29. FORESTS AND FOREST PRODUCTS

[Data in this section relate to continental United States only except as indicated (see tables 759-761 and 772)]

No. 757.—Forests—Area, Saw-Timber Stand, and Annual Growth Estimates, by Regions: 1938

Region	Total forest land (thousand acres)	Commercial forest area (thousand acres): Total area	Saw-timber area: Total	Saw-timber area: Old growth	Saw-timber area: Second growth	Cordwood area	Fair to satisfactory restocking area	Poor to nonrestocking area
Total	630,158	461,697	212,862	100,832	112,030	100,791	71,306	76,738
Northeastern [1]	62,148	59,376	21,154	8,002	13,152	15,361	14,702	8,159
Central [2]	29,328	29,231	9,680	367	9,313	8,660	5,204	5,687
Lake [3]	55,634	52,395	7,123	3,586	3,537	10,831	13,442	20,999
South [4]	210,609	202,531	96,694	25,128	71,566	47,961	29,114	28,762
Columbia River Basin [5]	99,514	73,842	44,106	37,206	6,900	11,967	8,523	9,246
California [6]	48,159	13,655	11,417	8,653	2,764	148	155	1,935
South Rocky Mountain [7]	102,576	30,653	22,683	17,889	4,794	5,859	161	1,950
Plains [8]	22,190	14	5	1	4	4	5	--------

Region	Stand of saw timber (millions of board feet): Total	Stand of saw timber: Softwoods	Stand of saw timber: Hardwoods	Annual growth of wood on commercial forest areas: Combined saw-timber and cordwood growth (millions of cubic feet): Total	Combined growth: Softwoods	Combined growth: Hardwoods	Saw-timber growth (millions of board feet): Total	Saw-timber growth: Softwoods	Saw-timber growth: Hardwoods
Total	1,763,651	1,493,120	270,531	11,287	5,934	5,353	32,033	21,168	10,865
Northeastern [1]	84,025	41,056	42,969	1,260	328	932	2,625	1,142	1,483
Central [2]	14,301	369	13,932	568	20	548	978	21	957
Lake [3]	57,616	20,881	36,735	979	248	731	1,850	613	1,237
South [4]	386,570	214,632	171,938	6,495	3,390	3,105	20,403	13,310	7,093
Columbia River Basin [5]	882,632	877,676	4,956	1,634	1,597	37	5,247	5,152	95
California [6]	213,480	213,480	--------	155	155	--------	414	414	--------
South Rocky Mountain [7]	124,992	124,991	1	196	196	--------	516	516	--------
Plains [8]	35	35	--------	--------	--------	--------	--------	--------	--------

[1] Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.
[2] Illinois, Indiana, Iowa, Missouri, and Ohio.
[3] Michigan, Minnesota, and Wisconsin.
[4] Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, eastern Oklahoma, South Carolina, Tennessee, eastern Texas, Virginia, and West Virginia.
[5] Idaho, Montana, Oregon, and Washington.
[6] California.
[7] Arizona, Colorado, Nevada, New Mexico, western South Dakota (Black Hills), Utah, and Wyoming.
[8] Kansas, Nebraska, North Dakota, western Oklahoma, eastern South Dakota, and western Texas.

Source: Department of Agriculture, Forest Service; records (not published elsewhere).

No. 758.—Stand of Saw Timber (Estimated), by Region and Kind of Wood: 1938

[Quantity in millions of board feet]

KIND OF WOOD	Total	Northeastern	Central	Lake	South	Columbia River Basin	California	South Rocky Mountain	Plains
Grand total	1,763,651	84,025	14,301	57,616	386,570	882,632	213,480	124,992	35
Eastern softwoods, total	276,938	41,056	369	20,881	214,632				
Southern yellow pine	196,840	597	184		196,059				
Spruce and fir	24,086	20,284		3,452	350				
White and red pine	18,101	11,920	7	5,232	942				
Hemlock	17,552	6,137	13	9,222	2,180				
Cypress	11,554		146		11,408				
Others	8,805	2,118	19	2,975	3,693				
Eastern hardwoods, total	265,574	42,969	13,932	36,785	171,938				
Oak	83,700	5,831	7,551	5,298	65,020				
Birch, beech, and maple	55,178	29,528	2,523	20,317	2,810				
Red gum	27,837	71	359		27,407				
Tupelo	20,403		45		20,358				
Yellow poplar	9,595	221	183		9,191				
Cottonwood and aspen	8,035	2,042	172	4,126	1,695				
Others	60,826	5,276	3,099	6,994	45,457				
Western softwoods, total	1,216,182					877,676	213,480	124,991	35
Douglas fir	489,905					426,464	51,400	12,041	
Ponderosa pine	224,904					129,462	54,451	40,956	35
True fir	121,737					72,908	40,740	8,089	
Western hemlock	115,551					115,551			
Spruce	62,821					26,664		36,157	
Redwood	39,150						39,150		
Lodgepole pine	38,620					12,043		26,577	
Western larch	25,306					25,306			
Sugar pine	24,684					4,895	19,789		
Western white pine	18,333					18,333			
Others	55,171					46,050	7,950	1,171	
Western hardwoods, total	4,957					4,956		1	

Source: Department of Agriculture, Forest Service; records (not published elsewhere).

No. 759.—National Forest Areas, by States and for Alaska and Puerto Rico: June 30, 1940

Note.—The area of State forests, State parks, and State forest parks, together with that of Hawaiian forest reserves, as of December 1940, amounted to 12,844,718 acres. The area of town, county, and community forests and parks, as of same date, was 2,556,429 acres, including 1,886,349 acres of county forests located in Wisconsin.

STATE OR OUTLYING AREA	AREA WITHIN ESTABLISHED BOUNDARIES			STATE OR OUTLYING AREA	AREA WITHIN ESTABLISHED BOUNDARIES		
	Total acreage [1]	Acreage not federally owned or in process of acquisition	Acreage under Federal administration [1]		Total acreage [1]	Acreage not federally owned or in process of acquisition	Acreage under Federal administration [1]
Total	228,173,676	51,394,299	176,779,377	Montana	18,973,857	2,720,419	16,253,438
				Nebraska	207,209	1,183	206,026
Alabama	2,435,901	1,836,537	599,364	Nevada	5,245,677	255,456	4,990,221
Alaska	20,897,227	33,448	20,863,779	New Hampshire	806,322	142,176	664,146
Arizona	12,158,282	693,157	11,465,125	New Mexico	10,236,090	1,374,118	8,861,972
Arkansas	3,498,701	1,343,217	2,155,484	North Carolina	3,588,126	2,618,015	970,111
California	24,749,731	5,463,120	19,286,611	North Dakota	764,441	763,921	520
Colorado	15,208,180	1,546,350	13,661,830	Ohio	1,466,109	1,408,325	57,784
Florida	1,241,955	252,176	989,779	Oklahoma	344,269	185,870	158,399
Georgia	1,661,322	1,032,193	629,129	Oregon	17,574,114	3,411,125	14,162,989
Idaho	21,477,524	1,508,854	19,968,670	Pennsylvania	746,703	296,827	449,876
Illinois	812,654	615,317	197,337	Puerto Rico	186,155	160,145	26,010
Indiana	781,467	721,312	60,155	South Carolina	1,422,604	863,730	558,874
Iowa	218,446	214,404	4,042	South Dakota	1,400,109	295,995	1,104,114
Kentucky	1,393,521	967,889	425,632	Tennessee	1,204,000	656,838	547,162
Louisiana	1,274,066	744,715	529,351	Texas	1,714,374	1,069,437	644,937
Maine	878,032	829,951	48,081	Utah	8,985,378	1,198,949	7,786,429
Maryland	4,318	3,342	976	Vermont	580,520	413,426	167,094
Massachusetts	1,651		1,651	Virginia	4,123,663	2,738,918	1,384,745
Michigan	5,095,081	3,129,677	1,965,404	Washington	10,706,908	1,454,936	9,251,972
Minnesota	5,041,824	2,512,982	2,528,842	West Virginia	1,836,140	934,578	901,562
Mississippi	2,776,405	1,766,660	1,009,745	Wisconsin	2,016,924	650,920	1,366,004
Missouri	3,321,513	2,105,693	1,215,820	Wyoming	9,116,183	457,998	8,658,185

[1] Including small federally owned areas outside established boundaries.

Source: Department of Agriculture, Forest Service; report on National Forest Areas.

No. 760.—National Forest Reservations—Land Purchases, by States and for Puerto Rico, to June 30, 1940

[Under act of Mar. 1, 1911, as amended by act of June 7, 1924, and other related acts]

State or outlying area	Gross area (acres)	Total net area approved for purchase			Purchased			Unapproved purchaseable area (acres)
		Acres	Average price	Total price	Acres	Average price	Total price	
Total	**53,051,397**	**17,793,134**	**3.75**	**66,807,105**	**17,027,385**	**3.76**	**63,990,681**	**23,672,222**
Alabama	2,435,892	492,153	3.70	1,819,830	464,103	3.67	1,701,657	1,406,502
Arkansas	3,496,983	1,098,670	2.73	3,001,075	1,063,899	2.80	2,894,007	975,956
California	979,472	126,429	7.52	950,144	126,217	7.52	949,688	679,083
Florida	1,614,816	746,889	3.08	2,304,133	737,901	3.07	2,268,533	217,876
Georgia	1,656,582	588,425	4.90	2,881,950	572,204	4.90	2,802,876	834,937
Idaho	465,673	24,070	3.50	84,277	15,940	2.88	45,965	115,931
Illinois	801,944	178,939	6.04	1,081,712	168,693	5.99	1,009,989	467,530
Indiana	781,467	60,111	6.96	418,416	34,000	8.83	283,260	664,324
Iowa	218,446	4,042	9.36	37,827	100	97.30	9,688	185,044
Kentucky	1,393,521	425,629	3.78	1,610,766	389,087	3.77	1,467,927	763,339
Louisiana	1,274,066	529,593	2.78	1,474,695	498,982	2.78	1,388,575	570,869
Maine	878,032	48,068	6.53	314,183	47,845	6.53	312,802	635,714
Michigan	5,095,081	1,831,413	2.97	5,433,209	1,708,734	2.86	5,155,130	2,326,905
Minnesota	5,041,824	1,486,695	2.38	3,536,992	1,354,581	2.42	3,278,172	2,267,612
Mississippi	2,684,572	967,105	3.54	3,426,449	947,310	3.52	3,337,142	1,062,562
Missouri	3,321,513	1,209,551	2.23	2,694,675	1,152,520	2.22	2,554,545	1,798,423
Nevada	3,051	3,051	3.00	9,152	----	----	----	----
New Hampshire	806,322	663,973	7.76	5,156,988	663,115	7.76	5,149,266	97,965
New Mexico	92,514	17,463	1.72	30,000	----	----	----	15,544
North Carolina	3,588,123	946,433	5.20	4,917,993	904,942	5.27	4,772,935	1,649,009
North Dakota	764,441	480	10.00	4,796	480	10.00	4,796	499,480
Ohio	1,466,109	57,762	5.92	341,871	35,155	6.16	216,621	1,042,377
Oklahoma	344,249	157,619	1.65	259,566	153,879	1.63	251,583	181,970
Oregon	46,986	39,341	19.98	785,943	39,101	20.05	784,043	3,240
Pennsylvania	726,311	446,217	6.39	2,851,647	432,628	6.47	2,803,415	166,633
Puerto Rico	186,155	12,186	12.86	156,682	11,450	12.74	145,852	92,158
South Carolina	1,422,600	556,532	6.16	3,428,313	533,929	6.19	3,303,096	662,921
Tennessee	1,204,000	547,497	4.33	2,427,549	529,262	4.33	2,292,497	460,536
Texas	1,714,364	644,927	4.63	2,988,370	636,318	4.63	2,947,124	715,574
Utah	143,576	84,347	2.87	241,748	70,396	2.88	202,772	31,496
Vermont	680,520	167,048	10.20	1,704,470	160,493	10.49	1,684,805	319,374
Virginia	3,969,150	1,381,210	3.23	4,463,875	1,297,238	3.23	4,202,056	1,704,634
West Virginia	1,836,138	901,559	3.40	3,065,910	892,801	3.38	3,019,897	590,121
Wisconsin	2,016,904	1,347,707	2.15	2,901,905	1,324,082	2.03	2,749,958	470,583

Source: National Forest Reservation Commission, Annual Report.

No. 761.—National Forests—Summary of Operations: 1934 to 1940

Note.—Data for revenue and for the first three items are for years ended June 30; other data are for calendar years. Figures include data for national forests in Alaska.

Item	1934	1935	1936	1937	1938	1939	1940
Timber sales:							
Number	16,433	17,520	18,389	19,126	21,916	22,717	27,512
Quantity ... M ft. b. m.	462,089	[1] 669,688	[1] 988,304	[1] 1,491,199	1,094,599	1,842,342	1,779,209
Timber cut under sales ... do	598,751	668,246	814,785	1,096,937	1,074,916	1,017,269	1,370,996
Free timber given:							
Number of users	113,821	108,408	112,323	112,209	103,180	110,959	112,310
Timber cut ... M ft. b. m.	248,243	316,769	293,126	317,696	301,375	267,785	325,595
Value ... dollars	210,175	279,021	272,207	274,908	275,165	260,264	300,062
Grazing, kinds of stock: [2]							
Cattle ... number	1,389,387	1,315,233	1,282,540	1,254,425	1,220,532	1,180,971	1,147,539
Goats ... do	9,124	9,148	8,113	7,603	7,160	5,965	6,965
Swine ... do	315	292	159	241	126	220	184
Horses ... do	29,549	29,085	28,208	29,499	29,543	27,897	29,452
Sheep ... do	6,152,244	5,681,938	5,630,037	5,477,351	5,300,140	5,125,642	4,943,131
Revenue, total ... dollars	**3,314,691**	**3,291,312**	**4,062,963**	**4,936,183**	**4,671,133**	**4,903,376**	**5,859,184**
From—							
Timber [3] ... do	1,522,356	1,731,355	2,203,237	2,924,471	2,517,659	2,857,211	3,943,022
Water power ... do	124,946	80,973	88,035	76,969	89,835	100,418	81,824
Special uses ... do	297,831	315,829	328,106	340,435	366,267	365,026	363,252
Grazing ... do	1,358,688	1,161,153	1,441,493	1,580,345	1,696,457	1,573,912	1,463,127
All other ... do	10,870	3,002	1,192	13,963	915	6,809	7,959

[1] Amounts sold were to be cut during periods of years, and therefore were greater than amounts cut in years covered by this note.
[2] Numbers allowed to graze under pay permit.
[3] Timber and turpentine sales, timber settlement, and trespass.

Source: Department of Agriculture, Forest Service, Annual Report of the Chief of the Forest Service. Appendix, Section Z, Administrative Statistics.

No. 762.—Forest Fires—Number, Area, and Damage: 1931 to 1940

Note.—Data were compiled from reports by National Forest Supervisors and from those of cooperating States, various Government bureaus, and similar sources. Data for unprotected areas are necessarily incomplete, as reliable data were not obtainable prior to organized protection. Figures for fires on Indian reservations were excluded in 1931.

Year	Forest area needing protection (1,000 acres)	Forest area protected (1,000 acres)	Forest area unprotected (1,000 acres)	Number of fires		Area burned (1,000 acres)		Damage [1] (1,000 dollars)	
				On protected area	On unprotected area	On protected land	On unprotected land	On protected area	On unprotected area
1931	524,660	331,699	192,961	62,174	125,040	6,406	45,200	17,018	50,069
1932	523,866	329,095	194,771	60,500	105,899	3,652	38,410	7,879	45,581
1933	533,579	340,392	193,187	53,287	87,435	3,723	40,167	17,318	42,957
1934	550,755	361,475	189,280	69,318	93,345	4,173	37,648	8,100	37,273
1935	559,498	374,780	184,718	62,554	77,743	2,539	27,797	4,251	28,329
1936	561,107	386,105	175,002	84,853	141,432	4,217	38,071	14,067	40,005
1937	558,773	396,824	161,949	63,760	121,449	1,344	20,637	2,466	18,203
1938	558,558	414,184	144,374	86,199	146,030	2,939	30,876	8,087	28,801
1939	585,422	433,256	152,166	98,033	114,638	3,789	26,660	10,243	28,888
1940	582,178	435,429	146,749	87,603	107,824	3,416	22,432	7,654	28,227

[1] This table (except for National Forest areas) does not take into account the vast amount of intangible and indirect damage resulting from forest fires, such as decay of damaged timber, replacements of desirable species of trees by less desirable but more fire-resistant ones, soil deterioration and erosion, loss of wildlife, uncertain stream flow, interrupted tourist traffic, and the like.

No. 763.—Forest Fires—Number, Area Burned, and Damage, by Cause, in Protected Areas: 1931 to 1940

Year	Lightning	Railroads	Campers	Smokers	Débris burning	Incendiary	Lumbering	Miscellaneous	Unknown
Number of fires:									
1931	3,784	2,966	5,287	14,579	7,454	15,472	1,082	6,256	5,294
1932	3,399	2,383	4,969	15,538	7,582	16,410	583	5,337	4,299
1933	3,347	2,182	4,098	14,707	6,859	12,097	801	5,929	3,267
1934	6,229	3,070	4,595	15,806	9,632	17,515	902	5,929	5,640
1935	5,317	2,599	4,223	14,990	7,387	16,461	1,200	5,827	4,550
1936	6,915	3,852	4,514	20,236	12,205	22,654	1,778	7,157	5,542
1937	7,244	2,822	3,435	15,666	9,563	13,718	1,356	4,964	4,992
1938	7,445	3,214	5,153	25,053	11,141	22,619	1,405	6,541	3,628
1939	9,129	4,072	8,934	24,764	13,640	22,635	1,867	8,966	4,026
1940	10,913	3,331	4,956	21,066	13,307	22,701	1,403	7,177	2,749
Area burned (acres):									
1931 [1]	221,160	141,580	396,830	927,620	644,910	2,224,570	146,900	1,002,420	672,350
1932 [1]	29,460	59,190	413,310	554,530	423,680	1,493,760	60,280	304,560	270,150
1933 [1]	36,530	79,640	253,150	574,430	383,850	995,240	326,440	585,790	229,110
1934 [1]	401,500	133,150	162,420	568,000	637,410	1,445,060	118,720	380,300	222,700
1935	50,560	70,680	128,890	349,270	289,060	1,054,400	80,720	326,060	189,470
1936	171,880	131,190	153,890	646,660	659,760	1,586,750	205,060	309,130	352,610
1937	31,860	42,670	56,350	239,110	235,880	478,070	50,300	97,080	112,570
1938	244,910	57,940	146,210	625,940	372,670	947,870	120,250	272,780	150,300
1939	157,310	78,360	206,600	785,440	471,820	1,309,280	310,710	319,370	149,680
1940	134,515	97,789	156,864	540,974	681,183	1,300,072	74,830	201,277	228,770
Damage (dollars):									
1931 [1]	1,660,310	769,260	825,190	1,936,000	1,243,060	4,786,410	888,690	3,185,610	1,237,420
1932 [1]	41,270	156,230	784,180	1,794,700	942,360	2,082,140	87,910	537,220	988,670
1933 [1]	68,240	246,520	388,960	888,500	586,940	3,138,280	10,505,210	840,550	388,710
1934 [1]	453,350	286,080	322,550	2,186,230	970,760	2,053,170	320,080	770,550	482,880
1935 [1]	71,100	175,050	174,970	598,060	353,030	1,303,050	225,060	880,940	423,830
1936 [1]	547,440	325,730	291,630	1,140,470	1,088,840	4,534,740	1,351,990	888,820	804,790
1937 [1]	69,210	88,020	107,100	381,460	365,440	633,890	211,920	183,350	357,130
1938 [1]	1,240,800	177,490	252,480	1,400,370	1,035,400	1,514,520	426,130	1,591,880	254,110
1939 [1]	925,480	265,150	669,510	1,828,980	952,140	2,755,500	1,676,420	701,910	376,820
1940 [1]	500,190	203,808	298,113	1,259,783	1,425,145	2,142,784	387,267	415,272	389,569

[1] Because of incompleteness of reports, sums of figures for areas burned and for damage, by causes, for years covered by this note are less than total areas burned and total damage, as given in tables 762 and 764. See also note 1, table 762.

Source of tables 762 and 763: Department of Agriculture, Forest Service; annual fire report.

No. 764.—Forest Fires—Area Burned, by Type, and Damage, by Kind, in Protected Areas: 1934 to 1940

Year	Area burned (acres)						
	Grand total	Forest area					Non-forest area
		Total	Productive			Protective	
			Total	Mature	Young		
1934	4,173,040	3,808,750	2,919,430	874,770	2,044,660	889,320	364,290
1935	2,539,110	2,328,000	2,016,940	493,110	1,523,830	311,060	211,110
1936	4,216,930	3,967,200	2,936,090	779,640	2,156,450	1,031,110	249,730
1937	1,343,890	1,273,210	1,149,630	266,370	883,260	123,580	70,680
1938	2,938,870	2,736,110	2,275,790	556,850	1,718,940	460,320	202,760
1939	3,788,570	3,564,690	2,819,080	661,970	2,157,110	745,610	223,880
1940	3,416,280	3,168,470					247,810

Year	Damage [1] (dollars)							
	Grand total	Timber resources			Nontimber resources			
		Total	Timber	Young growth	Total	Protective	Forage	Other
1934	8,100,350	5,739,640	2,747,450	2,992,190	2,360,710	861,320	164,850	1,334,540
1935	4,250,740	2,843,120	1,012,540	1,830,580	1,407,620	300,230	118,300	989,090
1936	14,066,950	9,126,590	5,251,580	3,875,010	4,940,360	1,051,770	413,900	3,474,690
1937	2,466,140	1,795,800	664,500	1,131,300	670,340	138,620	80,290	451,430
1938	8,087,000	4,743,850	2,434,570	2,309,280	3,343,150	489,970	166,220	2,686,960
1939	10,243,010	7,493,250	4,018,080	3,475,170	2,749,760	762,590	248,350	1,738,820
1940	7,650,668	4,761,553			2,889,115			

[1] See footnote 1, table 762.

Source: Department of Agriculture, Forest Service; annual fire report.

No. 765.—Timber Removed Annually From Commercial Forests

Note.—Figures are estimates for 1936.

Product and damage	Unit of measure	Quantity in thousands	Total volume removed [1] (M cubic feet)	Equivalent in lumber which could have been sawed from total volume removed (M board feet) [2]		
				Total	Softwood	Hardwood
Aggregate			13,462,756	47,807,677	35,173,862	12,633,815
Products, total			11,400,007	42,443,374	30,407,283	12,036,091
Lumber	Foot, b.m.[3]	[4] 27,070,071	5,367,585	27,702,415	22,016,083	5,686,332
Fuelwood	Cord	65,673	3,619,482	6,400,401	3,121,767	3,278,634
Ties, hewn	Piece	30,173	354,180	1,491,753	885,461	606,292
Fence posts	do	333,537	327,060	628,576	252,354	376,222
Pulpwood	Cord	7,383	705,924	2,252,147	2,107,802	144,345
Mine timbers (round)	Cu. ft.	128,938	161,016	151,102	77,693	73,409
Veneer logs	Foot l. s.	979,089	252,443	1,190,415	412,733	777,682
Slack staves	Piece	439,970	47,474	217,069	103,527	113,542
Slack heading	Set	35,992	20,998	104,740	88,723	16,017
Slack hoops	Piece	51,818	3,687	15,116	129	14,987
Logs and bolts in mfrs.	Foot l. s.	456,172	124,399	506,663	59,868	446,795
Tight staves	Piece	220,325	56,913	269,920	100,076	169,844
Tight heading	Set	15,259	20,375	97,501	41,148	56,353
Shingles	Square [5]	6,052	108,658	492,590	489,271	3,319
Export logs and hewn timbers.	Foot l. s.	328,921	66,815	353,954	330,800	23,154
Poles	Piece	3,679	56,946	219,743	205,293	14,450
Distillation and tanning extract wood.	Cord	1,075	60,925	181,637	200	181,437
Piling	Piece	1,117	29,898	127,840	100,255	27,585
Excelsior wood	Cord	157	15,220	39,792	14,100	25,692
Damage, total			2,062,749	5,364,303	4,766,579	597,724
Destroyed by fire			861,608	1,390,373	1,195,796	194,577
Destroyed by disease, insects, drought, wind, etc.			1,201,141	3,973,930	3,570,783	403,147

[1] Includes both saw timber and cordwood trees. The cubic foot volumes include the tops and limbs, but not the bark. Detailed data for cordwood trees are omitted from this table.

[2] Includes only timber of saw timber size. Lumber items include allowances for logging waste which might have been utilized.

[3] Lumber tally measure.

[4] This item increased to account for the probable cut of mills failing to report to the census.

[5] A square is considered equivalent to 800 pieces.

