,812	2,604	8,833	12,931	11,626	23,373

[1] Vitrified brick or plates, excluding sewer liners, for paving and other purposes through 1934; thereafter, for paving only. [2] From Geological Survey.

Source: Dept. of Commerce, Bureau of the Census; annual report, except as noted.

No. 805.—Salt—Production, Exports, and Imports, 1880 to 1938, and Production, by States and by Kind, 1915 to 1938

NOTE.—All quantity figures in short tons (2,000 pounds). Production figures represent sales plus that used by producers; they include Puerto Rico. Imports are imports for consumption

Year	Production	Exports	Imports	Year	Production	Exports	Imports
1880	834,548	1,642	509,703	1928	8,074,700	145,396	42,856
1885	985,411	2,108	440,290	1929	8,543,560	109,222	36,450
1890	1,242,779	2,464	257,323	1930	8,054,440	70,478	54,021
1895	1,913,751	3,602	279,576	1931	7,358,070	98,710	33,216
1900	2,921,708	7,511	199,909	1932	6,407,973	63,581	28,018
1905	3,635,257	34,238	161,159	1933	7,604,972	105,178	30,132
1910	4,242,792	49,013	137,103	1934	7,612,074	105,305	53,124
1915	5,352,409	80,474	122,326	1935	7,926,897	112,213	51,245
1920	6,840,029	139,272	137,654	1936	8,828,936	76,974	51,041
1925	7,397,500	155,079	85,788	1937	9,241,564	70,111	45,996
1927	7,568,690	153,832	44,968	1938	8,025,768	67,498	39,513

State or kind	1915	1920	1925	1930	1935	1937	1938
Production, total	5,352,409	6,840,029	7,397,500	8,054,440	7,926,897	9,241,564	8,025,768
By States:							
Michigan	1,762,430	2,262,915	2,172,600	2,558,290	2,128,171	2,476,406	2,078,612
New York	1,570,446	1,903,101	2,053,970	2,009,280	1,927,822	2,084,867	1,717,064
Ohio	823,234	1,057,802	1,173,500	1,311,440	1,487,315	1,733,875	1,489,270
Kansas	527,123	783,655	812,540	759,800	608,204	654,089	597,909
Louisiana	(1)	265,085	500,350	535,250	702,990	974,403	958,186
California	146,784	212,008	292,480	350,370	356,222	370,911	349,856
Texas	62,297	91,103	(1)	(1)	268,809	364,780	324,449
Utah	55,279	75,259	88,150	85,240	57,625	69,696	61,959
West Virginia	32,513	29,802	25,870	28,670	65,968	128,715	129,568
Undistributed	372,303	159,299	277,950	416,100	323,771	383,822	318,805
By kinds:							
Manufactured (evaporated)	2,335,823	2,409,924	2,235,170	2,358,610	2,330,042	2,579,552	2,429,100
In brine	1,851,199	2,819,916	2,819,690	3,718,460	3,837,613	4,631,580	3,694,807
Rock salt	1,165,387	1,610,189	2,342,640	1,977,370	1,759,242	2,030,432	1,901,861
Total value [2] (dollars)	11,747,686	29,894,075	26,162,361	25,009,480	21,837,911	24,131,733	23,242,561

[1] Included in "Undistributed."
[2] F. o. b. mine or refinery; values do not include cost of cooperage or containers.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 806.—Accidents in Mineral Industries—Number of Men Employed, Killed, and Injured, and Rate: 1923 to 1937

Year	Average days active	Men employed		Man shifts	Number killed	Number injured[1]	Number killed or injured per thousand 300-day workers	
		Actual number	Equivalent in 300-day workers				Killed	Injured [1]
1923	222	1,153,894	852,145	255,643,525	3,071	59,570	3.6	203.9
1924	220	1,073,630	787,065	236,119,757	3,031	57,766	3.9	201.1
1925	222	1,049,579	777,896	233,368,875	2,826	58,704	3.6	197.2
1926	242	1,058,843	855,632	256,689,813	3,201	52,752	3.7	178.1
1927	225	1,044,537	782,635	234,790,290	2,797	45,618	3.6	163.2
1928	231	951,449	733,728	220,118,341	2,629	38,717	3.6	146.1
1929	243	928,648	752,809	225,842,583	2,728	38,806	3.6	143.1
1930	217	888,514	641,749	192,524,971	2,492	130,580	3.9	203.5
1931	188	784,347	492,009	147,602,799	1,707	96,412	3.5	196.0
1932	165	671,343	368,852	110,655,616	1,368	68,717	3.7	186.3
1933	181	677,722	409,292	122,787,658	1,242	72,342	3.0	176.7
1934	195	739,737	481,807	144,542,133	1,429	81,660	3.0	169.5
1935	195	783,139	507,847	152,354,170	1,495	82,220	3.0	161.9
1936	216	824,514	593,068	177,920,334	1,680	92,644	2.8	156.2
1937	217	859,951	622,634	186,790,283	1,759	96,484	2.8	155.0

[1] Excluding those injured in coal mines for years prior to 1930. Figures for 1930 and subsequent years, excluding data for coal mines, are: Number injured—1930, 26,759; 1931, 16,063; 1932, 9,745; 1933, 11,029; 1934, 13,652; 1935, 16,644; 1936, 23,067; 1937, 28,207. Number injured per thousand 300-day workers—1930, 117.0; 1931, 99.7; 1932, 91.6; 1933, 98.6; 1934, 100.9; 1935, 98.3; 1936, 109.8; 1937, 117.7.

Source: Department of the Interior, Bureau of Mines; annual bulletin, Coal Mine Accidents in the United States.

No. 807.—Accidents in Mineral Industries—Number of Men Employed, Killed, and Injured, by Industry Groups: 1937 and Earlier Years

Year	Number employed		Killed	Injured	
	Actual number	Equivalent in 300-day workers		Temporary	Permanent
Metal mines:[1]					
1916	152,118	141,997	553	34,686	609
1920	136,583	134,540	425	32,205	357
1925	126,713	123,908	371	34,458	674
1929	118,735	115,394	350	22,615	477
1930	103,233	92,900	271	15,091	503
1931	80,940	62,405	158	8,402	307
1932	53,288	36,984	107	4,837	177
1933	57,016	38,807	95	5,793	132
1934	66,645	49,077	116	7,699	193
1935	92,314	67,841	164	9,953	253
1936	100,932	84,033	199	14,355	295
1937	118,429	99,522	219	17,614	441
Quarries:					
1915	100,740	82,447	148	9,148	523
1920	86,488	77,089	178	10,880	337
1925	91,872	83,487	149	13,713	452
1929	85,561	76,559	126	9,510	300
1930	80,633	68,531	105	7,152	265
1931	69,200	51,755	61	5,222	205
1932	56,866	37,047	32	3,464	110
1933	61,927	37,874	59	3,526	111
1934	64,331	43,694	60	3,807	117
1935	73,005	48,744	51	4,023	120
1936	80,022	62,914	91	5,538	179
1937	84,094	67,547	77	6,171	177
Metallurgical plants:					
1916	80,201	88,596	83	14,863	217
1920	59,232	65,587	61	8,714	149
1925	58,935	66,220	44	7,480	231
1929	47,399	53,587	43	4,368	207
1930	40,787	44,403	25	2,570	156
1931	28,938	28,806	16	1,304	89
1932	21,564	18,474	8	778	59
Metallurgical plants—Con.					
1933	21,999	19,583	13	1,018	61
1934	26,852	24,472	13	1,243	77
1935	36,493	35,438	28	1,843	119
1936	41,167	42,424	32	2,108	132
1937	47,530	49,664	41	3,064	153
Coke ovens:					
1916	31,603	34,119	45	5,154	83
1920	28,139	29,921	49	3,336	79
1925	23,254	24,054	28	1,652	44
1929	22,459	25,724	22	1,293	36
1930	19,855	22,930	28	990	32
1931	15,564	18,163	9	499	35
1932	12,002	13,862	14	208	22
1933	13,598	15,609	11	366	22
1934	15,483	18,096	14	490	26
1935	16,125	17,251	10	304	21
1936	17,811	20,725	22	428	33
1937	20,042	22,997	9	554	33
Coal mines:					
1911	728,348	532,565	2,656	(2)	(2)
1915	734,008	511,598	2,269	(2)	(2)
1920	784,621	601,283	2,272	(2)	(2)
1925	748,805	480,227	2,234	(2)	(2)
1928	682,831	468,680	2,176	(2)	(2)
1929	654,494	481,545	2,187	(2)	(2)
1930	644,006	412,979	2,063	101,093	2,728
1931	589,705	330,880	1,463	78,478	1,871
1932	527,623	262,484	1,207	57,445	1,527
1933	523,182	297,419	1,064	59,972	1,341
1934	566,426	346,468	1,226	66,304	1,704
1935	565,202	338,572	1,242	63,701	1,874
1936	584,582	382,972	1,342	67,652	1,924
1937	589,856	382,904	1,413	66,344	1,933

[1] Figures include data for mines producing nonmetallic minerals other than coal. [2] Not available.

Source: Department of the Interior, Bureau of Mines; annual bulletins, Metal Mine Accidents, Quarry Accidents, Accidents at Metallurgical Plants, Coke Oven Accidents, and Coal Mine Accidents.

32. MANUFACTURES

[Statistics in this section relate to continental United States except as noted. For additional statistics on manufactured food products, mineral products, and forest products, see sections 27, 28, 29, and 31]

GENERAL NOTE.—The Census of Manufactures was taken decennially prior to 1899 and for each fifth year thereafter through 1919, and has since been taken biennially. The censuses for 1904, 1909, 1914, and 1919 covered all factories or plants whose products were valued at $500 or more, but, beginning with 1921, the minimum limit has been $5,000. As a rule, the term "establishment" signifies a single plant or factory, but in some cases an establishment operates two or more factories and in a few cases two or more departments of a single plant or factory are treated as separate establishments. At the Census for 1937, however, an establishment operating two or more factories was counted as two or more establishments. The total number of establishments was increased approximately 2,000 by this change.

"Value of products" represents selling value at the plant or factory. Because of the use of the products of some establishments as materials for others, the total cost of materials and the total value of products for all industries in a given group, and for all groups in the aggregate, include much duplication, estimated at roughly one-third of the gross value of products. Such duplication is not, however, found to any great extent within individual industries.

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 in the reports of that census 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 1933 figures have been omitted from tables presenting detailed statistics of production in the 1937 and subsequent issues of the Statistical Abstract. Figures for 1933, together with 1931 figures adjusted for comparison with 1933, are, however, included in the 1936 edition.

It is sometimes necessary, for various reasons but chiefly because of changes in census classification, to make adjustments in the figures for earlier census years. Adjustments have been made as a result of the exclusion from the Census of Manufactures for 1937 of the industries "Gas, manufactured, illuminating and heating" and "Railroad repair shops." Adjustments have been made, also, as a result of the exclusion, beginning 1933, of the industries "Coffee and spice, roasting and grinding" and "Peanuts, walnuts, and other nuts, processed and shelled." The "Motion pictures, not including projection in theaters" industry was treated as a manufacturing industry in the censuses for 1921 to 1929, inclusive, but not in subsequent censuses. No adjustments of the figures for 1929 and earlier years have been made on account of this change, but its effect on the comparableness of the figures for different census years is very slight.

Detailed quantity and value figures for products of selected manufacturing industries are presented in certain of the Census tables in this section and in sections 27, 28, 29, and 31. The "total value" figures for the respective industries, as given in those tables, differ from the values of products of the corresponding industries, as given in table 814, because of the inclusion in the product-value totals in those tables, but not in the values of products for the corresponding industries in table 814, of data for the respective classes of commodities made as minor or secondary products by establishments engaged primarily in other lines of manufacture.

No. 808.—MANUFACTURES—SUMMARY: 1849 TO 1937

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric	Value of products [1]	Value added by manufacture [2]
Factories and hand and neighborhood industries:			*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
1849 [3]	123, 025	957, 059	236, 755	555, 124	1, 019, 107	463, 983
1859 [3]	140, 433	1, 311, 246	378, 879	1, 031, 605	1, 885, 862	854, 257
1869 [3]	252, 148	2, 053, 996	[4] 620, 467	[4] 1, 990, 742	[4] 3, 385, 860	[4] 1, 395, 119
1879 [3]	253, 852	2, 732, 595	947, 954	4, 396, 824	5, 369, 579	1, 972, 756
1889 [3]	355, 405	4, 251, 535	1, 891, 220	5, 162, 014	9, 372, 379	4, 210, 365
1899 [3]	512, 191	5, 306, 143	2, 320, 938	7, 343, 628	13, 000, 149	5, 656, 521
Factories, excluding hand and neighborhood industries: [5]						
1899 [3]	205, 237	4, 509, 684	1, 895, 414	6, 441, 437	11, 103, 726	4, 662, 288
1904 [3]	213, 935	5, 189, 895	2, 444, 221	8, 306, 460	14, 345, 545	6, 039, 086
1909 [3]	265, 509	6, 273, 239	3, 210, 277	11, 875, 782	20, 067, 674	8, 191, 892
1914 [3]	269, 223	6, 613, 991	3, 787, 767	14, 020, 718	23, 443, 659	9, 422, 941
1914 [6]	173, 656	6, 478, 713	3, 783, 259	13, 824, 278	23, 065, 565	9, 241, 287
1919 [6]	210, 426	8, 431, 157	9, 673, 134	36, 283, 747	60, 053, 895	23, 770, 147
1921 [6]	192, 275	6, 484, 447	7, 467, 690	24, 445, 982	41, 748, 686	17, 302, 704
1923 [6]	192, 293	8, 202, 779	10, 166, 713	33, 658, 376	58, 288, 281	24, 620, 905
1925 [6]	184, 108	7, 879, 508	9, 994, 341	35, 193, 579	60, 925, 575	25, 731, 996
1927 [6]	187, 801	7, 857, 015	10, 118, 713	34, 045, 316	60, 471, 716	26, 426, 400
1929 [6]	206, 811	8, 380, 536	10, 909, 815	37, 441, 140	68, 178, 340	30, 737, 200
1931 [6]	171, 450	6, 136, 144	6, 688, 541	21, 229, 356	39, 829, 888	18, 600, 532
1933 [6]	139, 325	5, 787, 611	4, 940, 146	16, 549, 788	30, 557, 328	14, 007, 540
1935 [6]	167, 916	7, 203, 794	7, 311, 329	[7] 26, 441, 145	44, 993, 699	[8] 18, 552, 553
1937 [6]	166, 794	8, 569, 231	10, 112, 883	[7] 35, 539, 333	60, 712, 872	[8] 25, 173, 539

[1] See second paragraph of general note.
[2] Value of products less cost of materials, containers, fuel, and purchased electric energy.
[3] For all establishments having products valued at $500 or more. [4] Reduced to gold basis.
[5] Figures for "Gas, manufactured, illuminating and heating" and "Railroad repair shops" have been excluded beginning 1899.
[6] For all establishments having products valued at $5,000 or more. [7] Includes cost of contract work.
[8] Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and cost of contract work from value of products. Not strictly comparable with years prior to 1935.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

No. 809.—Population, Wage Earners, and Production—Indexes: 1899 to 1937

Note.—See general note, p. 772

Census year	Population	Wage earners	Production (quantity)	Production per wage earner	Census year	Population	Wage earners	Production (quantity)	Production per wage earner
1899	100	100	100	100	1925	154	178	275	154
1904	110	115	122	106	1927	158	178	274	154
1909	121	139	159	114	1929	162	190	311	164
1914	131	147	170	116	1931	166	140	206	147
1919	140	191	214	112	1933	168	131	192	147
1921	145	147	169	115	1935	170	163	233	143
1923	149	186	263	141	1937	173	194	303	156

No. 810.—Manufacturing Establishments Classified According to Number of Wage Earners: 1935 and 1937

Note.—See general note, p. 772

Number of wage earners	1935				1937			
	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	**167, 916**	**7, 203, 794**	**100. 0**	**100. 0**	**166, 794**	**8, 569, 231**	**100. 0**	**100. 0**
None	6, 896		4. 1		6, 885		4. 1	
1 to 5	70, 033	190, 189	41. 7	2. 6	62, 164	170, 174	37. 3	2. 0
6 to 20	46, 136	509, 255	27. 5	7. 1	46, 402	514, 487	27. 8	6. 0
21 to 50	20, 910	674, 900	12. 5	9. 4	23. 138	750, 922	13. 9	8. 8
51 to 100	10, 373	741, 823	6. 2	10. 3	11, 911	852, 373	7. 1	9. 9
101 to 250	8, 251	1, 292, 789	4. 9	17. 9	9, 745	1, 522, 670	5. 8	17. 8
251 to 500	3, 141	1, 086, 782	1. 9	15. 1	3, 911	1, 363, 000	2. 3	15. 9
501 to 1,000	1, 421	976, 462	. 8	13. 6	1, 660	1, 133, 323	1. 0	13. 2
1,001 to 2,500	579	852, 550	. 3	11. 8	737	1, 080, 534	. 4	12. 6
2,501 or more	176	879, 044	. 1	12. 2	241	1, 181, 748	. 1	13. 8

No. 811.—Manufacturing Establishments Classified By Value of Products: 1937

Note.—See general note, p. 772

Class of establishments according to value of products	Establishments		Wage earners		Value of products		Value added by manufacture	
	Number	Percent distribution	Average number	Percent distribution	Amount (thousands of dollars)	Percent distribution	Amount (thousands of dollars)	Percent distribution
Total	**166, 794**	**100. 0**	**8, 569, 231**	**100. 0**	**60, 712, 872**	**100. 0**	**25, 173, 539**	**100. 0**
$5,000 to $19,999	50, 548	30. 3	161, 896	1. 9	576, 966	1. 0	327, 065	1. 3
$20,000 to $49,999	37, 611	22. 5	305, 036	3. 6	1, 214, 034	2. 0	659, 544	2. 6
$50,000 to $99,999	23, 661	14. 2	385, 439	4. 5	1, 683, 661	2. 8	879, 270	3. 5
$100,000 to $249,999	23, 422	14. 0	763, 574	8. 9	3, 729, 973	6. 1	1, 799, 924	7. 2
$250,000 to $499,999	12, 763	7. 7	857, 354	10. 0	4, 511, 524	7. 4	2, 076, 254	8. 2
$500,000 to $999,999	8, 908	5. 3	1, 128, 224	13. 2	6, 279, 012	10. 3	2, 834, 843	11. 3
$1,000,000 to $2,499,999	6, 098	3. 7	1, 517, 198	17. 7	9, 396, 818	15. 5	4, 157, 931	16. 5
$2,500,000 to $4,999,999	2, 132	1. 3	1, 021, 809	11. 9	7, 337, 152	12. 1	3, 251, 715	12. 9
$5,000,000 and over	1, 651	1. 0	2, 428, 701	28. 3	25, 983, 732	42. 8	9, 186, 995	36. 5

Source of tables 809, 810 and 811: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 812.—Industrial Production—Indexes: 1920 to 1939

Note.—Monthly average, 1923-25=100. Since 1932 the manufactures index covers 47 series, the minerals index covers 7 series. Prior to 1932 copper smelted was also included in manufactures and copper mined was included in minerals. The monthly indexes in this table and those in table 813 have been adjusted for seasonal variations and for the varying number of working days in the month

Year	Total	Manufactures	Minerals	Year and month	Total	Manufactures	Minerals	Year and month	Total	Manufactures	Minerals
1920	87	87	89	1937:				1938—Con.			
1921	67	67	70	January	114	115	111	May	76	73	92
1922	85	86	74	February	116	116	116	June	77	74	92
1923	101	101	105	March	118	117	128	July	83	82	93
1924	95	94	96	April	118	118	115	August	88	87	95
1925	104	105	99	May	118	118	117	September	90	89	97
1926	108	108	108	June	114	114	115	October	96	95	98
1927	106	106	107	July	114	114	112	November	103	103	102
1928	111	112	106	August	117	117	113	December	104	104	109
1929	119	119	115	September	111	110	116				
1930	96	95	99	October	102	100	113	1939:			
1931	81	80	84	November	88	85	109	January	101	100	110
1932	64	63	71	December	84	79	115	February	99	97	110
1933	76	75	82					March	98	96	110
1934	79	78	86	1938:				April	92	92	95
1935	90	90	91	January	80	76	108	May	92	91	98
1936	105	105	105	February	79	75	103	June	98	97	104
1937	110	109	115	March	79	75	104				
1938	86	84	98	April	77	73	100				

No. 813.—Manufacturing Production—Indexes for Selected Industry Groups and Industries: 1920 to 1939

Note.—Monthly average, 1923-25=100. See headnote, table 812. In computing the group indexes, the individual products and industries have been weighted in accordance with their relative importance in 1923

Year and month	Total [1]	Iron and steel	Textiles	Slaughtering and meat packing	Newsprint production	Lumber, cut	Automobiles	Leather and products	Cement	Plate glass	Petroleum refining	Rubber tires and tubes [2]	Tobacco products
1920	87	99	84	82	101	86	58	97	67	(3)	64	(3)	87
1921	67	46	87	80	82	72	41	90	66	(3)	64	55	85
1922	86	82	99	88	97	87	66	102	76	(3)	74	77	89
1923	101	105	105	102	99	101	102	108	92	90	86	86	96
1924	94	89	91	104	98	98	91	95	100	92	99	98	99
1925	105	106	104	94	103	101	107	97	108	118	115	116	105
1926	108	113	104	92	112	98	108	99	110	130	127	116	112
1927	106	104	113	93	99	92	86	103	115	112	136	120	118
1928	112	119	107	96	94	91	110	102	118	132	152	144	124
1929	119	130	115	94	93	91	135	104	114	152	168	135	134
1930	95	94	91	90	86	64	85	92	108	107	161	100	131
1931	80	60	94	91	78	41	60	90	84	88	155	96	123
1932	63	31	83	89	68	25	35	85	51	53	140	78	111
1933	75	53	97	97	63	32	48	97	43	91	145	88	116
1934	78	60	85	110	64	32	69	100	52	94	152	92	128
1935	90	79	104	76	61	(3)	99	109	51	181	165	97	135
1936	105	110	111	92	62	(3)	112	115	75	199	183	111	152
1937	109	118	111	84	63	(3)	121	113	78	194	204	106	159
1938	84	66	92	88	55	(3)	63	103	71	86	200	79	159
1938													
January	76	52	75	92	57	(3)	65	94	59	62	201	65	157
February	75	50	79	86	53	(3)	62	103	57	35	195	55	157
March	75	49	81	83	53	(3)	54	105	65	42	191	60	160
April	73	49	74	84	46	(3)	54	104	67	42	197	62	159
May	73	47	77	84	53	(3)	49	105	69	44	198	64	163
June	74	46	87	81	51	(3)	46	91	69	80	193	70	154
July	82	62	97	83	54	(3)	43	103	71	77	200	81	154
August	87	70	110	89	53	(3)	45	109	67	89	203	90	161
September	89	75	103	98	57	(3)	46	103	69	107	206	95	160
October	95	90	100	95	58	(3)	84	101	80	155	208	99	150
November	103	108	112	94	63	(3)	96	107	84	155	208	100	164
December	104	101	117	86	61	(3)	99	123	82	153	201	112	179
1939													
January	100	93	109	87	61	(3)	105	124	69	147	205	110	165
February	97	88	109	83	61	(3)	98	124	80	133	201	109	162
March	96	83	110	89	62	(3)	91	121	90	131	202	114	164
April	92	79	97	90	63	(3)	87	115	81	83	209	104	164
May	91	73	104	94	65	(3)	73	113	75	89	211	102	170
June	97	89	111	87	63	(3)	81	108	79	124	215	112	170

[1] Includes industries not shown separately in this table. See also headnote, table 812.
[2] Monthly figures are not adjusted.
[3] Comparable data not available; estimated figures for lumber are included with the total for manufactures.

Source of tables 812 and 813: Board of Governors of the Federal Reserve System. Figures published monthly in Federal Reserve Bulletin.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937

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. See also general note, p. 772

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
All industries, total	1937	160,794	8,569,231	10,112,883	35,539,333	60,712,872	25,173,539
	1935	167,916	7,203,794	7,311,329	26,441,145	44,993,699	18,552,553
	1933	139,325	5,787,611	4,940,146	16,549,788	30,557,328	14,007,540
	1931	171,450	6,163,144	6,688,541	21,229,356	39,829,888	18,600,532
Food and kindred products, total	1937	48,727	888,298	977,776	7,911,368	11,265,610	3,354,242
	1935	48,936	797,442	799,881	6,724,450	9,510,675	2,786,224
	1933	40,285	666,237	620,558	4,210,015	6,604,036	2,394,021
	1931	47,767	635,359	725,660	5,315,248	7,958,362	2,643,113
Animal products, total	1937	12,604	216,386	252,505	3,562,050	4,323,019	760,970
	1935	11,812	195,754	206,810	2,989,662	3,627,336	637,674
	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
Butter	1937	3,716	19,437	19,619	510,114	589,767	79,652
	1935	3,458	18,434	17,516	423,163	501,216	78,052
	1933	3,166	16,498	15,062	316,843	385,512	68,669
	1931	3,367	15,667	18,623	393,228	463,472	70,245
Canned and cured fish, crabs, shrimps, oysters, and clams.	1937	325	18,229	8,705	48,728	78,410	29,682
	1935	274	13,335	6,310	39,193	60,588	21,395
	1933	264	9,993	4,473	26,248	40,560	14,311
	1931	304	8,591	5,222	28,404	42,352	13,948
Cheese	1937	2,567	4,482	4,359	95,672	112,786	17,114
	1935	2,573	4,344	3,936	84,122	98,950	14,827
	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
Condensed and evaporated milk	1937	601	8,967	9,964	166,606	210,718	44,112
	1935	467	8,458	8,319	130,945	171,489	40,544
	1933	436	6,331	6,100	96,698	131,086	34,388
	1931	485	6,121	7,256	109,397	148,598	39,201
Ice cream	1937	2,885	18,664	21,269	143,587	282,003	138,416
	1935	2,447	17,321	19,104	101,276	209,685	108,408
	1933	2,118	14,367	16,145	66,315	158,386	92,072
	1931	2,948	17,810	25,416	110,504	268,515	158,011
Meat packing, wholesale	1937	1,160	127,477	170,386	2,386,090	2,787,358	401,267
	1935	1,223	116,620	136,468	2,030,924	2,362,369	331,445
	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
Poultry dressing and packing, wholesale.	1937	533	8,913	5,931	87,457	105,841	18,384
	1935	562	8,078	5,068	76,642	92,944	16,302
	1933	437	7,471	4,862	51,853	66,157	14,304
	1931	407	6,982	5,944	77,667	97,560	19,893
Sausage casings, not made in meat-packing establishments.[3]	1937	31	875	899	4,415	6,539	2,124
Sausage, meat puddings, headcheese, etc., not made in meat-packing establishments.[3]	1937	786	9,342	11,372	119,380	149,598	30,218
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.	1935	808	9,164	10,089	103,395	130,095	26,700
	1933	714	7,797	8,259	62,741	86,438	23,698
	1931	741	6,242	8,366	59,272	84,333	25,060

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[3] Shown as separate industry for first time in 1937; no comparable data for prior years.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Food, etc.—Continued.							
Vegetable products, except beverages, total.	1937	27,005	561,877	576,216	3,838,341	5,691,874	1,853,532
	1935	28,727	510,339	479,484	3,355,764	4,887,189	1,531,425
	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
Bread and other bakery products.	1937	17,193	239,388	293,994	727,022	1,426,163	699,141
	1935	19,068	218,423	248,532	670,040	1,235,073	565,032
	1933	14,830	182,382	196,672	427,495	919,778	492,313
	1931	17,718	183,161	239,331	505,477	1,190,048	684,571
Canned and dried fruits and vegetables; canned and bottled juices; preserves, jellies, fruit butters, pickles, and sauces.	1937	2,772	137,064	92,638	498,562	788,927	290,366
	1935	2,744	116,298	70,612	409,241	649,644	240,403
	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
Cereal preparations	1937	112	8,133	10,792	94,906	164,495	69,589
	1935	110	7,890	8,526	82,438	146,681	64,243
	1933	103	7,115	7,270	55,015	111,026	56,011
	1931	111	7,018	9,005	69,427	141,583	72,157
Chewing gum	1937	25	2,401	2,967	16,888	56,722	39,833
	1935	26	2,315	2,417	14,985	47,766	32,781
	1933	31	[4] 2,252	[4] 2,232	12,599	41,654	29,055
	1931	35	2,147	2,464	16,824	51,340	34,516
Chocolate and cocoa products, not including confectionery.	1937	40	7,402	8,129	74,131	102,346	28,215
	1935	44	8,291	7,996	66,407	93,047	26,639
	1933	54	6,460	6,115	41,572	67,754	26,182
	1931	55	5,677	6,649	50,045	87,346	37,301
Confectionery	1937	1,226	53,722	43,441	182,781	305,839	123,058
	1935	1,314	52,109	39,252	153,738	259,889	106,151
	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
Corn sirup, corn sugar, corn oil, and starch.	1937	27	7,010	10,411	96,462	135,820	39,358
	1935	36	7,337	8,436	70,263	103,632	33,369
	1933	28	7,591	8,575	47,420	93,361	45,941
	1931	43	6,652	7,963	54,034	98,723	44,690
Feeds, prepared, for animals and fowls.	1937	1,126	14,397	15,839	338,505	415,211	76,706
	1935	942	11,606	11,068	230,622	288,662	58,040
	1933	710	8,791	7,866	122,070	161,343	39,273
	1931	796	8,449	9,402	162,734	209,921	47,187
Flavoring extracts, flavoring sirups, and related products.	1937	398	4,162	4,274	46,280	117,897	71,617
	1935	407	2,902	2,651	29,185	67,875	38,690
	1933	383	2,287	2,184	20,333	54,169	33,836
	1931	626	5,204	6,877	48,575	119,238	70,663
Flour and other grain-mill products.	1937	2,238	26,390	30,186	722,711	856,310	133,600
	1935	2,193	26,495	27,105	716,222	853,219	136,997
	1933	1,932	23,207	22,591	[4] 432,671	[4] 567,003	[4] 134,332
	1931	2,412	22,840	27,298	461,091	598,041	136,950
Food preparations not elsewhere classified.	1937	1,049	16,794	15,367	200,808	278,639	77,831
	1935	1,029	14,138	12,126	158,541	222,606	64,065
	1933	802	10,664	8,992	100,609	152,754	52,144
	1931	782	8,939	9,120	90,171	147,546	57,375
Macaroni, spaghetti, vermicelli, and noodles.	1937	319	6,452	5,719	32,836	50,359	17,522
	1935	336	6,005	5,306	31,811	47,599	15,787
	1933	296	5,492	4,265	20,385	35,892	15,507
	1931	309	4,764	4,474	20,311	36,225	15,914

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[4] Revised: revision not carried into subgroup or group total.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Food, etc.—Continued.							
Malt [5]	1937	56	1,644	2,923	76,118	94,630	18,512
	1935	54	1,439	2,348	56,412	75,118	18,706
	1933	30	848	1,283	20,662	27,923	7,261
	1931	27	540	866	13,920	19,242	5,322
Oleomargarine (margarine) not made in meat-packing establishments.	1937	16	1,214	1,607	30,987	44,563	13,575
	1935	14	1,176	1,303	23,293	32,402	9,109
	1933	16	841	855	8,312	12,766	4,454
	1931	32	1,043	1,352	15,269	22,818	7,548
Rice cleaning and polishing	1937	61	2,218	1,356	38,816	46,853	8,037
	1935	68	2,025	1,312	34,214	44,113	9,899
	1933	50	1,636	1,022	22,597	30,683	7,987
	1931	55	1,503	1,276	31,813	40,360	8,547
Shortenings (other than lard), vegetable cooking oils, and salad oils.	1937	48	4,901	5,651	204,383	239,495	35,112
	1935	48	4,845	4,709	177,976	212,689	34,713
	1933	49	3,658	3,217	68,149	85,830	17,681
	1931	50	3,692	4,011	99,841	115,302	15,461
Sugar, beet	1937	87	9,366	11,733	68,996	107,396	38,399
	1935	77	9,232	9,338	71,142	95,160	24,017
	1933	84	10,706	10,884	76,127	127,133	51,006
	1931	67	6,241	7,548	62,325	85,673	23,348
Sugar, cane, not including products of refineries.	1937	72	4,221	2,380	20,722	29,151	8,429
	1935	74	2,944	1,530	18,298	26,281	7,983
	1933	67	2,371	1,228	11,594	18,233	6,639
	1931	68	2,032	1,333	10,008	13,981	3,973
Sugar refining, cane	1937	23	14,024	15,973	362,653	424,631	61,978
	1935	18	13,832	13,914	336,177	377,214	41,038
	1933	19	11,495	12,237	281,536	337,075	55,539
	1931	19	11,865	15,547	335,933	395,303	59,370
Vinegar and cider	1937	117	974	836	3,774	6,427	2,653
	1935	125	1,037	1,002	4,761	8,518	3,758
	1933	121	844	724	3,943	6,631	2,687
	1931	137	848	885	4,249	7,506	3,257
Beverages and ice, total	1937	9,118	110,035	149,055	510,977	1,250,717	739,740
	1935	8,397	91,349	113,588	379,025	996,150	617,125
	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
Beverages, nonalcoholic	1937	3,920	27,979	30,981	112,380	276,779	164,399
	1935	3,175	16,778	17,343	62,094	159,298	97,204
	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
Ice, manufactured	1937	3,847	18,705	21,603	27,517	136,542	109,025
	1935	3,850	19,032	20,635	28,048	128,385	100,337
	1933	[4] 3,699	21,332	22,849	26,959	139,263	112,304
	1931	4,111	25,217	33,656	35,078	192,027	156,949
Liquors, distilled [6]	1937	151	6,215	7,412	73,200	113,103	39,903
	1935	131	8,152	8,361	76,520	152,875	76,355
	1933	*31*	*1,661*	*1,471*	*14,560*	*34,293*	*19,784*
	1933	51	2,514	2,476	23,916	60,850	36,935
	1931	27	997	1,331	13,132	21,741	8,608