Source: Department of Agriculture, Forest Service; records (not published elsewhere). Based in part upon forest products statistics of the Department of Commerce, Bureau of the Census.

No. 766.—Lumber—Production, by Kind of Wood, and Average Mill Value

Note.—For 1889, 1914, 1921, 1923, 1925, and 1927 custom mills are excluded and beginning with 1911 for each year except 1919 mills cutting less than 50,000 board feet are excluded. Custom mills are much less important in recent years than formerly.

[Quantities in millions of board feet; average mill value per 1,000 board feet]

Year (calendar)	Production			Average mill value	Year (calendar)	Production			Average mill value
	Total	Hardwood	Softwood			Total	Hardwood	Softwood	
1869	12,756			(1)	1925	38,389	6,628	31,710	$28.02
1879	18,091			(1)	1926	36,936	6,467	30,469	27.34
1889	23,842			$11.41	1927	34,532	6,090	28,442	25.80
1899	[2]35,078	8,634	26,146	11.13	1928	34,142	5,797	28,345	25.61
1909	44,510	10,613	33,897	15.38	1929	36,886	7,073	29,813	26.94
1915	37,012	7,527	29,485	14.04	1930	26,051	4,729	21,323	22.81
1916	39,807	8,475	31,332	15.32	1931	16,523	2,671	13,852	18.56
1917	35,831	6,657	29,174	20.32	1932	10,151	1,406	8,746	15.12
1918	31,890	6,223	25,667	24.79	1933	13,961	2,062	11,899	18.55
1919	34,552	7,145	27,407	30.21	1934	15,494	2,758	12,735	21.47
1920	33,799	6,989	26,810	38.42	1935	19,539	3,291	16,248	20.43
1921	26,961	4,775	22,186	23.47	1936	24,355	4,113	20,242	22.20
1922	31,569	4,925	26,644	26.15	1937	25,997	4,408	21,589	24.25
1923	37,166	6,262	30,904	31.78	1938	21,646	3,353	18,293	21.45
1924	35,931	6,525	29,406	28.57	1939 [3]	24,975	3,733	21,242	21.97

Kind of wood	Production									
	1899	1909	1919	1929	1934	1935	1936	1937	1938	1939 [3]
Softwood, total	26,146	33,897	27,407	29,813	12,735	16,248	20,242	21,589	18,293	21,242
Balsam fir		109	68	38	7	15	10	18	13	20
Cedar	233	346	332	309	140	181	238	257	222	264
Cypress	496	956	656	532	179	326	411	429	408	422
Douglas fir	1,737	4,856	5,902	8,689	4,066	4,772	6,321	6,555	5,216	6,494
Hemlock	3,421	3,051	1,755	2,099	478	578	813	862	578	665
Larch	51	421	388	245	79	98	124	141	84	111
Lodgepole pine		24	16	31	19	18	45	75	76	55
Ponderosa pine	945	1,500	1,755	3,288	1,806	2,528	2,975	3,308	2,734	3,360
Redwood	360	522	410	486	282	329	403	436	317	345
Spruce	1,442	1,749	980	564	259	289	348	370	290	346
Sugar pine	54	97	134	349	110	193	285	319	267	309
White fir		89	223	307	81	107	127	116	86	98
White pine	7,742	3,900	1,724	1,248	756	854	998	1,012	805	1,004
Yellow pine	9,659	16,277	13,063	11,630	4,473	5,960	7,113	7,691	7,196	7,749
Other softwood	9									
Hardwood, total	8,634	10,613	7,145	7,073	2,758	3,291	4,113	4,408	3,353	3,733
Alder		(4)	(4)	24	21	33	34	31	16	21
Ash	269	291	155	152	76	90	94	96	78	90
Basswood	308	399	184	133	52	72	89	91	78	96
Beech		511	359	187	72	94	110	133	97	120
Birch	133	452	375	374	126	166	184	204	160	141
Chestnut	207	664	546	268	79	87	104	104	78	74
Cottonwood	415	266	144	165	109	98	137	146	140	130
Elm	457	347	194	176	49	67	80	81	64	74
Hickory	97	334	170	57	13	22	29	35	24	38
Magnolia		(4)	2	42	22	25	27	41	26	20
Maple	633	1,107	857	824	311	404	490	525	380	445
Oak	4,438	4,414	2,708	2,574	1,083	1,195	1,535	1,582	1,204	1,432
Red gum	285	707	851	1,104	393	482	606	578	454	383
Sycamore	30	57	28	58	14	19	27	32	28	27
Tupelo		97	144	307	126	192	216	327	216	271
Walnut	39	46	39	72	21	23	39	43	25	27
Yellow poplar	1,115	859	329	436	163	182	260	299	221	276
Other hardwood	209	62	59	120	30	42	53	61	57	68

[1] Data are not available.
[2] Includes 298,000,000 board feet of lumber not reported by kind of wood.
[3] Excluding lumber sawed by New England mills from timber salvaged from the hurricane of 1938.
[4] Less than 500,000 board feet were reported.

Source: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service); reports of Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years.

No. 767.—Lumber—Production, by Regions and States: 1889 to 1939

[In millions of board feet. See headnote, table 766]

REGION AND STATE	1889	1899	1909	1919	1929	1936	1937	1938	1939 [1]
United States	23,842	35,078	44,510	34,552	36,886	24,355	25,997	21,646	24,975
Northeastern States	4,726	5,709	5,197	2,584	1,232	880	930	809	966
Maine	597	785	1,112	596	258	232	237	218	213
New Hampshire	277	572	650	339	192	161	157	135	187
Vermont	384	376	352	218	120	82	96	92	106
Massachusetts	212	344	361	167	72	57	57	54	67
Connecticut	49	108	108	87	30	9	10	10	17
Rhode Island	8	19	25	11	7	4	3	3	5
New York	925	878	681	358	160	97	110	97	108
New Jersey	34	74	62	37	16	12	16	9	14
Pennsylvania	2,133	2,333	1,463	630	314	188	195	148	186
Maryland	82	184	268	113	55	32	43	37	51
Delaware	23	36	55	27	10	6	6	8	11
Central States	3,130	5,643	5,487	3,016	2,347	1,258	1,292	863	1,231
Ohio	565	990	543	280	176	101	112	79	111
Indiana	755	1,037	556	282	170	100	102	73	111
Illinois	222	388	170	65	38	25	27	16	27
Missouri	402	724	660	321	228	81	71	53	74
West Virginia	302	778	1,473	763	633	336	353	217	324
Kentucky	423	775	861	512	339	195	191	138	207
Tennessee	460	951	1,224	792	764	421	436	287	376
Southern States	3,718	8,404	14,796	12,704	12,484	7,527	7,949	6,889	7,549
Georgia	575	1,312	1,342	894	1,386	872	865	805	907
Florida	412	790	1,202	1,137	1,137	816	796	624	603
Alabama	589	1,101	1,691	1,799	2,059	1,153	1,326	1,212	1,412
Mississippi	464	1,206	2,573	2,390	2,669	1,261	1,220	1,190	1,201
Arkansas	538	1,624	2,111	1,772	1,348	1,077	1,096	935	1,110
Louisiana	304	1,115	3,552	3,164	2,232	1,250	1,362	946	1,036
Texas	843	1,232	2,099	1,380	1,452	942	1,126	1,028	1,137
Oklahoma	3	22	226	168	200	157	159	148	143
North Carolina Pine States	1,129	2,712	5,177	3,374	2,979	2,001	2,343	2,470	2,367
Virginia	416	959	2,102	1,098	708	567	617	512	679
North Carolina	515	1,287	2,178	1,654	1,202	797	1,156	1,371	1,042
South Carolina	199	466	898	622	1,068	638	570	588	646
Lake States	8,251	8,750	5,476	2,692	1,771	938	1,005	775	781
Michigan	4,300	3,018	1,890	876	571	405	464	307	333
Minnesota	1,084	2,342	1,562	700	357	123	122	96	111
Wisconsin	2,866	3,389	2,025	1,116	843	409	419	372	337
Pacific States	2,028	2,901	6,905	8,798	14,149	10,297	10,840	8,601	10,693
Washington	1,064	1,420	3,863	4,961	7,302	4,572	4,713	3,349	4,244
Oregon	446	735	1,899	2,577	4,784	4,077	4,352	3,791	4,765
California and Nevada	[2] 518	738	[2] 1,144	[2] 1,259	2,063	1,648	[2] 1,776	1,462	1,685
Rocky Mountain States	249	556	1,292	1,299	1,843	1,408	1,577	1,202	1,336
Montana	90	256	309	287	389	295	335	222	271
Idaho	28	65	646	765	1,029	724	797	571	675
Arizona	5	36	63	74	175	123	123	118	119
New Mexico	26	31	92	87	148	141	164	125	106
Colorado	80	134	142	65	72	72	84	85	84
Utah	14	18	13	12	5	10	15	13	15
Wyoming	6	17	29	9	26	42	58	68	65
All other	612	401	[3] 179	[3] 85	81	46	60	37	51
Iowa	571	352	132	18	[4] 20	4	6	5	5
Kansas	4	11	[3] 16	[3] 23	([5])	8	10	5	4
Nebraska	9	5							
North Dakota	7	2							
South Dakota	21	32	31	43	61	34	44	27	42
PERCENTAGE DISTRIBUTION									
United States	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Northeastern States	19.8	16.3	11.7	7.5	3.3	3.6	3.6	3.7	3.9
Central States	13.1	16.1	12.3	8.7	6.4	5.2	5.0	4.0	4.9
Southern States	15.6	24.0	33.2	36.8	33.8	30.9	30.6	31.8	30.2
North Carolina Pine States	4.7	7.7	11.6	9.8	8.1	8.2	9.0	11.4	9.5
Lake States	34.6	24.9	12.3	7.8	4.8	3.8	3.9	3.6	3.1
Pacific States	8.5	8.3	15.5	25.5	38.4	42.3	41.7	39.7	42.8
Rocky Mountain States	1.0	1.6	2.9	3.8	5.0	5.8	6.1	5.6	5.3
All other	2.6	1.1	.4	.2	.2	.2	.2	.2	.2

[1] Excluding lumber sawed by New England mills from timber salvaged from the hurricane of 1938.
[2] California only; for 1909 and 1919 Nevada included with "All other." [3] Includes Nevada.
[4] Includes Kansas and Nebraska. [5] Included with Iowa.

Source: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service); reports of Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years.

No. 768.—Lumber—Average Mill Value per 1,000 Board Feet

KIND OF WOOD	1899	1909	1919	1929	1933	1934	1935	1936	1937	1938	1939
All kinds [1]	$11.13	$15.38	$30.21	$26.94	$18.55	$21.47	$20.43	$22.20	$24.25	$21.45	$21.97
Softwoods	(2)	14.08	28.39	24.31	16.94	20.05	19.08	21.03	22.97	20.42	20.97
Balsam fir	(2)	13.99	32.23	25.49	19.79	20.27	22.03	23.65	21.82	20.72	19.43
Cedar	10.01	19.95	33.80	34.83	25.91	27.94	29.33	33.33	37.00	36.41	40.68
Cypress	13.32	20.46	38.38	35.29	26.30	30.73	29.51	34.90	36.79	35.14	35.50
Douglas fir	8.67	12.44	24.62	20.05	13.57	16.14	15.97	17.67	19.67	17.29	17.91
Hemlock	9.98	13.95	29.16	18.90	14.27	17.70	18.53	18.85	20.58	18.99	19.39
Larch	8.73	12.68	23.39	18.35	13.34	16.07	16.90	15.90	17.23	16.05	16.80
Lodgepole pine	(2)	16.25	29.98	17.97	16.23	16.54	18.27	17.22	16.34	16.85	17.76
Ponderosa pine	9.70	15.39	27.75	26.47	18.57	20.51	20.40	21.83	24.53	22.22	22.75
Redwood	10.12	14.80	30.04	31.00	26.29	30.03	29.77	35.01	36.30	36.73	34.56
Spruce	11.27	16.01	30.76	28.64	18.89	21.75	22.09	23.92	25.73	23.72	26.68
Sugar pine	12.30	18.14	35.99	43.08	27.95	27.64	30.03	31.83	34.71	30.16	30.10
White fir	(2)	13.10	25.66	20.63	15.30	15.15	16.17	16.25	18.95	18.22	17.34
White pine	12.69	18.16	32.83	29.87	21.45	23.75	25.66	26.28	29.20	26.77	25.90
Yellow pine	8.46	12.69	28.71	25.66	17.91	21.64	18.24	20.76	22.18	19.01	19.70
Hardwoods [1]	(2)	19.52	37.22	38.04	27.81	28.01	27.09	27.92	30.49	27.09	27.66
Alder	(2)	15.03	34.67	27.18	17.99	19.16	19.28	21.90	23.07	25.41	24.63
Ash	15.84	24.44	52.69	43.14	33.23	39.26	30.02	32.42	37.11	34.30	34.33
Basswood	12.84	19.50	40.03	39.88	29.19	30.78	32.06	33.70	35.65	32.78	31.94
Beech	(2)	13.25	29.98	28.39	22.75	22.93	23.65	23.51	25.08	22.33	22.03
Birch	12.50	16.95	35.79	39.35	29.02	30.58	31.92	34.48	36.11	34.72	33.11
Chestnut	13.37	16.12	32.30	29.51	23.01	23.53	21.96	22.95	24.87	19.88	21.94
Cottonwood	10.37	18.05	32.24	29.70	22.18	20.68	20.62	19.22	25.24	22.05	21.41
Elm	11.47	17.52	36.39	35.28	23.09	24.09	25.03	24.48	25.48	23.84	24.54
Hickory	18.78	30.80	44.37	40.33	26.27	27.92	31.41	33.86	32.12	28.17	26.75
Magnolia	(2)	15.00	28.01	38.11	27.13	27.60	24.27	26.71	29.02	29.67	27.26
Maple	11.83	15.77	35.56	36.93	30.51	30.84	30.60	31.67	24.14	32.34	32.51
Oak	13.78	20.50	37.87	38.43	28.53	27.54	27.15	27.46	29.60	25.41	26.32
Red gum	9.63	13.20	32.68	34.42	23.01	24.70	22.33	23.85	26.63	22.43	23.28
Sycamore	11.04	14.87	30.32	30.07	22.78	21.52	22.80	24.09	22.75	21.42	22.26
Tupelo	(2)	11.87	28.42	25.39	22.01	22.70	19.65	21.21	23.31	20.24	22.09
Walnut	36.49	43.79	72.13	119.15	77.61	86.60	75.64	74.64	85.10	71.26	63.18
Yellow poplar	14.03	25.39	41.65	41.66	29.91	30.01	28.65	27.78	31.60	25.75	26.98

[1] Includes some hardwoods not shown separately. [2] Data are not available.

Source: Department of Commerce, Bureau of the Census, (in cooperation with Department of Agriculture, Forest Service); reports of Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years.

No. 769.—Veneers—Wood Consumed in Manufacture: 1929 to 1939

Note.—**In thousands of feet, log scale.** Total wood consumed for all years for which data are available not shown in table follow (figures in thousands of feet, log scale): 1905, 181,146 (compiled by Forest Service, Department of Agriculture); 1906, 329,186; 1907, 384,523; 1908, 382,542; 1909, 435,981; 1910, 477,479; 1911, 444,886; 1919, 576,581; 1921, 400,388; 1923, 645,793; 1925, 734,599; 1927, 961,561; 1931, 696,350; 1933, 700,234.

STATE	1929	1935	1937	1939
Total	1,112,910	823,881	1,113,652	1,193,979
Alabama	43,221	25,151	35,254	39,507
Arkansas	63,363	27,325	34,296	27,565
California	28,698	26,832	39,535	39,473
Florida	96,199	62,067	93,032	90,835
Georgia	40,388	38,216	59,089	57,217
Indiana	30,779	22,171	26,053	17,339
Kentucky	21,437	11,111	17,155	18,198
Louisiana	47,617	24,596	27,907	32,899
Michigan	20,434	14,657	13,124	14,550
Mississippi	75,427	49,667	72,526	68,537
New York	37,377	14,858	20,401	20,387
North Carolina	96,417	66,116	74,722	87,659
Oregon	55,644	41,510	53,943	75,668
South Carolina	48,960	46,179	50,464	52,051
Tennessee	24,710	14,643	24,399	15,727
Texas	32,488	19,100	30,452	31,709
Vermont	19,056	11,386	18,243	18,970
Virginia	24,688	32,309	38,974	33,908
Washington	181,826	201,477	289,943	363,612
Wisconsin	38,724	19,229	33,317	28,266
Other	85,457	54,681	60,823	59,902

KIND OF WOOD	1929	1935	1937	1939
Softwood, domestic	393,622	340,468	459,476	543,504
Douglas fir	162,415	201,248	306,299	382,817
Ponderosa pine	22,717	13,100	20,471	36,193
Spruce	38,198	45,470	48,302	48,994
Yellow pine	110,785	71,152	76,204	51,505
Other	50,507	9,498	8,200	23,995
Hardwood	706,590	478,240	648,544	650,475
Domestic	688,924	472,501	637,192	637,670
Birch	47,715	23,859	32,229	34,012
Cottonwood	51,742	38,851	54,081	52,738
Maple	35,617	26,260	39,039	33,187
Red gum	285,035	221,756	213,654	222,162
Tupelo	88,123	64,514	170,438	156,426
Walnut	26,893	10,293	16,514	11,880
Yellow poplar	71,989	36,088	52,040	59,071
Other	81,810	50,880	59,197	68,194
Imported	17,666	5,739	11,352	12,805
Mahogany	3,741	2,903	5,105	6,207
Other	13,925	2,836	6,247	6,598
Not specified	12,698	5,173	5,632	--------

Source: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service); reports of Biennial Census of Manufactures.

No. 770.—Lath and Shingles—Production, 1899 to 1939, and by States, 1936 to 1939

Note.—Lath in thousands and shingles in squares. Shingles were reported in thousands prior to 1933 and were converted to squares on the basis of 800 shingles to the square.

Year (calendar)	Lath	Shingles	Year (calendar)	Lath	Shingles
1899	2,523,998	15,127,521	1931	614,250	3,392,465
1909	3,703,195	18,634,214	1932	406,089	2,639,125
1919	1,724,078	11,490,880	1933	408,192	3,602,250
1925	3,161,137	9,155,034	1934	416,308	3,477,063
1926	3,083,130	7,510,432	1935	620,038	4,416,709
1927	2,372,333	8,054,835	1936	810,909	5,901,692
1928	1,903,887	7,004,612	1937	839,085	[1] 5,649,792
1929	1,705,858	7,638,340	1938	583,777	[1] 6,319,236
1930	1,097,255	4,955,138	1939	562,207	[1] 6,500,242

State	Lath				Shingles			
	1936	1937	1938	1939	1936	1937	1938	1939 [1]
Alabama	10,600	6,064	13,453	10,921	8,129	6,779	16,058	2,425
Arkansas	8,833	9,909	10,525	9,641	5,365	2,497	12,864	17,246
California	26,766	20,770	24,982	19,067	119,371	105,342	82,192	118,881
Florida	58,519	81,033	44,599	36,052	21,719	31,275	25,060	14,092
Georgia	880	1,097	1,374	1,091	10,057	11,427	24,236	3,323
Idaho	53,919	60,737	36,907	37,375	25,009	34,205	35,644	36,893
Louisiana	23,538	90,805	24,827	22,552	8,541	19,646	8,916	5,907
Maine	38,796	48,643	19,662	8,277	84,888	105,167	73,661	48,029
Michigan	6,439	10,593	7,962	4,595	26,405	12,117	14,802	2,436
Minnesota	15,621	14,521	10,742	8,849	1,168	300	1,877	300
Mississippi	32,951	15,649	15,730	13,433	72	25	255	----------
Montana	13,481	16,849	11,845	12,530	4,170	4,383	4,442	9,856
North Carolina	2,234	2,590	2,771	1,422	16,382	16,967	50,857	25,778
Oregon	162,652	161,002	130,163	139,908	605,283	[1] 551,856	737,187	764,873
South Carolina	5,922	1,000	1,159	4,029	19,525	8,040	15,480	17,308
Texas	27,442	27,610	25,180	25,582	6,665	5,506	17,841	1,200
Virginia	14,330	9,701	9,227	7,521	22	5,804	13,352	63
Washington	236,531	197,034	141,758	164,100	4,727,134	[1] 4,690,233	[1] 5,133,783	5,405,546
West Virginia	9,410	8,106	5,384	6,664	----------	----------	----------	----------
Wisconsin	19,875	19,655	16,547	7,364	201,992	31,548	37,905	22,437
All other	42,170	35,717	28,980	21,234	9,795	6,675	12,824	3,649

[1] Includes data for shakes.

No. 771.—Cooperage Stock—Production, by Kind: 1909 to 1939

Note.—Production of wooden hoops in 1923 was 153,954,000; in 1925, 149,167,000; in 1927, 134,596,000; in 1929, 133,054,000; in 1931, 94,311,000; in 1933, 61,161,000; in 1935, 51,818,000; in 1937, 68,152,000; and in 1939, 32,209,000, nearly all elm.

Year and kind of wood	Staves (thousands)		Heading (thousand sets)		Class	1929	1935	1937	1939
	Tight	Slack	Tight	Slack					
1909	379,231	2,029,548	20,691	140,234	Tight staves (thousands)	357,353	221,619	205,286	182,431
1919	353,825	1,121,324	24,274	87,381					
1927	324,127	961,782	26,445	59,337					
1929	357,353	1,039,450	30,329	72,591	Whisky, spirit, and wine	16,202	60,887	65,629	48,724
1931	204,624	537,177	20,090	43,375	Oil, tierce, and pork	185,801	83,503	76,915	60,274
1933	154,575	426,585	13,031	37,461	Beer and ale	(1)	3,467	2,616	1,956
1935	221,619	439,970	15,259	35,992	Other and not specified	155,260	73,762	60,127	71,477
1937	205,286	574,768	13,377	54,318					
1939	182,431	526,315	14,277	46,465	Tight heading (thousand sets)	30,329	15,259	13,377	14,277
1939									
Douglas fir	19,573	26,018	1,445	1,639	Whisky, spirit, and wine	1,381	4,371	2,910	1,991
Elm	(1)	35,977	(1)	7	Oil, tierce, and pork	21,195	4,865	4,241	4,520
Oak	90,451	(1)	5,337	(1)	Beer and ale	(1)	145	418	124
Pine	46,637	199,337	3,412	34,776	Other and not specified	7,753	5,878	5,808	7,642
Red gum	13,017	169,225	1,529	1,828					
Spruce	2,977	38,140	1,341	5,275					
Other	9,776	57,618	1,213	2,940					

[1] Not called for on schedule.

Source of tables 770 and 771: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service); reports of Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years.

No. 772.—Lumber and Shingles—Production, for Alaska: 1899 to 1939

Year	Number of mills	Lumber sawed (M feet, B. M.)					Shingle (squares)[1]
		Total	Spruce	Hemlock	Cedar	All other	
1899	10	6,571	6,056	15	(2)	[3] 500	----------
1904	6	7,974	7,933	----------	(2)	[3] 41	1,158
1919	22	21,673	21,182	491	----------	----------	----------
1922	19	56,800	54,605	1,569	(2)	[3] 626	3,764
1923	20	36,076	33,504	2,266	(2)	[3] 306	2,849
1924	24	33,097	30,917	1,738	(2)	[3] 442	6,444
1925	28	40,857	35,718	2,938	(2)	[3] 2,201	3,295
1926	22	47,960	40,871	5,769	(2)	[3] 1,320	6,775
1927	21	41,395	34,571	6,291	(2)	[3] 533	4,535
1928	24	31,974	22,748	7,853	(2)	[3] 1,373	4,166
1929	19	30,393	21,850	8,205	(2)	[3] 338	2,943
1930	14	34,216	23,062	10,621	(2)	[3] 533	2,751
1931	16	16,535	12,091	4,189	(2)	[3] 255	1,063
1932	17	12,175	10,319	1,588	(2)	[3] 268	938
1933	20	12,901	10,292	1,523	1,086	----------	1,380
1934	19	20,166	12,548	6,909	709	----------	2,000
1935	20	23,499	14,769	8,069	658	3	2,182
1936	19	28,858	18,852	9,356	668	2	2,598
1937	20	25,276	15,794	8,477	994	11	2,181
1938	21	21,598	13,841	6,242	1,506	9	2,260
1939	24	25,885	18,162	6,071	1,595	57	2,471

[1] Reported in thousands for 1932 and prior years and converted on basis of 800 shingles to the square.
[2] Included in "All other."
[3] Includes figures for cedar lumber.

Source: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service); reports of Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years.

No. 773.—Pulpwood—Consumption by Mills and Mill Cost

Note.—Figures include both domestic and imported wood. The cost is f. o. b. pulp mill.

Year	Quantity, all species (cords)	Cost		Year	Quantity, all species (cords)	Cost		Year	Quantity, all species (cords)	Cost	
		Total (1,000 dollars)	Average per cord			Total (1,000 dollars)	Average per cord			Total (1,000 dollars)	Average per cord
1899	1,986,310	9,838	$4.95	1925	6,093,821	94,340	$15.48	1935	7,628,274	58,244	$7.64
1909	4,001,607	34,478	8.62	1927	6,750,935	95,452	14.14	1936	8,715,916	67,161	7.71
1919	5,477,832	87,386	15.95	1929	7,645,011	100,054	13.09	1937	10,393,800	82,885	7.97
1921	4,557,179	91,589	20.10	1931	6,722,766	73,524	10.94	1938	9,193,991	74,433	8.10
1923	5,872,870	95,306	16.23	1933	6,581,674	48,508	7.37	1939	10,816,466	84,539	7.82

Kind of wood	Total consumption (cords)						
	1919	1929	1935	1936	1937	1938	1939
Total	5,477,832	7,645,011	7,628,274	8,715,916	10,393,800	9,193,991	10,816,466
Spruce:							
Domestic	2,313,419	2,074,267	1,755,112	1,756,977	2,010,720	1,447,457	1,567,643
Imported	873,795	1,029,913	625,462	735,305	826,528	832,295	906,806
Hemlock:							
Domestic	795,154	1,309,170	1,521,271	1,742,268	2,264,565	1,677,181	2,218,678
Imported		15,379			37,447	37,243	
Yellow pine (southern)	234,463	1,036,272	1,785,228	2,150,640	2,658,949	3,261,404	3,834,644
Poplar:							
Domestic	180,160	320,466	333,773	464,138	441,401	324,868	354,125
Imported	158,220	157,829	54,283	44,724	90,365	95,758	123,148
Balsam fir:							
Domestic	181,840	317,552	298,812	365,189	320,715	321,984	283,506
Imported	106,974	45,412	54,313	81,383	71,447	65,392	74,705
Jack pine [1]	51,581	205,760	[2] 224,538	[2] 289,538	300,786	258,570	359,755
Beech, birch, and maple [2]	184,111	76,950	152,054	118,461	257,410	[1] 168,796	[1] 241,039
Tamarack (larch) [2]	44,042	51,835	9,587	10,005	8,045	9,937	8,450
Yellow poplar [2]	72,605	129,697	(3)	91,818	47,882	(3)	(3)
Gum [2]	30,355	39,685	20,299	37,632	[4] 25,967	47,967	[4] 47,370
White fir [2]	31,138	111,054	174,075	119,221	[1] 135,384	98,878	159,428
Other wood	44,894	153,485	317,675	378,782	329,898	315,101	318,155
Slabs and mill waste	175,081	561,285	292,792	329,835	565,391	231,160	319,014

[1] Domestic and imported. [2] Domestic only. [3] Included with "Other wood." [4] Red gum only.

Source: Department of Commerce, Bureau of the Census; reports of the Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years.

No. 774.—Wood Pulp—Production, 1899 to 1939, and by States and by Process, 1909 to 1939

[In tons of 2,000 pounds]

YEAR	Tons[1]	YEAR	Tons[1]	YEAR	Tons[1]	YEAR	Tons[1]
1899	1,179,525	1921	2,875,601	1929	4,862,885	1936	5,695,219
1909	2,495,523	1923	3,788,672	1931	4,409,344	1937	6,572,918
1914	2,893,150	1925	3,962,217	1934	4,436,128	1938	5,933,560
1919	3,517,952	1927	4,313,403	1935	4,925,669	1939	6,993,334

STATE AND PROCESS[1]	1909	1919	1929	1936	1937	1938	1939
Principal States:							
Florida	(2)	(2)	(2)	(2)	(2)	316,754	449,162
Louisiana		(2)	246,590	474,332	505,603	454,211	589,672
Maine	620,705	916,764	981,433	933,510	1,003,530	847,317	941,273
Michigan	64,369	106,194	178,015	198,169	197,293	177,870	200,325
Minnesota	37,295	129,560	189,664	218,633	225,672	170,748	160,665
New Hampshire	212,599	232,134	212,774	(2)	(2)	133,188	(2)
New York	679,534	811,958	662,988	452,941	503,292	427,024	460,652
North Carolina	(2)	(2)	(2)	(2)	(2)	199,342	179,636
Oregon	[3] 83,602	[3] 123,990	[3] 256,546	302,634	338,802	250,788	288,047
Pennsylvania	135,525	215,686	213,083	173,407	209,132	165,008	193,958
Virginia	48,641	(2)	206,050	333,982	372,709	334,869	402,929
Washington	(2)	83,575	523,948	895,707	1,184,390	836,959	1,126,114
Wisconsin	324,509	506,549	733,617	605,377	638,217	585,892	655,816
Other States	288,654	391,542	458,177	1,106,437	1,394,278	1,033,500	1,345,085
Process:							
Mechanical	1,179,266	1,518,829	1,637,653	1,475,620	1,600,667	1,333,308	1,444,875
Sulphite	1,017,631	1,419,829	1,681,511	1,821,842	2,140,244	1,606,476	1,946,452
Sulphate		120,378	918,084	1,794,734	2,139,087	2,443,051	2,962,657
Soda	298,626	411,693	520,729	[4] 557,695	507,548	395,307	441,565
Semichemical and other wood pulp			40,481		132,521	118,544	151,658
Screenings, total		47,223	64,427	45,328	52,851	36,874	46,127
Mechanical		12,220	11,459	7,357	9,674	4,215	46,127
Chemical		35,003	52,968	37,971	43,177	32,659	

[1] Beginning 1914 includes screenings.
[2] Not shown separately.
[3] Includes data for California.
[4] Soda and semichemical only.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years.

No. 775.—Paper and Paperboard—Production, by Kind: 1929 to 1939

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

PRODUCT	QUANTITY					VALUE		
	1929	1936[1]	1937	1938[1]	1939	1929	1937	1939
Total	11,140	11,976	12,837	11,381	13,510	903,301	887,920	848,916
Newsprint	1,409	938	976	833	954	80,707	37,087	39,765
Standard, in rolls	[2] 1,409	938	929	833	926	[2] 80,707	35,106	38,626
Standard, in sheets, and other special grades			47		28		1,981	1,138
Groundwood printing and specialty papers	363	(3)	518	436	540	28,608	32,618	33,877
Hanging	101	116	127	87	117	7,294	7,785	6,943
Catalog	112	83	101	92	81	9,571	7,399	6,138
Novel-news, news-tablet, poster, and lining	151	(3)	92	257	73	11,743	4,899	4,060
Printing[4]	(3)	(3)	54		81	(3)	3,735	4,781
Other groundwood papers	(3)	(3)	144		189	(3)	8,799	11,955
Book paper	1,498	[5] 1,438	1,510	[5] 1,337	1,535	168,272	145,589	138,846
Machine-finished, sized, and supercalendared	1,177	(3)	1,028	(3)	1,022	131,852	98,262	91,884
Converting paper	[5] 250	(3)	344	(3)	375	[5] 26,756	30,038	30,764
Other book paper	71	(3)	138	(3)	138	9,664	17,289	16,198
Cover paper	28	26	24	20	19	6,430	4,435	3,449
Text paper	(3)	(5)	11	(5)	12	(3)	1,754	2,306
Writing paper (fine)	608	602	578	482	595	113,224	87,272	83,973
Rag content	119	85	78	69	84	42,653	25,767	24,625
Sulphite bond	285	355	332	304	364	41,724	41,782	41,627
Other chemical wood-pulp writing paper	204	162	168	108	147	28,846	19,722	17,721
Wrapping paper	1,606	1,879	2,053	1,866	2,239	163,442	179,735	174,405
Unbleached sulphite and semi-bleached sulphate	405	[6] 334	299	[6] 367	284	36,987	23,728	18,989
Bleached sulphite and bleached sulphate			267		345		28,912	34,400
Wrapping and envelope manila		(3)	37	(3)	19		2,633	1,662
Kraft wrapping	712	[6] 1,212	1,130	[6] 1,216	1,281	68,499	86,143	82,832
Other wrapping paper	489	333	320	283	310	57,955	38,319	36,522

For footnotes, see p. 792.

No. 775.—Paper and Paperboard—Production, by Kind: 1929 to 1939—Con.

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

PRODUCT	QUANTITY					VALUE		
	1929	1936 [1]	1937	1938 [1]	1939	1929	1937	1939
Tissue paper	388	495	540	549	666	53,300	55,914	64,531
Towel	52	93	93	105	129	4,903	6,391	9,156
Toilet	143	221	254	264	285	15,103	20,720	21,358
All other	193	181	193	180	252	33,294	28,803	34,017
Absorbent paper	91	106	138	126	122	16,973	22,120	19,606
Building paper	659	550	608	570	659	39,376	32,630	31,105
Other paper	39	[7] 288	78	59	64	5,228	11,428	8,474
Boards	4,451	5,455	5,802	5,104	6,105	227,742	277,340	248,579
Container boards	[8] 2,256	2,756	3,168	2,631	3,301	[8] 99,163	134,403	118,202
Folding boxboard (bending)	991	1,272	1,289	1,221	1,360	53,150	67,199	60,869
Set-up boxboard (nonbending)	600	701	720	609	865	23,044	29,754	30,109
Other boards	[8] 605	725	625	643	518	[8] 52,385	45,984	39,399

[1] Value not reported. [2] "Standard in rolls and sheets" only. [3] Data not available.
[4] Containing not more than 34 percent bleached pulp and not less than 50 percent ground-wood pulp.
[5] Text paper included with book paper. [6] Not strictly comparable with figures for other years.
[7] Includes poster, news-tablet, lining, etc.
[8] Figures for some container boards included with those for "Other boards."

Source: Department of Commerce, Bureau of the Census; reports of the Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years.

No. 776.—Turpentine and Rosin—Production, 1899 to 1941, and by States, 1929 to 1941

YEAR [1]	TURPENTINE (GALLONS)			ROSIN (BARRELS OF 500 POUNDS)		
	Total	From gum [2]	From wood [3]	Total	From gum [2]	From wood [3]
1899	37,733,500	37,733,500	([4])	2,434,933	2,434,933	([4])
1904	31,129,236	30,687,051	442,185	1,964,674	1,964,674	([4])
1909	[5] 29,714,132	28,988,954	706,868	1,827,760	1,827,760	([4])
1914	[5] 27,648,939	26,980,981	575,557	[5] 1,649,160	1,615,643	29,022
1919	19,228,174	17,693,841	1,534,333	1,269,717	1,138,660	131,057
1929-30	35,940,124	31,320,871	4,619,253	2,454,186	1,975,631	478,555
1931-32	27,499,514	24,349,024	3,150,490	1,904,397	1,570,885	333,512
1932-33	28,756,550	[6] 25,050,000	[7] 3,706,550	2,073,330	[6] 1,703,400	369,930
1933-34	31,288,050	[6] 26,300,000	[7] 4,938,050	2,297,337	[6] 1,788,060	509,277
1934-35	30,154,650	[6] 25,500,000	[7] 4,654,650	2,229,122	[6] 1,734,000	495,122
1935-36	30,145,400	24,850,000	5,295,400	2,276,491	[8] 1,701,187	575,304
1936-37	31,726,000	24,139,350	7,586,650	2,331,962	[8] 1,607,934	724,028
1937-38	35,016,550	25,922,700	9,093,850	2,561,966	[8] 1,735,428	826,538
1938-39	35,460,900	26,714,550	8,746,350	2,612,391	[8] 1,832,930	779,461
1939-40	30,238,900	19,139,050	11,099,850	2,293,971	[8] 1,317,795	976,176
1940-41	28,317,050	17,196,900	11,120,150	2,146,865	[8] 1,173,639	973,226

STATE	PRODUCTION FROM CRUDE GUM [1]							
	Turpentine (gallons)				Rosin (barrels of 500 pounds)			
	1929-30	1938-39	1939-40	1940-41	1929-30	1938-39	1939-40 [9]	1940-41 [9]
Alabama	1,993,410	2,236,500	1,434,850	1,172,200	123,798	149,649	95,890	78,207
Florida	9,847,151	7,443,500	5,172,550	4,328,000	623,188	504,691	345,458	288,941
Georgia	15,938,491	15,289,550	11,373,450	10,910,100	1,002,446	1,016,643	759,829	728,668
Mississippi	1,267,776	832,600	565,200	393,500	81,683	58,639	37,716	26,299
Louisiana	1,032,900	193,050	153,600	91,100	70,580	13,173	10,228	6,086
Texas								
North Carolina	1,241,143	719,350	439,400	302,000	73,936	50,156	29,406	20,212
South Carolina								

[1] Figures for turpentine and rosin from crude gum, 1929-30 to 1940-41, and from wood, for 1933-34, to 1940-41, relate to crop year ended Mar. 31. All other figures relate to calendar years.
[2] Figures compiled from data reported by establishments in Turpentine and Rosin industry.
[3] Figures compiled from data reported by establishments in Wood-Distillation industry.
[4] Not reported.
[5] Includes, for 1909 and 1914, 18,310 gallons and 92,401 gallons, respectively, of turpentine and, for 1914, 4,495 barrels of rosin, reported by establishments engaged in manufacture of lumber and timber products.
[6] Estimated by J. E. Lockwood; complete data not available. Figures include estimates of rosin produced from reclaimed gum, as follows: 1932-33, 33,400 barrels; 1933-34, 35,060; 1934-35, 34,000.
[7] Includes estimates by J. E. Lockwood for production of turpentine from steam-distilled wood.
[8] Includes data for rosin produced from reclaimed gum: For 1935-36, 54,187 barrels; 1936-37, 42,694; 1937-38, 26,271; 1938-39, 39,979; 1939-40, 39,268; 1940-41, 25,226.
[9] Figures do not include data for rosin produced from reclaimed gum. See notes 6 and 8.

Source: Figures for 1899 to 1932, Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures. Figures for 1933 and subsequent years, Department of Agriculture, Bureau of Agricultural Chemistry and Engineering; Naval Stores Report on Turpentine and Rosin.

30. FISHERIES

No. 777.—Fishery Products—Quantity and Value, by Sections and States: 1880 to 1939

Note.—Values in this table and tables 778 to 780 represent the value of the fish to the fishermen.

NEW ENGLAND STATES

Calendar year	Total		Maine		New Hampshire	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	----------	12,503.0	----------	2,742.6	----------	170.6
1902	534,075	12,406.3	242,390	2,918.8	1,593	50.0
1908	530,029	15,139.0	173,843	3,257.0	677	53.0
1919	467,340	19,838.7	147,956	3,889.0	529	92.7
1929	694,286	29,072.5	162,939	4,897.2	378	52.1
1930	701,351	27,493.5	143,824	4,329.4	1,069	69.1
1933	499,936	13,485.6	98,498	2,307.1	524	57.1
1935	655,430	17,983.6	112,219	3,309.2	354	61.6
1937	670,864	19,937.3	101,179	2,806.0	664	96.0
1938	631,520	18,275.2	67,207	2,520.9	796	109.1
1939	663,866	19,508.6	116,167	2,694.7	877	106.1

Calendar year	Massachusetts		Rhode Island		Connecticut	
1880	----------	7,959.8	----------	696.8	----------	933.2
1902	230,646	6,482.4	21,614	1,155.7	37,832	1,799.4
1908	244,313	7,095.0	44,264	1,752.0	66,942	2,982.0
1919	246,951	10,859.7	48,251	3,296.6	23,653	1,700.6
1929	447,689	18,052.5	28,401	2,435.3	54,879	3,635.4
1930	442,474	16,289.1	25,972	2,287.3	88,012	4,518.6
1933	373,670	9,507.0	17,366	1,001.3	9,878	613.1
1935	503,417	12,147.9	24,524	1,247.9	14,916	1,217.0
1937	534,110	14,197.5	18,847	1,398.0	16,063	1,439.8
1938	537,851	13,169.4	13,829	1,055.6	11,839	1,420.2
1939	521,097	14,242.5	11,857	1,002.5	13,868	1,462.9

MIDDLE ATLANTIC STATES

Calendar year	Total		New York		New Jersey		Pennsylvania		Delaware	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	408,202	8,677.0	329,453	4,225.7	65,151	3,176.6	1,680	277.0	11,918	997.7
1901	357,888	9,104.7	228,092	3,894.3	117,931	4,755.5	6,030	251.5	5,835	203.4
1908	221,450	8,280.0	71,474	4,300.0	74,827	3,069.0	4,380	280.0	70,769	541.0
1921	332,032	11,667.4	210,377	4,986.9	96,037	5,983.4	595	44.6	25,023	652.4
1930	193,868	13,063.7	45,495	4,933.7	97,275	7,474.4	17	2.8	51,081	652.8
1933	169,754	4,811.1	39,911	2,452.6	93,264	2,146.3	52	3.0	36,527	209.2
1935	279,438	6,415.7	84,939	3,135.4	107,802	2,844.3	31	5.7	86,666	430.4
1937	264,652	7,896.0	84,161	4,371.0	129,516	3,201.0	35	4.6	50,941	319.4
1938	216,859	8,249.2	91,217	5,192.8	108,095	2,908.3	40	4.3	17,507	143.9
1939	280,053	7,387.2	93,803	4,269.0	125,345	2,698.8	15	2.2	60,890	417.2

CHESAPEAKE BAY STATES

Calendar year	Total		Maryland		Virginia	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	254,587	8,346.2	95,713	5,221.7	158,875	3,124.4
1901	461,159	8,380.8	82,975	3,767.5	378,183	4,613.4
1908	426,311	8,022.0	113,796	3,306.0	312,515	4,716.0
1920	530,750	12,740.4	59,531	4,198.7	471,219	8,541.7
1930	316,393	11,472.0	71,099	3,984.7	245,294	7,487.3
1933	272,380	5,060.8	55,362	1,733.8	217,018	3,327.0
1934	289,011	5,943.4	42,210	1,766.5	246,801	4,176.9
1935	265,827	5,524.5	48,235	2,003.6	217,592	3,520.9
1936	314,095	6,487.6	43,791	2,175.5	270,304	4,312.2
1937	292,244	6,361.2	49,953	2,532.0	242,292	3,829.2
1938	294,594	6,663.0	57,263	2,259.8	237,331	4,403.2
1939	323,653	7,196.8	61,381	2,592.7	262,272	4,604.0

SOUTH ATLANTIC STATES

Calendar year	Total		North Carolina		South Carolina		Georgia		Florida (east coast only)	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	42,952	1,256.6	32,249	845.7	6,143	212.5	2,272	120.0	2,287	78.4
1902	106,446	2,839.6	67,585	1,739.7	8,174	263.0	11,103	359.1	19,584	477.9
1908	166,875	4,034.0	101,422	1,776.0	14,104	288.0	14,828	701.0	36,521	1,269.0
1918	332,614	5,348.6	210,502	2,978.7	3,747	207.7	37,154	416.0	81,211	1,746.2
1928	262,118	6,196.2	141,899	2,629.2	7,432	316.8	42,069	866.3	70,718	2,383.9
1930	275,807	4,270.0	168,938	1,836.4	5,106	252.9	34,873	536.3	66,890	1,644.4
1934	261,080	3,624.1	163,462	1,672.2	5,891	225.3	27,141	359.5	64,586	1,367.1
1936	369,983	5,506.6	219,879	2,734.8	8,488	343.5	27,352	468.8	114,265	1,959.5
1937	315,775	4,050.9	112,755	1,658.3	7,166	267.7	22,443	405.6	173,411	1,719.3
1938	414,307	4,316.7	198,765	1,950.1	7,911	274.0	19,836	380.9	187,795	1,711.7
1939	388,102	4,035.0	224,457	1,890.4	9,535	282.2	16,619	412.1	137,441	1,450.3

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No. 777.—Fishery Products—Quantity and Value, by Sections and States: 1880 to 1939—Continued

GULF STATES

Calendar year	Total		Florida (west coast only)		Alabama	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	23,561	1,227.5	8,376	564.8	3,542	119.3
1902	113,697	3,494.2	48,120	1,462.2	9,351	266.7
1908	118,274	4,860.0	37,566	2,120.0	10,665	387.0
1918	130,924	6,510.3	54,754	3,420.4	5,609	230.6
1928	191,007	9,866.3	61,121	3,866.5	14,466	586.8
1930	141,953	6,794.9	53,525	3,001.4	7,113	315.5
1934	186,834	6,369.6	54,215	2,267.6	7,964	253.4
1936	187,009	8,035.7	59,338	3,278.8	9,253	355.5
1937	230,977	10,175.5	58,765	3,331.7	10,917	461.4
1938	207,551	8,756.7	53,647	3,276.4	10,917	449.6
1939	239,815	9,869.5	60,820	3,648.6	9,120	394.3

Calendar year	Mississippi		Louisiana		Texas	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	788	22.5	6,996	392.6	3,859	128.3
1902	23,427	553.2	24,754	858.3	8,044	353.8
1908	17,302	459.0	42,302	1,448.0	10,430	446.0
1918	20,592	762.8	24,954	1,419.4	25,015	677.2
1928	30,701	1,060.1	69,507	3,477.9	15,212	875.0
1930	15,736	740.1	49,886	1,960.4	15,693	777.5
1934	22,153	652.3	76,633	2,284.6	25,869	911.7
1936	26,595	926.1	74,395	2,698.0	17,428	777.3
1937	39,080	1,731.2	97,010	3,601.2	25,205	1,050.0
1938	14,260	603.0	103,883	3,391.5	24,844	1,036.2
1939	24,726	661.0	127,725	4,341.8	17,425	823.8

PACIFIC COAST STATES AND ALASKA

Calendar year	Pacific coast states: Total		Washington		Oregon		California		Alaska	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1888	87,043	4,010.0	20,468	811.0	26,048	734.0	40,527	2,465.0	----------	----------
1899	206,911	6,278.6	119,340	2,871.4	22,752	855.7	64,819	2,551.5	----------	----------
1908	193,056	6,839.0	111,356	3,513.0	28,221	1,356.0	53,479	1,970.0	----------	----------
1915	304,796	9,306.0	170,594	5,321.0	34,693	1,479.0	99,509	2,506.0	----------	----------
1925	627,025	24,580.5	139,457	9,476.4	40,008	3,442.4	447,560	11,661.7	616,136	9,860.7
1930	833,389	23,064.1	110,039	8,334.8	26,459	2,256.3	696,891	12,473.0	620,702	12,755.6
1933	860,161	13,988.0	128,729	5,683.9	24,533	1,209.8	706,899	7,094.3	630,774	9,157.9
1934	1,546,102	19,950.1	113,469	6,305.1	26,458	1,456.7	1,406,175	12,188.3	819,269	11,957.9
1935	1,676,236	23,088.8	124,086	6,328.7	85,392	2,076.8	1,466,758	14,683.3	648,710	9,093.2
1936	1,925,342	24,881.5	107,418	5,600.4	57,741	1,995.1	1,760,183	17,286.1	932,341	14,225.8
1937	1,576,877	28,776.4	155,805	7,222.3	68,945	2,609.2	1,352,128	18,944.8	834,819	14,716.9
1938	1,525,885	26,086.3	159,631	6,632.2	71,728	2,399.6	1,294,526	17,054.5	798,823	12,219.7
1939	1,713,826	27,417.2	155,812	6,403.5	83,513	2,458.8	1,474,501	18,554.9	666,397	11,458.1

GREAT LAKES [1]

Calendar year	Total [2]		Lake Superior		Lake Michigan		Lake Huron		Lake Erie	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1885	99,842	2,691.9	8,826	291.5	23,518	878.8	11,457	276.4	51,457	1,109.1
1899	113,727	2,611.4	5,430	150.9	34,500	876.7	12,418	308.1	58,394	1,150.9
1908	106,631	3,768.0	10,198	342.0	40,019	1,554.0	12,932	486.0	41,922	1,280.0
1917	104,269	6,295.0	15,447	726.7	35,461	2,270.9	13,363	857.5	38,710	2,327.3
1927	81,327	6,794.9	15,302	918.1	23,681	2,354.8	15,711	1,444.4	23,796	1,831.3
1930	94,948	6,050.3	14,604	695.3	30,973	2,159.0	16,377	1,319.9	29,540	1,655.5
1933	74,604	4,050.4	10,653	478.1	21,682	1,411.6	13,351	954.9	26,187	1,067.7
1934	96,411	5,123.7	17,533	722.8	28,444	1,837.1	14,512	954.9	32,809	1,433.3
1935	90,223	5,944.9	17,874	940.6	25,089	1,942.6	13,676	1,224.1	30,357	1,643.6
1936	94,277	6,389.4	16,008	928.2	25,783	2,130.8	12,790	999.8	36,777	2,154.4
1937	83,958	6,033.1	16,011	918.9	26,398	2,572.8	11,895	951.1	26,933	1,435.6
1938	81,525	6,083.2	14,856	875.0	24,379	2,294.0	12,039	759.8	27,619	1,981.2
1939	85,235	6,762.4	16,783	921.7	23,027	2,570.2	13,353	866.0	28,663	2,216.3

[1] Data collected for the most part by State fishery agencies and compiled by the Bureau of Fisheries since 1927.