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[4] Revised; revision not carried into subgroup or group total.
[5] Figures for 1937 and 1935 not strictly comparable with those for earlier years, because of inclusion of data for malthouses, first reported separately by breweries for 1935.
[6] At the 1935 census ethyl alcohol was assigned to "Chemicals, n. e. c." and "Liquors, rectified, etc.," were separately classified. The 1933 figures in italics have been adjusted for comparison with 1935 and 1937.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Food, etc.—Continued.							
Liquors, malt	1937	653	47,037	79,275	201,917	537,105	335,189
	1935	666	39,169	60,615	139,918	420,030	280,112
	[7] 1933	525	23,501	33,480	76,194	[4] 229,961	[4] 153,767
Liquors, rectified and blended	1937	210	7,094	6,732	72,378	144,455	72,077
	[8] 1935	260	5,883	4,527	57,128	99,130	42,002
Liquors, vinous	1937	337	3,005	3,051	23,586	42,733	19,147
	1935	315	2,335	2,107	15,317	36,432	21,116
	1933	212	1,262	972	9,302	24,084	14,782
	1931	14	96	119	381	949	568
Textiles and their products, total	1937	20,616	1,814,387	1,549,559	4,089,124	7,061,609	2,972,485
	1935	22,847	1,687,737	1,371,173	3,531,972	6,060,834	2,528,862
	1933	19,295	1,476,794	1,018,687	2,531,298	4,810,960	2,279,662
	1931	23,786	1,422,991	1,240,048	3,021,880	5,855,546	2,833,666
Textile mill products, total	1937	6,279	1,125,514	957,003	2,252,972	3,986,881	1,733,908
	[9] 1935	6,699	1,063,307	837,956	[10] 1,918,282	3,347,137	[10] 1,428,855
	[9] 1933	6,208	967,315	658,660	1,410,791	2,714,070	1,303,279
	[9] 1931	6,818	899,607	755,284	1,527,216	3,024,190	1,496,974
Carpets and rugs, total	[11] 1937	114	34,580	36,193	97,190	183,526	86,337
	[11] 1935	123	30,487	30,443	62,573	127,588	65,015
	1933	87	22,194	18,836	30,809	73,885	43,016
	1931	118	24,217	25,285	40,200	92,411	52,211
Carpets and rugs, paper-fiber and grass.	1937	9	788	768	1,220	3,152	1,932
	1935	12	692	572	824	2,092	1,268
	1933	7	221	186	228	609	382
	1931	6	311	258	297	875	578
Carpets and rugs, rag	1937	35	429	280	647	1,336	689
	1935	40	986	943	1,514	4,028	2,514
	1933	26	677	464	609	1,851	1,242
	1931	51	1,003	918	1,026	3,332	2,306
Carpets and rugs, wool (other than rag).	1937	55	30,779	32,171	83,574	162,187	78,613
	1935	55	27,633	27,710	56,234	115,257	59,023
	1933	54	21,296	18,186	30,032	71,425	41,393
	1931	61	22,903	24,109	38,876	88,204	49,328
Carpet yarn, woolen and worsted	1937	15	2,584	2,973	11,749	16,851	5,103
	[8] 1935	16	1,176	1,218	4,002	6,211	2,209
Cordage and twine; jute goods; linen goods, total.	1937	162	22,427	18,501	55,033	98,425	43,392
	1935	148	18,609	13,949	34,542	68,858	34,316
	1933	142	16,986	11,091	25,314	55,546	30,233
	1931	151	16,439	12,926	32,736	65,574	32,838
Cordage and twine	1937	118	14,043	11,683	38,022	66,418	28,396
	1935	112	12,260	9,074	23,743	46,956	23,213
	1933	110	11,145	7,373	18,284	38,714	20,429
	1931	117	11,087	8,627	24,402	47,557	23,155
Jute goods [12]	1937	32	6,522	5,190	13,174	25,565	12,391
	1935	24	4,595	3,521	7,360	16,294	8,934
	1933	20	4,248	2,563	4,813	12,463	7,651
	1931	20	3,785	2,881	5,824	12,791	6,967

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[7] No comparable figures available for 1931.
[8] No comparable figures available for earlier years.
[9] Revised by adding figures for "Hats and caps, except felt and straw," formerly included in the "Cutting-up" industries.
[10] Because of changes in classification the figures below will not add to these totals.
[11] Figures not strictly comparable with those for 1933 and 1931.
[12] Because of changes in classification of certain establishments, the figures for earlier years are not strictly comparable with those for 1937.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Textiles, etc.—Continued.							
Linen goods	1937	12	1,802	1,628	3,836	6,441	2,605
	1935	12	1,754	1,354	3,439	5,607	2,168
	1933	12	1,593	1,156	2,216	4,370	2,153
	1931	14	1,567	1,417	2,510	5,226	2,716
Cotton manufactures, total	[11] 1937	1,237	435,428	324,083	[13] 705,069	1,274,295	[13] 569,226
	[11] 1935	1,223	383,002	247,844	637,729	1,030,768	393,039
	1933	1,242	393,105	226,758	495,399	901,956	406,557
	1931	1,327	343,360	231,736	[13] 425,832	850,466	[13] 424,634
Cotton narrow fabrics	1937	156	12,616	11,131	22,115	43,486	21,371
	1935	170	13,466	11,107	23,017	44,593	21,576
	1933	172	13,237	10,059	17,558	38,890	21,331
	1931	174	12,826	11,617	19,693	41,991	22,298
Cotton woven goods (over 12 inches in width).	1937	677	336,104	255,655	[13] 525,947	967,110	[13] 441,163
	1935	670	295,648	192,769	478,929	768,738	289,809
Cotton yarn and thread	1937	395	86,206	56,834	[13] 155,093	260,604	[13] 105,510
	1935	372	73,414	43,570	134,103	214,835	80,731
Cotton woven goods (over 12 inches in width) and cotton yarn and thread.	1933	1,057	379,445	216,384	476,769	861,170	384,401
	1931	1,140	329,962	219,680	[13] 404,855	805,792	[13] 400,937
Fish nets and seines	1937	9	502	463	1,914	3,095	1,181
	1935	11	474	399	1,680	2,602	923
	1933	13	423	315	1,072	1,895	824
	1931	13	572	438	1,283	2,682	1,399
Dyeing and finishing cotton, rayon, and silk, total.	1937	533	74,982	75,730	135,795	283,262	147,468
	[8] 1935	523	71,380	66,225	105,994	223,662	117,668
Dyeing and finishing, cotton fabric.	1937	246	49,635	49,112	106,171	204,052	97,881
	[8] 1935	245	43,319	38,348	74,672	144,128	69,456
Dyeing and finishing, rayon-and silk-fabric.	1937	159	18,003	19,633	22,809	57,599	34,791
	[8] 1935	146	20,836	21,505	24,548	59,387	34,839
Dyeing and finishing yarn (cotton, rayon, and silk)—for sale or on commission.	1937	128	7,344	6,986	6,815	21,611	14,796
	[8] 1935	132	7,225	6,372	6,773	20,147	13,374
Felt goods, except woven felts	1937	39	3,711	4,529	18,649	29,649	11,000
	[8] 1935	40	3,576	3,438	13,505	23,697	10,192
Hats, caps, and hat and cap materials, total.	1937	528	28,892	29,199	66,437	122,815	56,378
	[9] 1935	617	26,862	27,718	56,410	107,322	50,912
	[9] 1933	547	23,269	19,688	38,573	77,292	38,718
	[9] 1931	671	23,844	26,452	53,772	106,817	53,045
Hats and caps, except felt and straw, men's.	1937	258	3,460	2,934	5,928	11,730	5,802
	1935	315	3,796	3,518	7,052	14,257	7,205
	1933	299	4,053	2,968	6,181	12,659	6,478
	1931	379	3,459	3,662	8,173	16,867	8,694
Hats, fur felt	1937	140	15,926	17,705	34,732	66,775	32,042
	1935	152	14,660	16,454	27,645	55,907	28,262
	1933	117	12,540	11,935	19,138	40,600	21,462
	1931	138	14,084	16,538	29,509	59,616	30,107

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[8] No comparable figures available for earlier years.
[9] Revised by adding figures for "Hats and caps, except felt and straw," formerly included in the "Cutting-up" industries.
[11] Figures not strictly comparable with those for 1933 and 1931.
[13] Not strictly comparable with 1935 and 1933 because of the inclusion of processing taxes in the cost of materials, etc,. for those years.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Textiles, etc.—Continued.							
Hat and cap materials, men's	1937	69	2,444	2,154	10,091	15,216	5,125
	1935	88	2,483	2,206	8,875	13,604	4,729
	1933	76	1,898	1,465	6,199	9,716	3,517
	1931	95	1,935	2,077	6,554	11,010	4,456
Hats, straw, men's	1937	47	3,024	2,692	7,138	13,622	6,484
	1935	50	2,918	2,644	7,471	12,369	4,898
	1933	46	3,147	2,056	5,217	9,947	4,730
	1931	50	2,823	2,784	7,253	13,892	6,639
Hat bodies, carded wool felt	1937	14	4,038	3,714	8,547	15,473	6,926
	1935	12	3,005	2,896	5,367	11,185	5,818
	1933	9	1,631	1,264	1,838	4,369	2,531
	1931	9	1,543	1,390	2,283	5,432	3,149
Knit goods, total	[11] 1937	1,821	231,064	199,057	329,489	659,974	330,485
	[11] 1935	1,352	219,776	184,478	315,573	606,726	291,153
	1933	1,577	189,698	132,030	[14] 249,356	498,350	248,993
	1931	1,706	178,011	149,589	[14] 296,687	585,677	288,990
Gloves and mittens, knitted	1937	15	3,182	2,121	2,330	5,795	3,465
Hosiery	[11] 1937	745	150,460	136,264	159,917	361,576	201,658
	[11] 1935	695	138,021	121,377	146,562	315,187	168,625
	1933	614	117,919	82,959	[14] 120,356	263,710	143,354
	1931	621	112,374	95,129	[14] 156,051	331,209	175,158
Knitted cloth	1937	213	11,360	10,558	44,298	68,001	23,703
	1935	213	11,370	9,486	43,483	64,030	20,547
	1933	167	8,956	7,246	[14] 33,388	49,892	16,505
	1931	157	7,544	7,171	[14] 36,628	53,043	16,415
Knitted outerwear—regular factories.	1937	505	23,424	19,504	58,867	102,244	43,378
Knitted outerwear—contract factories.	1937	164	2,715	2,050	658	4,592	3,934
Knitted outerwear [15]	1935	758	35,455	30,170	71,599	131,455	59,856
	1933	601	26,908	19,574	[14] 50,681	92,547	41,866
	1931	710	26,142	24,744	[14] 59,070	111,573	52,502
Knitted underwear	1937	179	39,923	28,560	63,419	117,767	54,348
	1935	186	34,930	23,445	53,929	96,054	42,124
	1933	195	35,915	22,251	[14] 44,931	92,200	47,269
	1931	218	31,951	22,545	[14] 44,938	89,853	44,916
Lace goods	1937	57	8,109	9,037	10,534	28,342	17,809
	1935	56	7,858	8,686	10,940	27,528	16,588
	1933	44	5,911	5,582	[14] 5,813	16,929	11,116
	1931	42	6,043	6,289	6,123	19,162	13,040
Rayon and silk manufactures, total.	1937	848	116,839	92,440	248,270	404,735	156,465
	[8] 1935	1,105	125,908	95,479	197,811	354,226	156,415
Rayon broad woven goods (18 inches wide and over).	1937	237	57,949	48,946	149,192	229,773	80,581
	[8] 1935	274	58,508	46,593	103,306	174,598	71,292
Rayon narrow fabrics	1937	112	5,568	4,830	8,347	18,535	10,188
	[8] 1935	92	3,399	2,727	4,199	9,845	5,646
Rayon throwing and spinning—commission only.	1937	25	1,937	1,191	472	2,400	1,927
	[8] 1935	45	5,270	3,147	1,145	6,014	4,869

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[8] No comparable figures available for earlier years.
[11] Figures not strictly comparable with those for 1933 and 1931.
[14] Revised to include cost of contract work.
[15] Includes data for knitted gloves and mittens for 1935 and prior census years.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Textiles, etc.—Continued.							
Rayon yarn and thread—processed for sale.	1937	51	5,399	3,652	14,800	21,729	6,929
	[8] 1935	36	3,141	2,485	8,741	14,048	5,306
Silk broad woven goods (18 inches wide and over).	1937	194	17,597	14,010	38,886	63,098	24,212
	[8] 1935	396	27,104	21,249	52,903	90,286	37,382
Silk narrow fabrics	1937	81	4,527	4,201	5,525	13,770	8,245
	[8] 1935	91	4,515	4,173	4,734	13,254	8,519
Silk throwing and spinning—commission only.	1937	96	13,290	7,789	3,633	15,278	11,645
	[8] 1935	132	16,480	9,693	3,563	17,469	13,907
Silk yarn and thread—made for sale.	1937	52	10,572	7,820	27,415	40,152	12,737
	[8] 1935	39	7,491	5,413	19,219	28,712	9,494
Waste and related products, total.[16]	1937	236	10,205	9,155	50,486	75,055	24,569
	[8] 1935	313	9,245	7,347	42,446	66,022	23,576
Batting, padding, and wadding; upholstery filling.[16]	1937	110	4,645	4,353	23,888	36,870	12,982
	[8] 1935	110	3,248	2,592	15,853	25,631	9,778
Processed waste and recovered wool fiber—for sale.	1937	126	5,560	4,801	26,598	38,185	11,587
	1935	203	5,997	4,755	26,593	40,391	13,798
	1933	168	4,563	2,920	15,178	25,244	10,067
	1931	172	4,222	3,171	13,555	22,295	8,740
Wool and hair manufactures, total.	1937	704	159,277	159,080	536,021	826,802	290,781
	[8] 1935	699	166,604	152,349	440,532	710,740	270,209
Woolen and worsted dyeing and finishing.	1937	53	2,563	2,807	4,675	11,063	6,387
	[8] 1935	66	3,369	3,406	6,852	16,065	9,214
Woolen woven goods, including woven felts.	1937	332	61,931	62,598	173,054	288,748	115,694
	[8] 1935	323	64,986	60,451	135,377	246,928	111,551
Woolen yarn	1937	41	2,749	2,777	8,594	13,558	4,965
	[8] 1935	43	2,909	2,567	7,356	11,596	4,241
Wool scouring	1937	20	1,252	1,393	1,916	4,550	2,635
	1935	20	1,527	1,765	2,115	6,055	3,940
	1933	20	1,395	1,418	1,189	4,404	3,215
	1931	21	1,377	1,968	1,160	4,640	3,480
Wool combing—commission, and tops for sale.	1937	11	3,252	3,558	4,574	10,299	5,726
	[8] 1935	12	2,648	2,616	3,541	8,045	4,504
Worsted woven goods	1937	176	70,227	71,101	276,905	408,842	131,937
	[8] [17] 1935	167	72,068	66,138	226,531	338,442	111,911
Worsted yarn	1937	71	17,303	14,847	66,303	89,741	23,438
	[8] 1935	68	19,097	15,405	58,760	83,609	24,849
The cutting-up industries, total.	[18] 1937	13,217	661,767	562,691	1,747,222	2,907,211	1,159,989
	1935	14,952	602,513	510,074	1,544,852	2,580,706	1,035,853
	1933	12,127	491,420	343,315	1,073,988	1,993,527	919,539
	1931	15,665	503,600	460,964	1,441,947	2,708,665	1,266,718

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[8] No comparable figures available for earlier years.
[16] Excludes data for wiping rags for 1937 because not considered a manufactured product. Such data were included for 1935.
[17] Revised to include data for "Haircloth," which has been abandoned as a separate classification.
[18] Because of the fact that some establishments, such as those in all apparel industries, lose their identity during a 2-year period through change of name, ownership, and location, and, therefore, may be missed by a canvass made largely by mail, the 1937 statistics are not complete.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Textiles, etc.—Continued.							
Men's, youths', and boys' clothing, not elsewhere classified, total.	[8] 1937	2,217	138,314	142,257	358,403	618,197	259,794
Clothing, men's, youths', and boys', not elsewhere classified—regular factories.	[8] 1937	1,282	94,361	101,042	353,884	558,997	205,113
Clothing, men's, youths', and boys', not elsewhere classified—contract factories.	[8] 1937	935	43,953	41,216	4,519	59,200	54,681
Men's and boys' cotton, leather, and allied garments, total.	[8] 1937	1,573	166,300	100,408	293,950	477,563	183,613
Clothing, leather and sheep-lined	[8] 1937	78	4,075	3,720	14,399	20,973	6,573
Clothing, work (including work shirts), and sport garments, except leather.	[8] 1937	675	69,502	41,265	132,868	204,390	71,522
Shirts (except work shirts), collars, and nightwear—regular factories.	1937	409	55,570	34,948	102,835	174,988	72,154
Shirts (except work shirts), collars, and nightwear—contract factories.	1937	120	12,024	6,107	1,214	9,240	8,025
Shirts and nightwear (and collars)	[8] 1935	555	60,777	38,059	94,053	159,769	65,716
Trousers (semidress), wash suits, and washable service apparel.	[8] 1937	232	15,817	9,532	28,779	46,778	17,999
Underwear, men's—regular factories.	1937	50	7,888	4,213	13,707	20,285	6,578
Underwear, men's—contract factories.	1937	9	1,424	623	148	910	762
Underwear, men's	[8] 1935	65	7,655	4,021	11,654	18,968	7,314
Miscellaneous apparel and allied products, total.	[8] 1937	502	20,803	15,654	59,425	95,676	36,251
Furnishing goods, men's, not elsewhere classified—regular factories.	[18] 1937	333	12,144	9,794	37,080	60,064	22,984
Furnishing goods, men's, not elsewhere classified—contract factories.	[18] 1937	31	759	533	81	854	773
Furnishing goods, not elsewhere classified.	[8] 1935	427	11,185	9,615	32,294	56,528	24,234
Handkerchiefs—regular factories	1937	58	4,065	2,548	13,470	18,776	5,306
Handkerchiefs — contract factories.	1937	16	932	586	134	944	810

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[8] No comparable figures available for earlier years.
[18] Because of the fact that some establishments, such as those in all apparel industries, lose their identity during a two-year period through change of name, ownership, and location, and, therefore, may be missed by a canvass made largely by mail, the 1937 statistics are not complete.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Textiles, etc.—Continued.							
Handkerchiefs	1935	89	4,889	3,216	11,210	18,443	7,233
	1933	74	4,701	2,442	8,060	14,924	6,864
	1931	88	4,761	3,221	10,255	18,798	8,543
Suspenders, garters, and other elastic woven goods, made from purchased webbing.	1937	64	2,903	2,193	8,660	15,038	6,379
	1935	74	2,719	1,956	8,578	14,659	6,080
	1933	62	2,617	1,827	[14] 8,150	12,781	4,631
	1931	71	3,257	2,442	9,995	17,165	7,170
Gloves and mittens, cloth or cloth and leather combined, made from purchased materials.	1937	107	12,679	7,847	18,705	32,560	13,855
	1935	115	8,048	4,488	10,333	18,940	8,608
	1933	91	8,586	3,547	8,743	16,012	7,270
	1931	106	7,101	3,319	8,912	14,539	5,627
Women's, misses', and children's apparel not elsewhere classified, total.	[8] [18] 1937	6,337	242,879	225,615	724,549	1,213,202	488,653
Blouses, women's, misses', and children's—regular factories.	[8] 1937	128	3,850	3,350	16,774	26,785	10,010
Blouses, women's, misses', and children's—contract factories.	[8] 1937	64	2,554	1,661	145	2,435	2,290
Outerwear, children's and infants'—regular factories.	[8] 1937	346	15,962	13,295	46,731	77,522	30,791
Outerwear, children's and infants'—contract factories.	[8] 1937	106	5,157	3,308	276	4,941	4,665
Coats, suits, and separate skirts, women's, misses', and juniors'—regular factories.	[8] 1937	1,005	20,690	29,708	201,551	290,124	88,572
Coats, suits, and separate skirts, women's, misses', and juniors'—contract factories.	[8] 1937	762	18,923	22,004	2,163	31,097	28,934
Dresses, except house dresses—regular factories.	[8] 1937	1,147	48,217	54,278	258,464	403,074	144,610
Dresses: except house dresses—contract factories.	[8] 1937	1,275	43,874	42,655	2,635	58,503	55,868
Dresses: House dresses, uniforms, and aprons—regular factories.	[8] 1937	403	28,250	17,165	55,684	93,892	38,208
Dresses: House dresses, uniforms, and aprons—contract factories.	[8] 1937	79	4,039	2,203	278	3,242	2,964
Underwear and nightwear of cotton and flannelette woven fabric, women's, children's, and infants'.	[8] 1937	122	8,835	5,511	19,600	30,050	10,450
Underwear and nightwear of knitted fabric, women's, children's, and infants'.	[8] 1937	113	10,453	6,562	21,418	36,373	14,955

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[8] No comparable figures available for earlier years.
[14] Revised to include cost of contract work.
[18] Because of the fact that some establishments, such as those in all apparel industries, lose their identity during a 2-year period through change of name, ownership, and location, and, therefore, may be missed by a canvass made largely by mail, the 1937 statistics are not complete.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Textiles, etc.—Continued.							
Clothing, women's, misses', and children's, not elsewhere classified—regular factories.	[5] 1937	654	26,897	20,613	98,374	149,958	51,585
Clothing, women's, misses', and children's, not elsewhere classified—contract factories.	[8] 1937	133	5,178	3,304	455	5,207	4,752
Millinery, total	1937	755	21,560	22,921	41,007	88,242	47,235
	1935	1,033	22,770	23,988	40,042	88,989	48,947
	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
Millinery—regular factories	[8] 1937	723	21,321	22,654	40,855	87,544	46,690
Millinery—contract factories	[8] 1937	32	239	268	152	697	545
Corsets and allied garments	1937	215	16,385	13,255	32,514	70,789	38,274
	1935	241	15,635	12,036	32,532	66,947	34,415
	1933	179	14,017	9,388	29,034	58,092	29,058
	1931	204	13,977	11,496	31,694	71,923	40,229
Fabricated textile products other than wearing apparel, total.	1937	1,511	42,847	34,733	218,669	310,982	92,313
	[8] 1935	1,561	32,503	25,399	163,462	236,683	73,222
Awnings, tents, sails, and canvas covers.[10]	1937	367	4,732	4,844	17,506	30,324	12,818
	[8] 1935	421	3,987	3,974	12,582	22,809	10,227
Bags, other than paper	1937	186	12,075	9,749	103,725	130,001	26,276
	1935	198	10,920	8,048	88,001	111,566	23,564
	1933	169	10,543	6,977	69,537	92,115	22,578
	1931	189	11,985	9,111	79,173	104,991	25,818
Curtains, draperies, and bedspreads—regular factories.	1937	284	8,934	5,908	37,253	52,517	15,264
Curtains, draperies, and bedspreads—contract factories.	1937	48	711	506	173	1,109	937
Curtains, draperies, and bedspreads.	[8] 1935	352	6,934	5,185	27,536	42,645	15,109
Housefurnishings, not elsewhere classified.	1937	404	11,346	9,230	44,710	69,391	24,681
	[8] 1935	421	7,737	5,902	28,918	46,433	17,515
Fabricated textile products not elsewhere classified.	1937	101	2,903	2,874	11,567	19,771	8,204
	[8] 1935	52	1,187	941	3,274	5,841	2,567
Flags, banners, regalia, vestments, robes, and related products.	1937	121	2,146	1,623	3,736	7,870	4,134
	1935	117	1,738	1,349	3,151	7,389	4,239
	1933	98	1,494	1,046	2,011	4,948	2,936
	1931	129	2,204	2,083	3,458	8,443	4,985
The processing industries, total.	1937	1,120	27,106	29,865	88,930	167,517	78,587
	1935	1,196	21,917	23,143	68,838	132,992	64,154
	1933	960	18,060	16,712	46,519	103,363	56,844
	1931	1,303	19,784	23,800	52,718	122,692	69,974

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[8] No comparable figures available for earlier years.
[10] Restricted to establishments with products valued at $20,000 or more.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Textiles, etc.—Continued.							
Embroideries; trimmings (not made in textile mills); stamped art goods, total.[12]	1937	1,071	15,189	13,314	28,234	57,908	29,674
	1935	1,147	11,859	10,839	21,620	46,273	24,653
	1933	912	9,765	7,949	[14] 16,608	35,314	18,706
	1931	1,252	11,773	13,183	18,361	50,533	32,171
Embroideries—Schiffli-machine products—regular factories.	1937	98	1,171	999	2,783	5,220	2,437
Embroideries—Schiffli-machine products—contract factories.	1937	173	1,586	1,418	1,668	4,969	3,301
Embroideries—Schiffli-machine products.	1935	308	2,360	2,162	4,263	9,618	5,355
Embroideries—Other than Schiffli-machine products—regular factories.	1937	47	548	459	676	1,632	956
Embroideries—Other than Schiffli-machine products—contract factories.	1937	267	3,394	2,859	1,472	6,956	5,485
Embroideries—Other than Schiffli-machine products.	1935	351	3,351	2,991	2,173	7,792	5,619
Embroideries (Schiffli-machine and other).	1933	547	4,652	3,874	[14] 4,261	12,194	7,933
	1931	732	5,561	6,330	[14] 6,851	20,224	13,373
Trimmings (not made in textile mills); stamped art goods—regular factories.	1937	203	4,362	3,710	20,241	30,285	10,044
Trimmings (not made in textile mills); stamped art goods—contract factories.	1937	283	4,128	3,870	1,394	8,847	7,452
Trimmings (not made in textile mills); stamped art goods.	1935	488	6,148	5,687	15,184	28,863	13,679
	1933	365	5,113	4,075	[14] 12,347	23,120	10,773
	1931	520	6,212	6,863	13,824	30,308	16,485
Artificial leather; oilcloth, total	1937	33	3,810	5,173	27,788	40,425	12,637
	1935	33	3,648	4,199	23,277	34,321	11,045
	1933	30	3,203	3,416	15,011	26,236	11,225
	1931	30	3,170	4,288	17,339	29,181	11,843
Artificial leather	1937	25	2,541	3,475	18,413	27,607	9,194
	1935	25	2,254	2,577	14,009	21,218	7,209
	1933	22	1,952	1,955	8,148	13,584	5,436
	1931	21	1,941	2,477	9,083	15,195	6,112
Oilcloth	1937	8	1,269	1,698	9,374	12,817	3,443
	1935	8	1,394	1,623	9,267	13,103	3,836
	1933	8	1,251	1,461	6,864	12,653	5,789
	1931	9	1,229	1,811	8,256	13,986	5,730
Asphalted-felt-base floor covering; linoleum, total.	1937	16	8,107	11,378	32,908	69,184	36,276
	1935	16	6,410	8,105	23,942	52,398	28,456
	1933	18	5,092	5,347	16,320	41,812	25,492
	1931	21	4,841	6,329	17,017	42,977	25,960

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[12] Because of changes in classification of certain establishments, the figures for earlier years are not strictly comparable with those for 1937.
[14] Revised to include cost of contract work.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Textiles, etc.—Continued.							
Asphalted-felt-base floor covering.	1937	13	3,280	4,773	17,630	33,548	15,918
	1935	12	2,694	3,480	12,558	28,371	15,814
	1933	13	2,271	2,546	9,564	22,714	13,150
	1931	15	1,946	2,734	9,151	19,993	10,842
Linoleum	1937	3	4,827	6,604	15,278	35,637	20,358
	1935	4	3,716	4,624	11,384	24,026	12,642
	1933	5	2,821	2,800	6,756	19,098	12,342
	1931	6	2,895	3,595	7,866	22,984	15,118
Forest products, total	1937	18,012	694,341	636,724	1,173,931	2,439,530	1,265,600
	1935	16,127	579,012	438,395	793,534	1,662,221	868,686
	1933	12,295	454,171	289,097	509,182	1,127,405	618,223
	1931	16,016	509,665	440,176	763,631	1,646,922	883,291
Basic industries, total	1937	8,692	326,394	276,113	369,805	880,540	510,735
	1935	6,924	283,309	190,125	230,939	573,291	342,352
	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
Excelsior	1937	52	960	730	1,335	3,033	1,698
	1935	48	831	532	1,031	2,444	1,413
	1933	50	809	432	863	2,094	1,231
	1931	61	927	683	1,412	2,983	1,571
Lumber and timber products not elsewhere classified.	1937	7,647	323,928	275,034	345,800	848,481	502,681
	1935	5,981	255,230	188,074	222,440	551,614	329,174
	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
Turpentine and rosin	1937	993	1,506	350	22,670	29,025	6,356
	1935	895	27,248	6,519	7,468	19,233	11,765
	1933	843	26,285	5,501	6,282	16,427	10,145
	1931	953	28,257	7,280	5,793	16,506	10,713
Wood-reworking industries, total.	1937	3,805	94,178	92,106	216,650	403,001	186,351
	1935	3,694	73,188	61,914	141,228	270,256	129,028
	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
Lasts and related products	1937	48	1,444	1,833	1,624	5,433	3,809
	1935	48	1,496	1,911	1,459	5,521	4,062
	1933	47	1,404	1,687	1,308	5,044	3,737
	1931	51	1,497	2,020	1,683	5,747	4,065
Planing-mill products and other wooden products not elsewhere classified, made in planing mills not connected with sawmills.	1937	2,858	66,814	67,745	174,795	312,552	137,758
	1935	2,753	48,297	42,179	109,108	196,272	87,164
	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
Window and door screens and weather strip.	1937	144	2,833	3,034	7,394	14,748	7,353
	1935	141	1,873	1,744	4,123	8,668	4,545
	1933	123	1,571	1,223	2,911	6,314	3,403
	1931	207	2,564	2,971	5,713	13,539	7,826
Wood turned and shaped and other wooden goods, not elsewhere classified.	1937	755	23,087	19,493	32,837	70,268	37,431
	1935	752	21,522	16,080	26,537	59,794	33,257
	1933	580	15,500	10,147	17,746	41,523	23,777
	1931	719	17,020	14,602	23,907	55,710	31,804
Wooden-container industries, total.	1937	1,294	48,173	36,169	87,624	160,350	72,726
	1935	1,344	45,122	29,600	70,113	130,486	60,373
	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

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Forest products—Continued.							
Baskets and rattan and willow ware, not including furniture.	1937	194	9,308	5,126	6,963	16,651	9,687
	1935	204	9,006	4,603	5,750	14,492	8,741
	1933	184	8,371	3,625	4,900	12,435	7,536
	1931	223	8,428	5,257	6,314	16,347	10,033
Boxes, cigar, wooden and part wooden.	1937	69	3,206	2,322	2,681	7,128	4,447
	1935	72	3,176	2,000	2,227	6,161	3,934
	1933	77	3,426	1,782	2,209	5,904	3,695
	1931	92	3,777	2,564	3,473	8,859	5,386
Boxes, wooden, except cigar boxes.	1937	634	25,981	19,544	45,454	86,347	40,893
	1935	661	23,061	15,015	32,165	63,278	31,113
	1933	595	21,753	12,515	29,056	54,995	25,938
	1931	675	22,864	17,572	39,705	74,667	34,962
Cooperage	1937	397	9,588	9,177	32,527	50,225	17,698
	1935	407	9,879	7,982	29,972	46,556	16,584
	1933	361	8,457	6,261	22,913	35,618	12,705
	1931	500	8,208	7,663	24,333	39,143	14,810
Furniture and related industries, total.	1937	3,283	173,984	176,529	315,376	676,781	361,406
	1935	3,221	133,772	116,741	214,387	447,441	233,054
	1933	2,566	108,298	78,421	145,924	305,960	160,035
	1931	3,340	131,310	130,077	223,071	497,197	274,125
Billiard and pool tables, bowling alleys, and accessories.	1937	23	530	538	1,838	5,547	3,709
	1935	17	314	290	1,059	3,145	2,086
	1933	17	407	228	514	1,123	609
	1931	32	592	613	1,396	3,761	2,366
Furniture, including store and office fixtures.	1937	3,097	170,072	172,558	308,304	658,467	350,163
	1935	3,035	130,781	113,898	209,151	434,444	225,293
	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
Mirror and picture frames	1937	163	3,382	3,433	5,234	12,767	7,534
	1935	169	2,677	2,552	4,177	9,852	5,675
	1933	138	2,403	1,847	2,823	7,107	4,284
	1931	160	3,113	3,492	3,780	11,146	7,367
Other allied industries, total.	1937	938	51,612	55,808	184,476	318,857	134,382
	1935	944	43,621	40,016	136,867	240,747	103,880
	1933	730	33,545	28,202	83,741	166,393	82,652
	1931	746	33,673	35,065	141,957	236,913	94,957
Caskets, coffins, burial cases, and other morticians' goods.	1937	521	13,678	15,120	33,628	71,757	38,128
	1935	548	13,779	13,817	29,479	65,653	36,174
	1933	396	12,155	11,837	25,674	58,740	33,066
	1931	399	11,932	14,225	28,519	69,810	41,291
Cork products	1937	35	3,599	4,136	13,905	21,783	7,879
	1935	34	3,033	2,776	7,268	13,987	6,719
	1933	30	2,797	2,168	5,277	11,604	6,327
	1931	31	3,018	3,027	6,617	14,877	8,260
Matches	1937	25	5,261	5,392	20,214	30,902	10,688
	1935	24	5,075	4,693	19,039	30,440	11,401
	1933	18	4,726	4,037	11,679	26,373	14,693
	1931	19	3,369	3,493	10,875	18,473	7,597
Synthetic-resin, cellulose-plastic, vulcanized-fiber, and molded and pressed pulp fabricated articles, not elsewhere classified.	1937	160	16,673	19,822	32,045	77,716	45,671
	1935	163	12,749	12,090	21,300	50,299	28,999
	1933	101	6,840	5,927	10,023	25,731	15,708
	1931	86	5,654	6,105	10,805	27,239	16,435