[2] Includes, in addition to the lakes shown, small amounts for Lake Ontario and also prior to 1927, Lake St. Clair and St. Clair and Detroit Rivers and beginning 1927, Lake-of-the-Woods, Namakan Lake, and Rainy Lake.

No. 777.—Fishery Products—Quantity and Value, by Sections and States: 1880 to 1939—Continued

MISSISSIPPI RIVER AND TRIBUTARIES

YEAR	Total		TRIBUTARY	1922		1931	
	1,000 pounds	1,000 dollars		1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1894	44,545	1,384.6	Arkansas	2,034	136.3	[4] 777	[4] 49.9
1899 [3]	96,797	1,781.0	Atchafalaya	4,579	254.7	9,231	523.1
1903 [3]	93,374	1,841.2	Cumberland	728	14.7	106	13.0
1908 [3]	148,284	3,125.0	Illinois [5]	12,661	617.3	5,985	159.7
1922	105,734	4,503.5	Missouri [5]	1,232	105.2	1,051	94.3
1931	82,383	2,897.4	Ohio River and minor tributaries	7,458	379.1	1,221	96.5
	Mississippi and minor tributaries		Red [5]	6,677	324.5	6,417	277.4
			St. Francis [5]	3,684	108.9	2,173	65.6
			Tennessee [5]	4,990	98.3	5,222	75.0
			Wabash [5]	12,063	357.8	8,388	152.0
1894	21,242	587.8	White (Missouri and Arkansas) [5]	14,662	405.9	12,363	256.7
1899	68,604	823.0	Yazoo	1,022	55.6	[4] 1,311	[4] 57.8
1903	53,851	1,157.4					
1922	33,945	1,645.3					
1931	28,139	1,076.3					

[3] Figures do not include data for Atchafalaya River.
[4] Includes data for tributaries.
[5] Including tributaries.

No. 778.—Fisheries—Summary for the United States, by Sections: 1939

SECTION	Fishermen	Fishing vessels	Fishing boats	PRODUCTS	
				Quantity	Value
	Number	Number	Number	1,000 pounds	1,000 dollars
Total	131,325	5,413	68,634	4,443,329	96,532.2
New England States	18,712	625	8,515	663,866	19,508.6
Middle Atlantic States	7,740	436	3,966	280,053	7,387.2
Chesapeake Bay States	14,718	312	10,091	323,653	7,196.8
South Atlantic and Gulf States	30,136	1,136	16,582	627,917	13,904.5
Pacific Coast States	25,002	1,436	6,308	1,713,826	27,417.2
Lake States	7,390	478	3,647	85,235	6,762.4
Mississippi River States [1]	15,884		14,546	82,383	2,897.4
Alaska	11,743	990	4,979	666,397	11,458.1

[1] Figures for 1931.

No. 779.—Fishery Products Landed at Seattle by U. S. Vessels, and Fish Received by Seattle Wholesale Dealers: 1937 to 1940

SPECIES	QUANTITY IN THOUSANDS OF POUNDS				VALUE IN DOLLARS			
	1937	1938	1939	1940	1937	1938	1939	1940
Grand total	52,320	50,895	47,264	51,983	3,664,057	3,275,368	3,224,130	3,915,776
Landed by U. S. vessels [1]	25,306	25,228	23,752	22,383	2,130,431	1,911,441	1,929,627	2,078,744
Halibut	21,168	20,744	19,817	18,584	1,924,103	1,726,520	1,722,184	1,915,219
Sablefish	2,829	2,734	2,877	2,201	145,381	114,269	163,608	100,902
"Lingcod"	967	1,316	801	1,138	43,307	47,762	32,570	44,800
Rockfishes	343	434	256	370	17,640	22,899	11,265	17,823
Received by wholesale dealers [2]	27,014	25,667	23,512	29,599	1,533,626	1,364,227	1,294,503	1,837,032
Salmon:								
Humpback or pink	1,282	(3)	634	21	40,113	5	17,580	628
Chum or keta	6,011	5,696	2,015	4,246	190,030	159,419	82,985	180,816
Chinook or king	6,021	5,090	4,732	6,809	579,334	524,618	458,588	697,847
Coho or silver	4,619	4,869	4,714	4,949	342,721	341,102	337,733	364,664
Blueback, red, or sockeye	96	198	27	176	9,254	14,102	2,765	18,920
"Lingcod"	1,069	1,432	1,717	1,836	23,782	23,056	33,250	30,689
Smelt	380	321	640	622	22,982	16,011	25,067	23,878
"Sole"	3,348	3,589	3,479	4,483	85,934	105,538	88,077	122,436
Crabs	1,689	1,753	1,815	1,931	141,333	79,068	77,065	81,454
Oysters				1,097				163,330
Miscellaneous	2,500	2,719	3,738	3,430	92,143	101,308	171,393	152,370

[1] Halibut fleet. [2] Does not include fish received from Alaska or Canada or vessels in the halibut fleet
[3] Less than 500 pounds.

Source of tables 777, 778, and 779: Department of the Interior, Fish and Wildlife Service; annual bulletins.

No. 780.—Fishery Products Landed at Boston and Gloucester, Mass. and Portland, Maine, by U. S. Vessels: 1940 and Earlier Years

Port and calendar year	Total, all species	Cod	Haddock	Hake	Pollock	Cusk	Halibut	Mackerel	Rosefish	Miscellaneous
	Quantity in thousands of pounds									
All three ports:										
1929	327,096	50,647	187,204	12,051	10,565	3,483	2,696	37,743	47	22,660
1930	350,801	66,616	189,371	15,618	13,980	4,433	2,581	33,513	85	24,604
1931	263,685	60,645	132,846	7,755	7,631	4,205	2,571	29,524	120	18,328
1932	252,334	59,551	120,117	7,745	7,850	3,069	2,356	38,096	57	13,493
1933	267,157	73,842	129,862	7,197	12,395	3,430	2,139	22,444	250	15,598
1934	311,278	90,619	134,674	7,178	21,312	3,932	1,888	30,547	1,841	19,287
1935	373,118	88,092	157,002	10,587	27,885	5,524	2,345	40,848	17,110	23,725
1936	414,292	81,380	143,881	11,937	34,407	7,270	2,198	28,670	66,592	37,957
1937	387,960	101,215	137,175	14,198	28,672	8,027	2,010	9,215	58,327	29,120
1938	400,611	93,705	134,877	12,264	32,246	5,765	1,578	20,937	64,704	34,535
1939	388,821	80,479	135,235	10,340	30,453	5,175	1,259	12,320	77,613	35,948
1940	372,432	61,411	120,457	6,006	32,040	6,014	956	20,726	83,781	41,041
Boston:										
1938	318,745	77,905	128,454	8,102	20,363	4,311	1,439	16,034	34,141	27,996
1939	295,353	72,109	129,223	6,141	19,693	3,847	1,232	8,723	29,319	25,067
1940	252,828	52,750	110,167	4,030	19,036	4,948	873	14,639	19,727	26,657
Gloucester:										
1938	63,009	10,406	3,767	1,733	8,989	221	102	4,706	29,408	3,677
1939	75,766	5,792	3,816	2,249	8,596	208	12	3,313	44,424	7,357
1940	96,176	5,640	5,152	924	10,675	235	61	5,457	57,397	10,634
Portland:										
1938	18,857	5,395	2,655	2,429	2,894	1,233	38	197	1,155	2,862
1939	17,702	2,578	2,196	1,951	2,165	1,119	16	284	3,871	3,524
1940	23,429	3,021	5,138	1,052	2,328	831	21	630	6,657	3,750
	Value in thousands and tenths of thousands of dollars									
All three ports:										
1929	13,051.7	1,983.5	6,845.3	405.1	243.5	102.9	484.5	1,382.4	0.8	1,603.7
1930	12,785.5	2,208.1	6,645.8	394.9	263.8	113.2	443.0	1,157.6	1.6	1,557.5
1931	9,249.3	1,758.4	4,434.4	178.0	113.7	83.2	375.9	1,225.7	1.2	1,078.8
1932	6,083.9	1,301.5	2,906.8	136.6	85.7	45.8	261.2	618.4	.5	727.4
1933	6,850.9	1,641.7	3,374.0	144.3	158.8	49.3	226.1	498.2	2.6	755.9
1934	8,261.3	2,324.1	3,753.7	188.0	329.4	78.4	217.7	552.5	18.8	798.7
1935	9,004.7	2,096.0	3,877.6	245.2	532.6	109.5	229.8	724.6	183.7	1,005.7
1936	11,122.2	2,268.8	4,460.7	324.6	665.4	168.5	229.6	789.6	963.6	1,251.3
1937	9,789.9	2,303.0	3,847.6	303.2	482.2	168.4	244.6	473.0	887.6	1,080.3
1938	8,956.5	2,020.1	3,317.5	255.2	413.6	114.5	187.7	592.3	786.0	1,269.6
1939	9,547.5	1,987.7	3,602.8	253.1	535.9	115.8	160.3	322.1	1,090.6	1,389.2
1940	10,765.2	2,107.2	4,472.2	196.2	677.2	176.6	141.8	415.6	1,256.5	1,321.7
Boston:										
1938	7,623.5	1,683.1	3,169.0	186.3	288.7	84.4	174.9	473.5	442.5	1,121.2
1939	8,007.4	1,784.0	3,532.5	177.0	358.7	85.0	157.0	252.7	459.1	1,201.6
1940	8,574.9	1,828.4	4,162.9	147.3	439.6	143.6	130.4	331.2	330.1	1,061.3
Gloucester:										
1938	972.0	219.4	80.5	25.7	97.6	2.9	7.5	113.5	330.1	94.7
1939	1,204.7	144.3	90.3	35.6	142.2	3.0	1.1	61.0	588.4	138.7
1940	1,721.4	192.8	159.9	20.8	195.7	4.9	8.2	75.9	845.4	217.8
Portland:										
1938	361.1	117.6	68.0	43.3	27.4	27.2	5.2	5.3	13.4	53.7
1939	335.3	59.4	70.0	40.6	35.0	27.7	2.2	8.4	43.1	49.0
1940	468.9	86.0	149.4	28.1	41.9	28.2	3.2	8.5	81.1	42.6

No. 781.—Fishery Products, Canned, and Byproducts—Value, by Kind for United States (Including Alaska): 1933 to 1940

Note.—In thousands of dollars. See also census statistics on fish canning, tables 755 and 867.

Product	1933	1934	1935	1936	1937	1938	1939	1940 (prel.)
Total value	77,258	102,619	104,519	129,533	141,979	114,022	130,666	124,587
Salmon	36,242	45,818	32,475	50,061	52,934	42,366	41,781	38,050
California sardines	3,805	5,481	6,237	7,302	8,592	7,102	9,554	8,975
Maine and Massachusetts sardines	2,397	3,315	5,143	5,740	4,998	2,367	7,075	3,736
Tuna and tunalike fishes	6,934	10,010	12,824	14,715	18,996	15,184	20,080	23,714
Mackerel	1,868	3,245	4,976	3,543	2,674	2,896	2,589	4,088
Shrimp	3,479	4,403	4,722	4,672	7,131	4,872	5,398	4,318
Clam products	1,766	2,713	2,681	2,976	3,013	3,190	3,798	3,778
Oysters	1,076	1,871	2,045	2,181	2,933	1,886	2,379	2,527
Miscellaneous canned products	2,231	3,165	3,897	3,373	3,904	3,582	3,975	4,927
Fish—meal, scrap, and oil	6,502	12,473	18,860	23,025	23,921	20,944	23,791	19,827
Miscellaneous byproducts	10,957	10,126	10,659	11,944	12,883	9,632	10,248	10,646

Sources of tables 780 and 781: Department of the Interior, Fish and Wildlife Service, annual bulletins.

No. 782.—Salmon, Canned—Output, by Kind, for Washington, Oregon, and Alaska: 1940 and Earlier Years

[Quantity in thousands and tenths of thousands of 48-pound cases, value in thousands and tenths of thousands of dollars]

Species	Quantity				Value			
	Total	Washington	Oregon	Alaska	Total	Washington	Oregon	Alaska
Total, all species:								
1933	[1]6,362.5	848.9	[1]288.0	5,225.6	[1]36,241.9	5,217.4	[1]2,648.5	28,376.0
1934	8,383.0	596.1	305.1	7,481.8	45,817.9	5,293.1	2,912.8	37,612.0
1935	6,027.9	620.8	274.0	5,133.1	32,475.3	3,930.3	2,776.9	25,768.1
1936	8,965.2	270.7	256.9	8,437.6	50,061.1	2,396.6	2,912.9	44,751.6
1937	7,555.0	558.3	327.1	6,669.7	52,933.9	4,333.1	4,053.0	44,547.8
1938	7,279.7	208.7	264.0	6,807.0	42,365.8	2,545.3	3,183.6	36,636.9
1939	5,992.1	479.1	249.8	5,263.2	41,780.8	3,970.3	3,369.4	34,441.1
1940	5,605.0	228.1	307.6	5,069.3	38,049.7	2,784.8	3,790.4	31,474.5
Coho or silver:								
1938	299.6	13.5	63.8	222.3	2,161.3	123.1	638.9	1,399.3
1939	228.3	65.4	58.8	104.1	1,967.4	601.3	661.0	705.1
1940	383.7	45.1	62.0	276.6	3,118.8	406.8	706.6	2,005.4
Chum or keta:								
1938	845.4	25.1	33.5	786.8	3,064.5	95.3	125.8	2,843.4
1939	671.1	25.3	15.6	630.3	3,068.8	130.0	81.4	2,848.5
1940	937.5	36.8	26.3	874.5	4,565.4	196.4	137.2	4,231.8
Humpback or pink:								
1938	3,233.3	.4	--------	3,232.9	12,484.1	2.4	--------	12,481.7
1939	2,812.8	282.7	--------	2,530.0	14,168.5	1,638.9	--------	12,529.5
1940	2,924.8	2.2	--------	2,922.5	15,708.9	14.3	--------	15,694.6
Chinook or king:								
1938	214.9	30.0	141.1	43.8	2,775.9	404.8	2,042.5	328.6
1939	238.4	57.9	148.1	32.5	3,383.4	822.2	2,260.5	300.7
1940	264.4	66.3	172.1	26.0	3,431.9	923.1	2,247.9	260.9
Blueback, red, or sockeye:								
1938	2,671.4	138.2	11.9	2,521.2	21,707.7	1,903.8	220.2	19,583.8
1939	2,015.1	45.8	3.1	1,966.2	18,852.9	739.9	55.7	18,057.3
1940	1,056.2	67.5	19.0	969.7	10,788.9	1,135.0	372.1	9,281.8
Steelhead:								
1938	15.3	1.6	13.6	--------	172.2	16.0	156.2	--------
1939	26.4	2.1	24.3	(2)	339.9	29.0	310.9	(2)
1940	38.4	10.3	28.2	--------	435.8	109.2	326.6	--------

[1] Includes figures for California. [2] Less than 50.

No. 783.—Fishery Products of Alaska—Quantity and Value, by Kind: 1925 to 1940

Product	Quantity in thousands of unit specified						Value in thousands of dollars				
	Unit	1925	1930	1935	1939	1940	1925	1930	1935	1939	1940
Total	--------	------	------	------	------	------	**40,039**	**37,679**	**31,231**	**40,104**	**36,441**
Salmon:											
Canned	Case	4,460	5,033	5,133	5,263	5,069	31,990	29,696	25,768	34,441	31,474
Fresh and frozen	Pound	5,193	7,909	7,468	8,445	9,850	395	679	440	626	720
Cured, all forms	do	6,895	6,979	6,853	6,697	6,285	1,297	1,096	1,093	1,173	779
By-products	do	1,738	2,703	1,539	2,220	1,222	60	62	32	57	43
Halibut, fresh and frozen.[1]	do	10,972	31,557	9,806	13,454	16,824	884	2,991	608	894	1,443
Herring:											
Fresh and frozen [2]	do	7,087	9,377	5,999	5,294	6,285	39	107	52	50	50
Cured for food	do	35,171	8,765	16,582	3,462	4,615	2,323	496	851	208	304
Byproducts	do	34,806	50,002	58,566	69,015	31,136	1,490	1,531	1,471	1,832	905
Cod	do	2,854	322	148	306	187	129	17	7	17	8
Sablefish [1]	do	1,043	449	565	1,626	1,959	45	21	23	63	54
Other fish, etc	do	142	484	288	360	487	10	26	6	106	111
Shrimp	do	520	514	384	438	507	207	211	129	165	186
Crabs	do	206	107	499	305	317	53	35	163	95	89
Clams—juice, etc	do	2,066	853	446	425	499	492	242	198	241	273
Whales:											
Oil	do	7,224	7,034	7,696	2,845	-------	556	417	359	119	-------
Fertilizer	do	2,444	2,340	2,678	1,002	-------	57	51	31	17	-------
All other	do	797	43	-------	8	-------	12	2	-------	(3)	-------

[1] Excluding livers and viscera, which are included in "Other fish, etc." [2] Largely bait. [3] Less than $500.

Source of tables 782 and 783: Department of the Interior, Fish and Wildlife Service; annual bulletins.

No. 784.—Salmon Canned in Alaska—Output and Average Price, by Kind: 1911 to 1940

Yearly average or year	Total value of pack (thousands of dollars)	Output, equivalent in thousands of cases of 48 1-pound cans						Average price in dollars per case of 48 1-pound cans				
		Total	Coho or silver	Chum or keta	Humpback or pink	King or spring	Red or sockeye	Coho or silver	Chum or keta	Humpback or pink	King or spring	Red or sockeye
1911–1915	16,398	3,835	131	485	1,304	52	1,863	4.45	2.85	3.07	5.11	5.54
1916–1920	39,897	5,293	220	1,079	1,936	77	1,982	8.73	5.35	6.10	9.94	10.20
1921–1925	29,458	4,378	158	691	1,848	40	1,641	6.68	4.29	4.72	9.53	10.02
1926–1930	38,329	5,342	252	774	2,661	62	1,593	7.97	5.20	5.52	11.64	10.60
1928	45,384	6,084	299	996	2,787	54	1,948	7.12	6.06	6.56	11.13	9.41
1929	40,469	5,370	172	864	2,572	72	1,690	7.59	5.35	6.06	11.92	10.71
1930	29,696	5,083	332	600	3,189	60	851	8.26	3.60	4.17	13.32	12.57
1931	29,097	5,404	170	534	2,954	52	1,694	6.51	3.19	3.46	9.40	9.20
1932	21,716	5,255	148	821	2,113	70	2,103	4.12	2.79	3.14	5.46	5.61
1933	28,376	5,226	163	659	2,183	41	2,180	5.20	4.12	4.52	7.51	6.71
1934	37,612	7,482	236	741	3,824	53	2,628	5.23	3.65	4.10	6.85	6.72
1935	25,768	5,133	190	853	3,244	36	810	6.40	3.83	4.14	8.70	9.32
1936	44,752	8,438	222	1,101	4,560	52	2,503	6.51	3.58	3.94	7.95	8.38
1937	44,548	6,670	137	731	3,625	69	2,107	8.14	4.62	4.98	9.94	10.12
1938	36,637	6,807	222	787	3,233	44	2,521	6.29	3.61	3.86	7.50	7.77
1939	34,441	5,263	104	630	2,530	32	1,966	6.77	4.52	4.95	9.26	9.18
1940	31,474	5,069	277	874	2,922	26	970	7.25	4.84	5.37	10.05	9.57

No. 785.—Fish Propagation—Output of Eggs, Fry, and Fingerlings, by Bureau of Fisheries, 1895 to 1940, and by kind, 1940

[All quantities in thousands]

Year ended June 30—	Total	Eggs	Fry	Fingerlings	Cost per million [1]
1895	619,916	55,408	561,894	2,613	$292.64
1900	1,164,337	88,682	1,070,757	4,898	250.00
1915	4,288,758	536,260	3,694,282	58,216	131.55
1920	4,770,356	630,749	3,872,218	267,388	130.11
1925	5,301,862	1,050,393	4,114,514	136,954	135.61
1930	7,570,482	2,553,481	4,766,831	250,170	120.50
1932	7,073,935	2,808,231	4,117,085	148,619	141.90
1933	7,202,155	2,677,817	4,342,000	182,338	117.70
1934	3,258,131	2,169,766	961,997	126,368	176.40
1935	5,071,725	3,381,794	1,556,246	133,683	117.22
1936	8,171,201	5,421,627	2,588,962	160,611	79.55
1937	7,919,100	4,959,321	2,823,558	136,221	85.68
1938	8,121,132	5,912,580	2,089,367	119,185	106.88
1939	8,024,541	5,824,802	2,115,406	84,333	101.80
1940	7,407,247	5,826,059	1,498,157	83,031	134.87

Species	1940			Species	1940		
	Eggs	Fry	Fingerlings		Eggs	Fry	Fingerlings
Catfish		39	2,957	Grayling	4,349		255
Buffalo fish	95,872		438	Pike and pickerel	6,783	940	9
Shad		42,105	100	Crappie			1,684
Whitefish	2,000	5,660		Black bass:			
Glut herring		170		Large-mouth		2,884	7,336
Lake herring		420		Small-mouth		1,066	486
Striped bass		5,917		Kentucky bass		10	28
Chinook salmon	2,340	22,798	16,310	Rock bass			209
Chum salmon	795	4,438	260	Warmouth bass			38
Humpback salmon		231	237	Sunfish			10,068
Silver salmon			1,494	Rio Grande perch			105
Sockeye salmon	116		2,279	Pike perch	1,378	8,750	
Sockeye salmon, landlocked	540		651	White perch		2,280	2
Steelhead trout	139		1,830	Yellow perch		243,082	70
Landlocked salmon			16	Fresh-water drum			6
Rainbow trout	16,043	412	11,146	White bass			31
Blackspotted trout	32,594	9,363	9,229	Mackerel		8,277	
Lock Leven trout	76	101	3,153	Cod	2,613,068	191,980	
Lake trout	600	1,774	265	Haddock	1,066,165		
Brook trout	13,237	1,469	11,836	Flatfish (flounder)	6,607	761,525	
Golden trout			20	Pollock	1,962,705	174,382	
Dolly Varden trout	44			Lobster	600	8,084	
				Miscellaneous fishes			497

[1] Includes all expenditures chargeable to fish culture and distribution and salaries of all employees in the fish-cultural field services and the administrative and clerical force in Washington, D. C.

Source of tables 784 and 785: Department of the Interior, Fish and Wildlife Service; annual bulletins and reports.

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, 1935–1939, the Virgin Islands. Index numbers of mineral production are shown in table 863, p. 847.

No. 786. Mineral Products of the United States—Value, for Metallic and Nonmetallic: 1881 to 1940

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	1922	4,647	988	3,659	2,738	921
1886–1890	541	249	292	215	78	1923	5,987	1,512	4,475	3,317	1,157
1891–1895	592	245	347	248	99	1924	5,306	1,233	4,072	2,899	1,174
1896–1900	828	366	462	307	154	1925	5,678	1,382	4,295	3,059	1,237
1901–1905	1,392	578	814	546	267	1926	6,214	1,405	4,808	3,542	1,266
1906–1910	1,887	769	1,118	746	372	1927	5,530	1,221	4,309	3,060	1,249
1911–1915	2,220	821	1,400	967	433	1928	5,385	1,288	4,097	2,885	1,212
1916–1920	5,129	1,798	3,331	2,602	729	1929	5,888	1,480	4,407	3,191	1,217
1921–1925	5,151	1,154	3,997	2,943	1,054	1930	4,765	986	3,779	2,765	1,015
1926–1930	5,556	1,276	4,280	3,088	1,192	1931	3,167	570	2,597	1,892	704
1931–1935	3,032	511	2,521	1,977	544	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	5,413	1,468	3,945	3,201	745
1919	4,624	1,361	3,263	2,511	752	1938	4,363	893	3,471	2,820	650
1920	6,981	1,764	5,218	4,193	1,025	1939	4,914	1,291	3,623	2,834	789
1921	4,139	655	3,484	2,703	780	1940 (prel.)	5,583	1,678	3,905	3,080	825

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

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

No. 787.—Nonferrous Metals—Yearly Average Prices, by Kind: 1896 to 1940

[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
1916–1920	23.031	7.355	[8] 54.428	8.783	42.14	15.003	105.71	103.54
1919	18.691	5.759	63.328	6.988	32.14	8.190	92.15	114.61
1920	17.456	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	12.920	6.755	64.353	6.242	25.41	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	35.67
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
1939	10.965	5.053	50.323	5.110	20.00	12.359	103.94	36.75
1940	11.296	5.179	49.827	6.335	18.69	14.000	176.87	37.92

[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, 1903–05; average for New York zinc, 1901–05, 5.058 cents.
[8] Average for 4 years.

Sources: Engineering and Mining Journal and The Mineral Industry; American Metal Market, annual report, for aluminum, 1909 and thereafter.

No. 788.—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. 789.—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	126,008	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 788 and 789: Department of Commerce, Bureau of the Census; Fifteenth Census Reports, Mines and Quarries. (For definition of enterprise, see p. 4 of report.)

No. 790.—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	39	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	5,393	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	398	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	489,535	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	43,479
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	263,639
Kentucky	864	617	41,444	57,569	135,098	310,604	46,903	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	78,996	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	67,205	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. 791.—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	788,357	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	26,907	229,401	357,737	30,708	39,192	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	1,036	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	12,640	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	491	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	205	1,255	750	5,124
Barite	98	44	919	844	3,029	6,066	769	648	1,592	1,801
Clay	350	236	5,453	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. 792.—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	386	328
Barite	(6)	1,251	408	316	38	54	42	90	482	326
Basalt [5]	270	[1] 10,855	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	5,040	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	230	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. 793.—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	4,876	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. 794.—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	Under 36	36 and over but under 40	40	Over 40 but under 48	48	Over 48 but under 63	63 and over
		Wage earners in mines where the prevailing hours of labor per week were—						
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	11,860	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)		*137*	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 793 and 794: Dept. of Commerce, Bur. of Census; 15th Census Reports, Mines and Quarries.

No. 795.—Mineral Production, by States and for Alaska: 1933 to 1939

Note.—The sum of the State totals in the table below does not agree with the total for the United States given in tables 786 and 796 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	1933	1934	1935	1936	1937	1938	1939 (prel.)
Continental U. S.	2,322,161	3,034,572	3,262,771	3,965,810	4,672,504	3,907,000	4,209,898
New England	16,698	17,281	17,228	22,637	24,757	21,772	25,396
Maine	2,594	2,352	2,560	3,423	4,129	3,549	3,770
New Hampshire	1,457	1,149	694	1,182	1,220	1,147	1,187
Vermont	5,793	4,853	5,097	6,225	7,043	6,440	6,072
Massachusetts	4,917	6,165	5,650	7,559	7,813	6,666	8,180
Rhode Island	387	485	571	929	863	912	981
Connecticut	1,551	2,276	2,656	3,317	3,690	3,060	4,306
Middle Atlantic	487,367	626,568	607,499	695,526	708,951	570,399	641,011
New York	42,940	54,626	58,409	71,648	77,666	73,217	78,384
New Jersey	22,580	25,010	28,515	24,421	31,468	24,409	30,271
Pennsylvania	421,847	546,933	520,576	599,457	599,817	472,773	532,356
East North Central	261,371	317,719	354,097	406,806	453,757	374,877	512,144
Ohio	91,146	117,505	126,134	122,684	131,025	104,813	119,751
Indiana	34,011	39,417	42,513	52,282	54,887	47,892	53,423
Illinois	74,837	89,214	96,484	117,916	133,438	130,155	210,296
Michigan	54,223	61,831	77,149	100,646	119,168	81,381	115,970
Wisconsin	7,154	9,752	11,818	13,278	15,240	10,637	12,705
West North Central	165,357	206,240	239,712	315,936	417,055	275,721	332,813
Minnesota	42,472	48,328	57,313	94,569	152,107	51,425	106,428
Iowa	15,155	19,326	21,710	28,359	26,941	24,794	25,484
Missouri	30,588	32,955	35,800	41,351	52,446	39,561	45,619
North Dakota	2,961	2,550	2,544	2,902	2,873	2,653	2,990
South Dakota	14,659	19,173	22,210	23,222	23,473	23,583	24,811
Nebraska	2,047	2,791	3,229	3,844	4,838	4,029	4,390
Kansas	57,975	81,118	96,906	121,690	154,376	129,675	123,392
South Atlantic	219,898	306,790	316,939	359,064	405,744	351,451	383,627
Delaware	135	272	230	444	397	321	401
Maryland	7,015	10,128	10,036	11,158	10,635	9,408	11,838
District of Columbia	423	407	479	548	523	560	592
Virginia	18,846	28,309	30,923	37,295	46,019	42,370	43,583
West Virginia	172,727	241,474	245,402	271,502	306,591	254,995	275,563
North Carolina	3,365	5,342	6,775	9,956	11,160	14,959	18,534
South Carolina	1,014	1,323	1,843	3,433	4,022	4,364	5,423
Georgia	7,529	7,986	9,804	11,757	12,584	11,598	14,633
Florida	8,844	11,548	11,447	12,973	13,812	12,867	13,060
East South Central	108,379	144,915	159,094	193,156	220,658	190,589	210,680
Kentucky	65,536	89,042	98,486	113,435	127,424	106,655	113,243
Tennessee	16,785	23,526	25,743	31,122	34,894	32,429	40,120
Alabama	23,291	29,827	31,772	44,753	53,519	46,296	52,124
Mississippi	2,766	2,521	3,093	3,846	4,822	5,210	5,192
West South Central	605,728	848,022	904,923	1,118,490	1,388,432	1,214,709	1,136,527
Arkansas	12,710	16,082	17,609	21,297	25,578	29,395	29,507
Louisiana	54,886	85,211	107,545	153,358	182,119	172,307	168,903
Oklahoma	172,561	237,209	251,701	305,192	367,444	272,860	236,177
Texas	365,571	509,521	528,069	638,643	813,291	740,147	701,940
Mountain	150,936	218,624	283,815	386,626	543,091	388,668	459,862
Montana	21,662	31,430	52,997	65,569	82,087	48,603	63,355
Idaho	12,429	16,708	21,364	29,966	40,633	31,739	33,139
Wyoming	22,025	27,640	30,670	34,498	41,088	37,364	39,425
Colorado	27,259	39,473	44,413	56,215	67,339	60,369	64,072
New Mexico	23,355	30,079	33,502	45,942	72,356	63,569	69,922
Arizona	12,571	26,063	38,848	60,533	94,564	60,756	75,057
Utah	24,180	32,527	41,933	61,209	105,652	59,236	80,222
Nevada	7,455	14,703	20,988	32,693	38,872	27,031	34,671
Pacific	305,927	348,412	379,463	467,568	510,149	518,812	507,839
Washington	9,388	12,945	13,688	22,921	26,658	21,167	31,590
Oregon	3,505	4,211	5,596	7,081	6,610	7,536	8,636
California	293,035	331,256	360,179	437,566	476,881	490,108	467,612
Alaska	12,681	19,579	18,812	23,738	27,928	28,797	25,674

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

No. 796.—Mineral Products of the United States—Quantities and Values: 1920 to 1940

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 1940 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.

Product	Quantity						Value in thousands of dollars					
	1920	1925	1930	1935	1939	1940	1920	1925	1930	1935	1939	1940
METALLIC												
Aluminum ... 1,000 pounds	138,042	140,116	229,037	119,295	327,090	412,560	41,375	36,430	50,961	22,070	64,600	75,292
Antimonial lead [1] ... short tons	12,535	19,667	13,711	[1] 16,384	[1] 21,995	[1] 29,762	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)	(3)	[2] 473	[2] 918	[2] 258	(3)	(3)	(3)
Antimony, ore and concentrates ... do	----------	123	----------	3,616	3,174	1,124	----------	[4] 2,819	----------	(5)	37	73
Bauxite ... long tons	521,308	316,540	330,612	233,912	375,301	434,988	3,247	1,988	1,928	1,557	2,166	2,579
Cadmium ... pounds	129,283	502,824	2,777,762	3,477,091	4,411,530	5,921,488	151	277	1,778	(5)	2,382	4,145
Chromite ... long tons	2,502	108	80	515	3,614	2,662	45	2	2	6	47	29
Copper,[6] sales value ... 1,000 pounds	1,209,061	1,674,870	1,394,389	762,587	1,425,349	1,818,168	222,467	237,832	181,271	63,295	148,236	205,453
Ferro-alloys ... long tons	612,808	616,222	650,240	592,176	841,162	1,154,161	77,519	53,048	51,900	48,892	76,157	128,128
Gold [7] ... 1,000 troy ounces	2,476	2,412	2,286	3,609	5,611	6,003	51,187	49,860	47,248	126,325	196,391	210,109
Iron, ore ... 1,000 long tons	69,281	63,925	55,201	33,426	54,827	75,198	[4] 285,006	[4] 160,797	[4] 145,619	[4] 83,035	[4] 158,538	[4] 189,087
Iron, pig ... do	35,710	36,815	29,905	21,178	32,091	41,928	1,140,904	739,316	512,165	358,145	626,825	840,442
Lead (refined),[6] sales value ... short tons	476,849	654,921	573,740	310,505	420,967	433,065	76,296	113,956	57,374	24,840	39,571	43,307
Magnesium (new ingot) ... pounds	(8)	(8)	559,631	4,241,218	10,650,121	12,823,633	(8)	(8)	269	(5)	(5)	[9] 3,462
Manganese ore (35% or more Mn) ... long tons	94,420	98,324	67,035	26,428	29,307	40,123	2,396	1,858	1,437	557	795	1,169
Manganiferous ore (5 to 35% Mn) ... do	767,664	1,448,054	785,390	524,184	709,247	1,136,547	2,438	3,752	2,402	1,323	2,148	3,348
Mercury, metal ... flasks (76 pounds net)	13,216	9,053	21,553	17,518	18,633	37,777	1,067	763	2,479	1,261	1,937	6,682
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	32,415	25,329	17	961	2,068	7,261	22,157	17,189
Nickel ... short tons	365	272	308	160	394	554	293	170	214	130	(5)	(5)
Ores (crude), old tailings, etc.:												
Copper ... 1,000 short tons	36,765	53,262	47,382	19,103	55,221	69,278						
Lead-copper, zinc-copper, zinc-lead-copper ... do	27	229	246	1	87	854						
Dry and siliceous (gold and silver) ... do	8,590	8,995	7,767	14,016	19,467	18,700	(8)	(8)	(8)	(8)	(8)	(8)
Lead ... do	7,200	8,560	8,080	3,494	5,387	6,144						
Zinc-lead ... do	12,383	17,741	10,645	7,471	11,518	12,063						
Zinc ... do	2,651	3,411	5,980	7,944	7,576	9,521						
Platinum, etc., value, N. Y. C. ... troy ounces	41,544	49,643	43,502	42,060	41,441	47,339	4,698	5,662	2,049	1,414	1,566	1,986
Selenium ... pounds	92,141	194,007	278,309	232,831	345,726	368,709	176	331	455	(5)	(5)	(5)
Silver [10] ... 1,000 troy ounces	55,362	66,155	50,748	45,924	65,120	69,586	60,802	45,912	19,538	33,008	44,202	49,483
Tantalum ore ... pounds	4,000	----------	5,109	7,681	340	----------	1	----------	3	5	(11)	----------
Tellurium ... do	(5)	(5)	4,717	22,610	63,431	88,996	(5)	(5)	8	(5)	(5)	(5)

Tin (metallic equivalent) ..... short tons	22	14	17	50	38	49	22	16	10	50	38	49
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	4,287	5,319	102	756	509	1,921	4,402	6,576
Uranium and vanadium ores ..... do	35,076	13,070	(5)	(5)	279,354	96,779	2,401	331	(5)	(5)	1,054	1,030
Zinc, [6] sales value ..... do	450,045	555,631	489,361	412,184	491,058	589,988	72,907	84,456	46,979	36,272	51,070	74,338
Total metallic products (approximate)							**1,763,675**	**1,382,155**	**985,790**	**733,130**	**1,291,200**	**1,677,700**
NONMETALLIC												
Arsenious oxide ..... short tons	11,502	12,317	17,425	12,670	22,439	23,339	2,021	1,199	1,008	497	496	561
Asbestos ..... do	1,648	1,258	4,242	8,920	15,459	20,060	678	52	289	293	513	675
Asphalt, native ..... do	898,993	584,850	702,777	349,938	459,848	490,665	13,199	4,148	4,463	2,201	3,067	2,725
Asphalt, oil (including road oil) ..... do		1,206,700	2,167,068	2,715,104	4,860,540	5,262,959		[4] 15,306	[4] 20,851	[4] 24,112	[4] 36,039	[4] 41,399
Barite (crude) ..... do	228,113	228,063	234,932	225,111	383,609	409,353	2,142	1,703	1,538	1,251	2,344	2,597
Boron minerals ..... do	120,320	113,700	177,360	272,967	245,284	243,355	2,173	3,086	5,352	5,382	5,690	5,643
Bromine ..... 1,000 pounds	1,161	1,566	8,463	16,429	37,882	59,266	745	488	2,110	3,483	7,611	11,773
Calcium-magnesium chloride (75 percent $NaCl_2$) ..... short tons	27,849	67,879	116,160	83,546	108,441	94,238	539	1,387	2,208	1,039	1,308	1,486
Cement ..... 1,000 bbls. (376 lbs. net)	97,079	159,047	160,846	76,244	125,057	132,864	195,590	231,076	231,249	114,810	184,255	193,465
Clay products							373,670	[12] 423,447	[12] 275,134	[12] 155,536	[12] 122,528	([12])
Clay, raw (sold by producers) ..... 1,000 short tons	3,116	4,030	3,963	2,923	3,761	4,701	[4] 11,614	[4] 12,737	[4] 12,521	[4] 10,824	15,355	18,162
Coal, bituminous [13] ..... do	568,667	520,053	467,526	372,373	[14] 393,065	[14] 453,245	2,129,933	1,060,402	795,483	658,063	[14] 728,234	[14] 861,166
Coal, Pennsylvania anthracite ..... do	89,598	61,817	69,385	52,159	51,487	51,485	434,252	327,665	354,574	210,131	187,175	205,490
Coke ..... do	51,345	51,267	47,972	35,141	44,327	57,072	[4] 494,246	[4] 262,559	[4] 209,137	[4] 176,853	[4] 212,884	[4] 273,832
Emery ..... short tons	2,327	769	555	176	765	1,046	22	6	6	2	7	9
Feldspar (crude) ..... long tons	135,551	185,706	171,788	189,550	253,466	290,763	851	1,316	1,067	1,005	1,113	1,272
Fluorspar ..... short tons	186,778	113,669	95,849	123,741	182,771	233,600	4,719	2,052	1,747	1,861	3,705	4,745
Fuller's earth ..... do	128,487	206,574	335,644	227,745	167,070	146,568	2,506	2,924	4,327	2,230	1,692	1,471
Garnet for abrasive purposes ..... do	5,476	8,429	5,003	3,060	4,056	4,716	434	713	314	257	279	259
Gems and precious stones							265	([15])	([15])	([15])	([15])	([15])
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)		576	57	(5)	(5)	(5)	
Grindstones and pulpstones ..... short tons	53,484	37,340	18,700	14,587	10,434	13,323	1,707	1,706	771	505	426	496
Gypsum [16] ..... 1,000 short tons	3,129	5,678	3,471	1,904	3,227	3,699	24,533	47,577	27,051	18,860	4,431	5,228
Helium [17] ..... cu. ft	(5)	9,418,363	9,805,600	10,218,480	6,281,800	9,450,855	(5)	451	140	114	75	85
Iodine ..... pounds	(5)	(5)	(5)	245,696	(5)	(5)	(5)	(5)	(5)	249	(5)	(5)
Kyanite ..... short tons	(5)	(5)	(5)	(5)	2,950	4,241	(5)	(5)	(5)	(5)	69	94

For footnotes, see p. 809.

No. 796.—Mineral Products of the United States—Quantities and Values: 1920 to 1940—Continued

Product	Quantity						Value in thousands of dollars					
	1920	1925	1930	1935	1939	1940	1920	1925	1930	1935	1939	1940
NONMETALLIC—continued												
Lime ... 1,000 short tons	3,570	4,581	3,388	2,987	4,254	4,887	37,544	42,609	25,616	21,749	30,049	33,956
Lithium minerals ... short tons	11,696	3,140	1,797	1,154	1,990	1,961	173	59	56	27	97	80
Magnesite (crude) ... do	303,767	120,660	129,320	177,154	198,980	333,166	2,748	1,433	1,033	1,192	1,465	2,488
Magnesium oxide, hydrated (brucite) ... 1,000 pounds					171,508	216,532					2,159	2,453
Magnesium salts, natural ... do	(5)	85,158	73,255	109,602			(5)	1,253	1,071	1,287		
Marl, calcareous ... short tons	97,487	68,670	34,012	88,062	22,114	25,516		188	113	97	38	42
Marl, greensand ... do	(5)	12,728	12,761	7,589	6,466	6,481	326	180	221	220	151	210
Mica, scrap ... do	5,723	9,695	6,732	[18] 18,852	[18] 24,672	[18] 22,386	167	174	109	[18] 244	[18] 312	[18] 315
Mica, sheet ... 1,000 pounds	1,683	1,794	1,465	937	814	1,625	547	322	177	161	139	292
Millstones							63	22	18	10	11	7
Mineral paints:												
Cadmium compounds [19] ... pounds	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	324	(5)	1,056	1,256
Zinc and lead pigments [20] ... short tons	143,244	199,190	147,948	137,972	162,774	164,775	24,565	28,311	18,420	13,828	19,030	19,334
Mineral waters ... 1,000 gallons sold	36,218	(15)	(15)	(15)	(15)	(15)	4,861	(15)	(15)	(15)	(15)	(15)
Natural gas ... 1,000,000 cu. ft.	798,210	1,188,571	1,943,421	1,916,595	2,476,756	2,672,000	196,194	265,271	416,090	429,374	534,240	591,509
Natural gasoline ... 1,000 gallons	384,744	1,127,470	2,210,494	1,651,986	2,169,300	2,320,458	71,788	120,383	128,160	70,940	90,050	70,000
Oilstones, etc ... short tons	1,144	970	651	439	620	(5)	232	272	137	106	116	(5)
Olivine ... do	(5)	(5)	(5)	(5)	3,000	2,500	(5)	(5)	(5)	(5)	15	15
Peat ... do	73,204	72,436	(15)	37,060	55,483	70,097	922	453	(15)	199	362	517
Petroleum ... 1,000 barrels (42 gals.)	442,929	763,743	898,011	996,596	1,264,962	1,351,847	1,360,745	1,284,960	1,070,200	961,440	1,294,470	1,352,000
Phosphate rock ... 1,000 long tons	4,104	3,482	3,926	3,042	3,757	4,003	25,080	11,546	13,997	10,952	12,294	12,335
Potassium salts (K_2O) ... short tons	41,444	25,302	56,610	224,721	366,287	393,058	7,463	1,204	2,986	4,993	12,028	12,562
Pumice ... do	41,838	40,380	56,843	60,000	89,159	82,407	114	179	336	247	425	450
Pyrites ... long tons	310,777	170,081	[21] 347,512	[21] 514,192	[21] 516,408	[21] 617,513	1,597	650	[21] 1,029	[21] 1,583	[21] 1,550	[21] 1,892
Salt ... 1,000 short tons	6,840	7,398	8,054	7,927	9,278	10,003	29,894	26,162	25,009	21,838	24,510	26,118
Sand and gravel:												
Sand, glass ... do	2,166	2,335	1,849	2,126	2,468	2,760	4,749	3,836	3,211	3,735	4,281	4,882
Sand (molding, building, etc.) and gravel ... 1,000 short tons	79,875	169,667	195,203	121,798	223,540	235,548	60,913	103,706	111,966	58,242	101,785	105,806
Sand-lime brick ... thousands	169,761	[12] 315,595	[12] 191,193	[12] 61,757	[12] 137,523	(12)	2,490	[12] 3,781	[12] 1,951	[12] 555	[12] 1,412	(12)
Silica (quartz) ... short tons	68,190	25,444	13,156	17,178	34,959	31,865	320	205	121	112	153	176
Slate ... do	468,700	724,600	463,610	330,200	531,380	473,450	8,726	12,575	7,912	3,650	6,682	5,738
Sodium salts (carbonates and sulfates), natural ... short tons	40,243	55,850	122,930	131,936	262,222	317,267	1,183	1,007	1,792	1,449	2,557	3,158

Stone	1,000 short tons	78,527	115,851	126,996	[22] 83,159	[22] 147,447	[22] 153,733	133,542	174,217	178,949	[22] 87,824	[22] 158,462	[22] 160,044
Sulfur	1,000 long tons	1,518	1,858	1,990	1,635	2,234	2,559	30,000	29,000	35,800	29,300	35,500	40,900
Sulfuric acid, byproduct (60° Baumé)[23]	1,000 short tons	[24] 1,230	1,007	1,188	604	778	(5)	13,617	7,513	9,544	4,548	6,213	(5)
Talc, pyrophyllite, and soapstone[25]	short tons	210,635	182,256	179,385	172,716	253,976	281,375	3,035	2,012	2,108	1,848	2,701	3,008
Tripoli	do	40,233	29,388	32,439	27,375	33,474	30,212	570	435	508	383	466	367
Vermiculite	do	----------	(5)	(5)	7,068	21,174	22,209	----------	(5)	(5)	88	175	149
Total nonmetallic products (approximate)		----------	----------	----------	----------	----------	----------	5,217,685	4,295,475	3,779,010	2,916,870	3,623,100	3,904,800
Metallic products		----------	----------	----------	----------	----------	----------	1,763,675	1,382,155	985,790	733,130	1,291,200	1,677,700
Nonmetallic products (exclusive of fuels)		----------	----------	----------	----------	----------	----------	1,024,755	1,236,795	1,014,510	586,870	788,900	824,600
Mineral fuels		----------	----------	----------	----------	----------	----------	4,192,910	3,058,680	2,764,500	2,330,000	2,834,200	3,080,200
Grand total (approximate)		----------	----------	----------	----------	----------	----------	6,981,340	5,677,630	4,764,800	3,650,000	4,914,300	5,582,500

[1] From both domestic and foreign ores. Beginning 1935, data 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 and 1930, content of antimonial lead. Value of the antimony in antimonial lead excluded from total value.
[3] Largely from foreign ore beginning 1935. Value not included in total value. Bureau of Mines not at liberty to publish value figures or quantity figures for 1939 and 1940.
[4] Value not included in total value; see headnote.
[5] Figures not available or Bureau of Mines not at liberty to publish them; value included in total value of metallic or nonmetallic products.
[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] Value calculated at nominal price, 27 cents per pound.
[10] According to Bureau of the Mint.
[11] Less than $500.
[12] Figures obtained through cooperation with Bureau of the Census. Data for 1940 not yet available; estimate included in total value of nonmetallic products. Beginning 1937, value of clay products excludes values of pottery and refractories.
[13] Includes brown coal and lignite, and anthracite mined elsewhere than in Pennsylvania.
[14] Quantities as reported by Department of the Interior, National Bituminous Coal Division. For 1939, value is estimated from incomplete returns to the Bureau of the Census and excludes selling expenses, except in a few cases; for 1940, values are estimated from various sources and include selling expenses.
[15] No canvass. Estimate of value included in total value of nonmetallic products.
[16] Gypsum mined: After 1936, value of crude at mine; for earlier years, value as sold (crude and calcined).
[17] Figures cover fiscal year ended June 30 of year stated.
[18] Includes mica recovered by grinding mica schist; excluded in prior years shown.
[19] Largely for use in manufacture of pigments.
[20] Sublimed blue lead, sublimed white lead, leaded zinc oxide, and zinc oxide.
[21] Figures include pyrites concentrates from Tennessee and partly desulphyrized tailings from zinc operations in Wisconsin; similar output in earlier years was not included.
[22] Includes soapstone used as dimension stone.
[23] From copper and zinc smelters and zinc roasters and from roasting of high-sulfide gold and silver concentrates.
[24] Includes 23,728 tons of stronger acid, not converted to 60° Baumé.
[25] 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. 797.—Iron Ore—Production, Shipments, Exports, and Imports, 1881 to 1940, and Production, by Region, State, and Kind, 1937 to 1940

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 [1]	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
1926	67,623	69,293	869	2,555
1927	61,741	61,232	899	2,621
1928	62,197	63,433	1,282	2,453
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
1939	51,732	54,827	1,057	2,413
1940	73,696	75,198	1,386	2,479

Production	1937	1938	1939	1940
Region				
Lake Superior [2]	61,657	21,308	41,680	61,471
Birmingham	5,953	4,156	5,735	6,890
All other	4,483	2,983	4,317	5,336
State				
Alabama	6,308	4,303	5,961	7,316
Michigan	12,085	6,004	9,159	12,472
Minnesota	48,417	14,449	31,548	47,737
New Jersey	520	186	399	659
New York, Pennsylvania	2,625	2,121	2,714	2,900
Utah	191	168	262	327
Wisconsin	1,156	855	973	1,262
Wyoming	708	276	588	831
All other	84	85	129	191
Kind				
Hematite [3]	68,073	25,607	47,757	68,870
Brown ore [4]	666	363	597	935
Magnetite [3 4]	3,354	2,476	3,378	3,891
Carbonate	1	(5)	(5)	1

[1] Excludes ore sold for paint.
[2] Includes only those mines in Wisconsin that are in true Lake Superior district.
[3] Some hematite included with magnetite and, except for 1937, some magnetite included with hematite.
[4] Some brown ore included with magnetite in 1937 and 1940. [5] Less than 500.