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Forest products—Continued.							
Wood preserving	1937	197	12,401	11,338	84,684	116,700	32,015
	1935	185	8,985	6,039	59,781	80,368	20,587
	1933	185	7,027	4,233	31,087	43,945	12,858
	1931	211	9,700	8,214	85,141	106,514	21,374
Paper and allied products, total	1937	3,053	264,455	307,270	1,208,154	2,060,849	852,695
	1935	2,945	235,665	235,725	887,346	1,523,186	635,840
	1933	2,697	196,380	172,842	654,647	1,172,743	518,096
	1931	2,883	194,581	214,337	758,010	1,357,582	599,572
Paper and pulp, total	1937	841	137,803	175,650	721,101	1,205,132	484,031
	1935	779	126,971	133,602	525,499	879,002	353,503
	1933	781	107,298	99,194	393,663	695,654	301,991
	1931	[20] 848	107,902	126,886	495,089	851,530	356,442
Pulp (wood and other fiber)	1937	194	26,994	33,570	153,652	247,192	93,540
	1935	188	23,627	23,401	96,178	167,208	71,030
	1933	181	20,074	18,103	81,896	134,692	52,796
	1931	[20] 198	20,219	22,844	110,668	166,559	55,891
Paper	1937	647	110,809	142,080	567,449	957,940	390,491
	1935	591	103,344	110,200	429,320	711,793	282,473
	1933	600	87,224	81,091	311,767	560,963	249,196
	1931	650	87,683	104,042	384,420	684,971	300,551
Converted paper products, total.	1937	2,212	126,652	131,619	487,053	855,717	368,664
	1935	2,166	108,694	102,123	361,847	644,185	282,338
	1933	1,916	89,082	73,648	260,984	477,089	216,105
	[20] 1931	2,069	89,186	89,936	271,005	520,921	249,916
Bags, paper, exclusive of those made in paper mills.	1937	107	10,360	9,850	53,424	82,458	29,034
	1935	107	9,120	8,038	41,766	65,564	23,798
	1933	96	7,665	5,813	29,296	49,379	20,084
	1931	95	6,836	6,423	33,427	54,291	20,864
Boxes, paper, not elsewhere classified.	1937	1,257	65,158	66,025	238,500	409,475	170,974
	1935	1,214	55,276	50,579	168,915	298,648	129,733
	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
Cardboard, not made in paper mills.	1937	16	877	814	2,925	5,379	2,454
	1935	16	628	641	1,947	3,694	1,748
	1933	12	492	452	1,406	2,793	1,388
	1931	12	520	599	1,656	3,594	1,938
Card cutting and designing	1937	77	3,315	4,138	9,369	21,138	11,769
	1935	76	2,951	2,845	7,710	17,216	9,506
	1933	64	1,804	1,535	4,029	10,138	6,108
	1931	72	2,041	2,408	6,674	15,953	9,279
Envelopes	1937	162	9,511	10,503	25,107	51,290	26,183
	1935	166	9,038	9,087	20,900	43,618	22,718
	1933	163	7,981	6,755	15,918	33,896	17,978
	1931	162	8,924	9,658	22,452	46,943	24,491
Paper goods not elsewhere classified.	1937	551	32,888	34,835	145,809	259,206	113,397
	1935	547	27,416	26,448	110,719	195,786	85,068
	1933	438	20,681	18,364	77,158	142,079	64,921
	[20] 1931	464	20,409	22,769	84,395	162,074	77,679
Wallpaper	1937	42	4,543	5,455	11,920	26,772	14,852
	1935	40	4,265	4,486	9,890	19,658	9,768
	1933	39	3,239	3,116	6,851	15,800	8,948
	1931	50	3,734	3,994	9,150	20,194	11,044

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[20] Revised; revision not carried into group total.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Printing, publishing, and allied industries, total.	1937	22,751	353,108	532,985	793,092	2,585,699	1,792,607
	1935	22,606	304,842	446,372	613,446	2,164,995	1,551,550
	1933	19,293	262,993	354,320	375,843	1,726,425	1,350,583
	1931	24,789	315,306	535,962	578,080	2,487,825	1,909,744
Printing and publishing, total.	1937	19,831	276,583	416,930	676,592	2,205,826	1,529,234
	1935	19,840	245,376	361,662	536,934	1,891,639	1,354,704
	1933	16,857	213,786	292,472	[14] 422,372	1,524,990	1,102,618
	[20] 1931	21,978	255,480	438,630	[14] 647,871	2,212,267	1,564,397
Printing and publishing, book, music, and job.	1937	10,587	141,368	195,050	283,571	809,795	526,224
	1935	10,961	126,692	168,772	233,980	698,820	464,840
	1933	9,224	104,699	128,982	[14] 175,049	519,990	344,942
	[20] 1931	11,767	135,977	212,931	[14] 262,881	804,019	541,138
Printing and publishing, newspaper and periodical.	1937	9,244	135,215	221,881	393,021	1,396,031	1,003,010
	1935	8,879	118,684	192,890	302,954	1,192,819	889,865
	1933	7,633	109,087	163,490	[14] 247,323	1,004,999	757,676
	1931	10,211	119,503	225,699	[14] 384,990	1,408,248	1,023,259
Allied industries, total	1937	2,920	76,525	116,055	116,500	379,873	263,373
	1935	2,766	59,466	84,710	76,511	273,356	196,845
	1933	2,436	49,207	61,849	56,221	201,436	145,215
	1931	2,819	60,845	98,538	73,101	280,848	207,747
Bookbinding and blank-book making.	1937	997	25,333	28,665	30,745	94,822	64,077
	1935	1,022	20,454	21,796	22,018	73,315	51,297
	1933	863	16,865	16,091	[14] 16,540	56,011	39,471
	1931	1,050	21,216	25,356	[14] 22,504	79,780	57,276
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.	1937	77	2,152	2,771	2,865	8,881	6,016
	1935	101	2,199	2,449	2,752	7,661	4,909
	1933	77	1,089	1,094	921	3,425	2,505
	1931	133	1,467	2,048	1,440	5,607	4,168
Engraving, steel, copperplate, and wood, and plate printing.	1937	435	7,831	9,883	8,115	29,436	21,321
	1935	388	5,300	6,521	4,818	20,124	15,306
	1933	343	5,033	5,265	3,037	16,223	12,585
	1931	432	6,995	9,503	6,425	27,425	21,001
Lithographing	1937	552	24,079	35,928	54,319	137,731	83,412
	1935	387	17,688	24,158	34,305	92,047	57,742
	1933	346	14,579	18,123	[14] 25,996	68,188	42,193
	1931	364	16,215	25,723	[14] 30,688	87,433	56,745
Photoengraving, not done in printing establishments.	1937	641	12,364	29,113	15,303	77,962	62,659
	1935	662	9,408	21,342	8,787	53,342	44,555
	1933	600	7,907	14,788	[14] 6,518	37,583	31,064
	1931	617	10,095	24,990	[14] 8,453	56,020	47,566
Stereotyping and electrotyping, not done in printing establishments.	1937	218	4,766	9,694	5,153	31,043	25,890
	1935	206	4,417	8,444	3,831	26,867	23,036
	1933	207	3,734	6,488	2,609	20,006	17,397
	1931	223	4,857	10,917	3,590	24,582	20,991
Chemicals and allied products, total.	1937	7,419	314,520	381,405	1,927,948	3,721,531	1,793,583
	1935	7,419	276,434	285,875	1,448,832	2,837,315	1,388,483
	1933	6,527	237,480	220,771	968,473	2,117,513	1,149,041
	1931	7,444	230,370	263,271	1,255,459	2,650,635	1,395,176
Chemicals and allied products other than animal and vegetable oils, total.	1937	6,831	292,640	366,055	1,598,676	3,315,675	1,716,999
	1935	6,818	258,922	275,280	1,207,898	2,543,885	1,335,986
	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

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available *except for a few industries.*
[14] Revised *to include cost of contract work.*
[20] Revised; revision not carried into group total.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Chemicals, etc.—Continued.							
Ammunition and related products.	1937	15	6,596	7,584	16,462	37,443	20,981
	1935	13	5,599	5,121	10,354	26,308	15,954
	1933	8	5,305	4,429	9,397	24,402	15,005
	1931	9	5,336	4,428	9,427	25,112	15,685
Baking powder, yeast, and other leavening compounds.	1937	40	2,380	3,761	13,330	30,279	16,949
	1935	46	2,666	4,278	14,403	32,341	17,938
	1933	40	2,690	3,654	13,112	31,975	18,863
	1931	45	2,881	4,798	20,746	47,027	26,281
Blacking, stains, and dressings	1937	147	1,536	1,480	7,988	19,183	11,194
	1935	167	1,498	1,467	8,396	17,932	9,536
	1933	154	1,625	1,504	6,909	19,056	12,146
	1931	156	1,501	1,666	6,941	20,343	13,402
Bluing	1937	14	67	69	350	1,129	778
	1935	15	58	55	287	912	624
	1933	16	77	86	323	1,033	710
	1931	20	95	94	402	1,179	777
Bone black, carbon black, and lampblack.	1937	62	2,190	2,712	7,236	18,854	11,618
	1935	55	1,828	1,937	5,334	14,811	9,477
	1933	48	1,449	1,206	4,010	8,507	4,497
	1931	62	1,039	1,344	5,022	9,535	4,513
Candles	1937	22	725	686	2,624	5,352	2,727
	1935	23	713	599	2,400	4,734	2,334
	1933	19	673	561	1,844	4,128	2,284
	1931	23	713	711	2,481	5,396	2,915
Chemicals not elsewhere classified.	1937	601	78,951	117,221	455,062	932,750	477,688
	1935	570	65,838	80,481	330,134	668,697	338,564
	1933	541	53,190	59,229	221,453	476,503	255,049
	1931	558	48,522	66,360	246,068	533,175	287,107
Cleaning and polishing preparations.	1937	363	3,341	3,943	23,644	57,871	34,228
	1935	395	2,824	3,033	17,295	42,407	25,112
	1933	327	2,755	2,722	14,753	41,048	26,296
	1931	388	2,449	2,969	16,979	48,007	31,028
Compressed and liquefied gases	1937	356	4,655	6,591	14,244	56,418	42,174
	1935	330	3,788	4,408	11,239	42,019	30,780
	1933	326	2,763	3,154	8,586	32,007	23,421
	1931	349	2,844	3,896	10,135	41,806	31,672
Drug grinding	1937	21	699	849	4,762	7,935	3,173
	1935	21	590	601	3,379	5,916	2,537
	1933	22	630	614	3,448	6,399	2,951
	1931	23	661	711	5,457	9,159	3,702
Drugs and medicines	1937	1,013	24,095	26,116	98,822	345,918	247,097
	1935	1,056	22,128	21,979	83,704	291,733	208,030
	1933	996	19,683	18,798	70,594	257,013	186,419
	1931	1,197	21,023	23,194	82,356	313,563	231,206
Explosives	1937	77	5,406	8,620	24,213	58,181	33,969
	1935	74	4,570	5,647	17,013	40,667	23,655
	1933	66	4,168	4,135	12,705	35,106	22,401
	1931	78	4,733	5,572	19,519	46,258	26,739
Fertilizers	1937	743	20,893	15,364	130,081	195,759	65,678
	1935	670	17,473	10,967	93,382	140,386	47,004
	1933	522	13,063	7,274	69,053	94,939	25,886
	1931	599	14,551	12,146	106,481	154,350	47,869

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Chemicals, etc.—Continued.							
Fireworks and allied products	1937	50	1,760	1,621	3,695	8,128	4,433
	1935	52	1,588	1,309	2,649	6,504	3,855
	1933	46	1,420	1,122	2,046	5,979	3,933
	1931	48	1,887	1,661	2,992	6,976	3,985
Glue and gelatin	1937	75	3,547	4,565	23,391	40,650	17,259
	1935	74	3,253	3,534	15,076	28,161	13,085
	1933	63	2,013	2,033	8,328	17,163	8,834
	1931	72	2,559	3,325	15,460	27,516	12,055
Grease and tallow, not including lubricating greases.	1937	266	5,200	6,763	32,980	52,269	19,289
	[4] 1935	259	4,761	5,300	22,214	39,836	17,622
	1933	201	3,988	4,099	14,141	26,238	12,097
	1931	238	4,067	5,225	17,533	29,241	11,708
Ink, printing	1937	184	2,793	4,085	25,104	47,347	22,243
	1935	191	2,370	3,234	[4] 18,602	34,535	[4] 15,933
	1933	160	2,094	2,663	12,604	26,166	13,563
	1931	171	2,247	3,479	14,532	32,188	17,656
Ink, writing	1937	17	366	370	1,500	3,476	1,976
	1935	22	377	380	1,415	3,382	1,967
	1933	22	355	321	1,226	2,522	1,296
	1931	23	347	363	1,463	3,535	2,073
Insecticides and fungicides, and industrial and household chemical compounds not elsewhere classified.	1937	573	4,322	4,659	34,103	71,168	37,065
	1935	546	3,466	3,401	24,394	53,429	29,036
	1933	380	1,977	1,856	11,211	27,908	16,698
	1931	498	2,650	3,015	20,640	54,756	34,117
Mucilage, paste, and other adhesives, except glue and rubber cement.	1937	61	295	313	2,165	4,210	2,045
	1935	66	267	289	[4] 1,767	3,633	[4] 1,866
	1933	55	213	237	1,295	2,478	1,184
	1931	69	282	350	1,889	3,621	1,732
Paints, pigments, and varnishes	1937	1,124	31,664	42,751	312,085	538,461	226,375
	1935	1,082	27,686	32,187	232,164	417,000	184,836
	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
Perfumes, cosmetics, and other toilet preparations.	1937	478	10,158	9,262	53,905	132,336	78,431
	1935	558	9,662	8,586	44,759	119,529	74,770
	1933	490	8,978	7,470	33,175	97,049	63,874
	1931	658	10,026	9,674	44,184	153,818	109,634
Rayon and allied products	1937	33	55,098	65,291	80,616	254,697	174,081
	1935	32	50,550	50,693	64,513	185,160	120,646
	1933	34	44,306	38,613	44,031	156,932	112,900
	1931	32	38,735	38,231	36,181	132,632	96,452
Salt	1937	46	4,616	5,279	11,212	32,741	21,528
	1935	48	4,976	4,884	10,934	29,720	18,786
	1933	50	5,036	4,814	9,154	29,011	19,857
	1931	53	4,728	5,549	10,864	31,430	20,566
Soap	1937	232	14,008	19,075	185,170	301,292	116,122
	1935	238	13,911	15,339	139,493	239,152	99,659
	1933	235	14,304	14,140	93,507	200,128	106,621
	1931	248	14,163	17,740	121,829	257,719	135,889
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.	1937	158	2,812	3,000	22,603	35,685	13,081
	1935	154	2,651	2,636	19,706	33,639	13,933
	1933	124	2,141	2,212	13,518	23,322	9,804
	1931	116	1,962	2,390	15,521	26,469	10,948

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[4] Revised; revision not carried into subgroup or group total.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Chemicals, etc.—Continued.							
Wood distillation and charcoal manufacture.	1937	60	4,467	4,024	11,328	26,145	14,817
	1935	60	3,808	2,816	7,923	15,971	8,047
	1933	54	2,731	1,782	5,073	11,036	5,963
	1931	63	2,654	2,745	6,474	11,440	4,966
Animal and vegetable oils, total.	1937	588	21,880	15,351	329,273	405,857	76,584
	1935	601	17,512	10,595	240,934	293,431	52,497
	1933	567	16,973	8,252	129,951	170,022	40,072
	1931	609	15,194	12,207	220,147	273,657	53,509
Oil, cake, and meal, cottonseed	1937	447	16,583	8,532	195,747	242,043	46,296
	1935	458	13,226	5,912	160,552	187,887	27,336
	1933	475	14,242	5,376	78,229	104,212	25,982
	1931	504	12,268	8,335	147,165	181,347	34,182
Oil, cake, and meal, linseed	1937	23	2,628	3,591	74,481	90,357	15,875
	1935	25	2,350	2,650	48,815	60,264	11,449
	1933	22	1,625	1,684	33,853	40,463	6,610
	1931	28	1,837	2,278	50,306	62,883	12,576
Oils, essential	1937	13	195	266	2,933	3,981	1,048
	1935	12	166	219	2,603	3,542	939
	1933	12	175	222	2,243	3,094	851
	1931	12	128	199	2,707	3,505	798
Oils not elsewhere classified	1937	105	2,474	2,962	56,111	69,476	13,365
	1935	106	1,770	1,814	[4] 30,918	41,737	[4] 10,819
	1933	58	931	970	15,625	22,254	6,629
	1931	65	961	1,394	19,970	25,922	5,952
Products of petroleum and coal, total.[21]	1937	675	106,473	176,904	2,366,802	2,954,465	587,662
	1935	688	96,370	133,854	1,686,859	2,118,307	431,448
	1933	668	84,203	107,669	1,206,372	1,576,013	369,641
	1931	679	85,623	132,925	1,399,154	1,797,066	397,911
Coke-oven products	1937	94	20,603	33,103	273,068	357,469	84,401
	1935	88	16,694	21,575	180,557	238,704	58,147
	1933	97	13,066	15,527	123,275	165,731	42,456
	1931	112	14,383	22,134	162,793	226,509	63,716
Fuel briquets	1937	21	457	547	4,041	6,138	2,097
	1935	25	341	386	3,394	4,913	1,519
	1933	24	296	262	1,886	2,944	1,058
	1931	23	301	357	3,035	4,568	1,533
Lubricating oils and greases, not made in petroleum refineries.	1937	195	2,231	2,839	25,387	44,113	18,725
	1935	180	1,933	2,282	20,972	36,069	15,096
	1933	158	1,794	2,087	16,774	28,702	11,928
	1931	168	2,115	2,960	22,809	41,704	18,895
Petroleum refining	1937	365	83,182	140,415	2,064,307	2,546,746	482,439
	1935	395	77,402	109,611	1,481,936	1,838,622	356,686
	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

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[4] Revised; revision not carried into subgroup or group total.
[21] This group formerly included "Gas, manufactured, illuminating and heating." At the Census for 1937 this was discontinued as a manufactures industry classification; the figures for earlier years have been revised accordingly.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Rubber products, total	1937	478	120,818	171,305	514,260	883,033	368,772
	1935	466	114,681	133,715	368,811	677,659	308,848
	1933	408	106,283	99,117	211,397	472,744	261,347
	1931	453	99,259	112,596	252,867	614,265	361,398
Rubber tires and inner tubes	1937	46	63,290	96,707	366,858	575,860	209,002
	1935	42	57,128	78,253	265,515	446,092	180,576
	1933	44	52,976	54,737	139,392	299,313	159,921
	1931	48	49,159	63,089	173,604	406,283	232,679
Boots and shoes, rubber	1937	12	18,356	20,422	27,475	64,455	36,981
	1935	12	17,246	16,113	20,821	53,162	32,341
	1933	13	18,102	14,440	14,124	42,019	27,895
	1931	15	15,882	13,770	12,298	47,905	35,607
Rubber goods other than tires, inner tubes, and boots and shoes.	1937	420	48,172	54,176	119,927	242,717	122,790
	1935	412	40,307	39,348	82,475	178,405	95,931
	1933	351	35,205	29,939	57,881	131,411	73,531
	1931	390	34,218	35,738	66,965	160,077	93,112
Leather and its manufactures, total.	1937	3,364	331,955	311,293	899,469	1,491,513	592,043
	1935	3,506	310,755	279,740	694,293	1,224,431	530,139
	1933	3,265	282,000	222,487	544,737	996,773	452,036
	1931	3,702	272,757	262,130	666,200	1,189,876	523,676
Leather: Tanned, curried, and finished.[22]	1937	402	50,687	61,288	281,506	395,022	113,516
	1935	384	50,877	55,683	199,411	308,345	108,934
	1933	374	44,191	43,076	138,177	237,202	99,025
	1931	418	42,047	49,542	172,786	271,138	98,352
Leather: Tanned, curried, and finished—regular factories.[22]	1937	331	48,132	58,332	279,220	387,908	108,688
Leather: Tanned, curried, and finished—contract factories.[22]	1937	71	2,555	2,956	2,286	7,114	4,828
Leather products, total	1937	2,962	281,268	250,004	617,963	1,096,490	478,527
	1935	3,122	259,878	224,056	494,882	916,086	421,205
	1933	2,891	237,811	179,411	406,561	759,571	353,010
	1931	3,284	230,710	212,588	493,415	918,738	425,324
Belting and packing, leather	1937	182	2,829	3,355	15,529	27,901	12,372
	1935	187	2,362	2,520	11,574	21,522	9,948
	1933	152	1,684	1,733	7,018	14,880	7,862
	1931	178	1,640	1,968	7,302	14,522	7,220
Boot and shoe cut stock and findings.	1937	470	18,755	17,844	95,988	132,660	36,672
	1935	498	18,275	16,781	76,317	111,579	35,261
	1933	487	16,798	13,918	61,864	93,293	31,429
	1931	552	17,672	16,412	82,274	117,101	34,827
Boots and shoes, other than rubber.	1937	1,080	215,438	191,305	416,305	768,327	352,022
	1935	1,024	202,113	172,349	333,799	643,872	310,073
	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
Gloves and mittens, leather	1937	221	11,637	9,039	15,720	30,718	14,999
	1935	224	9,810	8,500	13,874	28,131	14,257
	1933	194	8,129	6,434	11,377	23,470	12,093
	1931	227	7,884	7,554	13,136	28,024	14,887

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[22] At the Census for 1937 the "Leather: Tanned, curried, and finished" industry was separated into two industries, "Leather: Tanned, curried, and finished—regular factories" and "Leather: Tanned, curried, and finished—contract factories." No separation of the statistics was made for years prior to 1937.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Leather, etc.—Continued.							
Handbags and purses, women's. [23]	1937	203	11,306	9,054	24,756	43,446	18,690
Leather goods—small articles [23]	1937	68	2,443	1,850	5,342	10,217	4,875
Leather goods not elsewhere classified. [23]	1937	322	7,103	6,399	15,679	31,084	15,405
Pocketbooks, purses, and card cases. [23]	1935	324	11,406	9,232	23,288	42,992	19,704
	1933	218	8,107	5,954	15,349	28,345	12,996
	1931	260	8,747	9,793	22,601	43,147	20,546
Leather goods not elsewhere classified. [23]	1935	401	6,024	5,421	13,358	26,385	13,027
	1933	291	4,547	3,516	9,176	18,425	9,250
	1931	355	5,221	5,321	11,974	26,012	14,038
Saddlery, harness, and whips	1937	139	3,049	2,699	8,110	13,417	5,306
	1935	157	3,234	2,919	7,739	13,357	5,618
	1933	147	2,515	2,054	6,146	10,364	4,218
	1931	185	1,974	1,926	5,268	9,339	4,071
Trunks, suitcases, brief cases, bags, and other luggage.	1937	277	8,708	8,458	20,534	38,720	18,186
	1935	307	6,654	6,336	14,932	28,248	13,317
	1933	270	5,117	3,749	9,328	17,368	8,040
	1931	371	6,198	6,343	13,232	26,715	13,483
Stone, clay, and glass products, total.	1937	6,071	300,278	348,521	523,112	1,395,858	872,746
	1935	5,722	233,205	226,140	353,709	946,480	592,771
	1933	4,528	173,000	142,142	212,155	608,699	396,545
	1931	6,408	222,856	248,860	316,468	925,318	608,850
Industries using stone as a material, total.	1937	3,578	110,171	130,323	250,317	628,892	378,575
	[24] 1935	3,395	81,302	80,231	155,255	408,786	253,531
	[24] 1933	2,556	61,620	54,013	96,549	273,195	176,646
	[24] 1931	3,762	84,787	107,105	165,666	463,441	297,774
Abrasive wheels, stones, paper, and cloth, and related products.	1937	103	9,670	14,250	29,339	77,954	48,615
	1935	94	6,776	8,351	20,734	53,867	33,133
	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 and pipe and boiler covering.	1937	73	13,023	14,157	20,494	63,794	34,300
	1935	72	9,622	9,293	17,178	38,163	20,985
	1933	58	6,084	5,075	10,789	25,255	14,466
	1931	67	6,009	6,452	13,837	35,174	21,337
Cement	1937	158	26,426	34,070	69,979	183,201	113,222
	1935	153	20,698	20,904	43,089	120,417	77,328
	1933	148	15,829	13,870	26,932	86,921	59,989
	1931	164	24,317	29,884	56,098	148,845	92,747
Concrete products	1937	1,382	12,840	13,781	35,453	76,174	40,721
	1935	1,224	8,399	7,834	20,223	44,967	24,745
	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

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.

[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

[23] At the Census for 1937 "Handbags and purses, women's," "Leather goods—small articles;" and "Leather goods not elsewhere classified" were established as separate industry classifications. The establishments comprising these industries were formerly in the industries "Pocketbooks, purses, and card cases" and "Leather goods not elsewhere classified." Comparable figures are not available for classifications established for 1937.

[24] At the Census for 1937 "Nonclay refractories" was established as a separate industry classification; data were formerly included in the "Clay products" industry. The figures for 1935 and 1933 for the latter industry have been revised by excluding data for nonclay refractories, but no segregation has been made for 1931. The subgroup totals have been revised for the years 1935 and 1933.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Stone, etc.—Continued.							
Gypsum products [25]	1937	79	5,207	6,591	16,681	42,617	25,935
	1935	72	3,382	3,444	8,921	26,288	17,368
Lime	1937	203	9,751	9,610	13,287	35,022	21,735
	1935	189	7,497	6,052	8,940	23,322	14,382
	1933	167	5,972	4,079	6,543	16,200	9,657
	1931	203	6,706	6,012	8,896	22,200	13,304
Marble, granite, slate, and other stone, cut and shaped.	1937	1,403	20,816	24,381	27,349	79,006	51,657
	1935	1,404	15,224	16,192	18,756	56,478	37,722
	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
Nonclay refractories [24]	1937	40	5,641	6,331	12,538	28,457	15,919
	1935	43	4,861	4,023	8,153	20,771	12,618
	1933	40	3,394	2,139	4,813	12,151	7,338
Sand-lime brick	1937	23	414	460	545	1,618	1,073
	1935	20	227	199	270	654	385
	1933	10	84	61	74	205	131
	1931	31	322	357	461	1,268	806
Wallboard and plaster (except gypsum), building insulation, and floor composition.[25]	1937	114	6,383	6,691	15,652	41,049	25,398
	1935	124	4,616	3,938	8,992	23,859	14,867
Wallboard, insulating board, gypsum and other plasters, and floor composition.[25]	1933	172	4,694	3,679	9,439	27,610	18,172
	1931	214	6,451	7,111	18,913	54,594	35,681
Industries using clay as a material, total.	1937	1,727	98,404	102,630	91,346	291,247	199,901
	[24] 1935	1,582	74,078	63,570	59,113	185,030	125,918
	[24] 1933	1,334	55,062	37,347	33,611	110,679	77,068
	[24] 1931	1,807	80,969	75,223	59,977	209,286	149,309
China firing and decorating, not done in potteries.	1937	16	306	359	762	1,690	927
	1935	19	278	224	645	1,267	622
	1933	14	152	127	378	762	384
	1931	21	220	236	551	1,128	577
Clay products (other than pottery).	1937	1,198	59,585	57,844	50,975	163,262	112,286
	[24] 1935	1,031	39,722	30,579	29,931	90,427	60,496
	[24] 1933	888	28,550	16,828	15,181	52,452	37,271
	[24] 1931	1,264	51,128	44,368	36,969	127,336	90,367
Graphite, ground and refined	1937	6	56	74	729	1,078	349
	1935	9	256	261	942	2,122	1,180
	1933	10	168	146	763	1,490	727
	1931	9	183	183	976	1,962	986
Minerals and earths, ground or otherwise treated.	1937	157	4,539	4,898	11,613	27,161	15,548
	1935	161	4,258	3,614	8,919	21,545	12,626
	1933	107	1,874	1,565	4,389	9,684	5,295
	1931	88	1,090	1,127	3,817	7,295	3,478

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not avilable except for a few industries.
[24] At the Census for 1937 "Nonclay refractories" was established as a separate industry classification; data were formerly included in the "Clay products" industry. The figures for 1935 and 1933 for the latter industry have been revised by excluding data for nonclay refractories, but no segregation has been made for 1931. The subgroup totals have been revised for the years 1935 and 1933.
[25] The "Gypsum products" and "Wallboard and plaster (except gypsum), building insulation, and floor composition" industries were treated as a single industry, "Wallboard, insulating board, gypsum and other plasters, and floor composition" prior to 1935. The 1933 and 1931 figures for the latter industry have been revised to include data for mineral wool, formerly assigned to "Steam and other packing," etc., but this revision was not carried into totals for subgroup and group.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Stone, etc.—Continued.							
Pottery, including porcelain ware.	1937	251	33,060	38,329	26,252	94,726	68,474
	1935	257	28,845	28,088	18,003	66,778	48,775
	1933	231	23,632	17,891	12,179	43,718	31,539
	1931	275	27,023	26,981	16,393	65,866	49,473
Statuary and art goods (except concrete), factory production.	1937	99	858	1,126	1,015	3,331	2,316
	1935	105	719	803	[4] 776	2,892	[4] 2,116
	1933	84	686	789	721	2,574	1,853
	1931	150	1,325	2,328	1,271	5,700	4,429
Glass and manufactures of glass, total.	1937	766	91,703	115,568	181,449	475,719	294,270
	1935	745	77,825	82,339	139,341	352,664	213,323
	1933	638	56,317	50,781	81,995	224,825	142,830
	1931	839	57,100	66,531	90,824	252,592	161,767
Glass	1937	232	79,051	101,588	140,705	387,710	247,005
	1935	213	67,138	71,443	110,041	283,925	173,884
	1933	213	49,797	45,222	63,410	191,948	128,538
	1931	229	49,917	57,882	73,575	216,265	142,690
Mirrors and other glass products made of purchased glass.	1937	534	12,652	13,981	40,744	88,009	47,265
	1935	532	10,687	10,896	29,300	68,738	39,438
	1933	425	6,520	5,559	18,585	32,877	14,292
	1931	610	7,183	8,650	17,250	36,327	19,077
Iron and steel and their products, not including machinery.	1937	8,345	1,166,287	1,661,045	4,047,687	7,480,360	3,432,674
	[26] 1935	8,105	879,089	991,207	2,511,698	4,588,958	2,077,260
	[26] 1933	7,055	655,536	585,521	1,522,536	2,768,962	1,246,426
	[26] 1931	6,531	626,331	735,787	1,859,989	3,400,102	1,540,113
Crude iron and steel and rolled products, total.	1937	497	502,417	817,778	2,378,626	4,003,017	1,624,391
	1935	468	374,808	458,584	1,412,289	2,305,970	893,681
	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
Blast-furnace products	1937	87	23,075	38,001	544,881	672,525	127,644
	1935	72	15,178	18,916	300,658	374,651	73,993
	1933	72	12,098	11,564	183,957	213,685	29,729
	1931	80	13,572	19,259	259,132	311,371	52,240
Steel-works and rolling-mill products (including all departments, such as bolt and nut, wire, tin plate, etc.).	1937	410	479,342	779,776	1,833,745	3,330,491	1,496,747
	1935	396	359,630	439,669	1,111,631	1,931,318	819,688
	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
Other iron and steel products, total.	1937	7,848	663,870	843,267	1,669,061	3,477,344	1,808,283
	[26] 1935	7,637	504,281	532,623	1,099,409	2,282,988	1,183,580
	[26] 1933	6,589	366,594	315,154	646,490	1,411,387	764,897
	[26] 1931	6,005	348,125	378,142	768,973	1,685,888	916,915
Boiler-shop products [27]	1937	453	24,485	33,842	82,979	165,280	82,301
	1935	413	13,200	14,770	36,598	73,170	36,572
	1933	292	9,805	9,094	23,481	45,866	22,386

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[4] Revised; revision not carried into subgroup or group total.
[26] Figures for 1935 and 1933 revised to include figures for "Boiler-shop products" and "Foundry products (gray-iron and malleable-iron)" transferred from "Machinery, not including transportation equipment" group; no revision has been made in the figures for 1931.
[27] Prior to the Census for 1937 in "Machinery, not including transportation equipment" group. No separate figures for 1931; at that Census included in the abandoned industry "Foundry and machine-shop products."

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Iron and steel, etc.—Con.							
Bolts, nuts, washers, and rivets [28]	1937	138	16,840	22,088	44,342	98,079	53,737
	1935	137	12,506	13,375	29,300	57,420	28,120
	1933	103	8,486	7,155	15,350	32,874	17,523
	1931	116	10,518	10,177	16,872	39,483	22,611
Cast-iron pipe and fittings	1937	75	17,613	18,083	25,441	61,118	35,677
	1935	71	13,543	10,370	14,810	37,870	23,060
	1933	71	9,454	5,847	8,992	20,916	11,924
	1931	78	16,066	14,559	20,977	47,938	26,960
Doors, shutters, and window sash and frames, molding, and trim, metal.	1937	154	8,408	11,879	20,053	49,915	29,862
	1935	134	4,533	5,093	10,284	22,740	12,456
	1933	125	3,572	3,123	5,953	13,377	7,423
	1931	139	6,816	8,898	14,572	35,608	21,036
Firearms	1937	21	6,847	9,670	4,333	21,555	17,222
	1935	22	4,855	5,499	3,412	13,027	9,615
	1933	22	3,382	3,164	2,169	9,214	7,045
	1931	24	4,264	4,711	2,501	10,611	8,110
Forgings [28]	1937	194	18,255	27,659	63,224	122,835	59,611
	1935	185	12,253	15,107	35,108	66,351	31,243
	1933	181	7,953	7,354	16,896	32,523	15,627
	1931	202	9,971	11,444	22,657	47,700	25,043
Foundry products (gray-iron and malleable-iron).[27]	1937	1,239	120,024	158,588	141,723	397,303	255,580
	1935	1,251	89,894	98,512	90,275	250,460	160,185
	1933	1,078	59,321	49,414	43,543	142,722	99,179
Galvanizing and other coating [29]	1937	64	1,119	1,376	2,527	5,994	3,467
	1935	65	1,201	1,269	2,133	5,194	3,061
	1933	54	761	661	1,164	2,691	1,527
	1931	60	1,011	1,170	1,669	4,060	2,391
Hardware not elsewhere classified	1937	428	53,000	65,274	86,736	219,082	132,346
	1935	405	41,473	42,386	57,747	147,677	89,930
	1933	381	32,550	26,937	30,040	85,077	55,037
	1931	451	36,118	37,269	38,318	115,900	77,582
Heating and cooking apparatus, except electric.[30]	1937	830	89,287	111,788	180,105	439,285	259,181
	1935	834	68,820	73,041	115,010	297,364	182,354
	1933	770	52,494	46,510	66,344	186,971	120,626
	1931	827	61,576	64,833	91,537	271,607	180,070
Nails, spikes, etc.[28]	1937	42	2,432	2,746	5,636	11,929	6,293
	1935	43	2,178	2,320	4,334	9,656	5,322
	1933	39	1,695	1,590	2,704	6,973	4,269
	1931	46	1,570	1,670	2,982	6,828	3,846
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.	1937	241	25,240	30,635	50,116	113,920	63,804
	1935	252	20,136	21,335	32,120	75,631	43,510
	1933	232	15,893	12,922	17,561	46,886	29,325
	1931	238	19,688	20,440	26,003	70,936	44,933

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[27] Prior to the Census for 1937 in "Machinery, not including transportation equipment" group. No separate figures for 1931; at that Census included in the abandoned industry "Foundry and machine-shop products."
[28] Not including similar products manufactured to a considerable extent by steel works and rolling mills or by plants operated in connection with rolling mills. The figures here given refer only to establishments engaged primarily in the specified classes of products. "Nails, spikes," etc., also exclude products made in wire mills.
[29] Largely custom work. Exclusive of products made in steel works and rolling mills or in plants operated in connection with rolling mills.
[30] Represents industries classified prior to 1937 as "Steam and hot-water heating apparatus and steam fittings" and "Stoves and ranges, other than electric."