No. 798.—Pig Iron and Ferro-Alloys—Production, by States, Disposition, Kind, and Fuel and Materials Used: 1900 to 1940

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

	1900	1910	1915	1920	1925	1930	1935	1938	1939	1940
Total pig iron and ferro-alloys	13,789	27,304	29,916	36,926	36,701	31,752	21,373	19,161	31,855	42,320
By States:										
New England	14	17	8	10		2,211	1,611	1,494	2,335	3,068
New York, New Jersey	463	2,203	2,105	2,601	2,188					
Pennsylvania	6,366	11,272	12,791	13,983	12,523	10,305	5,700	5,001	9,035	13,217
Illinois	1,363	2,676	2,447	3,281	3,604	3,345	2,003	1,657	2,651	3,614
Indiana, Michigan	164	1,250	1,987	2,940	4,120	3,934	2,898	2,347	4,274	5,971
Maryland and Virginia	781	771	503	953	830	1,088	9,160	8,662	13,561	16,450
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				
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	3,390	4,440	6,105
For maker's use	(1)	(1)	21,333	26,202	27,710	24,670	17,351	15,770	27,405	36,215
By kinds:										
Basic	1,072	9,085	13,093	16,738	19,667	18,393	13,618	12,888	22,712	30,346
Bessemer and low-phosphorus	7,979	11,246	10,523	12,062	9,419	7,315	4,239	3,054	5,331	6,996
Foundry (incl. ferrosilicon)	3,376	5,260	4,844	5,958	5,410	3,960	1,908	1,853	2,030	2,492
Malleable	173	843	830	1,311	1,554	1,572	1,206	1,002	1,238	1,636
Forge	793	564	316	318	241	51	5	1	3	3
Ferromanganese, spiegeleisen, and all other	395	306	310	539	409	461	396	363	540	847
By fuels:										
Coke [2]	11,728	26,258	29,535	36,300	36,504	31,650	21,298	19,122	31,811	42,243
Anthracite	1,677	649	85	303						
Charcoal	384	397	296	323	196	97	75	39	44	77
Materials used:										
Iron ore, briquettes, etc.	24,131	51,739	55,137	66,450	65,450	[3] 53,662	[3] 35,183	[3] 32,109	[3] 53,188	[3] 71,136
Cinder, scale, scrap, etc.	1,600	2,800	4,483	4,986	5,017	[3] 6,296	[3] 4,257	[3] 3,321	[3] 5,765	[3] 6,678
Coke (1,000 tons of 2,000 pounds) [4]	(1)	(1)	33,329	42,046	39,296	[3] 31,168	[3] 20,272	[3] 18,424	[3] 30,632	[3] 40,451
Limestone	7,422	14,528	14,790	17,825	15,154	[3] 11,099	[3] 7,523	[3] 6,435	[3] 11,033	[3] 14,891
Total number furnaces Dec. 31	406	473	445	452	395	300	258	236	232	231
Furnaces in blast Dec. 31	232	206	310	216	238	97	124	116	195	206

[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 797, Department of the Interior, Bureau of Mines; Minerals Yearbook. Table 798, American Iron and Steel Institute, annual report.

No. 799.—Pig Iron and Ferro-Alloys and Steel Ingots and Castings—Production, Exports, and Imports: 1871 to 1940

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 figures for earlier years, see Abstract for 1931.

Yearly average or year	Pig iron and ferro-alloys: Production	Pig iron and ferro-alloys: Exports of domestic	Pig iron and ferro-alloys: Imports	Steel ingots and castings, production	Year	Pig iron and ferro-alloys: Production	Pig iron and ferro-alloys: Exports of domestic	Pig iron and ferro-alloys: Imports	Steel ingots and castings, production
1871–1875	2,248,293	7,412	137,591	[1] 389,799	1924	31,405,790	45,818	276,966	37,931,939
1876–1880	2,562,763	3,407	276,600	803,479	1925	36,700,566	39,907	516,948	45,393,524
1881–1885	4,301,096	5,311	325,290	1,652,268	1926	39,372,729	28,606	514,288	48,293,763
1886–1890	7,070,312	12,407	229,970	3,292,763	1927	36,505,645	55,899	175,529	44,935,185
1891–1895	8,133,014	22,983	54,778	4,675,736	1928	38,155,714	96,743	194,636	51,544,180
1896–1900	11,491,937	224,268	34,308	8,439,938	1929	42,613,983	53,749	223,680	56,433,473
1901–1905	18,239,665	45,465	314,765	15,307,931	1930	31,752,169	25,344	182,446	40,699,483
1906–1910	24,024,722	78,618	275,036	22,166,783	1931	18,426,354	15,429	103,540	25,945,501
1911–1915	27,518,219	202,011	132,751	28,378,470	1932	8,781,453	6,938	145,664	13,681,162
1916	39,434,797	607,236	135,349	42,773,680	1933	13,345,602	11,272	196,284	23,232,347
1917	38,621,216	856,220	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
1922	27,219,904	33,332	498,059	35,602,926	1939	31,854,551	212,700	115,622	[2] 47,141,709
1923	40,361,146	37,559	474,723	44,943,696	1940 [3]	42,320,115	612,162	40,628	[2] 59,805,970

[1] 1875 only. [2] Includes only steel castings produced in foundries producing steel ingots. [3] Preliminary.

No. 800.—Rolled and Miscellaneous Steel Products—Production, by Kind: 1910 to 1940

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	1939	1940
Hot-rolled products, total	21,621	24,393	32,348	33,387	29,513	23,965	34,882	43,447
Rails	3,636	2,204	2,604	2,785	1,873	712	1,172	1,499
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	1,150	1,458
Rerolled		102	127	84	36	19	22	41
Sheets and plates	4,955	6,078	9,338	9,808	9,067	8,691	12,439	14,778
Universal		955	1,250	1,196	1,041	439	616	681
Sheared		1,923	3,505	2,557	2,622	1,016	2,153	3,179
Black sheets [2]		1,837	2,886	4,097	3,512	5,176	8,957	10,452
Black plates for tinning		1,093	1,449	1,632	1,692	1,795	599	353
Other black-plate specialties		270	247	325	201	266	114	113
Wire rods	2,242	3,096	3,137	2,845	2,349	2,441	3,286	3,886
Structural shapes	[3] 2,267	2,437	3,307	3,604	3,512	1,750	2,999	3,779
Merchant bars	3,786	4,131	6,130	5,659	4,132	[4] 3,699	[4] 4,350	[4] 5,767
Skelp	1,828	2,299	3,220	3,230	2,682	1,352	2,080	2,419
Hoops	262	282	333	205	80	90	65	87
Bands and cotton ties	425	438	389	356	46	25	31	40
Splice and tie-plate bars		536	576	823	606	268	463	461
Rolled forging blooms, billets, etc.	460	651	447	345	304	340	536	821
Bars for reenforced concrete work	241	353	572	820	850	557	1,131	1,273
Strip and sheets for cold reduced black plate and tin plate							2,384	2,771
Strips and flats for cold rolling	1,519	1,888	2,294	2,908	1,942	2,648	1,631	1,855
Blanks or pierced billets					1,248	953	1,802	2,072
All other rolled products					821	[4] 439	[4] 511	[4] 1,939
Miscellaneous products:								
Tin plate	648	983	1,375	1,544	1,660	1,695	2,237	2,297
Terneplate and long terne sheets	75	73	71	114	103	191	273	286
Galvanized sheets		706	835	1,134	1,045	1,028	1,442	1,514
Galvanized formed products		50	64	80	65	60	67	76
Wire nails	567	651	734	690	427	396	602	579
Cut nails and cut spikes	45	35	38	33	21	18	22	22
Wrought pipe or tubes [5]		1,920	3,003	3,031	2,247	964	1,394	1,570
Boiler tubes [5]		97	119	63	31	16	15	16
Seamless pipes or tubes		140	292	568	1,194	877	1,549	1,750
Cast-iron pipe and fittings		1,085	792	1,719	1,282	615	999	1,103
Forgings made by rolling mills	320	524	540	388	476	[6] 315	[6] 399	[6] 556

[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 799, 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 800, American Iron and Steel Institute, annual report.

No. 801.—Iron and Steel, Finished Rolled—Production, Exports, and Imports: 1876 to 1940

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	[2] 684,914	----------	8,013	----------
1891–1895	5,472,849	1,264,677	13,050	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	30,810,660	2,629,506	550,821	21,392	8,246,245	907,496	1,576	6,294,708
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	177,503	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	309,601	[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	21,943,706	622,895	82,721	3,624	7,594,851	512,337	[4] 6,399	3,111,538
1939	34,881,744	1,172,006	59,092	7,784	12,439,213	651,220	[4] 1,434	5,480,670
1940 (prel.)	43,446,758	1,499,095	258,054	1,589	14,777,936	1,268,135	[4] 137	7,040,412

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	[2] 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
1920	3,220,289	3,136,907	116,775	5,488	3,306,748	493,633	1,685	4,039,438
1921	1,030,575	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	3,229,768	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	399,837	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	2,897,031	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	127,520	39,624	4,493,123
1939	2,080,471	3,285,979	31,450	10,692	2,999,094	163,153	39,533	7,424,311
1940 (prel.)	2,418,750	3,885,579	286,269	3,987	3,778,880	495,218	767	10,046,106

[1] Merchant bars include concrete reinforcing bars and, beginning 1934, certain miscellaneous bars previously included in "All other finished rolled production."
[2] Average for years 1887–90.
[3] Average for years 1902–05.
[4] Includes skelp.
[5] Average for years 1892–95.
[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. 802.—Steel, Wire and Wire Products, Tin Plate and Terneplate, and Cast-Iron Pipe and Fittings—Production: 1929, 1937, and 1939

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	1929	1937	1939	1929	1937	1939
Steel works and rolling mills							
All products, total value					3,160,439	3,146,263	2,720,020
Unrolled steel, total [1]	Ton [2]	56,248	51,682	47,782			
Ingots—							
Produced and consumed in works	do	54,133	49,790	46,643			
For sale and interplant transfer	do	661	643	411	17,150	21,132	13,982
Direct steel castings—[3]							
Produced and consumed in works	do	114	96	70			
For sale and interplant transfer	do	117	198	82	15,044	32,926	14,684
Semifinished rolled products, total	do	48,529	43,491	39,222			
Produced and consumed in works	do	35,749	33,177	30,310			
For sale and interplant transfer	do	12,779	10,314	8,912	421,328	336,507	273,583
Blooms, billets, and slabs, except for forging.	do	7,361	7,317	7,095	244,792	241,590	215,353
Rolled blooms and billets for forging	do	270	334	348	10,327	15,304	15,098
Sheet and tin-plate bars	do	5,062	2,642	1,464	162,316	78,590	42,846
Muck and scrap bar	do	87	22	5	3,393	1,023	286
Finished hot-rolled products and forgings, total.[4]	do	39,883	37,316	35,718			
Produced and consumed in works	do	9,533	12,163	12,797			
For sale and interplant transfer	do	30,350	25,154	22,921	1,604,833	1,429,395	1,239,146
Rails	do	2,666	1,408	1,175	113,925	53,716	48,162
Rerolled or renewed rails [5]	do	57	32		1,933	1,355	
Rail joints, fastenings, tie plates, etc.	do	872	460	462	47,761	23,751	25,159
Pierced billets, rounds, and blanks, for seamless pipes and tubes.[6]	do	(7)	534	598	(7)	24,808	23,120
Structural shapes (not fabricated)	do	4,470	3,115	2,063	188,808	148,631	124,517
Concrete reinforcing bars	do	972	814	1,094	42,417	36,781	44,661
Merchant bars, mill shafting, etc.—							
Steel	do	6,228	[8] 4,389	[8] 3,840	358,601	[8] 295,037	[8] 252,377
Iron	do	187	71	53	13,284	6,577	4,995
Bolt and nut rods, spike and chain rods, etc.	do	121	37	(9)	5,683	1,738	(9)
Wire rods	do	1,155	1,040	1,020	49,042	49,229	46,198
Plates No. 12 and thicker	do	5,219	3,344	2,820	228,236	171,494	134,015
Sheets No. 13 and thinner [6]	do	4,041	5,568	6,147	306,936	316,455	301,209
Stainless steel plates and sheets	do	(10)	33	25	(10)	21,618	17,495
Skelp	do	1,271	1,144	739	50,121	45,095	28,401
Hot-rolled strips for cold rolling	do	479	1,359	749	21,347	73,382	38,790
Other strips, etc., and cotton ties	do	1,566	991	694	75,626	67,555	48,855
Axles	do	150	127	76	12,039	11,424	6,153
Armor plate and ordnance	do	10	20	49	3,287	8,461	24,416
Car and locomotive wheels	do	209	172	142	19,352	15,526	13,129
All other rolled and forged products.	do	676	496	575	66,346	56,765	57,496
Scrap iron and steel for sale and interplant transfer.	do	2,830	2,929	2,276	42,101	53,600	34,202
Cinder and scale, for sale and interplant transfer.	do	1,194	2,674	2,636	2,731	4,916	4,837
All other (including value added to rolled products by further manufacture).	do				1,057,252	1,267,787	1,139,495
Wire and wire products (all metals)							
All industries, total value					931,378	760,037	704,639
Iron and steel wire:							
Plain wire, total [11]	Ton [12]	3,097	2,913	3,171			
For sale and interplant transfer	do	1,204	1,038	1,049	88,456	85,954	80,060
Produced and consumed in works	do	1,894	1,875	2,122			
Galvanized wire: For sale and interplant transfer.	do	269	229	255	19,656	18,802	19,637
Other coated wire: For sale and interplant transfer.	do	52	46	50	8,143	7,035	7,926
Cold-rolled from drawn wire: For sale and interplant transfer.	do	29	24	22	4,256	3,808	3,164
Copper wire:							
For sale and interplant transfer	Lb	544,740	258,102	192,192	118,628	43,071	28,726
Produced and consumed in works	do	407,996	473,901	451,753			
Drawn on contract or custom basis from furnished rods or bars.	do	151,761	20,949	29,263			

For footnotes, see next page.

No. 802.—Steel, Wire and Wire Products, Tin Plate and Terneplate, and Cast-Iron Pipe and Fittings—Production: 1929, 1937, and 1939—Con.

Industry and product	Quantity in thousands of units specified				Value in thousands of dollars		
	Unit	1929	1937	1939	1929	1937	1939
Wire and wire products (all metals)—continued							
Brass and bronze wire:							
For sale and interplant transfer	Lb	86,805	77,925	75,632	20,332	16,421	15,542
Produced and consumed in works [13]	do	5,581	18,218	14,494			
Electrical-resistance wire, for sale	do	(7)	10,585	9,668	(7)	7,393	6,035
Other nonferrous wire: [14]							
For sale and interplant transfer	do	48,487	45,529	59,450	23,590	[15] 14,273	[15] 17,095
Produced and consumed in works [13]	do	21	1,084	1,779			
Fabricated wire products for sale:							
Iron and steel—							
Nails, brads, and spikes [16]	Keg [17]	13,601	11,081	13,789	44,935	35,664	42,566
Tacks [16]	Lb	6,540	2,903	4,753	640	229	523
Staples	do	58,879	44,158	57,469	2,342	1,577	[15] 1,851
Barbed wire	Ton [12]	222	188	231	13,824	11,178	13,825
Rope and cable, except insulated	do	153	106	98	46,877	36,403	35,762
Strand, galvanized	do	49	33	41	5,618	4,403	6,037
Poultry netting	do	47	50	48	7,536	6,092	5,921
Woven wire fence, except poultry netting.	do	366	284	319	31,041	23,330	25,366
Fly screening	Lb	64,728	58,299	53,298	9,942	8,463	7,486
Other wire cloth	do	31,107	47,996	48,369	[15] 4,996	6,670	6,684
Concrete reinforcement wire	Ton [12]	139	114	167	11,786	[15] 7,524	[15] 10,798
Wire lath and other woven wire	do		23	31		5,504	6,461
Motor-vehicle skid chains	do	31	28	20	[15] 8,987	[15] 6,413	[15] 3,958
Bale ties	Lb	148,474	160,770	169,566	5,088	5,900	5,915
Wire springs					47,903	72,875	67,034
Welding wire, not incl. electrodes	Lb	(7)	69,135	83,209	42,872	4,132	4,798
Other fabricated iron and steel wire products.						42,620	42,000
Nonferrous wire products—							
Fly screening—							
Copper and bronze	Lb	15,204	13,567	16,156	5,104	4,309	4,884
Other metals	do		304	331		239	291
Fourdrinier and cylinder wire cloth	do	3,108	3,183	3,078	4,765	4,961	5,376
Other wire cloth—							
Copper and bronze	do	2,618	1,666	1,360	1,271	[15] 1,364	[15] 1,001
Other metals	do		829	717		[15] 1,061	[15] 1,002
Copper strand, except insulated	do	92,395	131,783	100,095	18,617	22,096	15,403
Other fabricated nonferrous wire products, except insulated wire.					6,125	3,273	4,744
Insulated wire and cable and armored conductor.					323,982	245,342	204,430
Wire and wire products not distributed above.					[18] 4,063	[18] 1,659	[18] 1,449
Tin plate and terneplate							
All products, total value					213,085	285,775	264,445
Tin plate	Lb	4,031,856	5,433,509	5,121,433	194,107	254,289	235,946
Terneplate	do	345,592	616,343	589,883	15,568	25,349	23,716
All other products					3,409	6,137	4,783
Cast-iron pipe and fittings							
All industries, total value					85,890	66,212	69,387
Quantity reported	Ton [12]	1,736	1,098	1,264	78,296	58,363	68,412
Quantity not reported					7,594	7,849	975

[1] Figures include production of steel castings in "Steel castings" industry and a small amount produced in other industries, and for this reason exceed sum of items shown below. [2] Of 2,240 pounds.

[3] Made in departments of steel works and rolling mills. Total production of steel castings, as shown in census report "Steel castings," was as follows: 1929, 1,455,000 tons; 1937, 1,249,000 tons; 1939, 734,000 tons.

[4] Figures for 1937 and 1939 include minor duplications in the items carrying note 6, because certain products were transferred or sold to other plants within the industry and therefore are included under 2 items.

[5] Not including rails rerolled by makers of ingots from new seconds. Figure for 1939 combined with figure for rails to avoid disclosing data of a company or corporation. [6] See note 4.

[7] No data or not called for on schedule. [8] Includes data for small amounts of stainless steel rods.

[9] Included in "Merchant bars, etc., steel."

[10] Not reported separately; included in figures for other types of plates and sheets.

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

[12] Of 2,000 pounds. [13] Includes contract and custom work.

[14] Aluminum, nickel, and alloys. [15] See note 18.

[16] For cut production, see census report "Principal manufactures from rolling-mill products."

[17] Of 100 pounds.

[18] Represents the following values for which quantities were not reported: Other wire cloth, 1929, $1,559,000. Motor-vehicle skid chains, 1929, $2,504,000; 1937, $785,000; 1939, $181,000. Other nonferrous wire, 1937, $214,000; 1939, $526,000. Concrete reinforcement wire, 1937, $161,000; 1939, $74,000. Wire cloth of copper and bronze, 1937, $224,000; 1939, $289,000. Wire cloth of other metals, 1937, $275,000; 1939, $255,000. Staples, 1939, $123,000.

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

No. 803.—Steel Ingots and Castings—Production, by Grade: 1890 to 1940

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	26,094,919	9,412,772	16,504,509	15,292,329	1,212,180	122,303	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	505,687	
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	
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	
1939 [1]	47,141,709	2,999,032	43,223,036	42,704,197	518,839	831	918,810	
1940 [1]	59,805,970	3,311,226	54,975,967	54,359,679	616,288	914	1,517,863	

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

Source: American Iron and Steel Institute, annual report.

No. 804.—Blast Furnaces and Steel Mills—Summary: 1889 to 1939

Note.—Data for years prior to 1937 include figures for steel castings; thereafter such data are excluded. The scope of the industry "Steel works and rolling mills" is indicated by table 802.

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	3,625,360	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	352	461,118	755,427	3,818,789	1,503,959	(3)
1939	334	388,441	598,037	3,270,822	1,234,631	4,944,118
Blast furnaces:						
1937 [4]	87	23,075	38,001	672,525	127,644	(3)
1939 [4]	81	19,537	28,312	550,802	87,083	(3)
Steel works and rolling mills:						
1937	265	438,043	717,425	3,146,263	1,376,314	(3)
1939	253	368,904	569,724	2,720,020	1,147,548	(3)

[1] Includes much duplication.
[2] Value of products less cost of materials, supplies, fuel, and purchased electric energy. Beginning 1935, deductions include, in addition, cost of contract work.
[3] No data.
[4] Includes data for 5 establishments in 1937 and 2 in 1939 engaged in production of sintered ore and flue dust and operated independently of blast furnaces.

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

No. 805.—Iron and Steel—Aggregate Exports: 1890 to 1940

Note.—This table covers products listed in table 806 and therefore does not include data for highly elaborated products of iron and steel. Value figures for 1921 and prior years exclude, and those for 1922 and subsequent years include, data for small items for which quantity figures are not available. Data for ferromanganese are included for all years. Data for steam and hot-water heating boilers and radiators, formerly classified as heavy iron and steel products, have been excluded for 1922 and subsequent years.

[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	----------	1917	6,439	567,041	1929	3,038	200,203
1895	89	----------	1918	5,375	558,279	1930	1,983	139,039
1900	1,154	42,518	1919	4,400	410,164	1931	969	63,226
1905	1,010	33,813	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	185,432
1915	3,533	140,993	1927	2,183	160,609	1939	6,084	236,947
1916	6,101	353,971	1928	2,865	179,881	1940	10,603	524,426

No. 806.—Iron and Steel—Exports, by Kind: 1937 to 1940

ARTICLE	QUANTITY IN LONG TONS (2,240 POUNDS)				VALUE IN THOUSANDS OF DOLLARS			
	1937	1938	1939	1940 [1]	1937	1938	1939	1940 [1]
Total	7,578,677	5,147,926	6,083,576	10,603,344	302,360	185,432	236,947	524,426
Pig iron, not including ferro-alloys	782,436	432,851	177,024	553,871	19,403	7,135	3,436	13,058
Ferromanganese and spiegeleisen	1,725	247	2,923	13,036	73	19	248	1,366
Other ferro-alloys	2,780	1,197	4,042	24,465	2,202	1,172	1,025	7,065
Scrap	4,101,549	2,998,591	3,584,439	2,820,789	79,387	45,830	55,912	48,315
Ingots, blooms, sheet bars, skelp, etc	415,200	227,328	297,440	2,669,408	16,898	8,370	11,484	104,912
Iron and steel bars and alloy steel bars	159,258	150,831	208,567	732,742	11,353	10,341	15,254	50,227
Wire rods	60,008	22,283	31,450	286,269	3,263	1,112	1,330	14,061
Galvanized sheets	81,019	76,037	110,968	164,303	7,470	7,020	9,595	14,161
Plates, iron and steel	386,819	221,108	254,078	573,376	21,507	11,344	12,016	30,138
Black steel sheets	286,510	205,278	269,026	476,492	24,014	16,442	19,699	34,530
Black iron sheets	10,788	7,566	10,448	26,447	935	615	812	2,265
Hoop, band, and strip steel	111,234	62,555	88,952	199,113	7,979	5,184	6,553	15,147
Tin plate, terneplate, etc	360,683	161,576	311,016	383,328	39,940	19,078	33,033	44,375
Structural shapes, plain material	135,706	83,691	115,465	407,156	6,984	4,507	5,549	19,701
Structural materials, fabricated	73,543	45,313	52,734	113,881	6,168	4,405	4,808	10,521
Tanks, complete and knocked down	44,578	37,730	28,735	38,136	3,551	3,284	2,647	3,350
Metal lath	1,751	863	1,656	1,697	287	160	303	327
Steel rails	148,182	82,721	59,092	258,054	5,167	3,112	2,375	11,365
Rail fastenings, switches, frogs, etc	21,321	12,830	16,287	21,612	1,834	1,104	1,460	2,199
Boiler tubes	17,458	8,124	15,170	26,890	2,785	1,541	1,960	3,962
Casing and oil-line pipe	83,481	63,703	87,905	181,649	8,302	6,917	8,717	18,165
Seamless black pipe, except casing and oil-line	12,482	7,459	10,219	30,380	1,507	1,287	1,356	4,411
Black and galvanized welded pipe	46,431	31,183	57,355	115,888	4,539	3,170	5,525	11,380
Riveted pipe and fittings	980	945	7,574	17,199	137	189	2,116	4,582
Cast-iron pipe and fittings	31,176	31,892	46,147	69,971	2,344	2,475	2,946	4,492
Malleable-iron screwed pipe fittings	5,385	3,102	4,608	4,485	1,597	1,089	1,441	1,463
Barbed-wire and woven-wire fencing	36,995	36,157	56,693	48,940	2,983	2,707	4,105	4,186
Plain and galvanized wire	56,099	49,872	60,494	153,179	4,812	3,777	4,515	12,909
Woven-wire screen cloth	1,588	1,327	1,924	3,346	534	433	794	1,466
Wire rope and wire strand	7,824	4,372	6,058	13,359	1,841	1,181	1,515	3,384
Electric welding rods	9,082	1,182	1,903	4,285	2,061	270	378	1,011
Wire, other, and manufactures thereof		6,262	10,296	16,695		1,505	2,114	2,979
Wire nails	17,408	20,720	25,796	48,657	1,313	1,370	1,697	3,727
Nails other than wire, tacks, staples	4,483	5,236	6,458	7,806	660	656	819	1,287
Horseshoes	179	103	224	356	21	13	30	48
Bolts, nuts, rivets, and washers [2]	11,166	8,057	8,856	33,381	2,750	2,083	2,350	7,087
Car wheels and axles	27,777	20,938	27,879	19,180	2,343	1,899	2,546	2,119
Iron castings	9,579	5,152	4,679	7,761	1,089	826	851	1,455
Steel castings	3,896	2,452	2,693	3,659	1,049	688	675	985
Forgings	10,118	9,092	16,603	32,099	1,279	1,124	2,962	6,247

[1] Preliminary. [2] Except railroad.