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Iron and steel, etc.—Con.							
Safes and vaults	1937	14	1,132	1,445	1,998	5,149	3,152
	1935	14	809	800	1,266	3,313	2,047
	1933	21	933	643	938	2,918	1,980
	1931	25	2,044	2,176	4,073	11,607	7,534
Screw-machine products and wood screws.	1937	311	21,287	28,030	42,714	102,725	60,011
	1935	302	15,018	16,825	27,228	63,029	35,801
	1933	255	10,236	8,951	13,485	33,449	19,964
	1931	275	12,047	13,478	16,142	43,698	27,556
Springs, steel, except wire [28]	1937	57	3,902	5,804	16,153	27,233	11,080
	1935	49	3,146	3,566	11,049	18,233	7,185
	1933	60	2,112	1,972	5,543	10,413	4,869
	[31] *1931*	*77*	*2,561*	*3,101*	*6,567*	*12,614*	*6,248*
	[32] 1931	98	2,938	3,634	7,541	15,158	7,617
Stamped and pressed metal products; enameling, japanning, and lacquering.	1937	743	61,092	73,141	148,148	294,039	145,891
	1935	698	50,014	51,183	102,323	208,672	106,349
	1933	552	32,302	26,634	54,682	117,372	62,690
	1931	566	28,378	30,662	53,618	122,696	69,078
Steel barrels, kegs, and drums	1937	58	6,231	7,357	30,296	48,175	17,880
	1935	64	5,761	5,839	21,090	34,650	13,560
	1933	58	6,517	6,026	18,035	30,399	12,364
	1931	52	3,253	3,513	12,990	21,644	8,654
Structural and ornamental metal work.[29]	1937	1,132	38,814	53,898	169,673	292,756	123,083
	1935	1,111	27,243	28,225	94,088	160,762	66,675
	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
Tin cans and other tinware not elsewhere classified.	1937	224	33,145	37,194	245,110	358,796	113,686
	1935	204	27,484	27,826	206,118	292,388	86,270
	1933	194	23,343	22,693	137,046	207,946	70,900
	1931	199	25,271	27,978	149,121	223,634	74,513
Tools and cutlery:							
Cutlery (not including silver and plated cutlery) and edge tools.	1937	251	16,830	18,633	18,737	68,194	49,457
	1935	264	13,715	13,532	12,672	51,171	38,499
	1933	200	10,807	8,848	8,647	38,718	30,071
	1931	221	12,485	12,194	8,983	52,337	43,354
Files	1937	21	3,715	4,815	3,344	13,653	10,309
	1935	22	2,913	3,049	2,237	9,179	6,943
	1933	23	2,634	2,431	1,567	7,391	5,824
	1931	26	3,016	2,719	1,221	7,316	6,095
Saws	1937	80	4,384	5,576	7,415	19,853	12,438
	1935	82	3,425	3,731	[4] 5,223	13,649	[4] 8,427
	1933	71	2,528	2,347	3,003	9,926	6,923
	1931	78	3,005	3,084	4,035	11,572	7,537
Tools, not including edge tools, machine tools, files, or saws.	1937	369	17,612	21,132	30,959	80,046	49,087
	1935	343	12,636	13,298	19,068	52,544	33,476
	1933	294	9,598	8,158	10,521	34,199	23,678
	1931	355	10,833	11,209	13,725	42,417	28,692

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[4] Revised; revision not carried into subgroup or group total.
[28] Not including similar products manufactured to a considerable extent by steel works and rolling mills or by plants operated in connection with rolling mills. The figures here given refer only to establishments engaged primarily in the specified classes of products. "Nails, spikes," etc., also exclude products made in wire mills.
[29] Largely custom work. Exclusive of products made in steel works and rolling mills or in plants operated in connection with rolling mills.
[31] Adjusted for comparison with 1933 and later years.
[32] Includes data for establishments engaged primarily in repairing and replacing motor-vehicle springs, not included in later years.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Iron and steel, etc.—Con.							
Wire drawn from purchased rods (covers fabricated wire products made in the same establishments).	1937	93	24, 580	33, 967	100, 375	182, 149	81, 774
	1935	88	21, 550	24, 452	68, 722	127, 417	58, 695
	1933	78	14, 656	14, 321	39, 615	75, 476	35, 861
	1931	82	14, 476	17, 179	45, 187	83, 370	38, 183
Wirework not elsewhere classified.	1937	563	33, 471	39, 207	78, 296	164, 510	86, 214
	1935	536	25, 165	25, 426	55, 984	117, 569	61, 585
	1933	429	17, 633	14, 155	35, 220	74, 520	39, 300
	1931	494	17, 226	17, 382	40, 308	86, 694	46, 386
Wrought pipe, welded and heavy riveted.[29]	1937	53	14, 125	19, 436	68, 629	113, 769	45, 140
	1935	48	10, 720	11, 793	42, 285	73, 849	31, 564
	1933	44	6, 552	5, 580	20. 821	34, 957	14, 135
	1931	51	8, 045	9, 890	42, 291	75, 041	32, 749
Nonferrous metals and their products, total.	1937	5, 303	270, 327	349, 276	1, 926, 526	2, 783, 285	856, 759
	1935	5, 411	214, 986	232, 651	1, 092, 344	1, 668, 561	576, 217
	1933	4, 367	155, 969	140, 088	586, 444	951, 381	364, 937
	1931	5, 744	180, 477	209, 515	808, 569	1, 326, 565	517, 996
Smelting and refining, total	1937	230	35, 873	50, 788	1, 134, 077	1, 289, 707	155, 630
	1935	249	27, 242	29, 815	600, 453	695, 268	94, 815
	1933	214	18, 236	17, 023	302, 328	359, 012	56, 684
	1931	237	21, 906	27, 064	401, 151	484, 682	83, 530
Primary, total	1937	62	29, 815	43, 255	954, 818	1, 084, 607	129, 789
	1935	62	22, 478	24, 887	476, 653	554, 627	77, 974
	1933	59	14, 567	13, 549	231, 885	273, 286	41, 401
	1931	76	18, 477	22, 716	335, 713	408, 589	72, 876
Smelting and refining, copper	1937	23	14, 514	20, 941	645, 294	715, 355	70, 061
	1935	20	10, 449	11, 154	310, 797	348, 257	37, 460
	1933	19	5, 596	5, 387	142, 672	158, 610	15, 938
	1931	27	8, 642	10, 708	226, 520	269, 384	42, 864
Smelting and refining, lead	1937	14	4, 036	5, 547	234, 072	253, 598	19, 526
	1935	16	3, 187	3, 424	122, 019	137, 219	15, 200
	1933	14	2, 105	2, 325	60, 534	70, 453	9, 920
	1931	16	2, 584	3, 569	78, 745	90, 726	11, 982
Smelting and refining, zinc	1937	25	11, 265	16, 767	75, 452	115, 655	40, 202
	1935	26	8, 842	10, 309	43, 836	69, 151	25, 315
	1933	26	6, 866	5, 838	28, 679	44, 222	15, 543
	1931	33	7, 251	8, 439	30, 449	48, 479	18, 030
Secondary, total	1937	168	6, 058	7, 533	179, 260	205, 100	25, 841
	1935	187	4, 764	4, 928	123, 801	140, 641	16, 840
	1933	155	3, 669	3, 474	70, 443	85, 726	15, 283
	1931	161	3, 429	4, 348	65, 438	76, 093	10, 655
Gold, silver, and platinum, refining and alloying.	1937	65	1, 085	1, 561	85, 208	92, 093	6, 886
	1935	88	1, 002	1, 318	71, 791	78, 018	6, 227
	1933	61	745	980	39, 036	44, 604	5, 567
	1931	63	803	1, 186	36, 803	41, 398	4, 505
Smelting and refining, nonferrous metals other than gold, silver, and platinum, not from the ore.	1937	103	4, 973	5, 972	94, 052	113, 007	18, 955
	1935	99	3, 762	3, 610	52, 009	62, 623	10, 614
	1933	94	2, 924	2, 494	31, 407	41, 123	9, 716
	1931	98	2, 626	3, 162	28, 546	34, 695	6, 150

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[29] Largely custom work. Exclusive of products made in steel works and rolling mills or in plants operated in connection with rolling mills.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Nonferrous metals, etc.—Con.							
Alloys and manufactures of metals, and of alloys, total.	1937	5,073	234,454	298,488	792,448	1,493,578	701,129
	1935	5,162	187,744	202,836	491,890	973,293	481,403
	1933	4,153	137,734	123,065	284,117	592,369	308,253
	1931	5,507	[20] 158,305	182,451	407,418	841,883	434,465
Aluminum products	1937	153	23,695	31,888	96,104	165,643	69,540
	1935	170	19,271	20,345	58,609	104,067	45,458
	1933	109	13,634	11,900	34,027	61,464	27,437
	1931	138	13,803	16,106	41,605	76,300	34,695
Clocks, watches, time-recording devices, and materials and parts except watchcases.	1937	75	23,223	27,559	38,444	97,934	59,489
	1935	76	18,026	18,280	22,674	61,204	38,530
	1933	53	12,850	10,003	9,468	31,656	22,188
	1931	75	16,213	15,686	12,880	45,563	32,683
Collapsible tubes	1937	15	1,983	1,872	5,272	9,185	3,913
	1935	16	1,961	1,750	4,966	8,505	3,539
	1933	17	1,750	1,482	3,834	6,924	3,090
	1931	17	1,737	1,634	4,142	7,634	3,492
Electroplating	1937	547	8,256	9,828	6,815	26,686	19,872
	1935	553	6,238	6,941	4,649	18,328	13,679
	1933	423	3,956	3,715	2,352	10,032	7,680
	1931	464	4,107	5,642	2,802	13,084	10,282
Fire extinguishers, chemical	1937	25	1,041	1,401	3,582	8,889	5,307
	1935	25	806	965	2,479	5,343	2,864
	1933	22	589	604	1,720	3,775	2,055
	1931	25	571	617	1,796	4,453	2,656
Gold leaf and foil	1937	26	625	515	1,231	2,299	1,068
	1935	27	557	403	961	1,783	822
	1933	31	608	348	684	1,402	718
	1931	48	805	631	1,015	2,217	1,202
Jewelers' findings and materials	1937	71	2,470	3,002	14,574	21,684	7,109
	1935	73	2,063	2,728	10,991	17,170	6,179
	1933	60	1,811	1,604	5,503	9,250	3,747
	1931	99	1,899	2,343	7,121	11,976	4,855
Jewelry	1937	974	20,368	23,273	43,915	96,601	52,686
	1935	994	17,096	17,841	30,883	70,917	40,034
	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
Lighting equipment	1937	466	21,743	24,918	55,593	115,096	59,503
	1935	501	16,677	17,232	40,114	85,700	45,586
	1933	357	10,538	9,506	19,241	46,173	26,933
	1931	523	14,790	18,150	30,312	75,050	44,738
Needles, pins, hooks and eyes, and slide and snap fasteners.	1937	52	9,580	10,154	10,291	36,240	25,949
	1935	50	10,104	9,494	9,383	32,830	23,447
	1933	45	6,412	5,768	5,818	22,758	16,940
	1931	46	5,354	5,667	4,842	20,342	15,500
Nonferrous-metal alloys; nonferrous-metal products, except aluminum, not elsewhere classified.	1937	1,103	83,016	115,515	392,683	669,374	276,691
	1935	1,098	62,935	72,001	220,759	393,227	172,468
	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
Sheet-metal work, not specifically classified.	1937	1,392	22,973	29,263	85,935	159,096	73,161
	1935	1,400	17,369	19,551	58,123	109,333	51,210
	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

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[20] Revised; revision not carried into group total.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Nonferrous metals, etc.—Con.							
Silverware and plated ware	1937	136	11,361	13,790	22,670	56,733	34,063
	1935	139	10,194	11,078	15,298	43,372	28,074
	1933	126	9,177	8,229	12,425	34,333	21,907
	1931	163	11,077	12,713	11,792	45,815	34,022
Tin and other foils, not including gold foil.	1937	9	1,669	2,354	11,157	17,760	6,603
	1935	11	1,831	1,899	9,226	14,533	5,307
	1933	7	1,337	1,189	7,681	11,331	3,651
	1931	8	[20] 1,218	998	7,383	12,226	4,843
Watchcases	1937	29	2,451	3,156	4,182	10,358	6,176
	1935	29	2,016	2,329	2,776	6,983	4,206
	1933	20	1,169	1,006	760	2,657	1,897
	1931	31	1,669	1,767	1,861	4,219	2,858
Machinery, not including transportation equipment, total.	1937	9,961	955,975	1,375,506	2,424,495	5,891,599	3,467,105
	[33] 1935	10,114	687,465	800,020	1,405,792	3,492,701	2,086,909
	[33] 1933	8,442	470,580	444,567	724,217	1,887,842	1,163,625
	[33] 1931	11,468	695,297	797,510	1,218,187	3,415,078	2,196,892
Agricultural implements (including tractors).	1937	262	77 512	121 861	286,514	564,778	278,265
	1935	241	52,866	64,321	140,249	291,254	151,005
	[34] 1933	194	19,264	18,502	29,006	64,951	35,945
	[34] 1931	250	29,245	32,265	69,782	168,318	98,536
Cash registers, adding and calculating machines, and other business machines except typewriters.	1937	87	23,630	37,422	21,245	138,071	116,826
	1935	93	18,468	23,696	13,911	94,739	80,828
	[35] 1933	73	12,448	14,926	7,849	50,831	42,982
	[35] 1931	41	12,176	14,982	5,269	56,474	51,205
Cranes, and dredging, excavating, and road-building machinery. [36]	1937	158	18,800	28,151	64,193	138,848	74,656
	1935	128	10,808	12,572	20,010	62,860	33,850
Electrical machinery, apparatus, and supplies.	1937	1,435	257,660	355,959	642,867	1,622,098	979,232
	1935	1,393	179,641	198,046	372,001	960,430	588,430
	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
Engines, turbines, water wheels and windmills.	1937	139	32,855	50,838	86,601	194,695	108,094
	1935	149	22,062	26,845	43,206	99,996	56,790
	[34] 1933	153	15,411	14,853	23,436	56,619	33,183
	[34] 1931	173	22,414	26,075	44,977	109,933	64,956
Machine-shop products [37]	1937	2,957	109,245	155,337	262,142	652,751	390,609
	1935	3,026	82,474	97,454	174,184	418,054	243,870
	1933	2,895	70,947	66,392	104,760	274,568	169,808

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[20] Revised; revision not carried into group total.
[33] The figures for 1935 and 1933 have been revised by excluding figures for the "Boiler-shop products" and "Foundry products (gray-iron and malleable-iron)" industries which have been transferred to "Iron and steel and their products, except machinery" group. The figures for 1931 have not been revised as there are no figures available for these industries for 1931.
[34] Beginning 1935 figures for tractors excluded from "Engines, turbines, water wheels, and windmills" and included with "Agricultural implements (including tractors)." The 1933 and 1931 figures for these industries have been revised accordingly.
[35] Manufacturers of duplicating machines, check-writing machines, and manifolding machines, now classified in this industry, prior to 1935 were assigned to the abandoned industry "Foundry and machine-shop products." Figures for 1933 have been revised accordingly, but no revision has been made for 1931.
[36] New industry at the Census for 1935; formerly a part of the abandoned industry classification "Foundry and machine-shop products." No figures available for earlier years.
[37] No figures available for 1931; included with those for the abandoned industry "Foundry and machine-shop products" for 1931.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Machinery—Continued.							
Machinery not elsewhere classified.[38]	1937	2,298	146,712	217,737	375,647	964,151	588,504
	1935	2,532	107,285	128,895	215,006	566,605	351,598
Machine-tool accessories and machinists' precision tools.	1937	806	32,893	55,957	46,002	162,002	116,000
	1935	731	23,138	34,414	27,413	96,838	69,424
	1933	587	12,757	14,159	10,882	44,383	33,501
	1931	718	17,533	26,559	16,320	69,033	52,713
Machine tools	1937	292	47,266	78,284	78,115	260,243	182,128
	1935	259	28,185	37,261	36,689	121,833	85,143
	1933	232	12,714	12,596	10,844	41,434	30,589
	1931	279	21,262	25,150	21,901	81,287	59,386
Printers' machinery and equipment.[36]	1937	230	13,716	22,378	20,966	78,628	57,662
	1935	238	9,884	13,582	13,131	51,560	38,429
Pumps (hand and power), pumping equipment, and air compressors.	1937	345	28,320	39,773	85,061	198,721	113,661
	[39] 1935	348	17,523	20,170	41,593	102,298	60,704
	[39] 1933	277	12,469	11,771	23,798	55,910	32,111
	[39] 1931	324	17,010	19,023	38,906	96,562	57,656
Radios, radio tubes, and phonographs.	1937	162	48,343	52,002	154,906	277,807	122,902
	1935	196	44,796	42,906	103,686	200,973	97,286
	1933	156	32,879	20,655	58,521	121,802	63,281
	1931	217	36,490	35,146	88,403	193,143	104,740
Refrigerators and refrigerating and ice-making apparatus.	1937	280	50,623	71,371	195,229	363,788	168,559
	1935	275	37,146	40,443	116,925	224,114	107,189
	1933	204	26,398	24,335	69,601	140,762	71,161
	1931	227	26,116	32,350	88,562	199,427	110,865
Scales and balances	1937	57	3,299	4,115	5,858	17,856	11,998
	1935	56	2,468	2,633	3,816	13,384	9,568
	1933	45	2,187	1,825	2,162	8,333	6,171
	1931	54	2,814	3,233	3,644	14,561	10,917
Sewing machines and attachments.	1937	36	9,019	13,551	9,003	34,836	25,833
	1935	39	7,509	9,053	6,032	22,635	16,604
	1933	30	6,313	6,034	2,862	12,926	10,064
	1931	34	8,090	8,792	6,091	20,148	14,057
Textile machinery and parts	1937	356	25,340	33,139	35,546	107,429	71,883
	1935	349	19,072	21,246	23,269	68,846	45,577
	1933	314	18,576	18,737	18,378	60,323	41,945
	1931	330	18,808	21,238	18,175	65,798	47,623
Typewriters and parts	1937	21	21,440	25,956	13,392	45,006	31,614
	1935	20	15,398	16,632	8,630	33,858	25,228
	1933	14	9,591	7,565	3,256	16,465	13,208
	1931	20	10,924	10,328	3,785	22,057	18,271

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[36] New industry at the Census for 1935; formerly a part of the abandoned industry classification "Foundry and machine-shop products." No figures available for earlier years.
[38] New industry at the Census for 1935; formerly a part of the abandoned industry classification "Foundry and machine-shop products." The figures for 1935 have been revised to exclude data for air compressors, now a part of "Pumps, pumping equipment, and air compressors." No figures available for earlier years.
[39] Figures revised to include data for air compressors, classified in "Machinery not elsewhere classified" at the Census for 1935 and in the abandoned industry "Foundry and machine-shop products" in previous years.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Machinery—Continued.							
Washing machines, wringers, driers, and ironing machines, for household use.	1937	40	9,302	11,675	41,208	69,889	28,680
	1935	41	8,742	9,852	37,041	62,425	25,384
	1933	41	6,956	6,363	24,361	44,542	20,181
	1931	59	6,201	7,212	24,521	50,929	26,408
Foundry and machine-shop products, not elsewhere classified.[40]	1933	2,018	80,813	81,045	121,987	340,564	218,577
	1931	7,363	286,108	330,669	450,726	1,272,399	821,673
Transportation equipment, air, land, and water, total. [41]	1937	1,942	623,845	967,231	4,099,756	5,985,889	1,886,134
	1935	1,813	475,971	651,954	2,983,065	4,290,117	1,307,053
	1933	1,505	303,402	316,438	1,286,619	2,047,210	760,592
	1931	1,999	369,600	464,130	1,729,837	2,881,856	1,152,019
Aircraft and parts	1937	92	24,003	33,353	38,805	106,568	67,763
	1935	79	11,384	14,893	14,361	45,347	30,986
	1933	64	7,816	10,308	7,957	26,460	18,503
	1931	101	9,870	15,481	13,101	40,278	27,177
Carriages, wagons, sleighs, and sleds.	1937	43	1,823	1,723	4,633	9,138	4,505
	1935	45	1,592	1,284	3,683	6,845	3,162
	1933	53	1,409	922	2,350	4,753	2,402
	[42] *1931*	*70*	*1,321*	*1,199*	*2,494*	*5,160*	*2,666*
	1931	75	1,431	1,389	2,918	6,179	3,261
Cars, electric and steam railroad, not built in railroad repair shops.	1937	154	40,466	59,276	226,505	335,322	108,817
	1935	150	21,481	25,756	61,732	100,542	38,810
	1933	138	14,266	14,710	27,311	46,148	18,837
	1931	152	18,785	25,553	59,754	99,657	39,903
Locomotives, railroad, mining, and industrial, not built in railroad repair shops.	1937	13	9,000	14,845	39,266	72,123	32,857
	1935	14	3,790	3,972	9,493	17,383	7,890
	1933	13	2,374	1,863	4,266	6,927	2,661
	1931	16	5,443	5,590	14,871	22,119	7,248
Motorcycles, bicycles, and parts	1937	29	6,938	8,207	19,793	36,044	16,251
	1935	23	5,093	5,214	12,813	23,086	10,273
	1933	19	3,038	2,639	6,162	12,055	5,894
	1931	19	3,294	3,563	5,520	13,697	8,177
Motor-vehicle bodies and motor-vehicle parts.	1937	936	284,814	439,940	1,275,073	2,080,018	804,945
	1935	825	240,757	328,375	1,005,059	1,550,924	545,866
	1933	701	145,745	148,322	[20] 437,186	[20] 756,034	[20] 318,848
	1931	940	150,649	193,770	516,045	945,407	428,461
Motor vehicles, not including motorcycles.	1937	131	194,527	316,141	2,394,269	3,096,219	701,949
	1935	121	147,044	217,039	1,814,814	2,391,090	576,276
	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
Ship and boat building, steel and wooden, including repair work.	1937	544	62,274	93,747	101,411	250,457	149,046
	1935	556	44,830	55,422	61,109	154,900	93,790
	1933	395	30,885	33,890	31,172	92,696	61,524
	1931	518	45,262	62,028	72,322	186,993	114,671

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[20] Revised; revision not carried into group total.
[40] This industry abandoned as a separate classification at the Census for 1935; divided into 6 industries. The 1933 and 1931 figures were not in all cases assigned to the industry classifications.
[41] Excludes figures for "Carriages and sleds, children's." See "Miscellaneous industries" group.
[42] Manufacturers of lunch wagons, classified in this industry prior to 1933, are now assigned to "Planing-mill products" industry in "Forest products" group. These figures have been revised for comparison with later years.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Miscellaneous industries, total	1937	10,077	355,164	366,083	1,633,610	2,712,042	1,078,432
	[43] 1935	11,211	310,140	284,628	1,344,995	2,227,258	882,263
	[43] 1933	8,695	262,583	205,842	1,005,854	1,688,621	682,766
	[43] 1931	11,781	302,672	305,625	1,285,776	2,322,890	1,037,113
Musical instruments, total	1937	187	11,971	14,089	17,161	43,265	26,104
	1935	192	8,805	8,738	10,188	26,633	16,446
	1933	170	6,106	5,097	5,424	15,715	10,292
	1931	230	10,003	11,152	10,762	32,207	21,445
Organs	1937	34	1,086	1,235	1,474	4,637	3,163
	1935	28	614	611	592	1,699	1,107
	1933	29	574	510	387	1,627	1,240
	1931	42	1,460	1,763	1,627	5,710	4,083
Pianos	1937	38	5,698	7,062	9,767	21,703	11,936
	1935	36	4,110	4,089	5,606	12,688	7,082
	1933	36	2,700	2,382	2,828	7,243	4,415
	1931	50	4,737	5,157	5,892	15,293	9,401
Piano and organ parts and materials.	1937	32	1,778	1,716	2,114	4,978	2,864
	1935	34	1,217	1,029	1,224	3,186	1,962
	1933	33	768	527	584	1,732	1,148
	1931	50	1,213	1,178	1,005	3,090	2,085
Musical instruments and parts and materials, not elsewhere classified.	1937	83	3,409	4,075	3,806	11,948	8,141
	1935	94	2,864	3,010	2,765	9,060	6,295
	1933	72	2,064	1,678	1,624	5,114	3,490
	1931	88	2,593	3,053	2,238	8,114	5,875
Tobacco manufactures, total	1937	852	92,158	70,291	[44] 947,628	1,272,688	325,059
	1935	890	90,543	59,448	[44] 809,025	1,093,400	284,375
	1933	804	87,325	50,933	[44] 659,095	909,082	249,987
	1931	1,228	99,769	69,411	[44] 785,502	1,155,851	370,349
Cigarettes	1937	34	26,149	24,182	[44] 771,522	968,927	197,405
	1935	29	24,447	18,315	[44] 641,313	806,690	165,377
	1933	27	22,544	13,835	[44] 503,560	637,776	134,216
	1931	40	20,146	14,664	[44] 555,049	759,389	204,340
Cigars	1937	693	55,879	37,522	[44] 87,341	169,237	81,895
	1935	746	56,019	33,503	[44] 77,814	151,265	73,451
	1933	665	54,558	30,061	[44] 72,580	139,372	66,783
	1931	1,063	68,182	46,074	[44] 119,295	227,340	108,054
Tobacco (chewing and smoking) and snuff.	1937	125	10,130	8,587	[44] 88,766	134,524	45,750
	1935	115	10,077	7,629	[44] 89,898	135,445	45,547
	1933	112	10,223	7,037	[44] 82,946	131,935	48,988
	1931	125	11,441	8,673	[44] 111,158	169,113	57,955
Other industries, total	1937	9,038	251,035	281,703	668,820	1,396,089	727,269
	[43] 1935	10,129	210,792	216,442	525,782	1,107,224	581,442
	[43] 1933	7,721	169,154	149,812	341,336	763,823	422,487
	[43] 1931	10,323	192,900	[20] 225,278	489,512	1,134,832	645,320
Artificial and preserved flowers and plants.	1937	189	5,657	3,893	6,175	14,378	8,202
	1935	190	3,206	2,609	3,383	8,994	5,611
	1933	131	2,338	1,567	2,481	6,445	3,964
	1931	158	2,348	2,140	3,415	9,035	5,620

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[20] Revised; revision not carried into group total.
[43] Revised to include data for "Carriages and sleds, children's" industry. Until the Census for 1937 this industry was included in "Transportation equipment, air, land, and water" group.
[44] Amount of internal-revenue tax paid by tobacco, cigar, and cigarette manufacturers included to avoid inflating "Value added by manufacture."

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Miscellaneous industries—Con.							
Artists' materials	1937	40	372	403	1,282	2,783	1,501
	1935	47	350	336	1,229	2,431	1,202
	1933	38	265	259	989	2,137	1,148
	1931	45	328	368	1,211	2,544	1,333
Beauty-shop equipment, except furniture.[45]	1937	73	2,548	2,480	5,334	13,571	8,238
	1935	82	2,179	1,968	5,059	12,525	7,466
Brooms	1937	289	4,067	2,906	6,301	11,628	5,327
	1935	348	4,158	3,072	7,515	14,338	6,824
	1933	260	3,757	2,111	4,601	9,073	4,472
	1931	334	4,086	[20] 3,326	6,264	13,135	6,871
Brushes, other than rubber	1937	243	7,915	7,250	24,110	44,537	20,426
	1935	250	6,818	6,007	18,857	42,091	23,234
	1933	221	5,809	4,821	12,200	24,576	12,376
	1931	264	5,891	5,992	14,228	30,827	16,600
Buttons	1937	291	12,026	9,256	13,578	31,291	17,713
	1935	297	10,288	8,151	11,275	28,031	16,756
	1933	200	9,888	6,706	8,614	22,412	13,798
	1931	212	8,224	6,661	8,303	21,525	13,221
Carbon paper and inked ribbons	1937	50	1,627	1,991	9,178	17,860	8,681
	1935	56	1,425	1,629	7,502	14,695	7,193
	1933	47	1,171	1,243	5,157	11,225	6,069
	1931	54	1,198	1,463	6,034	13,476	7,442
Carriages and sleds, children's	1937	54	5,218	5,415	9,960	19,655	9,696
	1935	55	4,918	4,360	7,432	15,511	8,080
	1933	46	3,971	2,877	5,671	10,985	5,314
	1931	59	4,159	4,479	7,091	16,769	9,679
Dentists' equipment and supplies.	1937	101	4,574	5,347	12,717	30,879	18,162
	1935	87	3,516	3,631	9,145	22,968	13,823
	1933	79	3,120	2,452	6,945	16,437	9,492
	1931	84	3,874	3,949	9,362	24,005	14,643
Feathers, plumes, and manufactures thereof.	1937	61	559	437	1,193	2,320	1,126
	1935	73	573	423	612	1,646	1,034
	1933	40	322	265	227	835	608
	1931	53	527	559	588	1,898	1,310
Foundry supplies	1937	51	466	592	4,739	8,626	3,886
	1935	46	400	446	3,446	6,519	3,074
	1933	40	334	315	1,326	2,788	1,462
	1931	52	428	492	2,080	3,998	1,918
Fur goods—regular factories [46]	1937	1,590	12,798	21,369	106,206	154,971	48,765
Fur goods—contract factories [46]	1937	52	154	191	138	634	495
Fur goods [46]	1935	2,438	12,510	21,040	90,992	143,784	52,793
	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

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[20] Revised; revision not carried into group total.
[45] New classification at the Census for 1935; no comparable figures available for earlier years.
[46] At the Census for 1937 the industry "Fur goods" was separated into two industries, "Fur goods—regular factories" and "Fur goods—contract factories." Because of the fact that some establishments lose their identity during a 2-year period through change of name, ownership, and location, and, therefore, may be missed by a canvass made largely by mail, the 1937 figures for this industry are not complete and are not comparable with the figures for the "Fur goods" industry for prior years.

No. 814.—Manufactures—Summary for Industry Groups and Industries: 1931 to 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Miscellaneous industries—Con.							
Furs, dressed and dyed	1937	121	6,343	8,335	6,449	21,763	15,314
	1935	167	6,434	7,561	7,007	21,340	14,333
	1933	181	5,364	6,246	9,540	24,948	15,408
	1931	243	5,160	7,968	16,221	37,873	21,652
Hair work	1937	35	434	374	942	2,449	1,507
	1935	43	502	438	1,064	2,738	1,674
	1933	37	228	188	306	986	679
	1931	52	207	288	311	1,184	874
Hand stamps and stencils and brands.	1937	266	2,375	2,929	3,047	10,386	7,339
	1935	277	2,255	2,532	2,750	9,338	6,588
	1933	256	2,196	2,062	1,855	7,637	5,782
	1931	288	2,496	3,371	2,395	10,045	7,651
Instruments and apparatus, professional, scientific, commercial, and industrial.[47]	1937	283	17,399	23,543	29,684	96,013	66,329
	1935	283	15,216	17,573	20,714	68,344	47,630
	1933	241	8,894	9,183	9,586	35,915	26,328
	1931	302	13,341	15,912	15,953	59,447	43,495
Jewelry and instrument cases	1937	91	4,788	3,692	4,860	12,202	7,343
	[4] 1935	74	2,629	2,252	2,602	7,156	4,553
	1933	62	1,095	841	1,134	3,096	1,961
	1931	92	1,398	1,415	1,941	4,919	2,978
Lapidary work	1937	51	217	306	3,343	4,391	1,048
	1935	60	153	201	1,244	2,050	806
	1933	34	107	124	483	823	340
	1931	53	205	340	1,378	2,475	1,097
Mattresses and bed springs not elsewhere classified.	1937	839	19,165	19,811	63,190	113,120	49,929
	1935	824	15,404	14,668	48,949	84,811	35,862
	1933	645	13,280	10,694	32,491	59,724	27,233
	1931	781	13,622	14,702	37,509	77,508	39,999
Miscellaneous articles not elsewhere classified.	1937	595	15,854	12,905	24,156	54,404	30,248
	[48] 1935	666	14,452	12,025	21,492	50,353	28,861
	[48] 1933	574	13,435	9,894	16,644	41,811	25,167
	[48] 1931	732	14,545	13,690	23,217	57,050	33,833
Models and patterns, not including paper patterns.	1937	594	5,728	9,762	4,142	22,289	18,147
	1935	582	4,104	6,128	3,244	15,297	12,053
	1933	422	2,795	3,525	1,483	8,627	7,145
	1931	649	4,332	7,378	2,787	16,192	13,405
Optical goods	1937	96	11,998	14,465	14,432	47,461	33,029
	1935	100	9,667	10,333	11,114	33,600	22,486
	1933	103	7,598	7,300	8,155	26,214	18,059
	1931	102	7,446	8,756	7,524	27,887	20,364
Paving materials: Blocks (except brick and stone) and mixtures.	1937	148	1,946	2,419	14,605	25,289	10,683
	1935	132	2,231	2,514	9,984	17,885	7,901
	1933	93	1,151	1,215	6,287	10,950	4,663
	1931	97	1,081	1,556	8,587	16,003	7,416

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[4] Revised; revision not carried into subgroup or group total.
[47] Manufacturers of gas and water meters, prior to 1935, assigned to "Meters (gas, water, etc.) and gas generators" industry in "Machinery, except transportation equipment" group, are now classified in this industry. The figures for years prior to 1935 have been revised accordingly, but the revision has not been carried into the total for the group and subgroup.
[48] Revised to include figures for "Combs and hairpins not made of metal or of rubber" industry, abandoned as a separate classification.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Miscellaneous industries—Con.							
Pencils, lead (including mechanical), and crayons.	1937	46	5,776	5,216	9,866	22,430	12,564
	1935	47	5,182	4,236	8,255	19,999	11,744
	1933	43	4,048	3,167	5,134	14,394	9,260
	1931	46	3,969	3,700	6,128	17,237	11,109
Pens, fountain and stylographic; pen points, gold, steel, and brass.	1937	42	4,343	4,352	7,385	21,828	14,443
	1935	51	3,780	3,428	5,796	17,888	12,091
	1933	54	3,099	2,341	4,124	11,598	7,473
	1931	68	3,945	4,364	7,219	23,799	16,579
Photographic apparatus and materials and projection apparatus.	1937	109	18,450	28,876	36,653	115,888	79,235
	1935	118	12,000	15,807	26,150	73,966	47,817
	1933	84	8,975	10,155	11,985	53,860	41,875
	1931	110	10,609	13,082	20,868	79,507	58,639
Pipes (tobacco)	1937	25	2,382	2,413	2,523	7,647	5,124
	1935	29	2,240	2,283	2,019	6,176	4,158
	1933	22	1,362	1,145	960	3,274	2,314
	1931	24	1,677	1,761	1,776	5,522	3,747
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.	1937	111	7,418	9,520	62,644	102,562	39,917
	1935	108	6,478	6,685	44,325	76,173	31,847
	1933	74	4,418	4,436	23,803	44,833	20,940
	1931	83	4,123	5,331	32,706	58,963	26,257
Signs and advertising novelties	1937	1,001	16,042	19,181	27,754	75,723	47,969
	1935	1,075	13,712	14,932	21,020	61,362	39,442
	1933	848	12,044	11,577	15,312	47,144	31,832
	1931	1,078	14,403	18,485	21,297	74,681	53,384
Soda fountains and related products.	1937	51	1,655	2,549	6,263	13,033	6,770
	1935	48	1,096	1,436	4,171	8,214	4,043
	1933	40	816	948	2,649	6,035	3,386
	1931	47	1,563	2,190	5,236	14,606	9,370
Sporting and athletic goods, not including firearms or ammunition.	1937	204	11,392	11,730	21,857	44,461	22,603
	1935	196	9,665	9,018	16,720	34,864	18,143
	1933	176	8,215	6,523	10,570	25,267	14,698
	1931	217	10,176	11,219	20,099	49,257	29,159
Stationery goods not elsewhere classified.[49]	1933	86	3,467	2,738	6,818	14,241	7,423
	[4] 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.	1937	125	5,934	6,930	15,048	32,554	17,506
	[50] 1935	124	4,774	4,742	11,768	24,258	12,491
	[50] 1933	118	4,285	3,785	8,728	19,390	10,661
	[50] 1931	131	4,120	4,545	10,253	22,647	12,394
Surgical and orthopedic appliances and related products.	1937	323	8,423	8,546	45,031	77,068	32,037
	1935	307	7,089	6,288	36,144	61,764	25,620
	1933	250	6,958	6,119	28,846	51,442	22,596
	1931	325	6,740	7,271	22,954	51,012	28,058
Theatrical scenery and stage equipment.	1937	50	397	489	1,189	2,678	1,489
	1935	48	279	437	751	1,937	1,186
	1933	40	312	397	617	2,044	1,427
	1931	45	365	649	1,218	3,003	1,784

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not, except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.
[4] Revised; revision not carried into subgroup or group total.
[49] Abandoned as a separate classification in 1935, now assigned to other industries.
[50] Revised to exclude data for establishments manufacturing mineral wool as a primary product, such establishments having been transferred to "Wallboard and plaster (except gypsum), building insulation, and floor composition" industry in "Stone, clay, and glass products" group. Revision not carried into total for group or subgroup.

No. 814.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS AND INDUSTRIES: 1931 TO 1937—Continued

Group or industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [1]	Value of products	Value added by manufacture [2]
				In thousands of dollars			
Miscellaneous industries—Con.							
Toys (not including children's wheel goods or sleds), games, and playground equipment.	1937	344	17,547	15,020	28,812	63,856	35,044
	1935	384	15,375	12,120	23,935	52,156	28,222
	1933	285	12,484	8,877	17,119	37,222	20,103
	1931	380	13,231	12,380	21,515	53,601	32,086
Umbrellas, parasols, and canes	1937	81	3,088	2,572	8,042	13,237	5,196
	1935	83	2,186	1,712	6,159	10,086	3,927
	1933	80	2,155	1,531	4,972	8,259	3,287
	1931	93	1,852	1,611	5,136	9,115	3,979
Window shades (textile and paper), and fixtures.	1937	304	3,166	3,173	13,294	23,574	10,280
	1935	319	2,999	2,710	12,223	20,324	8,101
	1933	312	2,903	2,264	9,115	16,170	7,055
	1931	448	3,119	3,313	11,198	20,562	9,364
Wool pulling	1937	19	794	1,064	12,695	16,651	3,956
	1935	17	866	975	9,065	12,403	3,338
	1933	16	678	670	7,087	10,226	3,138
	1931	14	640	915	5,359	7,378	2,019

[1] Figures for 1937 and 1935 include cost of contract work; those for 1933 and 1931 do not; except as noted.
[2] Value added by manufacture calculated for 1937 and 1935 by subtracting cost of materials, etc., fuel, purchased energy, and contract work from value of products; for 1933 and 1931 figures for contract work are not available except for a few industries.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 815.—Manufactures—Summary, by States: 1935 and 1937

[See general note, p. 772]

	Census year	Number of establishments	Salaried officers and employees [1]	Wage earners (average for the year) [1]	Salaries	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [2]	Value of products [2]	Value added by manufacture [3]
					In thousands of dollars				
United States	1937	166, 794	1, 217, 171	8, 569, 231	2, 716, 866	10, 112, 883	35, 539, 333	60, 712, 872	25, 173, 539
	1935	167, 916	1, 058, 501	7, 203, 794	2, 253, 425	7, 311, 329	26, 441, 145	44, 993, 699	18, 552, 553
Geographic Divs.									
New England	1937	15, 568	131, 740	1, 022, 350	294, 813	1, 133, 392	2, 622, 660	5, 109, 918	2, 487, 258
	1935	15, 130	120, 129	902, 658	255, 348	882, 428	2, 029, 877	3, 931, 000	1, 901, 123
Middle Atlantic	1937	49, 897	378, 730	2, 386, 743	882, 402	2, 936, 510	9, 256, 477	16, 599, 776	7, 343, 298
	1935	53, 920	337, 748	2, 066, 784	757, 294	2, 199, 623	7, 010, 885	12, 562, 542	5, 551, 657
East North Central	1937	36, 773	380, 686	2, 571, 131	876, 111	3, 505, 767	11, 523, 928	19, 970, 059	8, 446, 131
	1935	36, 907	319, 114	2, 082, 293	682, 681	2, 400, 913	8, 295, 627	14, 353, 526	6, 057, 899
West North Central	1937	13, 834	76, 559	406, 176	153, 687	457, 489	2, 762, 949	4, 091, 727	1, 328, 778
	1935	13, 892	70, 185	345, 752	136, 072	343, 978	2, 257, 985	3, 308, 119	1, 050, 134
South Atlantic	1937	15, 751	84, 029	991, 825	176, 843	836, 180	3, 288, 204	5, 403, 450	2, 115, 245
	1935	15, 219	71, 689	856, 446	147, 930	625, 845	2, 491, 453	4, 025, 611	1, 534, 158
East South Central	1937	6, 681	34, 198	370, 412	69, 757	297, 939	1, 186, 135	1, 977, 318	791, 183
	1935	6, 382	30, 135	303, 955	58, 462	214, 281	868, 172	1, 449, 201	581, 029
West South Central	1937	8, 582	41, 492	272, 389	80, 359	251, 833	1, 877, 111	2, 693, 027	815, 916
	1935	8, 179	34, 731	214, 213	65, 828	177, 033	1, 332, 061	1, 892, 782	560, 721
Mountain	1937	3, 683	13, 784	78, 774	27, 032	96, 678	639, 194	928, 951	289, 757
	1935	3, 302	12, 254	61, 997	23, 065	66, 197	406, 883	599, 460	192, 576
Pacific	1937	16, 025	75, 953	469, 431	155, 862	597, 096	2, 382, 675	3, 938, 647	1, 555, 972
	1935	14, 895	62, 516	369, 696	126, 745	401, 030	1, 748, 202	2, 871, 457	1, 123, 255
New England:									
Maine	1937	1, 171	6, 432	75, 464	13, 452	72, 263	197, 526	348, 636	151, 111
	1935	1, 189	6, 067	68, 603	12, 141	58, 027	154, 515	271, 731	117, 216
New Hampshire	1937	794	4, 819	56, 517	10, 473	55, 235	144, 323	249, 632	105, 309
	1935	775	4, 688	53, 833	9, 154	47, 812	116, 357	207, 091	90, 734
Vermont	1937	683	2, 871	23, 682	6, 038	24, 615	58, 772	111, 876	53, 104
	1935	660	2, 498	18, 870	5, 014	17, 598	41, 323	80, 847	39, 524
Massachusetts	1937	8, 619	68, 204	496, 036	154, 043	556, 077	1, 364, 299	2, 620, 789	1, 256, 490
	1935	8, 266	62, 677	437, 459	136, 377	438, 416	1, 084, 175	2, 060, 045	975, 871
Rhode Island	1937	1, 409	12, 384	108, 031	28, 872	112, 933	276, 739	517, 196	240, 458
	1935	1, 420	11, 132	100, 852	24, 921	94, 322	225, 590	411, 886	186, 296
Connecticut	1937	2, 892	37, 030	262, 620	81, 936	312, 270	581, 002	1, 261, 789	680, 787
	1935	2, 820	33, 067	223, 041	67, 741	226, 253	407, 918	899, 401	491, 483
Middle Atlantic:									
New York	1937	29, 749	188, 616	995, 658	438, 861	1, 236, 048	3, 998, 266	7, 314, 447	3, 316, 180
	1935	33, 569	173, 460	878, 592	390, 068	991, 678	3, 307, 515	5, 963, 850	2, 656, 335
New Jersey	1937	7, 064	67, 496	436, 745	160, 526	523, 504	1, 890, 539	3, 253, 246	1, 362, 708
	1935	7, 425	59, 037	373, 522	136, 686	391, 924	1, 382, 469	2, 407, 323	1, 024, 855
Pennsylvania	1937	13, 084	122, 618	954, 340	283, 014	1, 176, 957	3, 367, 673	6, 032, 083	2, 664, 410
	1935	12, 926	105, 251	814, 670	230, 540	816, 022	2, 320, 901	4, 191, 369	1, 870, 467
E. North Central:									
Ohio	1937	9, 138	104, 016	694, 205	242, 874	957, 650	2, 793, 190	5, 099, 817	2, 306, 627
	1935	9, 142	88, 593	579, 522	192, 696	665, 855	2, 005, 768	3, 660, 904	1, 655, 136
Indiana	1937	3, 939	43, 581	313, 342	93, 480	402, 117	1, 478, 568	2, 497, 548	1, 018, 980
	1935	3, 917	37, 086	248, 196	73, 708	257, 802	946, 284	1, 649, 530	703, 246
Illinois	1937	11, 764	118, 256	668, 841	273, 835	862, 793	2, 985, 247	5, 304, 283	2, 319, 036
	1935	12, 018	99, 214	525, 945	215, 942	581, 388	2, 131, 031	3, 743, 099	1, 612, 069
Michigan	1937	5, 614	76, 219	660, 676	183, 414	986, 841	3, 204, 438	5, 296, 101	2, 091, 663
	1935	5, 544	60, 246	531, 658	132, 698	601, 666	2, 428, 059	3, 986, 178	1, 558, 119
Wisconsin	1937	6, 318	38, 614	234, 067	82, 507	296, 365	1, 062, 486	1, 772, 310	709, 824
	1935	6, 286	33, 975	196, 972	67, 637	204, 201	784, 486	1, 313, 815	529, 329
W. North Central:									
Minnesota	1937	3, 718	17, 424	89, 925	35, 923	107, 393	624, 565	937, 463	312, 898
	1935	3, 701	16, 751	76, 241	32, 737	77, 974	500, 843	746, 351	245, 507
Iowa	1937	2, 454	13, 886	67, 878	25, 490	76, 193	473, 395	709, 458	236, 064
	1935	2, 457	12, 277	56, 541	21, 604	55, 483	398, 718	575, 371	176, 653
Missouri	1937	4, 291	29, 843	186, 831	64, 001	202, 586	944, 985	1, 505, 383	560, 398
	1935	4, 379	27, 193	157, 683	56, 577	153, 735	742, 709	1, 183, 637	440, 928
North Dakota	1937	340	839	2, 854	1, 433	3, 192	35, 571	45, 837	10, 266
	1935	320	831	2, 551	1, 337	2, 742	32, 357	41, 333	8, 976
South Dakota	1937	434	1, 281	4, 970	2, 198	5, 485	52, 897	67, 276	14, 380
	1935	403	1, 138	4, 400	1, 949	4, 398	44, 722	56, 026	11, 305
Nebraska	1937	1, 071	4, 899	19, 590	9, 049	22, 126	215, 077	282, 502	67, 424
	1935	1, 140	4, 810	17, 855	8, 708	18, 129	189, 332	247, 727	58, 395
Kansas	1937	1, 526	8, 387	34, 128	15, 594	40, 513	416, 459	543, 807	127, 348
	1935	1, 492	7, 185	30, 481	13, 160	31, 518	349, 304	457, 675	108, 371

For footnotes, see p. 810.

No. 815.—MANUFACTURES—SUMMARY, BY STATES: 1935 AND 1937—Contd.

	Census year	Number of establishments	Salaried officers and employees [1]	Wage earners (average for the year) [1]	Salaries	Wages	Cost of materials, etc., fuel, purchased energy, and contract work [2]	Value of products [2]	Value added by manufacture [3]
					In thousands of dollars				
South Atlantic:									
Delaware	1937	359	2,679	21,052	6,329	22,992	65,980	124,384	58,404
	1935	339	2,232	16,532	4,703	15,250	46,604	83,015	36,411
Maryland	1937	2,683	18,436	145,932	40,787	156,995	665,027	1,095,863	430,836
	1935	2,679	15,482	117,245	32,516	108,282	444,919	741,608	296,689
Dist. of Columbia	1937	469	5,043	8,714	9,521	12,848	31,451	74,108	42,657
	1935	490	3,986	8,115	8,778	11,953	28,884	66,232	37,348
Virginia	1937	2,384	11,791	132,643	25,388	112,774	572,374	908,222	335,848
	1935	2,241	10,238	113,654	21,259	86,377	450,500	697,530	247,029
West Virginia	1937	1,057	8,061	83,464	18,295	102,511	257,752	480,526	222,774
	1935	1,027	6,680	74,180	14,492	76,650	198,820	366,574	167,754
North Carolina	1937	2,896	13,139	258,771	29,050	189,265	908,903	1,384,738	475,834
	1935	2,599	12,082	227,100	25,595	148,922	735,018	1,103,911	368,893
South Carolina	1937	1,193	5,434	129,748	11,841	91,792	234,433	409,912	175,478
	1935	1,121	4,808	108,558	10,163	65,946	184,618	297,156	112,538
Georgia	1937	2,875	12,549	159,496	23,629	110,501	439,145	708,652	269,507
	1935	2,834	10,546	139,650	20,245	81,495	327,406	514,655	187,249
Florida	1937	1,835	6,897	52,005	12,003	36,501	113,138	217,045	103,907
	1935	1,889	5,635	51,412	10,179	30,961	74,683	154,930	80,247
E. South Central:									
Kentucky	1937	1,624	8,801	68,998	18,298	66,249	323,002	504,897	181,896
	1935	1,621	8,966	60,809	17,423	53,058	284,289	450,676	166,386
Tennessee	1937	2,083	13,359	135,073	27,241	109,248	412,360	707,987	295,627
	1935	1,991	11,002	112,434	22,015	81,246	302,432	520,969	218,537
Alabama	1937	1,874	8,832	120,301	18,511	96,058	336,328	573,764	237,436
	1935	1,711	7,417	94,345	14,201	60,643	210,642	357,226	146,584
Mississippi	1937	1,100	3,206	46,040	5,708	26,384	114,446	190,671	76,225
	1935	1,059	2,750	36,367	4,823	19,334	70,809	120,330	49,521
W. South Central:									
Arkansas	1937	1,048	3,251	37,280	6,095	24,734	99,089	164,676	65,587
	1935	1,066	2,915	29,076	5,181	17,328	74,108	119,341	45,233
Louisiana	1937	1,684	9,645	76,057	18,919	60,203	380,984	580,840	199,856
	1935	1,611	8,359	61,664	15,659	44,982	290,577	433,520	142,943
Oklahoma	1937	1,428	6,042	29,551	12,066	34,390	255,470	366,089	110,618
	1935	1,335	5,306	24,349	10,122	24,521	203,258	280,676	77,418
Texas	1937	4,422	22,554	129,501	43,280	132,505	1,141,568	1,581,422	439,854
	1935	4,167	18,151	99,124	34,867	90,202	764,118	1,059,245	295,128
Mountain:									
Montana	1937	515	1,952	11,268	3,936	15,758	134,041	176,279	42,238
	1935	478	1,581	8,725	3,177	10,592	92,863	122,430	29,568
Idaho	1937	533	1,319	12,797	2,485	16,250	63,633	101,325	37,691
	1935	455	1,176	9,635	2,050	10,738	41,319	64,988	23,668
Wyoming	1937	235	824	3,795	1,711	5,219	33,028	49,129	16,101
	1935	209	682	3,172	1,387	4,072	29,592	42,192	12,600
Colorado	1937	1,233	5,197	25,932	10,299	31,753	145,735	237,838	92,103
	1935	1,160	4,763	20,858	8,746	21,530	107,762	171,350	63,588
New Mexico	1937	241	506	3,683	768	2,992	11,485	20,599	9,114
	1935	197	404	2,827	718	2,233	7,812	13,573	5,761
Arizona	1937	290	1,288	7,193	2,823	8,602	84,721	118,356	33,635
	1935	272	1,000	4,748	2,207	5,034	39,283	55,456	16,173
Utah	1937	552	2,448	13,094	4,575	14,479	156,911	204,857	47,946
	1935	538	2,420	10,808	4,280	10,304	80,268	114,167	33,899
Nevada	1937	84	250	1,012	434	1,625	9,638	20,568	10,930
	1935	83	228	1,224	499	1,694	7,984	15,303	7,319
Pacific:									
Washington	1937	3,057	13,008	101,260	26,589	128,472	380,321	675,640	295,319
	1935	2,840	11,470	79,589	22,590	83,970	268,944	470,123	201,179
Oregon	1937	2,107	7,051	65,982	14,670	79,492	194,085	363,142	169,057
	1935	1,710	6,051	51,006	11,681	51,415	145,398	259,345	113,947
California	1937	10,861	55,894	302,189	114,603	389,132	1,808,269	2,899,865	1,091,597
	1935	10,345	44,995	239,101	92,475	265,645	1,333,860	2,141,990	808,130

[1] Does not include 173,403 employees for 1937 not classed as salaried officers or wage earners, for which no salary or wage data were collected. No data for 1935.
[2] See second paragraph of general note, p. 772.
[3] Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and cost of contract work from value of products for both years.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 816.—Manufactures—Summary for Industrial Areas: 1935 and 1937

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-Newark-Jersey 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-Camden 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. See also general note, p. 772.

[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	
	1935	1937	1935	1937	1935	1937	1935	1937
United States	7,203,794	8,569,231	7,311,329	10,112,883	44,993,699	60,712,872	18,552,553	25,173,539
Total for areas	4,023,883	4,768,548	4,547,403	6,251,249	27,207,890	36,279,316	11,951,021	15,443,924
Akron area	49,774	52,888	70,223	80,702	365,683	395,871	173,671	179,774
Albany-Schenectady-Troy area	37,649	44,085	39,896	57,190	205,811	304,469	111,324	158,876
Allentown-Bethlehem area	48,393	56,850	41,642	62,106	189,352	290,734	97,421	150,768
Baltimore area	84,415	105,615	83,861	124,623	613,650	925,761	249,299	352,495
Boston area	226,936	247,685	235,743	281,911	1,224,194	1,483,927	574,550	677,039
Bridgeport-New Haven-Waterbury area	122,187	146,077	124,110	173,309	529,780	761,229	286,250	396,284
Buffalo area	82,094	105,722	98,569	154,440	753,182	1,078,068	272,174	433,175
Chicago area	421,397	538,775	494,037	740,160	3,316,851	4,711,428	1,414,456	1,995,958
Cincinnati area	85,931	101,044	96,454	128,762	621,641	794,341	254,797	330,770
Cleveland area	138,310	163,319	163,394	232,570	856,370	1,210,522	402,778	570,486
Dayton area	34,257	47,388	43,032	72,594	204,760	315,584	121,401	185,702
Detroit area	330,676	406,882	465,429	648,515	2,657,006	3,409,351	1,025,648	1,304,953
Hartford area	55,138	70,079	59,845	89,474	216,320	314,894	135,029	194,556
Indianapolis area	34,244	41,254	36,097	50,356	227,681	297,483	107,419	142,475
Kansas City (Missouri and Kansas) area	36,668	41,410	40,209	49,857	474,050	549,273	122,373	139,767
Los Angeles area	94,013	128,555	105,848	164,763	838,623	1,205,280	321,288	466,080
Milwaukee area	99,123	120,957	113,772	172,675	599,791	871,529	286,091	395,288
Minneapolis-St. Paul area	46,637	55,509	49,754	69,316	432,517	533,733	166,756	205,528
New York City-Newark-Jersey City area	766,351	848,345	878,371	1,046,187	5,624,038	6,764,288	2,665,285	2,878,131
Philadelphia-Camden area	312,377	345,553	335,118	421,546	1,869,180	2,350,645	842,026	1,005,830
Pittsburgh area	174,717	227,675	195,232	348,762	1,032,912	1,746,908	450,352	767,357
Providence-Fall River-New Bedford area	141,891	158,075	127,763	157,766	526,159	670,564	251,428	316,731
Reading area	40,965	45,429	39,078	47,349	121,486	156,921	67,067	83,761
Rochester area	44,548	57,690	50,260	78,620	235,733	342,224	135,140	198,565
St. Louis area	115,325	140,876	120,931	171,719	875,228	1,202,719	339,117	465,275
San Francisco-Oakland area	76,963	88,414	91,274	122,916	825,618	1,052,353	292,289	356,821
Scranton-Wilkes-Barre area	33,302	33,363	26,391	28,380	105,953	133,635	55,724	65,297
Seattle-Tacoma area	30,631	39,103	34,263	51,292	218,823	307,401	85,963	115,586
Springfield-Holyoke area	39,693	46,187	41,780	57,242	192,997	258,177	98,113	132,139
Toledo area	37,606	41,716	44,541	59,023	261,069	334,092	126,720	142,985
Wheeling area	47,537	50,574	53,965	72,523	257,616	332,671	101,845	126,386
Worcester area	73,501	88,203	74,821	103,977	303,379	424,879	153,658	220,664
Youngstown area	60,634	83,251	71,704	130,626	430,437	748,362	163,570	288,420

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 817.—Textile Manufactures—Production, by Kind: 1935 and 1937

Note.—In general, most of the articles 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.

Product	Unit	Quantity (thousands of unit specified)		Value (thousands of dollars)	
		1935	1937	1935	1937
COTTON MANUFACTURES					
Total value				1,035,430	1,286,249
Ducks (except tire)	Sq. yard	150,371	222,814	37,110	45,452
Sheetings	do	*1,390,455*	*1,825,884*	*107,875*	*150,606*
Drills	do	178,698	281,809	18,629	27,482
Twills and sateens	do	265,338	343,574	31,587	41,728
Osnaburgs	do	141,372	153,093	15,220	16,206
Print cloth	do	1,610,281	2,121,066	100,951	133,125
Broadcloths and poplins	do	369,074	472,791	36,657	45,241
Pajama checks and dimities	do	22,990	45,958	1,780	4,206
Tobacco and cheesecloth and gauze	do	641,660	902,776	12,763	17,856
Napped fabrics	do	298,706	455,411	31,253	49,183
Blankets, all cotton, including crib (finished, not in the gray).[1]	do	58,019	110,400	10,893	18,995
Blankets, part-wool, containing less than 25 percent, by weight, of wool or similar fibers.[1]	do	(2)	53,905	(2)	10,535
Denims, pin stripes, pin checks, and hickory stripes.	do	206,367	245,965	33,527	38,481
Bed ticking	do	56,574	60,164	8,047	8,550
Shirtings	do	273,389	345,744	29,721	42,165
Ginghams (carded and combed yarn fabrics)	do	40,560	12,173	5,210	1,400
Cottonades and other coverts (except shirting coverts).	do	45,967	59,733	8,057	11,972
Voiles (combed or part-combed)	do	32,665	48,165	2,554	3,275
Organdies and lawns (combed or part-combed)	do	212,131	303,232	15,284	22,909
Tire fabrics	Pound	118,304	167,688	39,939	46,930
Towels, towelings, washcloths, bath mats, and terry-woven fabrics other than towels, etc.[3]	Sq. yard	*178,463*	*211,812*	*35,197*	*40,774*
Bedspread fabrics	do	49,041	57,219	8,109	9,155
Plushes, velvets, and velveteens	do	20,593	24,432	11,942	16,207
Corduroys	do	31,773	30,217	10,039	8,896
Cotton table damask	do	15,341	15,910	3,320	2,980
Drapery and upholstery fabrics (including tapestries), except fabrics classified as pile fabrics or fine goods.	do	104,560	115,033	26,276	30,049
Cotton narrow fabrics				41,158	43,205
Yarns made for sale	Pound	390,037	533,634	133,569	176,341
Thread	do	34,854	38,886	35,137	41,359
Tire cords on cones	do	75,676	93,093	24,368	28,155
Cotton waste made for sale	do	338,673	515,425	21,027	25,070
Other cotton products				138,229	127,756
LACE GOODS					
Total value				25,794	26,770
Nottingham lace curtains	Pair	9,572	10,690	11,328	12,079
Nottingham lace curtain nets	Lin. yard	4,886	5,190	1,148	1,377
Levers laces				9,980	9,766
Other lace products				3,337	3,548
KNIT GOODS					
Total value				592,834	641,081
Full-fashioned hosiery	Doz. pair	36,425	40,200	200,703	229,259
Seamless hosiery	do	80,071	85,358	115,724	122,718
Union suits	Dozen	6,278	7,224	35,853	43,501
Sweaters, sweater coats, and jerseys	do	4,386	4,712	55,342	59,247
Bathing suits of knit fabric (made from materials owned by establishments reporting).	do	990	[4] 1,207	14,551	[4] 17,320
Headwear, except infants'	do	969	859	3,875	2,854
Neckties	do	255	69	519	157
Dresses and suits	Number	4,031	1,788	22,570	[5] 10,380
Knitted cloth made for sale				*53,578*	*57,589*
Other knit products				90,119	98,056
RAYON AND SILK MANUFACTURES					
Total value				308,461	354,973
Rayon and silk broad goods	Sq. yard	1,027,091	1,138,629	237,072	279,953
Rayon	do	730,711	947,314	141,226	200,176
Rayon mixtures	do	44,110	54,820	18,844	22,195
Silk	do	239,476	109,226	69,666	40,842
Silk mixtures	do	12,794	27,270	7,336	16,740

For footnotes, see p. 814.

No. 817.—Textile Manufactures—Production, by Kind: 1935 and 1937—Continued

Product	Unit	Quantity (thousands of unit specified)		Value (thousands of dollars)	
		1935	1937	1935	1937
RAYON AND SILK MANUFACTURES—Con.					
Rayon and silk narrow fabrics				24,803	30,651
Ribbons				9,918	13,237
Fringes and gimps				4,937	2,492
Other				9,947	14,921
Silk and rayon yarn and thread made for sale				46,587	33,675
Other silk and rayon products					10,695
WOOL AND HAIR MANUFACTURES [6]					
Total value				(7)	669,583
Men's-wear suitings and pantings	Sq. yard	224,390	215,634	191,844	215,594
Men's-wear overcoatings and topcoatings	do	53,181	45,578	50,949	50,099
Women's-wear coatings	do	83,662	88,449	61,412	80,026
Women's-wear suitings and dress fabrics	do	62,479	55,678	46,235	41,996
Shirtings	do	13,242	13,075	8,810	10,810
Other apparel fabrics	do	(7)	51,322	(7)	28,325
Nonapparel fabrics	do	59,268	62,597	60,696	74,831
Blankets, bed and camp except crib:					
98 percent or more wool or similar animal fibers.	do	19,560	18,096	13,295	14,329
25 to 98 percent wool or similar animal fibers	do	40,593	19,066	10,242	9,026
Less than 25 percent wool or similar animal fibers.	do		(8)		(8)
Other blankets	do	745	1,084	600	[9] 1,169
Woven felts	Pound	[10] 5,212	5,095	12,180	14,715
Yarns [11]	do	97,947	75,355	101,595	98,766
Tops [11]	do	9,376	9,950	7,023	7,384
Noils [11]	do	15,421	10,143	6,750	5,743
Other products				5,159	16,772
FELT GOODS, EXCEPT WOVEN FELTS					
Total value				21,237	27,510
Trimming and lining felts	Pound	5,067	5,352	2,722	3,029
Carpet and rug linings and cushions	do	38,928	52,728	5,706	9,173
Boot, shoe, and slipper felts and linings	do	7,841	6,836	3,309	3,456
Automotive felts	do	10,440	9,541	2,845	3,068
Other felts	do	33,496	37,998	6,596	8,785
HAT BODIES, CARDED WOOL FELT					
Total value				10,161	13,397
Hat bodies, carded, for sale as such	Dozen	1,803	2,428	6,797	9,668
Finished hats	do	322	372	3,364	3,728
CARPETS AND RUGS					
Total value				119,108	174,367
Wool carpets	Sq. yard	24,481	32,292	43,658	78,980
Wool rugs made of sewed strips	do	1,030	976	2,781	2,654
Wool rugs woven whole	do	(7)	32,078	61,138	68,205
Other carpets and rugs				3,230	6,904
Other products				8,297	17,564
RECOVERED WOOL FIBER					
Recovered wool fiber, total	Pound	57,201	61,962	13,555	14,760
HATS, FUR-FELT					
Total value				54,409	66,047
New hats finished	Dozen	1,645	1,715	37,942	44,214
New hat bodies and hats in the rough, made for sale as such.	do	1,932	2,200	16,467	20,833
ARTIFICIAL LEATHER AND OILCLOTH					
Total value				33,380	39,177
Artificial leather	Sq. yard	(12)	91,125	22,431	27,876
Pyroxylin-coated	do	63,813	79,841	18,351	23,873
Other	do	(12)	11,284	4,080	4,003
Oilcloth	do	80,355	73,355	10,948	11,301
ASPHALTED-FELT-BASE FLOOR COVERING AND LINOLEUM					
Total value				49,549	65,055
Asphalted-felt-base floor covering	Sq. yard	128,043	156,081	31,260	35,481
Linoleum	do	24,453	35,745	18,289	29,574

For footnotes, see p. 814.

No. 817.—Textile Manufactures—Production, by Kind: 1935 and 1937—Continued

Product	Unit	Quantity (thousands of unit specified)		Value (thousands of dollars)	
		1935	1937	1935	1937
CORDAGE AND TWINE AND JUTE AND LINEN GOODS					
Total value				72,491	102,020
Rope, cable, and cordage:					
Manila hemp	Pound	75,390	88,122	9,050	14,209
Sisal and/or henequen	do	6,859	7,924	547	816
Cotton	do	22,750	27,220	5,908	7,071
Other				1,232	2,179
Twine, binder [13]	Pound	108,811	114,943	6,630	8,582
Twine, cotton	do	50,733	69,214	13,948	17,950
Twine, other				12,496	15,992
Yarns and roves produced for sale	Pound	86,182	115,946	11,023	14,787
Linen thread	do	2,653	2,960	3,142	3,570
Linen and part-linen woven goods	Sq. yard	8,917	7,749	2,394	2,481
Jute bagging	do	39,979	61,682	2,838	5,831
Other products				3,284	8,552

[1] For production of wool-and-cotton mixed blankets containing 25 to 98 percent wool, see "Wool and hair manufactures," p. 803.
[2] See "Wool and hair manufactures," p. 813.
[3] For 1935—finished fabrics (not in the gray). For 1937—partly in the gray; partly finished fabrics.
[4] In addition, 82,000 dozen bathing suits valued at $1,772,000 were reported as made from woven fabric and 114,000 dozen valued at $795,000 made from purchased knitted fabric. Figures for bathing suits made on contract from materials owned by others and made in contract shops from materials owned by establishments reporting included with "Other knit products" to avoid disclosing data reported by individual establishments.
[5] Figures for dresses and suits made in contract shops from materials owned by establishments reporting included with "Other knit products" to avoid disclosing data reported by individual establishments.
[6] For 1935—sales (goods invoiced to customers). For 1937—quantity is production, including products made for others on commission and those made for own use; value is value of cloths woven from materials owned and cloths woven on commission.
[7] No comparable data.
[8] See "Cotton manufactures," p. 812.
[9] Includes $63,000 for which no square yards were reported.
[10] Production including products made for others on commission and those made for own use.
[11] For 1935—sales (goods invoiced to customers); for 1937—made for sale.
[12] No data.
[13] Not including binder twine made in 8 penal institutions, as follows: 1935, 57,355,000 pounds; 1937, 42,809,000 pounds.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 818.—Boots and Shoes (Other Than Rubber)—Production, by Class: 1914 to 1938

Note.—**In thousands of pairs.** Detailed value data were not collected at the censuses. For total value of products of the industry see table 814, p. 793. Data for 1925 to 1938 compiled from monthly reports of manufacturers representing approximately 95 percent of the total production in the United States for 1925 to 1929, 98 percent from 1930 to 1933, 99 percent for 1934 to 1936, and 98 percent for 1937 and 1938

Year	Total	Men's [1]	Boys' and youths'	Women's	Misses' and children's	Infants'	Athletic [1 2]	All fabric [2 3]	Part leather and part fabric	Slippers [4]	All other
1914	292,666	98,031	22,896	80,916	48,322	15,477	(5)	(5)	(6)	(5)	27,024
1919	331,225	95,017	26,504	104,813	48,538	16,669	586	11,056	(5)	(5)	28,042
1925	323,553	86,546	21,021	104,782	38,691	24,587	5,914	8,564	(6)	23,899	9,549
1930	304,170	77,147	18,530	112,629	32,037	18,558	1,728	2,593	(6)	34,994	5,954
1931	316,240	77,420	20,047	112,603	34,308	18,546	1,708	4,750	2,955	35,717	8,186
1932	313,290	74,493	18,100	113,944	33,600	15,653	1,111	6,132	1,874	38,212	10,170
1933	350,382	88,821	19,944	130,742	33,180	18,578	1,316	4,637	1,485	40,648	11,030
1934	357,119	91,387	17,348	133,045	34,521	19,451	1,333	3,930	1,374	43,713	11,018
1935	383,761	99,525	17,847	145,231	37,276	21,167	1,961	3,671	2,891	42,055	12,138
1936	415,227	103,784	16,570	161,858	36,845	21,612	2,486	2,892	3,569	51,311	14,301
1937	411,969	102,895	17,481	149,675	39,911	22,786	2,576	7,705	14,541	48,294	6,104
1938	390,746	96,660	17,137	147,755	40,188	21,315	2,695	8,072	8,537	42,487	5,899

[1] Figures beginning with 1927 are not strictly comparable with earlier years owing to the fact that large quantities of heavy footwear now included with men's shoes were included with "Athletic" prior to 1927.
[2] Figures exclude footwear with fabric uppers and rubber soles; data for this class, for certain census years, are shown in table 824, p. 820.
[3] Figures include satin, canvas, etc.
[4] Includes slippers and moccasins (all leather and part leather, felt, etc.) for house wear.
[5] Not reported separately; included with "all other."
[6] Not reported separately; included with the various classes of boots and shoes.