Source of tables 805 and 806: Department of Commerce, Bureau of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation of the United States. Also published currently in Monthly Summary of Foreign Commerce of the United States.

No. 807.—Iron and Steel—Exports, by Destination: 1937 to 1940

Note.—All figures in long tons (2,240 pounds). Products covered are those listed in table 806.

Country and area	1937	1938	1939	1940 (prel.)
Grand total	7,578,677	5,147,926	6,088,576	10,603,344
Europe, total	2,660,977	1,900,217	1,869,742	5,333,350
Belgium	66,434	24,741	14,829	18,940
Finland	9,887	3,516	27,519	6,606
France	31,018	24,272	8,976	47,401
Germany [1]	110,012	241,522	16,660	252
Greece	6,560	6,908	15,597	27,553
Hungary	6,595	15,574	655	16,661
Ireland	1,723	2,920	3,049	14,761
Italy	402,501	443,802	445,491	344,057
Netherlands	194,629	201,852	170,418	67,912
Norway	20,629	17,359	46,929	41,202
Poland and Danzig	278,598	155,962	[2] 154,900	([2])
Portugal	15,438	4,736	9,605	46,576
Rumania	1,254	6,818	6,211	2,669
Spain	10,758	23,357	26,177	63,390
Sweden	130,766	31,419	211,712	53,189
Switzerland	956	965	7,184	81,835
U. S. S. R. (Russia)	94,153	68,651	28,298	34,325
United Kingdom	1,225,790	519,954	671,966	4,451,922
Other	44,276	15,889	3,566	14,099
North and Central America and West Indies, total	1,028,499	572,791	874,307	1,698,983
Canada	648,577	368,488	565,796	1,265,933
Central America	48,900	45,002	74,368	175,237
Mexico	213,444	66,599	124,342	134,920
British West Indies and Bermuda	14,784	9,120	10,365	29,407
Cuba	61,450	51,774	69,304	66,816
Dominican Republic	5,069	3,706	5,465	7,381
Netherlands West Indies	26,393	25,168	17,358	12,225
Other	14,882	2,934	7,309	7,064
South America, total	399,718	319,102	503,883	1,048,777
Argentina	48,757	28,126	66,687	362,059
Bolivia	4,278	2,783	3,370	15,390
Brazil	109,268	76,435	149,528	254,916
Chile	45,566	50,581	56,904	104,577
Colombia	58,881	57,506	77,609	72,087
Ecuador	4,091	2,933	8,388	8,734
Peru	28,348	22,163	35,908	42,468
Uruguay	24,752	5,583	9,947	44,403
Venezuela	72,881	72,297	93,233	137,239
Other	2,896	695	2,309	6,904
Asia and Oceania, total	3,373,592	2,269,984	2,733,069	2,171,454
British India and Ceylon	[3] 35,917	17,591	23,556	94,025
British Malaya	13,152	14,512	23,123	80,851
Burma	([4])	3,346	7,127	22,680
China	157,956	35,504	92,368	164,775
Netherlands Indies	40,733	18,507	53,672	164,306
French Indochina	3,683	1,632	14,341	10,315
Hong Kong	43,633	44,305	16,662	37,682
Iran (Persia)	1,757	1,537	2,104	34,591
Iraq	262	1,079	547	7,402
Japan	2,791,183	1,866,751	2,238,161	1,351,653
Kwantung	106,362	95,039	65,636	4,282
Palestine and Syria	3,868	3,386	9,267	16,851
Philippine Islands	98,992	106,057	150,266	121,286
Saudi Arabia, Yemen, etc	1,020	3,149	8,598	9,847
Thailand (Siam)	246	1,411	2,192	18,548
Turkey	35,828	18,776	6,303	11,891
Australia	30,822	30,611	10,501	12,230
New Zealand	2,181	5,289	3,475	6,318
Other	5,988	1,502	5,170	1,921
Africa, total	115,391	85,332	102,575	350,780
British East Africa	2,740	1,750	2,595	6,887
British South Africa	64,639	43,028	55,962	220,900
British West Africa	1,187	323	2,136	11,781
Egypt	9,948	9,506	20,874	50,588
Mozambique	34,524	16,508	17,702	48,709
Other	2,853	14,717	3,306	11,915

[1] Includes trade of Austria after May 5, 1938; of Czechoslovakia after Mar. 19, 1939; and of Poland and Danzig after Nov. 16, 1939.
[2] See note 1.
[3] Includes trade of Burma.
[4] See note 3.

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce; annual report, Foreign Commerce and Navigation of the United States. Preliminary figures for 1940 are published in Industrial Reference Service report, Part 7, Metals and Minerals, Feb., 1941.

No. 808.—Iron and Steel—Average Annual Prices, by Class or Kind: 1891 to 1940

[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: Basic, The Valleys	Pig iron: Southern, No. 2, Cincinnati	Pig iron: Local, No. 2, Chicago [1]	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]
1891–1895	--------	11.74	12.80	27.27	20.89	--------	--------	1.46	--------	--------	--------
1896–1900	--------	12.56	14.30	24.96	21.08	--------	[7] 1.46	1.50	1.61	[7] 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
1911–1915	13.66	14.10	14.72	28.00	22.43	--------	1.31	1.47	1.32	1.32	1.54
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	3.53	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	33.25	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	34.66	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	1.62	3.69	1.62	1.62	1.96
1932	13.99	13.84	15.87	42.44	26.52	37.00	1.58	3.35	1.58	1.58	1.90
1933	15.24	16.31	16.47	39.36	26.00	35.15	1.64	3.35	1.61	1.63	1.88
1934	17.69	18.80	18.19	36.38	27.10	37.37	1.81	3.50	1.78	1.78	2.03
1935	18.17	19.34	18.68	36.38	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
1939	21.09	21.64	21.59	40.00	34.00	43.00	2.19	4.40	2.10	2.10	2.26
1940	22.52	23.06	23.00	40.00	34.00	44.80	2.15	4.64	2.10	2.10	2.26

[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] Prior to 1920, No. 24 gage hot-rolled annealed sheets; thereafter, No. 10. Includes hot-rolled strip beginning 1920.
[7] Average for 1898–1900.

No. 809.—Aluminum and Bauxite—Production, Exports, and Imports: 1913 to 1940

	1913	1920	1925	1930	1935	1939	1940
BAUXITE							
Quantities, long tons (2,240 pounds):							
Production	210,241	521,308	316,540	330,612	233,912	[1] 375,301	[1] 434,988
Georgia, Alabama, and Tennessee [2]	40,370	40,029	20,220	15,339	14,121	14,045	[3] 11,705
Arkansas	169,871	481,279	296,320	315,273	219,791	[1] 361,256	[1] 423,283
Imports for consumption	21,456	42,895	353,696	409,678	199,959	520,179	629,552
Exports, including concentrates	(4)	22,257	78,633	104,504	82,491	51,635	81,913
Value of production [5] (1,000 dollars)	998	3,247	1,988	1,928	1,557	2,166	2,579
ALUMINUM							
Value, 1,000 dollars:							
Production—							
Primary metal	9,450	41,375	36,430	50,961	22,070	64,600	75,292
Secondary metal	2,199	9,489	24,816	17,177	19,018	19,750	(4)
Imports for consumption, total	4,784	13,077	10,107	5,286	4,279	4,706	5,160
Crude and semicrude	4,388	12,184	9,806	4,690	3,694	3,385	4,737
Manufactures	396	893	301	596	585	1,381	423
Exports, total	966	5,631	6,057	7,122	2,007	23,631	22,437
Crude and semicrude	--------	3,068	3,366	3,916	694	20,872	17,919
Manufactures	--------	2,563	2,691	3,206	1,373	2,759	4,518
Quantities, 1,000 pounds:							
Imports (crude and semicrude)	25,095	39,299	41,997	25,461	21,291	28,673	36,168
Exports (crude and semicrude)	(4)	9,408	12,642	17,330	3,970	74,170	55,682

[1] Includes sintered.
[2] No production in Tennessee since 1928.
[3] Includes data for Virginia.
[4] No data.
[5] F. o. b. mines.

Sources: Table 808, Iron Age, published Jan. 2, 1941, and American Iron and Steel Institute, annual report; table 809, Department of the Interior, Bureau of Mines, Minerals Yearbook.

No. 810.—Copper—Production, Exports, Imports, and Consumption: 1910 to 1940

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	1938	1939	1940
Unrefined copper								
Ore produced (million short tons) [1]	28.5	36.8	53.1	47.4	19.1	[2] 37.8	55.2	(3)
Average copper yield, percent	1.88	1.63	1.54	1.43	1.89	1.34	1.25	(3)
Smelter output from domestic ore	1,080.2	1,209.1	1,674.9	1,394.4	762.6	1,124.7	1,425.3	1,818.2
Mine production	1,088.2	1,224.6	1,678.1	1,410.1	761.0	1,115.5	1,456.6	1,756.2
Imports, unrefined: [4]								
Ore (copper content)	64.2	52.0	107.6	101.3	15.3	15.0	[5] 12.3	[5] 22.6
Concentrates (copper content)	21.0	46.8	54.0	56.9	60.4	124.5	[5] 124.3	[5] 143.1
Matte and regulus (copper content)		17.6	1.7	4.7	5.5	5.0	5.7	120.2
Unrefined, in bars, pigs, etc.	[6] 259.2	244.7	379.3	560.5	395.9	353.6	490.3	556.4
Refined copper production								
Total new and old copper	1,611.0	2,151.0	3,045.0	3,091.0	2,075.4	2,304.5	3,018.4	3,691.2
New copper (primary)	1,422.0	1,526.2	2,204.6	2,157.1	1,177.6	1,584.8	2,019.0	2,627.1
Domestic	1,071.9	1,182.4	1,682.9	1,391.2	676.6	1,105.1	1,409.7	1,854.5
Foreign	350.1	343.7	521.7	765.8	501.0	479.7	609.3	772.6
Electrolytic	1,128.3	1,351.7	2,050.6	1,993.6	[7] 1,103.7	[7] 1,512.6	[7] 1,934.1	[7] 2,539.9
Lake	221.5	153.5	138.0	143.0	[7] 73.6	[7] 72.0	[7] 84.9	[7] 87.3
Casting and best select	72.3	[8] 21.0	15.9	20.5	.3	.2	--------	--------
Secondary copper (from new and old scrap)	189.0	624.9	840.4	934.4	897.8	719.6	[9] 999.4	[9] 1,064.1
Refined copper consumption								
New copper produced (refinery)	1,422.0	1,526.2	2,204.6	2,157.1	1,177.6	1,584.8	2,019.0	2,627.1
Refined copper imported [4]	(6)	108.7	99.8	86.2	36.1	3.6	32.5	136.7
Refined copper exported	[10] 703.3	[10] 553.1	1,022.3	669.3	550.0	770.4	792.8	754.2
Stocks, Dec. 31 (refined)	122.8	659.0	124.0	615.0	350.0	362.0	191.0	183.0
Withdrawn on domestic account:								
New refined copper	732.4	1,053.8	1,401.0	1,265.0	882.7	814.0	1,429.7	2,017.6
New and old copper	921.0	1,679.0	2,241.0	2,199.0	1,780.0	1,533.6	2,429.1	3,081.7

[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] For immediate consumption plus copper entering under bond.
[5] Ore from the Philippine Islands included under concentrates.
[6] Imports of refined copper in ingots, bars, or other forms included in imports of unrefined.
[7] Some copper from Michigan was electrolytically refined and is included with electrolytic.
[8] Includes pig. [9] Includes 3,200 tons in chemicals in 1939 and 9,431 in 1940.
[10] Includes small exports of unrefined black blister and converter copper (bars, pigs, etc.).

No. 811.—Copper—Smelter Production, by State of Origin of Ore: 1910 to 1940

[Quantities in thousands of pounds]

State of origin	1910	1920	1925	1930	1935	1938	1939	1940
Total	1,080,160	1,209,061	1,674,870	1,394,389	762,587	1,124,657	1,425,349	1,818,168
Alaska	4,311	66,094	72,204	36,380	14,602	33,493	304	128
Arizona	297,251	552,989	722,653	570,897	278,519	420,351	525,411	574,533
California	45,760	11,822	46,944	26,262	1,630	1,681	8,491	13,092
Colorado	9,307	4,283	3,163	12,944	14,341	30,564	25,549	26,373
Idaho	6,878	1,922	3,144	2,714	2,125	5,611	4,632	7,379
Michigan	221,463	153,484	138,030	142,986	73,812	75,281	89,403	91,487
Missouri	--------	533	12	2	85	626	1,020	1,638
Montana	283,079	177,744	270,605	198,796	157,760	156,250	203,512	258,141
Nevada	64,495	55,580	77,138	87,475	72,819	93,656	128,845	157,242
New Mexico	3,785	52,160	76,467	74,188	4,560	43,913	74,084	140,969
Oregon	22	2,529	126	230	372	89	96	203
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	229,877	326,117	497,464
Washington	65	2,126	1,185	1,405	81	12,494	16,756	21,022
Undistributed	1,127	92	117	[2] 31,280	[2] 20,909	[2] 20,771	[2] 21,131	[2] 28,498

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

Source of tables 810 and 811: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 812.—Copper—Smelter and Refinery Output: 1850 to 1940

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 810.

[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	1917	1,886	514,911	2,428	1,886	542	767
1860	16	3,709	1918	1,909	471,408	2,432	1,883	549	705
1870	28	5,997	1919	1,286	239,274	1,805	1,433	372	574
			1920	1,209	222,467	1,526	1,182	344	625
1871–1875	34	8,895	1921	506	65,221	951	609	341	435
1876–1880	50	9,679	1922	950	128,289	1,256	905	351	672
1881–1885	118	17,236	1923	1,435	210,945	1,980	1,464	516	822
1886–1890	226	30,345	1924	1,634	214,087	2,260	1,674	586	777
1891–1895	339	37,266	1925	1,675	237,832	2,205	1,683	522	840
1896–1900	531	74,424	1926	1,740	243,547	2,322	1,731	591	960
1901–1905	732	103,859	1927	1,684	220,609	2,326	1,719	607	980
1906–1910	980	150,924	1928	1,826	262,930	2,488	1,792	696	1,073
1911–1915	1,221	185,592	1929	2,003	352,504	2,740	1,983	757	1,253
1916–1920	1,644	395,270	1930	1,394	181,271	2,157	1,391	766	934
1921–1925	1,240	171,275							
1926–1930	1,729	252,172	1931	1,043	94,887	1,501	1,075	427	694
1931–1935	658	52,066	1932	544	34,273	681	445	236	496
			1933	450	28,800	742	481	260	676
1910	1,080	137,180	1934	489	39,076	891	466	425	755
1911	1,097	137,154	1935	763	63,295	1,178	677	501	898
1912	1,243	205,139	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	152,908	1938	1,125	110,216	1,585	1,105	480	720
1915	1,388	242,902	1939	1,425	148,236	2,019	1,410	609	999
1916	1,928	474,288	1940	1,818	205,453	2,627	1,854	773	1,064

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

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

No. 813.—Copper—Exports and Imports: 1891 to 1940

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	1930	376,647	105,342	408,577	104,616
1896–1900[1]	137,684	36,745	24,634	5,866	1931	278,937	54,748	202,946	48,745
1901–1905[1]	190,451	54,942	83,237	22,611	1932	164,111	21,236	195,996	23,735
1906–1910[1]	289,445	92,334	130,111	38,026	1933	174,627	24,917	[3] 126,639	[3] 14,834
1911–1915[1]	416,840	123,655	176,635	46,129	1934	312,743	49,765	[3] 199,538	[3] 27,786
1916–1920[2]	376,877	208,909	244,948	103,805	1935	302,873	48,933	[3] 240,528	[3] 33,213
1921–1925	438,337	129,761	298,975	77,811	1936	262,417	50,663	[3] 183,788	[3] 20,884
1926–1930	491,290	149,999	407,630	108,244	1937	350,317	93,626	[3] 227,479	[3] 52,562
1931–1935	246,658	39,920	211,116	29,662	1938	422,014	86,809	[3] 205,718	[3] 37,872
1928	562,510	169,831	393,537	98,187	1939	427,579	97,185	[3] 230,669	[3] 44,280
1929	499,237	183,405	487,156	153,710	1940	427,944	110,119	[3] 364,997	[3] 73,492

[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. 814.—Lead, Recoverable—Mine Production, by States and for Alaska: 1920 to 1940

[In short tons (2,000 pounds)]

STATE	1920	1925	1930	1935	1937	1938	1939	1940 [1]
Total	496,814	684,439	558,313	331,103	464,892	369,726	413,979	457,392
Western States and Alaska	248,131	364,387	312,413	193,439	254,468	202,953	209,214	244,974
Alaska	875	789	1,365	670	823	994	937	779
Arizona	6,935	11,938	4,246	7,783	12,354	10,571	10,771	13,266
Colorado	23,315	31,483	22,130	5,673	9,786	9,455	8,222	11,476
Idaho	118,565	126,521	134,058	79,020	103,711	92,177	90,981	104,834
Montana	14,846	18,765	10,653	15,589	17,957	9,327	16,555	23,036
Nevada	10,100	12,238	11,529	12,676	9,347	4,679	4,236	7,499
New Mexico	1,435	3,210	10,378	7,289	6,512	4,949	5,392	3,822
Utah	66,898	153,335	115,495	63,510	89,458	65,657	67,634	75,688
Washington	2,749	2,814	576	103	2,830	4,284	3,718	2,555
Other	2,413	3,204	1,983	1,126	1,690	800	768	2,019
Central States	240,780	317,375	237,533	132,082	204,885	158,873	198,481	207,587
Kansas	16,452	22,775	12,910	10,892	16,008	15,239	13,607	11,927
Missouri	161,812	211,566	199,632	97,493	157,631	122,027	156,281	172,052
Oklahoma	64,086	79,946	23,052	23,405	29,840	21,004	27,720	21,240
Other	4,430	3,088	1,939	892	1,406	603	783	2,368
Eastern States	[2] 1,903	2,677	8,367	4,982	5,539	7,900	6,284	4,831
New York								1,973
Tennessee	1,880	448	8,367	4,982	5,530	7,896	6,284	573
Virginia		2,229						2,285
North Carolina						4		

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

No. 815.—Lead—Production of Refined Primary and Secondary Lead, 1830 to 1940, and by Class and Source, 1880 to 1940

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	1907	413,389	43,819	1924	690,493	110,479
1840	17,000	1,666	1908	396,564	33,311	1925	766,969	133,453
1850	22,000	2,112	1909	446,909	38,434	1926	798,941	127,831
1860	15,600	1,778	1910	470,272	41,384	1927	796,530	100,363
1870	17,830	2,247	1911	486,979	43,828	1928	781,071	90,604
1880	95,725	9,573	1912	480,894	43,280	1929	774,633	97,604
1885	126,192	10,095	1913	462,460	40,696	1930	643,033	64,303
1890	157,844	14,206	1914	542,122	42,286	1931	442,764	32,765
1895	235,822	15,093	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
1905	388,307	36,501	1922	532,662	58,593	1939	484,035	45,499
1906	404,746	46,141	1923	618,322	86,565	1940	533,179	53,318

YEAR	Class: Desilverized [1] [2]	Class: Soft undesilverized [2]	Source: Domestic ores and bullion [3]	Source: Foreign ores	Source: Foreign base bullion	Average value per pound	Antimonial lead, at primary refineries	Secondary lead recovered, total
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
1935	227,777	96,783	310,505	13,659	396	.040	16,384	270,400
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
1939	345,705	138,330	420,967	24,652	38,416	.047	21,995	241,500
1940	379,856	153,323	433,065	83,563	16,551	.050	29,762	260,346

[1] Desilverized soft lead is included.
[2] Soft lead, both desilverized and undesilverized, includes lead derived from Missouri ores and other nonargentiferous ores. [3] Excludes lead content of antimonial lead. [4] Not available.

Source of tables 814 and 815: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 816.—Lead—Supply and Distribution of Refined Primary Pig

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	1938	1939	1940
Supply, total	473, 836	565, 610	779, 035	644, 570	325, 882	385, 574	489, 423	683, 068
Stock in bonded warehouses [1]	79	234	5, 045	1, 328	(2)	(2)	(2)	(2)
Imports of pigs, bars, and old	3, 485	35, 719	7, 021	209	[3] 1, 322	1, 905	5, 388	149, 889
Production from domestic and foreign ore	470, 272	529, 657	766, 969	643, 033	324, 560	383, 669	484, 035	533, 179
Deductions, total	69, 861	21, 415	111, 681	49, 635	6, 982	[4] 45, 866	74, 392	49, 079
Exports of pigs, bars, etc.[5]	69, 786	20, 093	103, 519	48, 307	6, 982	[4] 45, 866	74, 392	49, 079
Stock in bonded warehouses [1]	75	1, 322	8, 162	(2)	(2)	(2)	(2)	(2)
Apparent deliveries to domestic consumers	403, 975	544, 195	667, 354	594, 935	318, 900	339, 708	415, 031	633, 989

[1] Data under supply are as of Jan. 1; under deductions, as of Dec. 31.
[2] 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 and subsequent years, stocks in warehouse are estimated to have remained unchanged from beginning of the year.
[3] Includes some old, reclaimed, and scrap lead. [4] Includes a small quantity of "sheets."
[5] Includes small quantities of foreign lead reexported for all years shown except 1938 and 1939.

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

No. 817.—Nonferrous Metals and Alloys, and Finished Products Thereof—Production, by Kind: 1935, 1937, and 1939

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 are as follows: "Alloying; and rolling and drawing of nonferrous metals, except aluminum;" "Secondary smelting and refining of nonferrous metals, not elsewhere classified;" "Nonferrous metal foundries (except aluminum);" and "Nonferrous metal products not elsewhere classified." No data are included for production of copper, lead, zinc, and other nonferrous metals from the ore nor of secondary metals by establishments engaged in primary smelting and refining of nonferrous metals.