Source: Department of Commerce, Bureau of the Census; figur es are published currently in monthly releases.

No. 819.—Leather—Production, by Principal Types of Raw Stock: 1927 to 1938

[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
1927	21,820	16,984	50,736	35,859	1933	17,115	13,049	44,312	33,881
1928	20,237	15,617	54,852	38,706	1934	19,771	12,442	44,982	34,255
1929	19,146	15,364	55,686	38,985	1935	21,932	14,140	48,250	38,465
1930	17,675	14,171	55,445	30,393	1936	22,628	13,127	47,450	37,942
1931	16,234	12,438	48,637	32,443	1937	22,380	12,027	46,554	34,232
1932	14,583	11,580	37,014	28,841	1938	19,044	12,991	31,882	28,941

Source: Tanners' Council of America.

No. 820.—Leather—Production, by Kind: 1931, 1935, and 1937

Product and unit of quantity	Quantity [1]			Value (thousands of dollars) [1]		
	1931	1935	1937	1931	1935	1937
Total value				253,682	293,872	372,458
Sole and belting leather				73,183	85,997	110,212
Oak and union sole ... 1,000 backs, bends, and sides	11,746	16,005	18,348	55,030	61,960	80,078
Chrome and combination sole ... do	447	1,187	1,052	2,175	4,246	3,996
Horse-sole ... 1,000 butts	(2)	(2)	400	(2)	(2)	825
Belting butts—curried [3] ... 1,000 butts and butt bends	266	466	628	2,785	4,448	6,365
Offal (heads, bellies, shoulders, etc.) [4] ... 1,000 pounds	86,161	91,542	94,438	13,193	15,343	18,948
Harness leather				2,166	4,366	4,490
Union-black ... 1,000 sides	96	300	303	513	1,527	1,816
Oak black and russet ... do	279	513	431	1,653	2,839	2,675
Bag, case, and strap leather—finished grains ... do	(5)	851	887	(5)	4,727	5,316
Collar leather ... do	180	366	376	627	1,104	1,510
Welting leather ... 1,000 pounds	2,077	7,486	7,240	712	2,161	2,298
Upholstery leather (automobile, furniture, and carriage)—finished				(5)	4,518	7,139
Whole-hide grains and machine-buffed ... 1,000 hides	(5)	262	425	(5)	3,282	5,227
Splits (main and second) ... 1,000 pieces	(5)	187	312	(5)	1,236	1,911
Upper leather				(5)	127,315	153,095
Cattle, including kip sides ... 1,000 sides	12,514	20,969	20,010	32,536	51,929	64,508
Calf and whole kip, except kip sides ... 1,000 skins	10,544	12,800	12,324	27,135	28,815	35,706
Goat and kid ... do	34,978	41,009	37,580	37,285	36,106	39,133
Kangaroo and wallaby ... do	1,156	1,295	1,189	1,048	1,746	1,634
Horse, colt, ass, and mule (butts and shanks)				643	837	1,344
Wax and finished splits ... 1,000 pieces	(2)	(2)	10,298	(2)	(2)	8,537
Other				(5)	7,882	2,234
Glove and garment leather				16,729	18,129	23,468
Horse, colt, ass, and mule—half and whole fronts [6] ... 1,000 equivalent half fronts	1,599	1,596	1,615	3,514	3,197	3,862
Sheep and lamb except shearlings ... 1,000 skins	9,039	13,448	12,592	6,835	8,948	10,072
Shearlings ... do	(5)	(5)	2,729	(5)	(5)	4,878
Other				6,379	5,984	[7] 4,655
Fancy and bookbinders' leather				10,495	6,263	6,626
Lining leather				(2)	(5)	15,431
Sheep and lamb—shoe stock ... 1,000 skins	(2)	(5)	11,152	(2)	(5)	9,210
Goat and kid ... do	(2)	(5)	4,968	(2)	(5)	4,755
Other				(2)	(5)	1,466
Patent upper leather, cattle including kip sides, japanned ... 1,000 sides	(2)	(5)	3,020	(2)	(5)	9,326
Splits, other than wax and finished upper and upholstery ... 1,000 splits	(2)	(2)	15,765	(2)	(2)	10,230
Skivers ... 1,000 dozens	192	184	226	1,685	1,908	2,304
Other leather				[8] 45,965	[8] 31,989	10,650
Rough leather:						
Belting butts—for sale as such ... 1,000 butts and butt bends	369	494	653	2,920	3,682	5,829
Other rough leather				[9] 555	[9] 1,712	4,535

[1] Comparable figures for 1933 are not available. See third paragraph of general note, p. 772.
[2] No data.
[3] Not including butts and butt bends curried by establishments classified in other industries that buy rough tanned leather for further manufacture into finished articles.
[4] Data not strictly comparable because 1935 figures are partially incomplete.
[5] No comparable data or data incomplete.
[6] Combined glove, garment, and upper leather.
[7] Includes some fancy leather.
[8] Includes values for items to which footnote 5 is indexed and therefore are not comparable with those for 1937.
[9] Some items included in "Other leather" and therefore are not comparable with those for 1937.

Source: Department of Commerce; Bureau of the Census; reports of Biennial Census of Manufactures.

No. 821.—Chemicals—Production, by Kind: 1933, 1935, and 1937

Note.—Data shown in this table represent products made for sale and for interplant transfer. In addition, 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 material for other establishments manufacturing chemicals. Tons are of 2,000 pounds, except as noted

Product	Quantity (thousands of unit specified)				Value (thousands of dollars)		
	Unit	1933	1935	1937	1933	1935	1937
Total value					**489, 977**	**642, 803**	**916, 529**
Acetates [1]					11, 407	13, 217	20, 587
Amyl	Gallon	608	1, 026	1, 522	442	789	1, 189
Butyl	do	3, 763	5, 631	9, 316	2, 578	3, 687	5, 085
Calcium [2]	Ton	26	26	23	1, 166	826	727
Ethyl	Gallon	5, 082	5, 563	6, 946	2, 660	2, 679	2, 919
Acetone	Pound	(3)	68, 922	84, 369	(3)	2, 642	2, 845
Acids [1]					50, 657	65, 390	85, 953
Acetic (basis 100 percent) [4]	Pound	65, 150	101, 501	131, 645	4, 303	5, 455	6, 607
Boric (boracic)	do	21, 613	28, 738	40, 524	845	1, 246	1, 545
Chromic	do	4, 969	6, 723	8, 997	537	888	1, 200
Citric [5]	do	5, 696	10, 493	18, 138	1, 795	2, 768	4, 119
Hydrochloric (basis 100 percent)	Ton	45	55	71	2, 387	3, 048	3, 988
Mixed (sulphuric-nitric)	do	42	46	54	1, 883	2, 105	2, 485
Nitric (basis 100 percent)	do	30	25	35	2, 428	2, 143	3, 053
Oleic	Pound	(3)	43, 763	38, 087	(3)	3, 273	3, 605
Oxalic	do	9, 223	8, 884	10, 198	903	945	1, 087
Phosphoric [6]	do	24, 653	45, 386	78, 251	892	1, 334	1, 786
Stearic	do	(3)	27, 438	31, 889	(3)	2, 777	3, 056
Sulphuric [7] (basis 50° Baumé)	Ton	3, 848	4, 488	5, 719	26, 482	31, 908	42, 198
Tannic [8]	Pound	682	725	1, 016	236	305	382
Tartaric	do	6, 799	6, 887	10, 643	1, 493	1, 609	2, 485
Alcohols:							
Methyl, synthetic	Gallon	8, 793	13, 359	[8] 31, 606	1, 680	3, 611	[8] 8, 619
Butyl	Pound	(3)	35, 878	79, 934	24, 122	2, 602	5, 867
Ethyl and other alcohols [9]		(3)	(3)	(3)		34, 492	35, 820
Ammonia, anhydrous [10]	Pound	150, 185	138, 779	223, 041	5, 930	5, 679	8, 868
Ammonia, aqua and liquor (N. H_3 content).[11]	do	11, 390	23, 916	25, 515	923	1, 235	1, 310
Bicarbonates and carbonates [1]					30, 363	36, 514	43, 089
Sodium bicarbonate, refined (basis 100 percent).	Ton	129	137	142	3, 586	3, 658	3, 605
Soda ash	do	1, 654	1, 872	2, 324	24, 183	28, 425	33, 769
Bromides					2, 764	4, 964	7, 057
Calcium carbide	Ton	101	147	193	6, 059	6, 234	9, 842
Calcium oxychloride (bleaching powder).[12]	do	28	40	46	921	909	937
Carbon, activated	do	(3)	11	11	(3)	926	1, 444
Carbon bisulphide	Pound	90, 179	117, 758	155, 238	3, 283	3, 385	4, 754
Carbon tetrachloride	do	30, 344	51, 970	78, 709	1, 354	2, 150	3, 068
Chlorides [1] [13]					15, 647	16, 257	18, 741
Calcium (basis 73 to 80 percent) [14]	Ton	158	227	264	2, 716	3, 629	4, 181
Sulphur	Pound	45, 998	59, 117	66, 598	665	889	994
Ammonium (sal ammoniac)	do	(3)	34, 865	39, 599	(3)	1, 584	1, 821
Chromates and bichromates [1]					3, 579	5, 230	6, 465
Sodium	Ton	29	42	49	3, 281	4, 763	5, 926
Citrates					1, 464	1, 357	948
Coal-tar products [15]					107, 273	120, 582	157, 744
Crudes [16]					16, 985	19, 173	29, 471
Intermediates					21, 443	29, 360	37, 140
Finished products [16]					68, 845	72, 048	91, 133
Cyanides					3, 205	4, 430	4, 884
Ester gum	Pound	(17)	21, 373	25, 590	(17)	1, 482	2, 213
Ether (ethyl)	do	7, 421	7, 915	13, 097	1, 385	1, 305	1, 652
Ferro-alloys, electric-furnace	Ton [18]	121	217	352	11, 868	23, 490	45, 295
Fluorides					(3)	1, 969	5, 134
Glycerine, crude [19]	Pound	22, 161	24, 043	24, 181	1, 191	2, 366	3, 593
Glycerine, dynamite grade [19]	do	107, 853	118, 727	43, 586	7, 915	12, 973	7, 823
Glycerine, chemically pure [19]	do			78, 813			13, 460
Hydroxides [1]					26, 007	30, 295	34, 792
Potassium (caustic) [5]	Ton	9	10	11	868	1, 260	1, 438
Sodium (caustic)	do	645	720	897	24, 478	28, 134	32, 028
Iodides [1]					1, 309	745	794
Potassium	Pound	479	433	613	1, 108	572	599
Modified sodas	Ton	22	29	26	776	1, 140	1, 051
Nitrates (except sodium) [1] [20]					2, 359	3, 322	4, 335
Silver (lunar caustic)	Ounce	4, 146	5, 195	7, 249	1, 072	1, 908	2, 285
Ammonium	Pound	18, 694	25, 298	45, 560	574	674	1, 131
Oxides [1]					4, 503	8, 770	14, 719
Tin	Pound	2, 743	3, 245	3, 324	1, 118	1, 686	1, 707

For footnotes, see p. 817.

No. 821.—CHEMICALS—PRODUCTION, BY KIND: 1933, 1935, AND 1937—Con.

Product	Quantity (thousands of unit specified)				Value (thousands of dollars)		
	Unit	1933	1935	1937	1933	1935	1937
Peroxides [1]					2,966	3,859	4,790
Hydrogen (basis 100 volumes)	Pound	12,119	17,409	22,925	2,388	3,155	3,781
Phosphates [1]					11,486	14,190	16,207
Calcium	Ton	42	41	44	5,332	5,116	5,444
Sodium:							
Tribasic	do	80	87	117	3,684	3,862	4,235
Dibasic	do	38	35	22	1,396	1,338	814
Monobasic and pyro	do	3	5	13	540	833	1,735
Plastics [21]					24,905	44,036	61,996
Nitrocellulose (pyroxylin)	Pound	10,096	13,341	14,851	7,799	10,682	12,526
Finished articles of nitrocellulose (pyroxylin) [22]					5,020	5,116	5,390
Cellulose acetate	Pound	2,875	10,395	18,924	2,246	7,986	12,200
Coal-tar resins	do	41,557	87,719	[23]131,568	7,509	15,672	[23] 23,584
Other plastics and synthetic resins, including synthetic rubber					2,331	4,578	8,296
Sodium borate (borax)	Ton	94	106	126	3,163	3,693	3,416
Sodium hypochlorite [24]	do	32	51	75	2,073	4,305	6,275
Sodium silicate (liquid and solid) [25]	do	630	608	641	6,583	7,674	8,355
Stearates					352	1,109	1,773
Sulphates [1]					10,826	21,497	26,769
Aluminum (concentrated alum)	Ton	322	348	393	6,600	7,748	8,959
Copper (blue vitriol)	Pound	56,070	54,759	78,892	1,408	2,002	3,883
Magnesium (Epsom salt)	Ton	37	38	41	1,234	1,117	1,217
Sodium:							
Glauber's salt	do	40	[26] 40	[26] 32	586	[26] 542	[26] 491
Hyposulphite (thiosulphate)	do	18	24	33	763	1,054	1,412
Niter cake	do	17	19	23	353	344	522
Salt cake (crude)	do	115	[27] 170	[27] 241	1,471	[27] 1,864	[27] 2,368
Zinc	Pound	29,797	37,466	37,530	512	721	1,143
Ammonium	Ton	(3)	96	102	(3)	2,073	2,418
Sulphides [1]					1,870	2,112	2,344
Sodium [28]	Ton	31	25	27	1,354	1,390	1,530
Sulphites					3,003	3,752	3,924
Sulphur, refined	Ton	49	60	76	1,736	2,054	2,333
Tartrates					1,089	868	1,302
Vitreous enamels ("frit")	Pound	30,853	73,397	110,879	2,587	4,400	6,826
Other chemicals					83,394	109,590	206,518

[1] Value includes data for items not shown separately.
[2] Production in 1935 and 1937, basis 80 percent; for 1933, as reported, regardless of strength.
[3] Data incomplete, no comparable data, data not available, or data withheld.
[4] Synthetic, natural, dilute, and glacial.
[5] Production in 1935 and 1937, basis 100 percent; for 1933, as reported, regardless of strength.
[6] Production in 1933, basis 50 percent, in part P_2O_5 and in part H_3PO_4; in 1935 and 1937, basis 50 percent H_3PO_4.
[7] Data for production by establishments classified in lead smelting and refining and copper smelting industries included in figures for 1935 and 1937, but not in those for 1933.
[8] In addition, 3,968,000 gallons of refined natural methanol, valued at $1,133,000, was produced for sale in the "Wood distillation and charcoal manufacture" industry.
[9] The production of ethyl alcohol in proof gallons, as reported to the Bureau of Internal Revenue, Treasury Dept., was as follows: 1933, 138,600,000; 1935, 193,219,000; 1937, 215,438,000.
[10] Includes production from ammonia liquor, as follows: 1935, 2,991,000 pounds, value $389,000; 1937, 2,662,000 pounds, value $246,000; 1933, not reported separately.
[11] Figures for 1935 and 1937, but not for 1933, include data for ammonia produced in the manufacture of gas. For production in coke industry, see Bureau of Mines report, Minerals Yearbook.
[12] Basis 35 to 37 percent available chlorine.
[13] For 1933, includes methyl chloride; thereafter, included in "Compressed and liquefied gases" industry.
[14] In addition, production by establishments engaged primarily in manufacture of salt was as follows: 1935, 8,000 tons, value $50,000; 1937, 7,000 tons, value $67,000. Data included for 1933.
[15] Figures for 1935 and 1937 do not include color lakes, included with "Paints, pigments, and varnishes" (table 822), nor certain other coal-tar chemicals, shown elsewhere in this table. Data for these classes of products are included with the figures for 1933.
[16] Not including byproduct crudes made in coke plants and gas works.
[17] Data incomplete; value included in that of "Other chemicals." [18] Tons are of 2,240 pounds.
[19] Total production of crude glycerine, as reported to the Div. of Cotton and Oils, Bur. of the Census, for 1937, was 169,039,000 pounds. Most of this was further refined and sold or used as glycerine, dynamite grade, or glycerine, chemically pure. Prior to 1937, both dynamite grade and chemically pure glycerine were reported as glycerine, refined.
[20] Data for sodium nitrate withheld to avoid disclosing an approximation of the output of an individual establishment. Value included in that of "Other chemicals."
[21] Data for production of photographic-film base and wrapping materials are not included. Value of these included in that of "Other chemicals."
[22] Made in producing establishments in "Chemicals not elsewhere classified" industry. Nitrocellulose articles are also made from purchased nitrocellulose plastics by establishments in other industries.
[23] Includes an indeterminable amount of materials used as fillers, such as wood flour, etc.
[24] Production in 1935 and 1937, basis 15 percent available chlorine; for 1933, as reported, regardless of strength.
[25] Liquid, basis 40°. [26] Includes that refined from natural product. [27] Includes product made from brines.
[28] Production in 1935 and 1937, basis 60 to 62 percent; for 1933, as reported, regardless of strength.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

No. 822.—Miscellaneous Products Made by 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	Quantity (thousands of unit specified)				Value (thousands of dollars)		
	Unit	1933	1935	1937	1933	1935	1937
BONE BLACK, CARBON BLACK, ETC.							
Total value					**8,641**	**15,454**	**19,579**
Bone black	Pound	23,123	32,922	35,571	829	1,313	1,717
Carbon black (Bureau of Mines)	do	273,125	352,749	510,606	7,602	13,755	17,389
Lampblack	do	3,012	3,902	5,309	210	386	473
COMPRESSED AND LIQUEFIED GASES							
Total value					**[1] 48,185**	**67,831**	**85,580**
Acetylene	Cu. ft.	754,089	1,143,199	1,511,445	11,039	14,748	19,166
Carbon dioxide (not solid)	Pound	[2] 117,382	[2] 87,657	[2] 100,716	4,466	4,541	4,940
Chlorine, for sale	Ton	125	207	286	4,486	7,961	10,417
Hydrogen	Cu. ft.	589,290	743,860	1,103,177	915	1,557	1,849
Oxygen	do	1,821,880	2,683,859	4,441,391	12,997	18,126	26,073
Nitrous oxide (laughing gas)	Gallon	82,220	95,861	97,768	811	946	1,114
Dry ice (solid carbon dioxide)	Pound	59,058	165,124	313,217	1,970	3,246	4,619
Other gases					11,502	16,707	17,403
FERTILIZERS							
Total value					**82,811**	**121,058**	**178,264**
Complete fertilizers	Ton	3,274	4,202	5,681	61,180	93,092	128,750
Superphosphates, not ammoniated (including concentrated phosphates), for sale.[3]	do	1,546	1,755	3,113	12,882	16,489	27,846
Other fertilizers	do	376	525	890	8,749	11,477	21,667
PAINTS, PIGMENTS, AND VARNISHES		*1931* [4]			*1931* [4]		
Total value					**362,064**	**423,168**	**552,507**
Pigments, colors, for sale	Pound	1,296,006	1,507,754	1,870,276	69,428	87,012	117,209
Paints in paste form	do	242,528	256,715	269,827	26,191	23,268	28,541
Ready-mixed and semipaste paints	Gallon	81,287	99,645	110,248	125,112	129,168	163,580
Water paints and kalsomine, dry or in paste.	Pound	122,823	125,165	150,876	5,265	5,298	7,622
Plastic paints	do	14,561	13,220	15,564	1,393	781	1,103
Varnishes, japans, lacquers, enamels, and allied products.					[5] 127,852	[5] 171,186	[5] 226,003
Quantity reported	Gallon	89,936	128,372	169,626	124,340	166,178	220,328
Fillers (liquid, paste, and dry)					1,211	1,159	2,111
Putty	Pound	69,907	71,841	90,544	2,992	2,872	3,683
Bleached shellac	do	10,731	12,525	14,639	2,619	2,425	2,664
SOAP							
Total value					**238,062**	**223,809**	**271,803**
Bar soap:							
Toilet soap	Pound	305,638	352,976	360,611	53,064	53,325	62,805
Laundry soap	do	1,431,104	1,134,065	1,122,421	68,385	51,340	61,388
Granulated, powdered, and sprayed soap.	do	421,804	503,118	743,194	40,977	45,284	68,409
Soap chips and flakes	do	351,077	458,935	390,455	30,353	36,329	38,005
Washing powders	do	262,711	219,048	232,411	12,059	7,746	9,104
Cleansers and scouring powders containing soap.	do	164,067	233,587	178,346	6,383	7,688	7,172
Shaving soap [6]	do			14,631	[5] 11,553	[5] 9,218	9,730
Quantity reported	do	(7)	12,868	14,631	(7)	7,816	9,730
Liquid soap, not including packaged shampoos.	do	33,627		29,870	2,421	[5] 1,973	2,435
Quantity reported	do	33,627	22,593	29,870	2,421	1,523	2,435
Soap stock or soap base, for sale	do	8,978	3,665	4,522	547	270	347
Textile soap, including potash and foots soaps for textile manufacture.	do	(7)	70,052	60,708	12,320	5,350	5,358
Potash soap, other than textile and liquid.	do	(7)	20,804	25,072		1,484	2,157
Other and not reported by kind						3,802	4,894

[1] Does not include value of methyl chloride.
[2] Includes approximately 64,500,000 pounds piped to plants making dry ice in 1933, 25,285,000 pounds in 1935, and 17,000,000 pounds in 1937.
[3] Basis 16 percent available phosphoric acid.
[4] Comparable data for 1933 are not available; see third paragraph of general note, p. 772.
[5] Includes value of production for which no quantity was reported.
[6] Includes shaving cream with soap base. Shaving cream containing no soap is classified as a product of the "Perfumes, cosmetics, and toilet preparations" industry, p. 819. The total production of shaving cream, with and without soap, in 1935 and 1937, was valued at $7,957,000 and $9,629,000, respectively.
[7] No comparable data.

No. 822.—Miscellaneous Products Made by Chemical Processes—Cont.

Product	Value (thousands of dollars)[4]		
	1931	1935	1937
DRUGS AND MEDICINES			
Total value	305,545	280,491	335,667
Medicinal products sold direct to or prescribed by physicians	(7)	132,931	133,935
Alkaloids and derivatives, made for sale	7,677	5,861	6,915
Biological products	14,821	13,412	17,679
For human use:			
Antitoxins	2,430	2,644	3,008
Bacterins	1,026	1,002	1,089
Serums	1,103	1,136	1,729
Vaccines	1,146	1,552	1,915
Viruses	193	604	493
Undistributed	1,189	921	2,022
For animal use:			
Antitoxins	255	201	120
Bacterins	543	627	846
Serums	5,436	3,348	4,723
Vaccines	516	438	676
Viruses	886	700	708
Undistributed	97	239	350
Other products		113,657	109,341
U. S. P. and N. F.[8]		39,508	35,811
Special formulas		64,944	66,357
Undistributed		9,206	7,173
Medicines in specially prepared packages made for sale to the general public	283,047	136,458	191,214
U. S. P. and N. F.[8]		[9] 31,413	[9] 28,942
Not U. S. P. and N. F.[8]		[9] 105,046	[9] 162,272
Medicinal products not classified above, and undistributed		5,935	1,887
Poultry and animal remedies (except biological products)		5,167	8,630
INSECTICIDES AND FUNGICIDES, AND INDUSTRIAL AND HOUSEHOLD CHEMICAL COMPOUNDS			
Total value	58,687	69,242	98,096
Deodorants, other than for human use	1,501	779	1,037
Disinfectants and insecticides	34,875	37,946	43,847
Reported by kind:			
Agricultural insecticides and fungicides	13,749	16,544	19,713
Calcium arsenate	1,280	2,322	1,879
Lead arsenate	3,674	4,173	5,541
Lime-sulphur, dry	564	275	341
Lime-sulphur, solution	1,266	991	1,013
Paris green	6,965	489	336
Other including nicotine-sulphate and sulphur dust		8,293	10,603
Household insecticides and repellants	14,773	13,303	17,820
Fly sprays	9,258	5,723	7,339
Insect powder (Pyrethrum)	1,851	1,409	2,022
Fluoride powders and mixtures	416	425	423
Moth repellants	1,551	1,095	3,040
Not reported by kind	1,698	4,651	4,995
Disinfectants	5,412	5,246	6,314
Not reported by kind	942	2,853	----------
Boiler compounds	3,387	5,883	4,319
Other industrial and household chemical compounds	19,925	24,634	48,894
PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS			
Total value[10]	166,257	129,438	143,024
Perfumes and toilet waters	15,004	11,463	12,595
Creams, other than shaving cream	25,125	14,430	17,597
Lip sticks and lip rouges	5,100	4,714	4,418
Other rouges	5,630	2,574	2,520
Dentifrices	35,699	29,722	35,559
Deodorants for human use	2,802	3,029	3,503
Shampoos	4,087	4,157	5,539
Face powders	18,872	11,205	11,287
Talcum powders	8,418	5,095	6,041
Other toilet powders	2,543	3,520	3,112
Hair dyes, tonics, and dressings	15,889	11,046	13,238
Face lotions	5,817	5,566	7,831
Other toilet preparations	21,272	22,907	19,784

[4] Comparable data for 1933 are not available; see third paragraph of general note, p. 772.
[7] No comparable data.
[8] United States Pharmacopoeia and National Formulary.
[9] Because of a reclassification, figures for 1935 are not strictly comparable with those for 1937.
[10] Because of a reclassification of certain products, figures for 1931 are not strictly comparable with those for subsequent years.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 823.—Tanning Materials, Natural Dyestuffs, Mordants and Assistants, and Sizes—Production, by Kind: 1933, 1935, and 1937

	Quantity (thousands of pounds)			Value (thousands of dollars)		
	1933	1935	1937	1933	1935	1937
Total value				21,058	30,453	41,099
Tanning extracts (solid and liquid):						
Chestnut [1]	236,065	302,842	363,706	3,517	4,588	4,968
Sumac [1] (solid and liquid)	[2] 6,452	[2] 3,552	3,358	301	204	169
Other				1,416	2,153	2,662
Other tanning materials				1,783	2,974	3,065
Natural dyestuffs:						
Logwood (solid and liquid)	10,827	8,706	8,215	870	744	832
Other extracts, and ground, chipped, and dry product.				263	197	576
Mordants				459	538	575
Assistants, total value				6,216	11,440	17,841
Softeners, soluble oils, and greases:						
Total value				(3)	4,603	5,222
Quantity reported	(3)	43,993	63,450	(3)	3,896	5,222
Quantity not reported				(3)	707	
Sulphonated oils and fats:						
Quantity reported	(3)	42,836	57,427	(3)	3,932	4,769
Quantity not reported				(3)	1,424	1,778
Other [4]				(3)	1,481	6,071
Sizes, total value				6,233	7,614	10,410
Dextrin	24,174	29,493	26,944	1,448	1,591	1,599
Other, total value				4,785	6,023	8,811
Quantity reported	162,776	175,316	206,524	4,600	5,479	8,811
Quantity not reported				185	544	

[1] Pounds for 1935 and 1937, basis 25 percent tannin; for 1933, not reported according to strength.
[2] No solid sumac extract reported. [3] No comparable data. [4] Includes synthetic textile assistants.

No. 824.—Rubber Products—Production, by Kind: 1933, 1935, and 1937

	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1933	1935	1937	1933	1935	1937
Total value					468,615	671,722	878,626
Tires and inner tubes:							
Pneumatic tires and casings:							
Motor-vehicle	Number	45,376	48,765	54,113	221,051	322,193	412,766
Motorcycle and bicycle	do	46,812	4,006	5,056	31,715	3,852	4,583
Inner tubes:							
Passenger car, truck, and bus	do		47,761	52,373		44,386	55,739
All other, including motorcycle and bicycle.	do		1,550	3,590		728	1,759
Solid and cushion tires:							
Truck and bus for highway transportation.	do		37	23	[1] 3,746	1,534	876
Industrial truck, tractor, and trailer.	do		117	232		854	1,548
All other, including carriage and other tiring.	Pound		6,994	13,567		718	1,501
Boots, rubber	Pair	2,622	3,029	3,884	4,659	5,534	7,625
Shoes and overshoes, rubber	do	32,984	37,810	41,599	23,042	30,384	32,602
Shoes, canvas, with rubber soles	do	29,689	23,955	31,519	13,813	12,343	18,042
Heels, for sale as such	do	272,504	278,369	295,081	11,119	11,594	16,285
Soles, incl. composition or fiber	do	91,995	69,656	72,476	8,316	7,259	10,750
Rubberized fabrics, sold as such or on hand:							
Automobile and carriage	Sq. yard	8,620	5,227	6,006	3,362	1,874	2,123
All other	do	62,631	66,119	63,608	14,836	18,186	19,509
Belting	Pound	30,628	48,363	58,706	12,928	20,498	32,060
Hose and tubing					18,074	26,626	40,410
Packing	Pound	9,328	11,409	14,047	1,872	2,737	3,551
Druggists' and stationers' sundries					8,242	12,387	15,963
Hard-rubber goods					9,928	14,032	16,711
All other manufactures of rubber					81,912	122,232	164,486
Reclaimed rubber produced [2]	Pound	(3)	266,785	399,629	(4)	11,774	19,738

[1] Includes data for a small quantity of casings and tubes other than for motor vehicles, motorcycles, and bicycles.
[2] Including reclaimed rubber transferred to other plants of same company.
[3] No comparable data. [4] Included with "All other manufactures of rubber."

Source of tables 823 and 824: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 825.—Printing and Publishing—Receipts and Circulation

Publications	1929	1931	1933	1935	1937
	Value (thousands of dollars)				
Total	2,711,607	2,184,813	1,505,484	1,865,524	2,182,922
Newspapers and periodicals, printed and published or published only	1,580,565	1,293,777	937,114	1,089,811	1,269,524
Newspapers	1,073,119	886,523	667,820	760,247	861,689
Periodicals, other than newspapers	507,445	407,254	269,294	329,564	407,835
Subscriptions and sales	460,326	425,267	367,440	403,691	459,469
Advertising	1,120,238	868,510	569,674	686,120	810,054
Books and pamphlets, printed and published or published only [1]	215,552	158,642	95,905	136,481	168,257
Newspapers, periodicals, books, and pamphlets, printed for publication by others [2]	129,518	156,737	101,372	130,580	144,820
General job printing, composition sold to the trade, ready prints, and paper patterns	785,971	[3] 575,657	[3] 371,093	[3] 507,084	[3] 597,875
Manifolding done in printing establishments	(4)	(4)	(4)	1,569	2,446
	Aggregate circulation per issue (average for the year)				
Newspapers and periodicals:					
Daily	42,947,824	42,124,651	38,424,281	41,552,243	44,135,658
Sunday	29,011,648	27,453,465	25,453,894	29,196,006	32,713,298
Triweekly	311,777	215,694	165,703	142,928	264,343
Semiweekly	2,982,184	2,637,126	2,836,089	3,852,040	3,481,822
Weekly	53,378,350	46,954,782	51,413,509	57,932,576	73,177,172
Monthly	133,048,488	122,670,528	103,192,794	102,193,740	126,864,213
Quarterly	20,605,002	19,575,617	23,237,557	23,277,089	25,808,324
All other classes	11,514,355	8,353,006	6,334,286	7,668,599	14,450,796

[1] Includes books of music printed and published or published only. For 1929 and 1931, includes value of sheet music published by establishments that did no printing and value of music printed for others.
[2] 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.
[3] In addition, lithographed or engraved paper patterns, music, maps and atlases, labels, tags, and greeting cards valued at $24,691,000 in 1931, $21,287,000 in 1933, $33,025,000 in 1935, and $36,789,000 in 1937, were reported by establishments in other industries.
[4] No comparable data.

No. 826.—Engines, Turbines, Water Wheels, Windmills, and Locomotives—Value, by Kind: 1929 to 1937

[In thousands of dollars]

Class	1929	1931	1933	1935	1937
Total	291,768	104,349	42,888	104,316	221,481
Steam engines and turbines	32,459	14,893	8,443	11,180	19,087
Reciprocating marine	5,181	493	161	244	193
Reciprocating stationary and portable		1,634	435	1,139	2,633
Stationary turbines	27,278	8,427	5,670	9,798	12,861
Marine turbines		4,339	1,505		3,400
Not reported as to type			672		
Internal-combustion engines (not including tractors)	166,634	68,279	29,624	65,429	131,651
Diesel and semi-Diesel type—					
Marine (Diesel)	11,430	4,876	1,828	5,137	12,148
Other	15,369	6,978	3,326	11,868	29,118
Other internal-combustion engines—					
Marine—					
Inboard	7,111	5,528	949	2,237	3,204
Outboard	7,852	2,352	1,249	2,385	4,519
Motor-vehicle [1]	50,654	15,424	4,147	6,583	11,277
Other stationary and portable	49,251	19,341	9,406	24,610	42,807
Aircraft engines [2]	24,966	13,780	8,719	12,610	28,577
Windmills	4,063	1,214	1,400	1,833	2,613
Water wheels and water turbines	5,028	6,889	483	3,263	2,967
Engines and turbines not specified as to kind of power	675		191	876	
Locomotives, steam, electric, and internal-combustion	82,909	[3] 13,073	2,748	21,735	65,163

[1] Excluding engines built for installation in motor vehicles manufactured in the same establishments.
[2] Excluding engines built for installation in aircraft manufactured in the same establishment.
[3] Not including value of electric locomotives.

Source of tables 825 and 826: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 827.—Machinery—Value of the Principal Classes Manufactured

Note.—In thousands of dollars. The various classes of machinery listed are products of a number of industries, such as "Machinery not elsewhere classified," "Motor vehicles," "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 828 to 832

Class	1929	1931	1933	1935	1937
Agricultural machinery	167,673	49,954	17,109	68,916	114,340
Aircraft (begun and completed within year)	52,157	22,368	15,860	17,454	38,664
Bakers' machinery and equipment	21,730	10,876	7,332	11,869	18,120
Blowers and fans	26,243	15,323	6,955	15,830	26,282
Bottlers' machinery, except for dairies	11,082	5,653	9,157	8,264	21,135
Canning machinery	8,535	4,065	3,139	8,271	11,840
Cash registers, adding, calculating, and card-tabulating machines, and typewriters	151,583	62,279	[1] 46,577	83,217	119,833
Cement and concrete machinery:					
Cement-making machinery	4,387	1,579	545	1,646	2,065
Concrete mixers	11,405	4,357	963	2,415	5,543
Other cement and concrete machinery	4,132	1,457	224	1,809	4,053
Clay-working machinery (brick, pottery, etc.)	4,402	1,671	591	1,071	2,727
Condensers	4,386	2,590	990	1,297	1,735
Confectionery and ice-cream machinery	8,674	3,809	2,667	5,052	7,217
Conveying and elevating machinery:					
Bucket type	9,387	2,695	2,107	2,019	3,639
Belt type	14,206	7,153	3,463	3,935	9,821
Other	24,944	12,261	5,844	16,091	20,451
Cotton-ginning machinery	11,760	2,630	2,165	4,892	11,300
Cranes (including hoists and derricks)	57,840	18,448	5,607	13,227	35,426
Dairy machinery	16,593	11,388	8,327	14,864	19,162
Dredging and excavating machinery:					
Power shovels	43,348	18,609	4,519	12,560	28,809
Other	[2] 17,397	[2] 11,578	3,643	7,466	13,772
Electrical machinery (generators, motors, and fans, including parts)	285,974	138,425	73,405	151,501	283,545
Elevators and elevator machinery	44,044	20,035	8,322	9,110	21,235
Engines (steam or internal-combustion), turbines, and water wheels	204,796	90,062	38,740	80,748	153,705
Flour-mill and grain-mill machinery	8,286	4,342	2,354	5,167	6,916
Glass-making machinery	3,688	2,545	1,895	3,543	4,729
Hydraulic machinery (other than for dredging)	10,082	4,540	1,549	5,593	(3)
Laundry machinery (for commercial laundries only)	28,893	14,637	5,980	11,051	16,206
Lawn mowers	10,953	6,141	3,467	4,987	8,427
Leather-working machinery, other than shoe	1,249	816	747	1,005	1,220
Locomotives (steam, electric, and internal-combustion)	82,909	13,073	2,748	21,735	65,163
Machine tools	186,374	58,712	23,936	87,412	205,822
Metal-working machinery, other than machine tools	50,336	36,294	13,530	53,888	82,020
Mining machinery (not including well drilling or dredging)	[4] 40,325	[4] 12,570	8,107	21,195	29,124
Motorcycles, side cars, bicycles, and parts	21,198	13,285	(3)	22,807	39,827
Motor vehicles, except motorcycles	3,412,056	1,387,173	928,650	2,152,986	2,848,786
Oil-mill machinery, cottonseed, and other	2,533	1,286	2,110	2,790	4,677
Oil-well machinery (including drilling) and other well-drilling machinery and supplies	90,530	24,635	21,483	54,893	121,881
Packing-house machinery	6,663	4,622	2,756	5,317	7,029
Paper-mill and pulp-mill machinery	30,456	15,793	8,696	14,829	33,177
Pneumatic machinery (other than pneumatic tools):					
Air compressors	39,683	15,210	7,214	15,891	28,328
Other pneumatic machinery	1,691	1,657	397	2,546	(3)
Printers' machinery	64,860	32,324	13,598	30,377	46,582
Pumps (hand and power) and pumping equipment	132,747	71,555	36,846	64,210	121,836
Refrigerators, mechanical	167,149	128,033	90,694	152,513	243,865
Refrigerating and ice-making machinery (complete machines)		16,642	4,115	6,570	9,534
Road-making machinery	30,694	27,006	11,126	26,039	50,327
Rubber-working machinery	13,552	4,425	3,347	4,883	12,271
Scales and balances	25,385	12,072	6,805	12,191	17,169
Sewing machines	37,378	15,252	10,274	18,250	24,593
Shoe machinery	12,317	9,755	8,130	10,245	10,903
Slot-vending machines	8,821	5,861	5,472	5,989	8,978
Stokers, mechanical	14,054	8,310	5,629	11,537	22,176
Sugar-mill machinery	5,046	1,840	794	1,260	4,344
Textile machinery and parts	115,525	61,223	57,892	64,899	101,845
Transmission machinery	26,787	15,326	9,693	11,899	(3)
Vacuum cleaners (electric)	35,108	24,847	14,411	24,191	36,029
Washing machines, clothes wringers, driers, and ironing machines for domestic use	79,011	48,281	42,422	59,513	73,291
Windmills	4,063	1,214	1,400	1,833	2,613
Woodworking machinery	35,151	11,057	6,100	12,542	23,118

[1] Includes other miscellaneous adding, calculating, and computing devices.
[2] Excludes mining dredges. [3] No comparable data. [4] Includes dredging machinery.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 828.—Electrical Machinery, Apparatus, and Supplies—Value, by Classes: 1929 to 1937

[In thousands of dollars]

Product	1929	1931	1933	1935	1937
Total value	1,918,733	987,643	529,436	918,216	1,647,224
Generating apparatus, except railway and vehicle power generators	61,116	25,287	12,794	34,593	77,558
Motor-generator sets and dynamotors (not including arc welding sets)	13,397	6,007	2,201	5,862	10,832
Transformers, current-limiting reactors, and induction-voltage regulators (except measuring-instrument transformers)	84,032	42,742	13,094	34,357	91,970
Storage batteries and parts and supplies	109,601	65,736	52,129	65,901	78,250
Dry batteries and wet primary batteries and parts and supplies	40,334	20,200	15,315	19,817	24,627
Switchboard apparatus (circuit breakers, panelboards, switchboards, and switches)	81,201	44,832	16,243	36,188	88,743
Measuring instruments, meters, relays, analyzers, and instrument and meter transformers	38,523	22,715	9,328	23,486	41,114
Insulated wire and cable and armored conductor	323,982	126,160	65,637	122,226	245,342
Conduits and fittings	46,768	27,464	14,692	23,095	39,443
Fuses and fuse blocks (except high-voltage and power types, 2,300 volts and over)	14,036	7,761	4,825	5,013	7,117
Stationary motors	136,035	68,430	41,173	72,668	143,606
Fractional horsepower	51,252	33,648	23,746	37,806	75,775
One horsepower and over:					
Direct current	22,619	9,060	3,622	8,489	15,629
Alternating current	62,163	25,722	13,574	26,373	52,202
Not reported by kind or rating			230		
Automotive starter motors (not including vehicle motors or control switches)	32,849	13,044	9,032	[1] 25,300	20,540
Fans (direct motor-driven)	10,196	8,984	2,437	6,695	15,565
Control apparatus (except railway and vehicle controllers, all types)	44,289	22,186	15,165	28,230	47,388
Lamps (not including sockets and other fittings) and vacuum tubes	85,320	70,502	50,142	67,551	81,990
Industrial apparatus and appliances (electric furnaces and heating and welding apparatus)[2]	20,695	11,321	7,975	20,701	35,673
Commercial cooking apparatus	2,250	1,439	625	1,491	2,765
Household apparatus and appliances	84,485	55,578	36,707	72,704	112,275
Vacuum cleaners, electric	35,108	24,847	14,411	24,191	36,029
Flatirons	8,018	5,070	4,639	6,554	8,909
Cooking utensils	13,341	8,250	5,311	8,922	16,482
Ranges, disc stoves, and hot plates	16,933	9,643	4,189	14,196	25,037
Air heaters, radiant and convector type	1,833	1,012	362	577	1,201
Water heaters (for permanent installation) and parts and accessories	1,640	1,316	432	3,530	5,605
Other	7,612	5,440	7,365	14,733	19,012
Wiring devices	38,395	21,778	17,796	24,583	32,003
Wiring supplies	22,296	10,339	4,702	12,345	23,667
Carbons	17,049	9,512	8,997	12,470	20,432
Electrotherapeutic and electromedical (including dental) apparatus and X-ray apparatus (exclusive of X-ray tubes)	23,555	9,164	4,389	9,243	16,299
Flashlight cases	7,050	2,171	1,876	3,571	5,772
Ignition apparatus for internal-combustion engines	58,627	27,894	23,432	40,528	58,201
Lightning arresters and choke coils	6,515	3,257	1,592	2,871	5,983
Radio parts (coils, condensers, etc.)	(3)	(3)	(3)	26,406	47,328
Rectifying apparatus	4,259	2,871	1,723	3,046	5,025
Signaling apparatus, electric	34,820	17,465	6,432	12,146	22,043
Telephone and telegraph apparatus	166,293	113,170	21,180	43,584	115,883
Other	310,763	129,631	67,802	61,544	129,789

[1] Includes values of parts and supplies.
[2] Motor-driven machine tools are classified in the "Machine tools" industry.
[3] No data.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 829.—Farm Equipment—Production, by Class and Kind: 1935 to 1938

Class	Number				Value (thousands of dollars)			
	1935	1936	1937	1938	1935	1936	1937	1938
All products, total value					334,210	487,273	580,049	490,013
Plows and listers					19,632	25,997	33,042	26,818
Moldboard plows	389,047	411,575	465,607	313,416	7,887	12,753	15,537	12,644
Disk plows	12,649	17,620	28,530	22,549	1,876	2,702	4,165	3,446
Listers, without planting attachments	24,261	25,388	41,596	23,465	1,178	1,498	2,565	1,037
Other plows and listers, attachments and parts, incl. plow stocks and steel plow shapes					8,691	9,044	10,775	9,091
Harrows, rollers, pulverizers, and stalk cutters					9,038	13,240	16,653	13,303
Disk harrows	82,756	109,680	135,544	103,421	5,195	7,445	9,745	7,595
Spike-tooth and spring-tooth harrow sections	276,272	337,483	400,224	313,274	2,250	2,696	3,526	2,671
Soil pulverizers and packers	7,242	12,384	19,517	15,878	404	701	1,019	835
Other [1]					1,190	2,398	2,363	2,201
Planting and fertilizing machinery					15,019	23,374	27,526	20,246
Corn planters	34,906	59,992	77,384	61,117	1,447	2,823	3,693	3,111
Combination corn and cotton planters	50,454	58,750	80,039	58,351	1,411	1,477	1,956	1,677
Listers with planting attachments (2-, 3-, 4-, and 5-row)	4,352	9,813	6,738	4,762	456	988	624	509
Grain drills	32,410	47,218	57,000	41,242	4,130	6,407	7,045	5,926
Manure spreaders	31,462	53,361	60,057	27,344	3,615	6,222	7,217	2,967
Other [1]					3,960	5,457	6,987	6,056
Cultivators and weeders					11,973	18,786	22,231	16,871
Horse-drawn cultivators	185,691	185,696	217,418	158,958	3,016	3,090	3,791	2,610
Tractor-drawn cultivators	54,519	115,957	127,188	90,760	4,474	10,013	10,937	7,947
Field cultivators	4,319	5,755	11,774	11,488	557	660	1,285	1,237
Garden cultivators, hand	241,312	304,789	233,239	271,951	438	559	457	447
Other [1]					3,488	4,464	5,760	4,630
Harvesting machinery					23,667	40,594	46,602	71,522
Grainbinders	47,140	66,019	31,259	47,619	7,500	11,187	5,371	9,457
Combines (harvester-threshers)	3,872	16,983	29,403	48,046	3,964	13,337	21,284	35,628
Corn binders (row-binders)	19,290	19,364	16,694	12,765	2,947	3,160	2,821	2,256
Corn pickers	1,845	4,052	13,586	16,722	844	1,932	6,172	6,902
Other [1]					8,412	10,978	10,953	17,281
Haying machinery					14,753	18,984	19,740	14,604
Mowers	118,898	124,651	125,852	70,225	6,893	7,799	8,015	5,026
Rakes, sulky, side delivery, and sweep	62,057	79,371	84,780	59,420	2,648	3,925	4,302	3,038
Loaders	8,813	22,742	27,256	17,481	655	2,166	2,558	1,580
Other [1]					4,557	5,094	4,866	4,960
Machines for preparing crops for market or use					15,477	23,652	20,472	22,572
Threshers, except peanut	4,619	8,622	4,996	8,649	3,587	7,106	4,049	7,438
Ensilage and feed cutters	9,314	15,468	12,168	13,209	1,604	2,459	2,229	2,714
Corn shellers	51,968	68,251	65,253	50,337	385	783	900	915
Hay presses	4,724	4,686	5,725	3,595	1,482	1,698	2,137	1,455
Feed grinders and crushers	54,966	53,509	62,016	53,235	2,827	2,335	3,134	3,100
Other [1]					5,591	9,270	8,022	6,945
Tractors					147,826	214,854	268,394	196,218
Wheel type	138,084	193,947	237,837	172,437	83,428	120,801	159,686	116,882
Track-laying type	18,774	27,299	34,602	16,837	37,057	54,603	66,418	33,772
Garden tractors	4,273	5,939	10,716	9,949	816	1,101	1,575	1,345
Attachments and parts					26,525	38,349	40,715	44,220
Engines, internal-combustion (except automotive and marine)					11,152	16,047	20,849	15,411
Engines	191,931	261,075	282,643	186,447	9,212	14,485	18,597	13,351
Attachments and parts					1,940	1,562	2,251	2,060
Farm wagons and trucks					5,889	7,838	8,565	4,394
Farm wagons	48,708	60,970	57,560	22,389	2,948	3,643	3,656	1,372
Farm trucks	49,640	44,948	48,563	21,756	1,532	1,605	1,849	851
Farm trailers [1]					1,408	2,590	3,060	2,171
Miscellaneous equipment					59,785	83,909	95,975	88,054
Milking machines	4,217	9,841	21,502	18,787	276	674	1,216	1,239
Cream separators	106,030	85,703	84,246	71,632	4,612	3,683	3,812	2,921
Spraying outfits	8,180	7,924	8,007	6,122	1,461	1,595	1,591	1,546
Elevators, farm	2,553	2,731	6,064	5,485	586	653	1,375	1,864
Water systems, pneumatic	127,901	166,507	195,486	176,184	5,457	7,322	9,549	8,151
Pumps, water	584,319	767,272	726,090	511,485	2,406	3,427	3,573	2,449
Windmills and windmill towers	69,944	94,637	87,713	63,444	2,468	3,391	3,546	2,576
Barn and barnyard equipment					3,118	4,540	4,997	4,376
Poultry-farm equipment					5,520	9,895	6,516	5,248
Forks, hoes, and rakes					4,514	6,511	7,543	5,845
Shovels, spades, and scoops					2,689	6,950	7,274	5,824
Lawn mowers	676,402	1,052,866	1,248,898	1,128,373	4,919	6,681	8,427	9,103
Lighting plants, electric, residence, etc	11,888	16,304	37,156	21,349	2,412	2,790	4,338	3,143
Silos	7,304	8,320	9,631	7,560	2,435	2,963	3,952	3,189
Other [1]					16,912	22,834	28,266	30,589

[1] Including attachments and parts.

Source: Department of Commerce, Bureau of the Census; annual report, Manufacture and Sale of Farm Equipment and Related Products.

No. 830.—Machine Tools—Production, by Kind: 1933, 1935, and 1937

Kind	Number			Value (thousands of dollars)		
	1933	1935	1937	1933	1935	1937
Machine tools and replacement and repair parts, total value				29,631	98,983	220,508
Boring machines	(1)	604	[2] 927	976	4,530	[2] 6,715
Boring mills, vertical, work revolving			[2] 529			[2] 4,345
Drilling machines:						
Horizontal, vertical, and radial	(1)	(1)	(1)	967	5,237	11,888
Combined vertical and horizontal, automatic, universal-head, and all other	(1)	(1)	(1)	669	1,968	5,367
Forging machines (hammers, presses, etc.)	(1)	(1)	(1)	477	2,119	3,931
Gear-cutting machines	(1)	(1)	1,855	1,030	4,673	10,860
Grinding machines	(1)	(1)	(1)	3,627	13,211	28,177
Lathes:						
Bench (plain and screw-cutting)	3,283	12,174	14,663	1,425	1,153	1,911
Engine		2,567	7,261		3,989	12,709
Automatic	242	(1)	(1)	1,185	9,986	23,716
Turret, horizontal hand-operated	201	(1)	3,138	516	3,637	13,532
Other	(1)	(1)	(1)	768	792	3,246
Milling machines	(1)	(1)	5,061	1,341	6,956	19,586
Portable tools (electric and pneumatic):						
Drills:						
Number reported	24,115	78,179	139,119	1,409	3,373	9,754
Number not reported				94	1,677	
Grinders	(1)	27,646	42,981	466	1,506	2,377
Hammers	11,252	(1)	19,941	629	986	1,303
Other, including portable motor-driven garage equipment, and flexible shaft, etc	(1)	(1)	(1)	2,303	4,893	5,504
Presses (except forging presses)	(1)	(1)	(1)	1,696	6,326	15,036
Shapers and slotters	35	463	1,131	58	922	2,648
Threading machines	493	(1)	(1)	331	1,986	4,179
All other machine tools	(1)	(1)	(1)	3,908	7,492	19,037
Replacement and repair parts				5,694	11,571	14,687

[1] Data incomplete.
[2] Not strictly comparable with figures for earlier years because of differences in the questionnaires.

No. 831.—Machine-Tool Accessories and Machinists' Precision Tools—Production, by Kind: 1933, 1935, and 1937

Product	Value (thousands of dollars)		
	1933	1935	1937
Total value	46,878	104,939	176,082
Attachments and fixtures	25,894	58,491	95,650
General equipment:			
Chucks	714	1,873	4,566
Vises (machine)	81	161	234
Attachments for machine tools:			
Lathe	104	229	728
Boring, drilling, and milling-machine	805	1,028	1,384
Other attachments	99	628	550
Other attachments and fixtures	1,592	3,001	6,828
Special equipment and machinery	22,501	51,571	81,361
Small tools and tool holders	17,509	39,367	66,731
Arbors, collars, and collets (lathe, milling-machine, and drill)	164	499	995
Counterbores	56	507	1,058
Countersinks and combination countersinks and drills	104	356	543
Drills	4,508	8,981	15,189
Hobbing cutters	484	2,131	2,970
Small tools and tool holders—Continued.			
Milling cutters (all types), end mills, slotting cutters, etc.:			
Solid	2,447	5,262	10,200
Inserted-teeth	1,212	1,786	850
Reamers	1,220	3,184	5,062
Threading tools:			
Taps and dies (not pipe-threading):			
Taps	1,848	3,806	7,827
Dies	652	1,513	1,955
Chasers	1,018	1,789	2,539
Pipe-threading:			
Taps	405	424	719
Dies	456	475	849
Pipe stocks, complete with dies	650	1,306	1,825
All other, and those not reported by kind	2,285	7,347	14,151
Precision measuring tools (micrometer and vernier)	186	1,183	1,581
Gages (plug, ring, snap, thread, etc.)	761	1,332	3,003
Other measuring tools	618	1,575	2,229
Misc. equip't and accessories, not incl. above	[1] 1,910	2,993	6,887

[1] Includes machine-tool accessories, etc., not reported by kind.

Source of tables 830 and 831: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

158295°—40——54

No. 832.—Refrigerating and Ice-Making Apparatus—Production

Product	Number		Value (thousands of dollars)	
	1935	1937	1935	1937
Total value			[1] 226,611	[1] 375,406
Mechanical refrigerators and refrigerating systems, compression-type (electric):				
Domestic (household):				
Self-contained, total			[1] 119,873	[1] 183,574
Capacity under 6 cu. ft.	875,397	1,093,026	60,903	84,458
6 cu. ft. or more but under 10 cu. ft.	536,308	991,022	55,182	95,986
10 cu. ft. and over	11,688	12,102	2,428	2,396
Not reported by size			1,359	734
Commercial			[1] 8,344	[1] 20,973
Beverage coolers (for bottled beverages)		63,653		5,446
Water coolers, self-contained	(2)	(2)	2,026	4,553
Ice-cream cabinets, self-contained:				
Number reported	14,220	47,628	2,062	8,377
Number not reported			609	100
Other commercial refrigerators and display cases, self-contained	(2)	(2)	3,648	2,498
Systems [3] high sides, low sides, etc. (commercial and domestic):				
Systems complete without cabinets	242,240	279,645	11,047	11,686
Compressors made for sale separately	54,875	198,510	3,910	9,540
Evaporators made for sale separately:				
Number reported	67,985	866,973	1,573	3,145
Number not reported			559	1,355
High sides and low sides made for sale separately			7,207	12,451
Room coolers (not air conditioning)	(2)	(2)	(4)	1,139
Cabinets,[3] display cases, etc., for mechanical refrigerators, made for sale separately:				
Domestic (household), all sizes	314,394	520,097	9,497	17,163
Commercial:				
Refrigerator cabinets:				
Number reported	13,789	45,469	1,151	5,737
Number not reported			2,590	1,781
Display, storage, etc., cases:				
Number reported	8,021	26,953	3,711	13,418
Number not reported			3,536	2,905
Remote fountain or water coolers, with low sides and other commercial cabinets			1,296	3,115
Ice refrigerators and ice boxes:				
Domestic (household):				
Number reported	308,976	394,550	6,662	9,920
Number not reported			233	61
Commercial ice refrigerators, water coolers, milk coolers, food-display cases, etc.			3,223	5,354
Ice-making and refrigerating machines and apparatus, commercial and industrial			7,962	11,539
Complete machines (ice-making capacity per 24 hours):				
Less than 10 tons:				
Number reported	4,497	10,195	2,460	4,890
Number not reported			189	560
10 tons or more but under 100 tons:				
Number reported	847	1,751	2,825	3,403
Number not reported			370	117
100 tons and over	(2)	(2)	727	565
Compressors and evaporators made for sale separately as such:				
Number reported	70,842	10,300	738	702
Number not reported			654	1,243
Condensing units (high sides) for air-conditioning	(2)	7,555	(2)	5,817
Evaporators for air-conditioning	(2)	17,440	(2)	1,130
All other, including air-conditioning equipment, absorption-type refrigerators, custom-built refrigerators, cabinets cooled by replaceable chemical refrigerant and cooling equipment therefor, cabinets and display cases not reported by method of cooling, and parts for all types [5]			34,236	53,602

[1] The values of "Systems, high sides, low sides, etc.," (see footnote 3) 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 for assembly and sale as complete refrigerators.
[2] No data or data incomplete.
[3] The term "system," as used here, refers to a complete assembly, consisting of "high side" and "low side" with motor, control, and expansion valve or its equivalent. The cabinet is not a part of the system.
[4] Data incomplete; included with "All other, including air-conditioning equipment, etc."
[5] Figures combined to avoid disclosing output of individual manufacturers.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 833.—Radios, Radio Tubes, and Phonographs—Production: 1935 and 1937

Product	Number		Value (thousands of dollars)	
	1935	1937	1935	1937
Radios, radio tubes, and phonographs, total value			[1] 206,683	[1] 288,620
Receiving sets complete (cabinets, chassis, speakers, and tubes)			[1] 134,674	[1] 176,736
Number reported	5,645,102	7,802,399	132,684	175,380
Number not reported			1,990	1,356
For home and genera use		5,843,569	104,816	131,526
Number reported	4,397,804	5,843,569	103,563	131,526
Number not reported			1,253	
Covering standard broadcast band:				
Socket-power-operated	1,250,219	2,045,273	14,908	20,529
Battery-operated	187,026	235,049	4,885	3,665
Extending beyond standard broadcast band—all-wave receiving sets:				
Socket-power-operated:				
Number reported	2,700,738	3,290,083	76,742	91,472
Number not reported			1,253	
Battery-operated	259,821	273,164	7,028	6,860
Automobile sets	1,221,708	1,890,841	25,556	38,679
For general use:				
Factory price not over $25	1,040,906	1,810,601	20,812	36,162
Over $25	177,653	73,971	4,526	2,142
For police use:				
Police sets	3,149	6,269	218	375
Aircraft sets (including all accessory equipment except batteries), commercial receiving sets and direction finders, and other sets not specified above			1,841	1,963
Number reported	2,288	10,182	651	607
Number not reported			1,190	1,356
Radio-phonograph combinations	23,362	57,807	2,461	4,567
Tubes:				
Receiving tubes	78,231,142	112,218,130	28,975	39,251
For replacement	36,769,396	41,472,438	12,954	15,482
Rectifiers (primarily for use with receiving sets)	3,762,328	4,178,024	1,203	1,760
Other tubes	33,007,068	37,294,414	11,751	13,722
For initial equipment	41,461,746	70,745,701	16,021	23,769
Rectifiers (primarily for use with receiving sets)	2,926,166	4,780,449	1,119	1,601
Other tubes	38,535,580	65,965,252	14,902	22,168
Transmitting tubes for initial equipment and for replacement	(2)	(2)	1,874	3,005
Rectifier tubes not included above:				
Low-power, 500 watts and under	(2)	79,657	553	300
High-power, above 500 watts	(2)	41,603	159	242
Transmitters (including all associated equipment):				
Broadcast	(2)	(2)	401	1,910
Aircraft	(2)	(2)	1,004	3,206
Ship	(2)	540	1,250	1,770
Other transmitters, for use at fixed locations	(2)	(2)	3,115	1,989
Phonographs and accessories:				
Phonographs for mechanical reproduction, including cabinets	(2)	(2)	2,107	7,086
Records	(2)	(2)	3,705	7,823
Needles	(2)	(2)	269	583
Miscellaneous:				
Receiving-set chassis for sale separately as such [3]	277,722	(2)	4,136	5,485
Loud speakers for sale separately as such [3]	(2)	(2)	5,616	9,213
Microphones (all types)	(2)	(2)	455	694
Public-address and music-distribution apparatus	(2)	(2)	2,784	3,696
Other apparatus and products (including dictating machines, phonographs for electrical reproduction of records, including cabinets and tubes, and other miscellaneous products)			15,554	25,632

[1] Includes some duplication. See footnote 3.
[2] Data incomplete.
[3] The items to which this footnote is indexed are duplicated in the subtotal 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.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 834.—Motor Vehicles and Aircraft—Production: 1933, 1935, and 1937

Product	Number			Value (thousands of dollars)		
	1933	1935	1937	1933	1935	1937
MOTOR VEHICLES AND CHASSIS						
Total	1,848,013	3,923,052	4,732,553	928,650	2,152,986	2,848,786
Passenger vehicles (not including public conveyances)	1,533,566	3,211,734	3,847,800	752,700	1,752,138	2,296,511
Closed	1,516,343	3,191,877	3,827,517	744,268	1,739,271	2,281,131
Open	17,223	19,857	20,283	8,432	12,866	15,380
Motor busses (including school, sightseeing, and public-utility)	1,574	4,817	7,665	6,948	27,176	47,176
Trucks	213,683	505,226	602,144	110,765	271,202	356,683
Hearses and undertakers' wagons	825	1,681	2,604	1,911	3,769	6,206
Ambulances	418	253	467	520	589	1,155
Truck tractors	1,633	2,464	1,786	3,203	5,028	2,785
Taxicabs and commercial vehicles not specified above	5,281	3,205	4,360	5,245	3,570	3,637
Fire-department apparatus	244	538	985	1,475	2,811	5,868
Other vehicles and apparatus (including street-cleaning apparatus, etc.)	46	124	397	219	762	1,036
Chassis	90,743	193,010	264,345	45,663	85,940	127,729
Passenger	8,756	40,596	36,423	3,875	13,453	12,704
Commercial	81,804	151,675	226,205	41,569	71,702	113,223
Bus	183	739	1,717	219	785	1,802
AIRCRAFT						
Total value				25,619	40,882	101,520
Aircraft begun and completed within the year [1]	1,179	1,365	3,100	15,860	17,454	38,664
Airplanes	1,056	1,313	3,090	13,359	14,895	38,575
Seaplanes and amphibians	68	41		2,221	2,347	
Other	55	11	10	280	213	89
Value of work done during census year on aircraft under construction [2]				2,486	14,069	33,776
Parachutes, propellers, and pontoons				1,375	2,832	8,228
Parts				5,898	6,527	20,852

[1] For 1933, reported as "Built in 1933;" for 1935, as "Begun and completed in 1935;" for 1937, as "Begun and completed in 1937."

[2] The term "aircraft under construction" includes all aircraft (1) begun prior to the census year and finished during the census year, (2) begun prior to the census year and not completed during the year, or (3) begun during the census year and not completed at the close of the census year. Only the value of work done during the census year is reported.

No. 835.—Bicycles—Production: 1899 to 1937

Year	Number	Value	Year	Number	Value
1899	1,182,691	$23,656,487	1925	303,446	$7,030,566
1904	250,487	3,740,923	1927	255,456	5,803,440
1909	233,707	3,228,189	1929	307,845	6,183,773
1914	398,899	5,361,230	1931	260,029	4,733,254
1919	479,163	[1] 12,498,000	1933	[3] 320,000	[1] 5,402,000
1921	[2] 216,464	[2] 6,218,394	1935	656,828	12,059,867
1923	486,177	10,726,900	1937	1,130,736	22,223,431

[1] Estimated in small part.

[2] Not including data for bicycles made by certain establishments engaged primarily in other lines of manufacture, not reported separately. The combined value of bicycles and parts made by these establishments amounted to $176,464.

[3] Estimated in part.

Source of tables 834 and 835: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 836.—Cotton Spindles, Cotton Consumption, and Stocks

Note.—The statistics for 1915 to 1939 relate to the 12 months ended July 31 and those for prior years to the 12 months ended Aug. 31. Consumption and stocks are expressed in running bales, counting round as half bales, except that all figures, 1840 to 1870, inclusive, and foreign cotton for all years are in equivalent 500-pound bales. The number of active cotton spindles represents spindles operated at some time during the year, and is not as satisfactory a measure of activity of the industry as active spindle hours

Year	Cotton spindles (thousands)					Spindles using cotton with other fibers (thousands)	Active cotton spindle hours (thousands)	Cotton consumed, excluding linters[1] (thousands of bales)			
	Total in place	Active									
		United States	Cotton-growing States	New England	Other States			United States	Cotton-growing States	New England	Other States
1840	(2)	2,285	181	1,597	506	(2)	(2)	237	71	159	7
1850	(2)	3,098	265	2,959	775	(2)	(2)	576	78	431	67
1860	(2)	5,236	324	3,859	1,053	(2)	(2)	845	94	567	184
1870	(2)	7,132	328	5,498	1,306	(2)	(2)	797	69	551	177
1880	(2)	[3] 10,653	[3] 561	[3] 8,632	[3] 1,460	(2)	(2)	[3] 1,570	[3] 189	[3] 1,129	[3] 252
1890	(2)	14,384	1,570	10,934	1,880	(2)	(2)	2,518	539	1,502	477
1900	(2)	19,472	4,368	13,171	1,933	(2)	(2)	3,873	1,523	1,909	440
1910	28,929	28,267	10,494	15,735	2,038	(2)	(2)	4,622	2,234	1,995	393
1920	35,834	35,481	15,231	18,287	1,963	402	(2)	6,420	3,583	2,397	440
1923	37,409	36,260	16,310	18,054	1,896	289	101,931	6,666	4,248	2,050	369
1924	37,804	35,849	16,944	17,066	1,839	258	84,360	5,681	3,858	1,535	287
1925	37,929	35,032	17,292	15,975	1,765	251	91,055	6,193	4,220	1,639	335
1926	37,586	34,750	17,574	15,526	1,650	243	93,941	6,456	4,500	1,628	328
1927	36,696	34,410	17,894	14,995	1,521	235	102,605	7,190	5,194	1,675	321
1928	35,540	33,570	18,282	13,815	1,473	232	96,451	6,834	5,114	1,438	282
1929	34,820	32,417	18,541	12,538	1,339	207	99,604	7,091	5,392	1,447	251
1930	34,025	31,245	18,586	11,351	1,308	177	87,515	6,106	4,749	1,143	214
1931	32,673	28,980	18,073	9,655	1,251	117	75,264	5,263	4,148	937	179
1932	31,709	27,272	17,630	8,566	1,076	113	68,755	4,866	4,033	677	155
1933	30,893	26,895	17,929	8,205	761	119	85,265	6,137	5,087	884	167
1934	30,942	27,742	18,511	8,457	774	126	80,419	5,700	4,550	985	165
1935	30,093	26,701	18,212	7,763	726	88	72,526	5,361	4,306	818	237
1936	28,147	24,664	17,834	6,092	738	78	83,960	6,351	5,336	832	184
1937	26,982	25,419	18,244	6,425	751	91	101,225	7,950	6,626	1,073	251
1938	26,372	24,774	18,128	5,919	727	90	74,962	5,748	4,881	708	160
1939	25,261	23,731	17,666	5,408	657	116	87,696	6,858	5,810	859	189

Yearly average or year	Consumption (thousands of bales)							Stocks in consuming establishments at end of year (thousands of bales)			
	Cotton, excluding linters						Linters	Cotton, excluding linters			Linters
	Total	Domestic				Foreign		Total	Domestic	Foreign	
		Total	Upland	Sea Island	American-Egyptian						
1906–1910	[4] 4,829	[4] 4,680	[4] 4,616	[4] 64	--------	149	[5] 163	[4] 731	[4] 673	58	[5] 39
1911–1915	5,257	5,051	[6] 4,976	75	(6)	206	293	822	738	84	86
1916–1920	6,388	6,105	[6] 6,034	71	(6)	282	734	1,452	1,352	100	179
1921–1925	5,869	5,577	5,531	9	37	292	599	1,003	911	92	139
1926–1930	6,735	6,434	6,419	1	15	301	815	1,150	1,050	100	186
1931–1935	5,466	5,325	5,311	1	14	140	720	1,116	1,061	55	261
1920	6,420	6,003	5,914	43	46	417	342	1,358	1,208	150	277
1923	6,666	6,322	6,251	6	65	344	646	1,100	981	118	127
1924	5,681	5,353	5,312	5	36	328	537	722	638	84	101
1925	6,193	5,917	5,894	4	19	276	659	866	787	79	129
1926	6,456	6,176	6,162	2	12	280	804	1,097	1,010	86	144
1927	7,190	6,880	6,859	1	20	309	806	1,405	1,325	80	199
1928	6,834	6,535	6,519	1	15	299	780	1,012	935	77	159
1929	7,091	6,778	6,764	1	13	313	879	1,052	932	120	187
1930	6,106	5,803	5,790	(7)	13	302	805	1,183	1,048	135	239
1931	5,263	5,084	5,068	(7)	15	179	714	996	922	74	254
1932	4,866	4,744	4,732	(7)	12	122	637	1,218	1,163	55	301
1933	6,137	6,004	5,985	1	18	133	761	1,348	1,298	50	322
1934	5,700	5,553	5,540	(7)	13	148	767	1,228	1,172	56	237
1935	5,361	5,241	5,229	1	11	120	719	789	749	40	187
1936	6,351	6,220	6,198	(7)	21	131	734	897	855	42	181
1937	7,950	7,768	7,747	(7)	20	182	819	1,286	1,218	67	236
1938	5,748	5,616	5,608	2	6	132	715	1,263	1,223	39	268
1939	6,858	6,736	6,714	3	19	122	851	862	816	46	291

[1] Includes linters for 1840 to 1900. Figures for all years include foreign and domestic cotton.
[2] Not available. [3] Cotton mills only. [4] Includes linters for 1906 to 1908. [5] Average, 1909 and 1910.
[6] "Upland" includes "American-Egyptian" beginning 1912 (first year produced). [7] Less than 500 bales.

Source: Department of Commerce, Bureau of the Census; annual report, Cotton Production and Distribution.

No. 837.—Cotton Spindle Activity, 1937, 1938, 1939, and Cotton Consumption, 1926 to 1939, by States

Note.—Years ended July 31. Consumption includes domestic and foreign cotton and is in running bales, counting rounds as half bales, except foreign cotton which is in equivalent 500-pound bales.

Section and State	Cotton spindles in place (thousands)			Active cotton spindle hours (millions)			Cotton consumed, excluding linters (thousands of bales)				
	1936–37	1937–38	1938–39	1936–37	1937–38	1938–39	1926–1930, average	1931–1935, average	1936–37	1937–38	1938–39
United States	**26,982**	**26,372**	**25,261**	**101,225**	**74,962**	**87,696**	**6,735**	**5,466**	**7,950**	**5,748**	**6,858**
Cotton-growing States	18,891	18,798	18,319	77,667	59,776	69,231	4,990	4,425	6,626	4,881	5,810
New England	7,172	6,773	6,143	21,228	13,709	16,726	1,466	860	1,073	708	859
Other States	919	801	799	2,330	1,477	1,739	279	181	251	160	189
Alabama	1,901	1,884	1,811	7,839	5,460	6,507	563	570	856	588	727
Connecticut	669	506	520	2,052	1,275	1,801	101	60	77	46	54
Georgia	3,309	3,243	3,234	13,815	10,152	12,416	1,139	985	1,562	1,080	1,348
Maine	710	705	689	2,760	1,988	2,246	126	111	169	120	147
Massachusetts	4,000	3,766	3,434	10,989	6,672	8,700	823	442	539	329	410
New Hampshire	677	629	420	1,781	1,455	1,291	208	149	157	118	130
New York	466	355	347	1,039	564	781	139	76	116	66	84
North Carolina	6,040	6,049	5,866	23,073	17,150	20,507	1,534	1,298	2,021	1,478	1,789
Rhode Island	1,017	979	973	3,310	2,106	2,906	199	91	120	87	108
South Carolina	5,685	5,731	5,619	25,472	20,677	23,244	1,196	1,103	1,511	1,196	1,372
Tennessee	632	600	550	2,691	2,306	2,382	157	139	191	152	173
Texas	255	255	239	962	871	912	122	74	131	119	125
Virginia	667	634	639	2,377	2,053	2,185	120	128	174	146	139
All other States	954	945	911	3,064	2,233	2,318	309	240	326	222	251

Source: Department of Commerce, Bureau of the Census; annual report, Cotton Production and Distribution.

No. 838.—Explosives—Amounts (Excluding Exports) Manufactured and Sold, Continental United States and Alaska: 1914 to 1938

Note.—In thousands of pounds. Permissible explosives are those approved by the Bureau of Mines as suitable for use in coal mines.

Year	Total	Permissible explosives	High explosives other than permissible	Black blasting powder		Use	Total	Permissible explosives	High explosives other than permissible	Black blasting powder
				Granular	Pellet					
1914	450,251	25,698	218,454	206,100	------	**1937**	**404,744**	**49,579**	**288,924**	**66,241**
1915	460,901	27,350	236,829	197,722	------	Coal mining	134,150	48,735	26,691	58,723
1916	505,415	34,685	255,155	215,575	------	Metal mining	99,871	50	99,537	284
1917	582,475	43,041	262,316	277,119	------	Quarrying and nonmetallic mineral mining	55,616	434	52,777	2,406
1918	499,125	46,045	206,416	246,663	------	Railway and other construction work	98,173	74	93,742	4,357
1919	417,634	38,855	198,269	180,511	------	All other purposes	16,935	286	16,178	471
1920	537,955	53,963	229,112	254,880	------					
1921	372,108	41,134	170,952	160,021	------	**1938**	**332,130**	**41,859**	**238,576**	**51,695**
1922	431,772	43,430	209,476	178,866	------	Coal mining	111,369	41,417	23,584	46,368
1923	529,728	60,371	267,405	201,951	------	Metal mining	75,613	20	75,407	186
1924	495,533	55,134	273,323	167,076	------	Quarrying and nonmetallic mineral mining	42,706	268	40,702	1,737
1925	501,752	58,353	286,435	[1]156,964	(1)	Railway and other construction work	88,780	51	85,692	3,037
1926	535,890	67,685	310,518	[1]157,687	(1)	All other purposes	13,662	103	13,191	367
1927	499,011	63,847	303,468	[1]131,696	(1)					
1928	475,251	60,708	292,785	98,004	23,754					
1929	509,708	62,669	326,903	86,818	33,227					
1930	445,090	53,826	291,391	63,139	36,735					
1931	337,565	41,578	216,157	46,300	33,530					
1932	233,887	32,225	137,908	35,793	27,961					
1933	255,987	33,927	157,849	33,887	30,323					
1934	314,768	39,208	206,625	37,193	31,742					
1935	308,381	39,170	200,324	34,223	34,665					
1936	391,605	47,859	262,047	40,420	41,278					
1937	404,744	49,579	288,924	29,837	36,404					
1938	332,130	41,859	238,576	23,552	28,143					

[1] Pellet powder is included with granular powder. Pellet powder was first manufactured for general sale in 1925.

Source: Department of the Interior, Bureau of Mines; Production of Explosives in the United States.

No. 839.—Tobacco Products—Production, by Kind

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 82,913,436 cigars in 1938. 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 [1]	Snuff	Large	Small	Large	Small
1901–1905	346,841	175,981		11,903	138,402	20,556	6,513,095	716,720	7,143	3,227,602
1906–1910	413,054	167,400	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	159,869	14,346	9,758	237,808	34,805	7,364,937	810,327	26,026	41,565,670
1921–1925	409,457	115,445	10,105	6,972	239,151	37,785	6,691,913	557,300	16,704	65,903,991
1926–1930	389,244	99,470	8,374	5,821	235,421	40,159	6,360,650	414,044	10,479	109,361,216
1931–1935	349,785	64,662	5,404	3,660	239,072	36,987	4,648,368	245,412	20,417	121,702,334
1931	371,237	76,653	6,377	4,170	244,182	39,854	5,347,921	338,997	5,160	117,064,214
1932	347,279	61,945	4,918	3,354	241,067	35,904	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	2,846	114,874,217
1934	345,566	62,760	5,080	2,970	237,802	36,894	4,525,780	221,977	88,202	129,976,334
1935	342,728	60,588	5,604	4,683	235,757	36,095	4,685,370	177,822	2,504	139,966,180
1936	347,977	59,165	6,372	5,068	239,349	38,022	5,172,279	180,006	2,458	158,803,958
1937	340,579	58,331	6,774	4,999	233,334	37,141	5,303,369	198,585	3,066	169,969,320
1938	345,369	54,495	5,659	4,572	243,470	37,173	5,014,758	152,990	2,638	171,686,383

State	Number of factories Jan. 1, 1939, making—			Production in 1938 (calendar year)				
	Tobacco and snuff [2]	Cigars	Cigarettes	Tobacco and snuff (1,000 pounds)	Cigars (thousands)		Cigarettes (thousands)	
					Large	Small	Large	Small
Total	**632**	**3,834**	**75**	**345,369**	**5,014,758**	**152,990**	**2,638**	**171,686,383**
California	24	137	5	295	71,823	6	6	3,270,253
Connecticut	8	113		30	33,641			
Florida	4	167	2	2	876,845	5,475		6,532
Illinois	77	449	1	25,906	34,334			3
Indiana	26	66		137	98,760			
Kentucky	26	26	4	36,905	4,010			12,279,030
Louisiana		9			76,183			
Massachusetts	27	228	8	308	40,615		4	3,892
Michigan	21	108	1	8,365	149,865			12
Minnesota	16	64		46	6,346			
Missouri	14	80	2	31,482	24,928			3,658
New Hampshire	2	38			60,990			
New Jersey	16	135	3	7,135	663,022	10,141		8,784,119
New York	127	885	24	1,394	195,918	2,531	1,774	180,051
North Carolina	11	7	8	125,220	41,605	14,378	713	85,277,470
Ohio	53	203		42,539	232,998	50		
Pennsylvania	78	550	8	8,152	1,780,449	97	141	5,501,717
South Carolina	1	4		1	253,906			
Tennessee	13	11		19,630	4,424			
Virginia	7	13	9	28,058	212,917	120,312		56,379,046
West Virginia	7	30		7,318	74,982			
All other	74	511		2,446	76,107			

[1] Includes scrap chewing tobacco.
[2] Factories producing a taxable product, excluding 222 "quasi" manufactures.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

No. 840.—Tobacco Consumption in the United States: 1932 to 1938

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

Item	1932	1933	1934	1935	1936	1937	1938
Leaf tobacco consumed in manufacture:							
In registered factories	690,134	710,668	775,530	775,932	847,367	872,924	865,302
In bond	635	1,283	943	1,027	1,165	1,118	1,631
Manufactured tobacco imported:							
From Puerto Rico	1,081	905	903	853	682	475	42
Other countries [1]	2,393	2,010	3,353	4,456	3,299	4,378	3,381
Exports of manufactured tobacco [2]	13,501	13,606	16,526	18,646	21,543	24,971	27,715
Remaining for consumption	680,741	701,260	764,204	763,622	830,970	853,924	842,641
Per capita consumption—pounds	5.45	5.58	6.04	5.99	6.47	6.61	6.47

[1] Imports for consumption beginning with 1934; general imports for prior years.
[2] Represents exports to foreign countries and shipments to noncontiguous Territories and possessions.

Sources: Leaf tobacco used in registered factories, Treasury Department, Bureau of Internal Revenue; leaf tobacco used in bonded factories, Treasury Department, Bureau of Customs; other data, Department of Commerce, Bureau of Foreign and Domestic Commerce.

No. 841.—Tobacco, Leaf—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 840)

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	1928	754, 625	151, 290	310, 159	293, 176
1901–1905	451, 461	124, 411	12, 444	314, 606	1929	796, 626	152, 129	346, 543	297, 953
1906–1910	524, 193	139, 206	22, 079	362, 908	1930	779, 806	137, 901	347, 915	293, 990
1911–1915	578, 283	151, 890	52, 207	374, 186	1931	752, 404	127, 628	329, 962	294, 813
1916–1920	650, 460	155, 312	130, 320	364, 828	1932	690, 134	104, 288	299, 029	286, 817
1921–1925	672, 077	151, 421	198, 069	322, 588	1933	710, 668	104, 699	326, 093	279, 876
1926–1930	762, 540	149, 240	312, 533	300, 767	1934	775, 530	111, 123	375, 383	289, 024
1931–1935	740, 934	112, 296	345, 985	282, 652	1935	775, 932	113, 742	399, 458	262, 731
1925	718, 426	149, 001	244, 315	325, 109	1936	847, 367	126, 578	453, 327	267, 462
1926	737, 354	152, 372	267, 584	317, 399	1937	872, 924	128, 653	479, 961	264, 309
1927	744, 288	152, 510	290, 464	301, 314	1938	865, 302	118, 751	483, 840	262, 711

No. 842.—Distilled Spirits, Wines, Fermented Malt Liquors, and Cereal Beverages—Production, Tax-Paid Withdrawals, and Imports

Year ended June 30—	Distilled spirits, including industrial alcohol (thousand tax gallons) [1]			Still wines (thous. wine gallons) [2]	Sparkling wines (thous. half-pint units) [3]	Rectified spirits and wines (thous. proof gallons)	Fermented malt liquors (thous. barrels) [4]	Cereal beverages [5] (thous. barrels) [4]
	Total	Exclusive of fruit brandy	Fruit brandy					
Production: [6]								
1905	153, 259	147, 811	5, 449	(7)	(7)	105, 290	49, 522	---------
1910	163, 894	156, 238	7, 656	(7)	(7)	99, 919	59, 485	---------
1915	140, 656	132, 134	8, 522	(7)	(7)	90, 858	59, 808	---------
1918	178, 834	173, 476	5, 357	(7)	(7)	61, 926	50, 266	---------
1920	101, 265	99, 616	1, 649	(7)	(7)	591	9, 231	---------
1925	167, 498	166, 951	548	3, 638	62	40	(8)	5, 119
1927	185, 472	185, 133	338	4, 407	38	57	(8)	4, 382
1928	170, 515	170, 103	412	4, 923	11	46	(8)	4, 131
1929	205, 038	203, 844	1, 194	11, 382	409	35	(8)	3, 866
1930	197, 221	196, 805	416	3, 155	445	31	(8)	3, 681
1931	170, 394	169, 574	820	6, 659	1	22	(8)	3, 137
1932	150, 391	149, 760	631	5, 210	1	(7)	(8)	2, 766
1933	123, 405	121, 819	1, 586	18, 756	573	(7)	[9] [10] 9, 798	1, 261
1934	241, 610	233, 036	8, 574	77, 778	10, 657	(7)	[10] 37, 678	136
1935	349, 772	339, 895	9, 877	91, 930	6, 214	23, 094	45, 229	131
1936	449, 994	429, 900	20, 094	170, 903	8, 277	32, 449	51, 812	119
1937	482, 138	469, 666	12, 472	122, 045	9, 623	44, 311	58, 748	103
1938	351, 190	328, 645	22, 544	228, 726	9, 780	43, 560	56, 340	70
1939	346, 344	318, 897	27, 446	231, 986	6, 634	43, 401	53, 871	63
Withdrawals, tax-paid: [6]								
1936	100, 383	98, 734	[11] 1, 649	47, 474	5, 799	---------	48, 760	[12] 119
1937	120, 011	118, 094	[11] 1, 917	62, 035	7, 906	---------	55, 392	[12] 101
1938	114, 926	113, 220	[11] 1, 706	61, 176	7, 223	---------	53, 926	[12] 69
1939	114, 578	112, 888	[11] 1, 690	67, 369	6, 286	---------	51, 817	[12] 62
Imports for consumption:								
1937	[13] [14] 15, 639	[13] [14] 14, 906	[13] 732	3, 468	[15] 568	534	76	---------
1938	[13] [14] 13, 856	[13] [14] 13, 155	[13] 701	3, 054	[15] 543	436	(16)	---------
1939	[13] [14] 10, 824	[13] [14] 10, 123	[13] 700	3, 157	[15] 514	324	(16)	---------

[1] In computing taxable gallons all fractional parts of a proof gallon less than one-tenth are excluded.
[2] Production represents the amount removed from fermenters including wine that is removed for use as distilling material in the production of brandy.
[3] Includes artificially carbonated wine. Tax is payable "on each one-half pint (for artificially carbonated wine, 'on each pint' beginning June 26, 1936) or fraction thereof" of "each bottle or other container."
[4] Barrels of not more than 31 gallons. [5] Containing less than one-half of 1 percent alcohol by volume.
[6] Includes data for Hawaii; industrial alcohol figures also include Puerto Rico beginning Aug. 1, 1928.
[7] No data compiled by Bureau of Internal Revenue. [8] No legal production.
[9] Includes 1,588,788 barrels produced prior to Apr. 7 (effective date of the Act of Mar. 22, 1933).
[10] Alcoholic content limited to 3.2 percent by weight from Apr. 7 to Dec. 5, 1933.
[11] Does not include brandy withdrawn for the fortification of wine.
[12] Total withdrawals; tax law repealed, effective May 10, 1934. [13] In thousands of proof gallons.
[14] Does not include 212 gallons (regulation) of ethyl alcohol (pure grain) for 1937, not convertible into proof gallons; figures not available for 1938 and 1939.
[15] In thousands of wine gallons. [16] Figures not available.

Source of tables 841 and 842: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner. Imports, Department of Commerce, Bureau of Foreign and Domestic Commerce; Monthly Summary of Foreign Commerce of the U. S.

No. 843.—Denatured Alcohol:[1] 1910 to 1939

Year ended June 30—	Alcohol produced at industrial alcohol plants [2]	Denaturing plants	Ethyl alcohol withdrawn for denaturation [3]	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, 025	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
1925	166, 165, 518	91	152, 254, 039	46, 983, 970	34, 824, 303	81, 808, 273
1928	169, 149, 905	82	161, 362, 455	46, 966, 601	45, 451, 424	92, 418, 026
1929	202, 616, 750	79	186, 045, 935	53, 296, 717	54, 623, 207	107, 919, 924
1930	193, 823, 717	68	185, 000, 827	59, 063, 510	47, 713, 468	106, 776, 978
1931	168, 109, 617	61	152, 606, 700	50, 000, 627	37, 414, 521	87, 415, 148
1932	146, 950, 913	50	136, 388, 865	35, 002, 096	44, 541, 336	79, 543, 432
1933	115, 609, 754	43	107, 657, 981	27, 275, 071	35, 800, 271	63, 075, 342
1934	165, 103, 582	41	139, 681, 129	27, 174, 311	55, 067, 092	82, 241, 403
1935	180, 645, 920	39	165, 233, 606	38, 746, 679	58, 284, 395	97, 031, 074
1936	196, 126, 236	37	174, 357, 295	36, 522, 358	64, 955, 485	101, 477, 843
1937	223, 181, 228	45	181, 034, 322	22, 118, 378	80, 084, 281	102, 202, 659
1938	201, 033, 858	43	165, 848, 246	25, 598, 717	69, 009, 024	94, 607, 741
1939	201, 017, 546	38	177, 336, 688	17, 179, 433	83, 561, 077	100, 740, 510

[1] Includes data for Hawaii for all years and data for Puerto Rico beginning with Aug. 1, 1928.
[2] Separate accounts for alcohol produced at industrial alcohol plants required commencing May 1, 1920.
[3] Figures include rum and spirits produced at distilleries for denaturation.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

No. 844.—Ethyl Alcohol and Other Distilled Spirits, Except Brandy—Materials Used in Production, by Kinds: 1901 to 1939

Year ended June 30—	Molasses (thousand gallons)	Grain (thousand bushels)				Ethyl sulphate	Pineapple juice	Other materials [2]	
		Corn	Malt	Rye	Other [1]	Thousand gallons		Thousand gallons	Thousand pounds
1901	3, 165	18, 867	3, 274	5, 086	52	--------	--------	--------	--------
1902	12, 485	18, 474	3, 361	5, 585	68	--------	--------	--------	--------
1903	15, 544	20, 598	3, 754	5, 873	72	--------	--------	--------	--------
1904	18, 549	19, 149	3, 455	5, 024	60	--------	--------	--------	--------
1905	20, 550	20, 593	3, 799	5, 489	47	--------	--------	--------	--------
1906	22, 638	20, 002	3, 759	5, 596	36	--------	--------	--------	--------
1907	26, 723	23, 475	4, 440	6, 251	46	--------	--------	--------	--------
1908	28, 945	17, 384	2, 975	3, 756	32	--------	--------	--------	--------
1909	33, 550	18, 081	3, 221	4, 304	22	--------	--------	--------	--------
1910	42, 203	20, 547	3, 705	5, 043	33	--------	--------	--------	--------
1911	44, 363	23, 247	4, 053	5, 376	91	--------	--------	--------	--------
1912	61, 605	23, 017	4, 076	5, 600	85	--------	--------	--------	--------
1913	64, 641	23, 848	4, 253	5, 828	110	--------	--------	--------	--------
1914	64, 721	21, 316	3, 939	5, 342	83	--------	--------	--------	--------
1915	123, 301	14, 260	2, 357	2, 441	80	--------	--------	--------	--------
1916	80, 977	32, 070	4, 481	3, 117	82	--------	--------	71, 165	--------
1917	112, 498	33, 973	4, 240	2, 375	81	--------	--------	78, 463	--------
1918	118, 028	14, 545	1, 690	249	172	--------	--------	68, 527	--------
1919	123, 499	3, 890	573	25	86	--------	--------	9, 801	--------
1920	113, 133	1, 058	215	50	52	--------	--------	19, 327	--------
1921	119, 053	4, 890	914	188	29	--------	--------	31, 101	--------
1922	97, 223	3, 093	816	85	1	--------	--------	74, 705	--------
1923	148, 711	3, 106	831	5	--------	--------	--------	32, 543	12
1924	155, 001	4, 847	1, 153	91	20	--------	--------	35, 525	155, 756
1925	203, 270	7, 201	1, 071	97	11	--------	--------	37, 824	112, 392
1926	267, 404	7, 948	650	13	12	--------	--------	44, 508	46, 885
1927	211, 519	8, 383	505	7	--------	--------	--------	40, 942	49, 469
1928	213, 630	6, 194	453	7	9	--------	--------	56, 705	79, 576
1929	268, 045	9, 802	370	8	--------	--------	--------	53, 884	53, 038
1930	235, 797	9, 966	666	208	33	1, 274	--------	21, 601	65, 535
1931	187, 790	2, 454	643	6, 385	28	10, 072	5, 768	19, 302	30, 344
1932	161, 295	4, 848	506	218	332	11, 146	4, 235	15, 072	20, 377
1933	117, 939	5, 818	560	564	6	8, 943	5, 544	6, 772	30, 265
1934	174, 031	10, 362	2, 515	4, 509	48	9, 568	7, 491	1, 672	23, 797
1935	195, 266	19, 400	4, 810	10, 856	55	13, 699	5, 317	1, 190	28, 247
1936	179, 123	31, 825	6, 650	12, 835	66	24, 403	6, 790	8, 092	678
1937	208, 071	36, 242	6, 916	11, 633	65	25, 493	3, 598	12, 248	982
1938	166, 722	19, 827	3, 690	6, 055	48	26, 577	2, 007	27	456
1939	163, 223	18, 087	3, 275	5, 495	61	35, 389	1, 594	26, 177	1, 254

[1] Wheat, barley, rice, etc.; also mixtures of corn, malt, and rye.
[2] Diamalt, sulphite liquor, manioca meal, maguey juice, maple sirup, cider, corn sirup, potatoes, crude alcohols mixture, cellulose pulp and chemical mixtures, etc.

Source: Treasury Department: 1901 to 1933, Bureau of Industrial Alcohol; Statistics Concerning Intoxicating Liquors. 1934 and subsequent years, Bureau of Internal Revenue; annual and special reports.

No. 845.—Motion-Picture Production—Summary: 1921 to 1937

Note.—All money figures are in thousands of dollars. Data represent the activities of the motion-picture studios and laboratories. They do not include the distribution of films and their projection in theatres. No data are included for establishments which reported less than $5,000 as the cost of work done. The motion-picture industry has been canvassed, since 1921, in connection with the Biennial Census of Manufactures. It is not, however, a manufacturing industry, but was treated as such prior to 1931

Year and State	Number of establishments	Persons engaged		Salaries and wages		Cost of contract work	Cost of studio supplies, fuel, etc.[1]	Cost of production
		Salaried officers and employees	Wages earners (average for year)	Salaries	Wages			
UNITED STATES								
1921	127	4,400	6,259	22,953	14,740	563	31,190	77,397
1923	97	3,496	6,408	21,824	16,601	1,609	30,657	86,418
1925	132	5,945	5,573	35,951	13,066	5,369	33,258	93,636
1927	142	7,598	8,415	56,299	18,637	15,477	34,867	134,343
1929	142	8,818	10,784	60,168	24,860	11,312	38,441	184,102
1931	140	[2] 14,339		[2] 70,637		12,016	32,222	154,436
1933	92	[3] 8,260	10,777	[3] 52,948	18,395	4,028	26,153	119,343
1935	129	12,675	14,917	79,743	24,686	5,145	29,541	161,865
1937	83	15,845	18,770	104,324	35,264	7,013	35,575	197,741
STATES, 1937								
California	35	14,007	16,398	101,419	31,533	5,175	25,330	171,943
Los Angeles	24	6,787	8,558	52,231	16,500	1,454	17,027	87,765
Remainder of State	11	7,220	7,840	49,189	15,033	3,721	8,302	84,178
Illinois	7	67	89	136	117	14	146	481
New York	21	1,421	1,462	2,039	2,478	1,586	5,206	16,378
Other States	20	350	830	730	1,137	237	4,893	8,939

PRODUCTS, BY KIND AND COST, AND RECEIPTS FOR WORK DONE

	1931	1933	1935	1937
Total cost of work done	154,436	119,343	161,865	197,741
Negative films, cost	108,560	82,280	118,673	131,755
Theatrical:				
Number	1,227	1,059	1,094	3,942
Cost	100,065	77,536	110,975	126,039
News, cost	3,422	[4] 4,576	[4] 4,940	[4] 4,540
Advertising, cost	4,664			
Educational, cost	409	168	324	[4] 1,176
Other films, cost	-------	-------	2,434	

	1931	1933	1935	1937
Unfinished productions, cost	14,729	14,581	15,684	33,075
Laboratory work:				
Positive films, cost	12,556	7,625	6,046	8,218
Receipts for work done for others	14,332	11,835	15,089	15,318
Value of other work done	2,802	1,520	1,818	3,468
Receipts for use of studio facilities	1,457	1,502	4,554	5,907

[1] Includes cost of studio supplies, containers for films, fuel, and purchased electric energy.
[2] Data cover "productive employees" only. These include all wage earners and a part, but not all, of the salaried employees. Figures are not, therefore, comparable with either the wage-earner figures or with the total number of persons engaged. Data for other years cover all classes of employees.
[3] Does not include data for salaried officers of corporations.
[4] Combined to avoid disclosing approximations of data for individual establishments.

Source: Department of Commerce, Bureau of the Census; Biennial Census report, Motion Pictures.

No. 846.—Patent Applications, Caveats Filed, and Patents and Certificates of Registration Issued Since Initiation of the Patent System: 1836 to 1938

Note.—The number of patents granted prior to July 28, 1836, was 9,957. Data include patents issued to citizens of the United States and residents of foreign countries

Calendar year or period	Patent applications [1]	Caveats filed [2]	Patents issued				Certificates of registration issued				
			Total	Patents	Designs	Reissues	Total	Trademarks	Trademark renewals	Labels	Prints
1836–1850 [3]	[4] 14,062	[4] 4,763	8,387	7,864	[5] 340	[6] 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	[7] 121	[7] 121	-------	-------	-------
1871–1880	206,436	29,350	138,355	125,520	7,535	5,300	10,395	8,017	-------	[8] 2,378	-------
1881–1890	352,475	25,012	217,821	207,850	8,357	1,614	14,660	10,636	-------	4,024	-------
1891–1900	410,049	21,199	234,956	220,840	13,374	742	18,794	16,903	-------	[9] 1,606	[10] 285
1901–1905	253,417	9,168	148,291	143,791	3,953	547	18,590	12,768	-------	4,579	1,243
1906–1910	307,187	8,880	175,618	171,560	3,297	761	36,375	32,060	-------	2,856	1,459
1911–1915	350,937	-------	194,387	186,241	7,295	851	32,381	27,369	-------	3,522	1,490
1916–1920	368,737	-------	207,108	197,644	8,486	978	35,364	30,681	-------	3,411	1,272
1921–1925	427,127	-------	217,525	203,977	12,326	1,222	81,566	68,881	[11] 2,278	7,361	3,046
1926–1930	459,904	-------	234,857	219,384	13,796	1,677	96,729	71,469	12,067	8,736	4,457
1931–1935	342,861	-------	256,219	[12] 239,253	15,079	1,887	72,783	52,432	9,282	8,466	2,603
1903	50,213	1,771	31,699	31,046	536	117	3,446	2,186	-------	990	270
1904	52,143	1,808	30,934	30,267	557	110	3,569	2,158	-------	1,114	297
1905	54,971	1,896	30,399	29,784	486	129	5,679	4,490	-------	830	359
1906	56,482	1,885	31,965	31,181	625	159	11,933	10,568	-------	709	656
1907	58,762	1,967	36,620	35,880	589	151	8,860	7,878	-------	667	315
1908	61,475	2,110	33,682	32,757	757	168	6,029	5,191	-------	618	220
1909	65,839	1,948	37,421	36,574	687	160	4,824	4,184	-------	492	148
1910	64,629	970	35,930	35,168	639	123	4,720	4,239	-------	370	120
1911	69,121	-------	34,084	32,917	1,010	157	5,112	4,205	-------	659	248
1912	70,976	-------	37,731	36,231	1,342	158	5,896	5,020	-------	633	243
1913	70,367	-------	35,788	33,941	1,683	164	6,063	5,065	-------	708	290
1914	70,404	-------	41,850	39,945	1,715	190	7,874	6,817	-------	719	338
1915	70,069	-------	44,934	43,207	1,545	182	7,436	6,262	-------	803	371
1916	71,033	-------	45,927	43,970	1,759	198	8,087	6,791	-------	864	432
1917	70,373	-------	42,760	41,069	1,512	179	6,197	5,330	-------	613	245
1918	59,800	-------	39,941	38,569	1,207	165	4,912	4,061	-------	654	197
1919	80,638	-------	38,598	36,872	1,523	203	4,874	4,208	-------	520	146
1920	86,893	-------	39,882	37,164	2,485	233	11,294	10,282	-------	760	252
1921	93,395	-------	41,401	37,885	3,277	239	13,605	11,654	-------	1,485	466
1922	89,028	-------	40,297	38,414	1,627	256	14,992	12,793	-------	1,612	587
1923	79,189	-------	40,787	38,634	1,927	226	16,725	14,845	-------	1,261	619
1924	80,888	-------	45,500	42,594	2,671	235	17,562	15,749	-------	1,278	535
1925	84,627	-------	49,540	46,460	2,824	266	18,682	13,840	2,278	1,725	839
1926	86,116	-------	47,627	44,750	2,602	275	21,819	14,964	4,282	1,686	887
1927	92,122	-------	44,444	41,731	2,387	326	20,548	14,586	3,063	1,807	1,092
1928	92,725	-------	45,899	42,376	3,188	335	19,084	14,142	2,049	1,921	972
1929	94,738	-------	48,565	45,284	2,907	374	18,087	14,526	1,008	1,711	842
1930	94,203	-------	48,322	45,243	2,712	367	17,191	13,251	1,665	1,611	664
1931	84,423	-------	55,103	[12] 51,771	2,937	395	15,328	11,407	1,643	1,683	595
1932	71,864	-------	56,856	[12] 53,519	2,944	393	13,196	9,613	1,687	1,443	453
1933	60,633	-------	51,563	[12] 48,819	2,411	333	12,758	9,140	1,665	1,470	483
1934	61,572	-------	47,753	[12] 44,461	2,921	371	16,063	11,375	2,407	1,786	495
1935	64,369	-------	44,944	[12] 40,683	3,866	395	15,438	10,397	1,880	2,084	577
1936	69,585	-------	44,820	[12] 39,842	4,556	422	14,804	10,732	1,886	1,740	446
1937	72,984	-------	43,271	[12] 37,750	5,137	384	15,276	11,254	1,524	1,850	648
1938	75,429	-------	43,493	[12] 38,117	5,027	349	13,564	10,212	1,051	1,762	539

[1] Figures include patents for inventions, designs, and reissues of patents. Includes applications without fees.
[2] Caveat law repealed June 25, 1910.
[3] Data are for period from July 28, 1836, to December 31, 1850, except as otherwise specified.
[4] Data are for 11 years beginning 1840; records prior to this date are not available.
[5] Data are for 8 years beginning 1843.
[6] Data are for 13 years beginning 1838.
[7] Data are for the year 1870.
[8] Data are for 7 years beginning 1874.
[9] Registration of labels suspended from May 27, 1891, to June 9, 1896.
[10] Data are for 8 years; first print registered Mar. 7, 1893.
[11] Data are for the year 1925.
[12] Figures include plant patents issued since the law passed May 23, 1930, as follows: 5 in 1931; 46 in 1932; 33 in 1933; 32 in 1934; 45 in 1935; 49 in 1936; 55 in 1937; 41 in 1938.

Source: Department of Commerce, United States Patent Office; records (not published elsewhere). Fiscal year figures published in Annual Report of the Secretary.