Kind	Tons (2,000 pounds)			Value (thousands of dollars)		
	1935	1937	1939	1935	1937	1939
Ingots and pigs:						
Brass and bronze	74, 388	138, 762	114, 208	[1] 14, 381	34, 348	25, 102
Antifriction-bearing metal	19, 638	40, 970	20, 900	[1] 6, 520	11, 674	7, 439
Solders, all kinds	38, 950	58, 546	56, 617	[1] 16, 720	28, 622	25, 409
Type metal	28, 381	34, 756	31, 901	[1] 4, 234	6, 258	5, 673
Copper, secondary	29, 281	39, 890	44, 458	4, 935	9, 499	9, 827
Lead, secondary	129, 512	125, 520	148, 822	11, 429	15, 437	15, 909
Zinc, secondary	31, 058	47, 918	44, 485	3, 044	6, 221	4, 955
Tin, secondary	2, 746	4, 924	5, 450	[1] 2, 712	4, 983	5, 422
Plates and sheets:						
Brass and bronze	153, 364	195, 822	186, 548	44, 606	78, 798	68, 452
Copper	93, 014	104, 366	105, 211	26, 143	36, 350	36, 282
Lead	17, 332	22, 503	23, 407	2, 309	3, 776	3, 440
Zinc	49, 931	63, 744	60, 908	8, 131	12, 342	10, 027
Nickel-alloys	14, 881	17, 899	25, 515	7, 713	10, 795	12, 145
Rods:						
Brass and bronze	94, 261	139, 743	135, 156	23, 894	43, 240	36, 949
Copper	111, 334	199, 374	204, 903	22, 387	44, 080	45, 364
Nickel-alloys and other nonferrous metals and alloys				6, 400	8, 760	8, 731
Extruded shapes				5, 966	6, 077	4, 568
Tubing (seamless) and pipe:						
Brass and bronze	47, 834	78, 865	70, 183	16, 626	34, 870	29, 735
Copper	33, 992	57, 999	67, 330	12, 039	26, 282	29, 386
Lead	16, 829	22, 965	17, 923	2, 455	3, 928	2, 706
Nickel-alloys	1, 304	1, 918	2, 478	1, 522	2, 165	2, 524
Other tubing, including brazed	(2)	(2)	3, 189	1, 399	2, 183	1, 547
Wire and wire products [3]				40, 459	83, 860	67, 848
Castings, rough:						
Brass and bronze	51, 598	126, 281	93, 371	[4] 19, 156	40, 354	37, 712
Copper	1, 820	3, 901	3, 296	[4] 771	2, 214	1, 777
Nickel-alloys [5]	1, 194	1, 513	1, 139	[4] 1, 123	1, 470	1, 087
Bells, cast				(2)	158	145
Finished products:						
Bearings and bushings (including antifriction linings)				21, 209	43, 255	37, 192
Die castings				20, 267	28, 073	28, 559
Castings, finished				4, 356	3, 475	3, 828
Forged and hot-pressed parts				2, 723	6, 837	5, 931
Fittings				(2)	6, 004	9, 247
Spun ware				(2)	2, 321	3, 557
Powder				(2)	(2)	1, 792

[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; secondary tin, $44,000. [2] Data not available.
[3] Values reported by establishments classified in this industry only. For total production, see table 802, p. 813.
[4] Not including the value of castings for which no quantity was reported as follows: Brass and bronze, $14,303,000; copper, $644,000; nickel alloys, $27,000. [5] Other than heat-corrosion resistant.

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

No. 818.—Zinc—Production of Ore, by States, Smelter Production, and Primary Slab Zinc Available for Consumption: 1910 to 1940

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	1938	1939	1940 [1]
Mine production (recoverable zinc content of ore)	327,618	587,524	710,847	595,425	517,903	516,703	583,807	665,068
Arizona	2,742	729	3,666	815	3,337	5,814	6,711	15,456
Colorado	38,545	24,395	30,811	36,259	1,202	4,553	1,830	5,060
Idaho	2,802	13,966	15,619	37,649	31,053	44,030	47,549	70,601
Kansas	13,229	61,073	118,778	74,304	54,110	73,024	68,971	57,032
Missouri	128,589	24,509	14,794	10,811	7,263	10,226	15,096	12,703
Montana	15,819	92,169	57,658	26,421	54,781	8,844	34,799	52,587
Nevada	1,354	5,349	7,411	14,584	15,536	8,944	6,228	11,833
New Jersey	68,584	78,511	89,261	97,626	85,708	85,839	88,716	91,406
New Mexico	9,044	5,007	9,246	32,765	22,126	28,236	29,356	30,313
New York	----------	5,654	5,158	22,471	23,720	29,896	36,014	35,686
Oklahoma	6,394	219,727	283,371	136,153	129,763	112,924	140,379	162,935
Tennessee	966	19,217	16,256	[2] 48,147	[2] 48,832	[2] 56,766	[2] 56,225	[2] 51,723
Utah	8,184	4,079	26,306	44,495	31,107	33,658	34,526	43,788
Washington	----------	213	609	352	1	11,402	10,131	11,560
Wisconsin	25,927	27,285	20,230	12,558	8,923	2,073	5,904	5,770
Other States	5,439	5,641	11,673	15	441	474	1,372	6,615
Smelter production (excluding remelted secondary zinc)	281,968	484,748	612,127	532,894	449,284	477,954	557,664	724,192
Primary zinc	269,184	463,377	572,946	498,045	420,634	446,341	507,236	675,275
From domestic ore	252,479	450,045	555,631	489,361	412,184	436,007	491,058	589,988
From foreign ore	16,705	13,332	17,315	8,684	[3] 8,450	[3] 10,334	[3] 16,178	[3] 85,287
Secondary, redistilled	12,784	21,371	39,181	[4] 34,849	28,650	31,613	50,428	48,917
Value of primary product from domestic ore ($1,000)	27,268	72,907	84,456	46,979	36,272	41,857	51,070	74,338
Primary slab zinc:								
Supply, total	281,379	500,170	593,700	584,230	549,861	532,715	695,707	775,471
Stock at smelters, Jan. 1	11,206	36,793	20,754	85,904	124,783	79,144	157,511	83,728
Production	269,184	463,377	572,946	498,045	420,634	446,341	507,236	675,275
Imports for consumption	989	([5])	([5])	281	4,444	7,230	30,960	[6] 16,468
Deductions:								
Exports	[7] 3,990	102,178	76,351	4,633	1,617	[8] 200	4,515	79,091
Stock at smelters, Dec. 31	23,232	71,037	13,080	167,293	90,539	157,511	83,728	19,212
Apparent deliveries to domestic consumers	254,157	326,955	504,269	412,304	457,705	375,004	607,464	677,168

[1] Preliminary. [2] Includes Virginia.
[3] Derived from Mexican ores in 1935; mostly from Peru in 1938; from Mexico, Peru, and Argentina in 1939; and principally from Mexico, Canada, Newfoundland, and Peru in 1940.
[4] Includes small quantity of secondary electrolytic zinc. [5] Less than one-half of 1 ton.
[6] General imports. [7] Includes plates and sheets; not separately reported.
[8] Estimated; not separately recorded.

No. 819.—Zinc, Primary—Smelter Production From Domestic Ore: 1875 to 1940

[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	1931	291,996	22,192
1880 [3]	23,239	2,277	1926–1930	576,395	73,119	1932	207,148	12,420
1885	40,688	3,540	1931–1935	314,541	25,432	1933	306,010	25,705
1886–1890	54,285	5,219	1924	515,831	67,058	1934	355,366	30,561
1891–1895	82,396	6,787	1925	555,631	84,456	1935	412,184	36,272
1896–1900	109,963	10,180	1926	611,991	91,799	1936	491,803	49,180
1901–1905	169,504	17,067	1927	576,960	73,851	1937	551,165	71,651
1906–1910	219,378	24,165	1928	591,525	72,166	1938	436,007	41,857
1911–1915	346,867	52,416	1929	612,136	80,802	1939	491,058	51,070
1916–1920	508,731	90,812	1930	489,361	46,979	1940	589,988	74,338

[1] Values at New York prices through 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 of tables 818 and 819: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 820.—Gold and Silver—Production in Continental United States, Alaska, Puerto Rico, and Philippine Islands: 1792 to 1940

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	1909	4,822	54,722	28,455
1848–1850	4,838	116	152	1910	4,657	57,138	30,855
1851–1855	14,271	194	259				
1856–1860	12,884	309	418	1911	4,687	60,399	32,616
1861–1865	10,716	28,811	38,674	1912	4,521	63,767	39,198
				1913	4,300	66,802	40,348
1866–1870	12,226	49,113	65,261	1914	4,573	72,455	40,068
1871–1875	8,826	121,083	156,270	1915	4,888	74,961	37,397
1876–1880	10,301	157,681	182,506				
1881–1885	7,730	182,841	202,807	1916	4,479	74,415	48,953
1886–1890	8,078	231,819	227,495	1917	4,051	71,740	59,078
				1918	3,321	67,810	66,485
1891–1895	9,107	287,057	227,960	1919	2,919	56,682	63,534
1896–1900	15,729	279,544	172,689	1920	2,476	55,362	60,802
1901–1905	19,394	278,798	159,543				
1906–1910	22,993	277,333	162,916	1921	2,422	53,052	[1] 53,052
1911–1915	22,968	338,384	189,626	1922	2,363	56,240	[1] 56,240
				1923	2,503	73,335	[1] 60,135
1916–1920	17,246	326,009	298,852	1924	2,529	65,407	43,823
1921–1925	12,229	314,190	259,162	1925	2,412	66,155	45,912
1926–1930	11,259	293,692	159,829				
1931–1935	14,102	156,565	77,948	1926	2,335	62,719	39,136
				1927	2,197	60,434	34,266
1897	2,775	53,860	32,316	1928	2,233	58,463	34,201
1898	3,118	54,438	32,118	1929	2,208	61,328	32,688
1899	3,437	54,765	32,859	1930	2,286	50,748	19,538
1900	3,830	57,647	35,741				
				1931	2,396	30,932	8,970
1901	3,806	55,214	33,128	1932	2,449	23,981	6,763
1902	3,870	55,500	29,415	1933	2,556	23,003	8,051
1903	3,560	54,300	29,322	1934	3,091	32,725	[2] 21,156
1904	3,892	57,683	33,456	1935	3,609	45,924	[2] 33,008
1905	4,266	56,102	34,222	1936	4,357	63,812	[2] 49,423
				1937	4,805	71,942	[2] 55,647
1906	4,565	56,518	38,256	1938	5,090	62,665	[2] 40,511
1907	4,375	56,515	37,300	1939	5,611	65,120	[2] 44,202
1908	4,574	52,441	28,051	1940	6,003	69,586	[2] 49,483

State or territory	Gold, 1,000 fine ounces					Silver, 1,000 fine ounces					Silver, value, 1940 (1,000 dollars)[2]
	1910	1920	1930	1939	1940	1910	1920	1930	1939	1940	
Total	4,657	2,476	2,286	5,611	6,003	57,138	55,362	50,748	65,120	69,586	49,483
Alaska	787	413	407	671	757	154	822	392	298	173	123
Arizona	165	240	149	315	299	2,656	5,432	4,910	7,436	6,130	4,359
California	989	716	450	1,425	1,444	1,792	1,655	1,434	2,604	2,225	1,582
Colorado	993	363	218	371	369	8,523	5,167	4,852	8,206	9,378	6,669
Idaho	50	23	21	115	145	7,027	7,365	9,710	17,239	17,477	12,428
Michigan						262	512	11	102	90	64
Montana	180	92	47	256	273	12,283	13,263	8,597	8,927	12,152	8,641
Nevada	913	175	140	351	380	12,366	7,482	4,179	4,517	5,102	3,628
New Mexico	23	22	32	36	39	779	700	1,160	1,262	1,576	1,121
Oregon	33	50	14	91	114	44	102	10	111	192	136
South Dakota	260	210	406	618	567	121	88	105	171	171	121
Texas	(3)	(3)	(3)	(3)	(3)	364	523	469	1,380	1,295	921
Utah	209	103	209	267	352	10,446	11,755	14,451	10,844	11,686	8,310
Washington	39	7	4	86	84	205	178	30	428	389	277
Philippine Islands	7	62	185	991	1,140	2	22	121	1,248	1,299	924
Other	8	(3)	3	18	20	115	296	317	347	251	179

[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] Value 1934–37 calculated on basis of average amount per ounce returned to depositors of newly-mined domestic silver: 1934, $0.64+ per fine ounce; 1935, $0.71875; 1936, $0.7745; 1937, $0.7735. Value thereafter calculated on basis of amount per fine ounce returned to depositors of newly-mined domestic silver produced: In 1938, $0.6464+; 1939, $0.6787+; 1940, $0.7111. [3] Less than 500 ounces.

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

No. 821.—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 ounces				
	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	28,050	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
1932	1,000	[2] *27,490*	[2] *26,490*	26,595	20,105	77	14,384	14,461	9,797	24,258
1933	100	[2] *25,893*	[2] *25,793*	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] *32,461*	[2] *32,461*	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] *324*	[2] *324*	30,481	30,157	77	20,104	20,182	18,439	38,620
1939		7,461	7,461	31,328	38,789	77	44,536	44,613	24,972	69,585
1940		13,306	13,306	27,872	41,178	77	44,422	44,499	22,564	67,063

[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. 822.—Silver—Prices, London and New York, and Value in the Dollar: 1835 to 1940

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		1913	0.605	0.612	0.651	0.580	34.19	0.468
1840	1.323				15.62	1.023	1914	.553	.563	.609	.490	37.37	.428
1845	1.298				15.92	1.004	1915	.519	.511	.580	.478	40.48	.401
1850	1.316				15.70	1.018	1916	.686	.672	.791	.573	30.78	.531
1855	1.344				15.38	1.039	1917	.895	.840	1.105	.731	24.61	.692
1860	1.352				15.29	1.045	1918	1.042	.984	1.019	.889	21.00	.761
1865	1.338				15.44	1.035	1919	1.250	1.121	1.383	1.014	18.44	.867
1870	1.328				15.57	1.027	1920	1.346	1.019	1.379	.604	20.28	.788
1875	1.242	1.239	1.261	1.210	16.64	.961	1921	.805	.631	.738	.532	32.76	.488
1880	1.145	1.139	1.150	1.113	18.05	.886	1922	.754	.679	.742	.629	30.43	.525
1885	1.065	1.064	1.095	1.028	19.41	.824	1923	.700	.652	.690	.629	31.69	.505
1890	1.046	1.053	1.205	.958	19.75	.809	1924	.745	.671	.724	.630	30.80	.519
1895	.654	.663	.690	.600	31.60	.506	1925	.703	.694	.732	.668	29.78	.537
1899	.602	.605	.648	.586	34.36	.465	1926	.629	.624	.689	.518	33.11	.483
1900	.620	.621	.658	.598	33.33	.480	1927	.571	.567	.603	.542	36.47	.438
1901	.596	.597	.645	.548	34.68	.461	1928	.586	.585	.639	.568	35.34	.452
1902	.528	.528	.569	.474	39.15	.408	1929	.536	.533	.578	.468	38.78	.412
1903	.543	.542	.624	.475	38.10	.420	1930	.387	.385	.472	.311	53.74	.298
1904	.579	.578	.625	.534	35.70	.448	1931	.292	.290	.376	.261	71.25	.224
1905	.610	.610	.665	.556	33.87	.472	1932	.281	.282	.313	.246	73.29	.218
1906	.677	.674	.724	.631	30.54	.524	1933	.346	.350	.453	.248	59.06	.271
1907	.662	.660	.710	.528	31.24	.512	1934	.481	.483	.561	.421	72.49	.373
1908	.535	.535	.589	.483	38.64	.414	1935	.639	.646	.813	.501	54.19	.500
1909	.520	.522	.545	.508	39.74	.402	1936	.449	.454	.501	.451	77.09	.351
1910	.541	.542	.576	.508	38.22	.418	1937	.447	.452	.471	.451	77.44	.350
1911	.539	.540	.575	.521	38.33	.417	1938	.430	.435	.451	.431	80.39	.337
1912	.615	.620	.656	.553	33.62	.475	1939	.408	.394	.431	.351	88.84	.305
							1940	.384	.351	.352	.351	99.76	.271

Source of tables 821 and 822: Treasury Dept., Bureau of the Mint; Annual Report of the Director.

No. 823.—Coke—Production, Exports, and Imports: 1896 to 1940

Yearly average or year	Production in thousands of short tons (2,000 pounds)			By-product ovens, percent 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
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	1,098	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	32,496	837	31,658	97.4	167,182	487	135
1939	44,327	1,444	42,882	96.7	212,884	590	142
1940	57,072	3,058	54,014	94.6	273,832	804	113

[1] Before 1934, figures represent general imports; thereafter, imports entered for consumption.

No. 824.—Coke—Byproduct and Beehive Production, by States: 1915 to 1940

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

	1915	1920	1925	1930	1935	1937	1938	1939	1940
BYPRODUCT									
Total	14,073	30,834	39,912	45,196	34,224	49,211	31,658	42,882	54,014
Alabama	2,070	3,124	4,582	3,987	1,994	4,260	3,378	3,855	4,727
Colorado	-------	517	490	379	207	487	187	398	544
Illinois	1,687	2,137	3,012	3,576	1,669	2,999	1,735	1,884	3,015
Indiana	2,768	4,554	5,142	4,984	3,768	5,467	2,905	4,878	6,413
Maryland	318	682	1,019	1,169	930	1,514	1,105	1,579	1,683
Massachusetts	504	488	535	863	1,006	1,131	1,019	1,057	1,130
Michigan	(1)	1,393	1,751	2,604	2,482	2,284	1,743	2,431	2,872
Minnesota	128	675	518	641	430	705	540	497	524
New Jersey	269	726	904	919	917	1,015	1,007	1,003	1,016
New York	684	1,040	2,220	3,850	4,099	4,947	3,945	4,468	5,080
Ohio	666	5,615	7,105	6,163	5,101	6,738	3,700	6,136	7,898
Pennsylvania	3,092	7,730	9,853	12,529	8,078	13,701	7,119	10,994	14,862
West Virginia	141	447	1,056	1,479	1,604	1,818	1,347	1,598	1,900
All other States	1,749	1,706	1,725	2,051	1,939	2,147	1,928	2,104	2,350
BEEHIVE									
Total	27,508	20,511	11,355	2,776	917	3,165	837	1,444	3,058
Pennsylvania	22,531	15,908	9,574	2,011	564	2,559	482	1,126	2,550
Ohio	19	87	156	-------	-------	-------	-------	-------	-------
West Virginia	1,250	1,381	490	422	155	279	154	88	233
Alabama	1,001	890	88	-------	-------	-------	-------	-------	-------
Kentucky	285	273	(1)	-------	-------	-------	-------	-------	-------
Tennessee	234	163	128	25	3	15	6	-------	5
Virginia	630	1,028	422	220	138	240	134	165	198
Colorado	671	273	155	79	49	64	55	57	62
Utah	(1)	(1)	146	7	6	7	8	8	7
All other States	887	509	196	12	2	-------	-------	-------	1

[1] Included in figure for "all other States."

Source of tables 823 and 824: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 825.—Coal—Production, 1821 to 1940, and by States, 1916 to 1940

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	1918	678,212	98,826	579,386	336,480	1,491,810
1831–1840	1,032	722	310	1919 [1]	553,952	88,092	465,860	364,927	1,160,616
1841–1850	4,535	2,697	1,837	1920	658,265	89,598	568,667	434,252	2,129,933
1851–1860	12,513	7,645	4,868	1921 [1]	506,395	90,473	415,922	452,305	1,199,984
1861–1865	20,538	11,142	9,396	1922	476,951	54,683	422,268	273,700	1,274,820
1866–1870	31,706	16,281	15,425	1923	657,904	93,339	564,565	506,787	1,514,621
1871–1875	52,179	23,407	28,773	1924 [1]	571,613	87,927	483,687	477,231	1,062,626
1876–1880	62,261	25,800	36,461	1925 [1]	581,870	61,817	520,053	327,665	1,060,402
1881–1885	107,291	36,198	71,093	1926 [1]	657,804	84,437	573,367	474,164	1,183,417
1886–1890	138,398	43,952	94,446	1927 [1]	597,859	80,096	517,763	420,942	1,029,652
1891–1895	178,822	53,405	125,416	1928 [1]	576,093	75,348	500,745	393,638	933,774
1896–1900	227,123	55,625	171,498	1929 [1]	608,817	73,828	534,989	385,643	952,781
1901–1905	339,357	66,854	272,503	1930 [1]	536,911	69,385	467,526	354,574	795,483
1906–1910	454,555	81,142	373,413	1931 [1]	441,735	59,646	382,089	296,355	588,895
1911–1915	529,189	89,233	439,956	1932 [1]	359,565	49,855	309,710	222,275	406,677
1916–1920	626,386	92,741	533,645	1933 [1]	383,172	49,541	333,631	206,718	445,788
1921–1925	558,947	77,648	481,299	1934 [1]	416,536	57,168	359,368	244,152	628,383
1926–1930 [1]	595,497	76,619	518,878	1935 [1]	424,532	52,159	372,373	210,131	658,063
1931–1935 [1]	405,108	53,674	351,434	1936 [1]	493,668	54,580	439,088	227,004	770,955
1914	513,525	90,822	422,704	1937 [1]	497,387	51,856	445,531	197,599	[2] 864,042
1915	531,619	88,995	442,624	1938 [1]	394,644	46,099	348,545	180,600	[2] 678,653
1916	590,098	87,578	502,520	1939 [1 3]	444,552	51,487	393,065	187,175	[2] 728,234
1917	651,402	99,612	551,791	1940 [1 3]	504,730	51,485	453,245	205,490	[2] 861,166

State	1916–1920	1921–1925	1926–1930 [1]	1931–1935 [1]	1936 [1]	1937 [1]	1938 [1]	1939 [1 3]	1940 [1 3]
Total quantity	**626,386**	**558,947**	**595,497**	**405,108**	**493,668**	**497,387**	**394,644**	**444,552**	**504,730**
Anthracite (Pa.)	92,741	77,648	76,619	53,674	54,580	51,856	46,099	51,487	51,485
Bituminous	533,645	481,299	518,878	351,434	439,088	445,531	348,545	393,065	453,245
Alabama	17,834	18,097	18,380	9,252	12,229	12,440	11,062	11,995	15,150
Arkansas	1,980	1,261	1,579	1,012	1,623	1,511	1,197	[4] 2,300	[4] 3,163
Colorado	11,595	10,049	9,665	5,711	6,812	7,187	5,663	5,890	6,516
Illinois	78,255	68,523	57,310	40,198	50,927	51,602	41,912	46,450	49,495
Indiana	25,515	21,677	18,467	14,386	17,822	17,765	14,759	16,650	18,565
Iowa	7,571	4,952	3,879	3,492	3,961	3,637	3,103	3,050	2,908
Kansas	6,556	3,927	3,215	2,270	2,944	2,893	2,654	[5] 6,195	[5] 6,736
Kentucky	30,108	43,743	61,116	38,130	47,522	47,086	38,545	42,805	48,400
Maryland	4,158	2,033	2,700	1,654	1,704	1,549	1,281	1,468	1,478
Michigan	1,301	976	705	492	626	562	494	434	440
Missouri	5,086	3,011	3,538	3,624	3,985	4,091	3,436	(6)	(6)
Montana	4,008	2,881	3,139	2,396	2,988	2,965	2,732	2,810	2,974
New Mexico	3,728	2,772	2,612	1,338	1,597	1,715	1,230	1,206	1,081
North Dakota	787	1,221	1,622	1,750	2,215	2,251	2,050	2,089	[7] 2,256
Ohio	40,609	31,590	21,111	19,151	24,110	25,178	18,591	19,632	22,092
Oklahoma	4,292	2,741	3,346	1,368	1,540	1,600	1,245	(8)	(8)
Pennsylvania	168,532	133,721	137,038	86,592	109,887	111,002	77,705	92,190	112,907
Tennessee	6,208	5,078	5,544	4,062	5,108	5,213	4,472	5,280	6,010
Texas	1,980	1,084	1,107	738	843	910	879	810	661
Utah	4,693	4,593	4,683	2,846	3,247	3,810	2,947	3,340	3,524
Virginia	10,158	10,648	12,521	8,923	11,662	13,795	12,283	13,230	14,950
Washington	3,576	2,626	2,513	1,555	1,812	2,002	1,567	1,690	1,688
West Virginia	86,369	97,044	136,315	95,748	117,926	118,646	93,288	107,938	126,302
Wyoming	8,555	6,812	6,526	4,545	5,781	5,918	5,204	5,388	5,748
Other States and Alaska	190	239	246	201	217	203	237	230	201

[1] Exclusive of product of wagon mines. [2] Estimated from various sources; includes selling expenses, except for 1939, when estimates were based on incomplete returns to Bureau of Census, excluding expenses except in a few cases.
[3] Preliminary. [4] Includes Oklahoma. [5] Includes Missouri.
[6] Included with Kansas. [7] Includes South Dakota. [8] Included with Arkansas.

Source: Department of the Interior, Bureau of Mines and Bituminous Coal Division; Minerals Yearbook and Bituminous Coal Tables, 1938–1939.

No. 826.—Coal—Exports, Imports, and Bunker Coal Laden on Vessels in Foreign Trade: 1891 to 1940

[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	68,362	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
1921-1925	19,852	124,958	3,502	38,476	16,350	86,482	1,833	11,364	4,908	31,588
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	20,268
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	10,803	51,464	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] 701	[6] 4,570	1,448	7,403
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
1939	12,661	62,698	2,313	19,920	10,349	42,778	[6] 583	[6] 3,376	1,318	7,131
1940	17,084	82,043	2,382	21,210	14,702	60,832	[6] 453	[6] 2,477	1,273	6,859

[1] Not including fuel or bunker coal laden on vessels engaged in 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] Not including data for coal laden on vessels on Great Lakes in 1906, 1907, and 1908.
[6] Imports for consumption; general imports prior to 1933.

No. 827.—Coal—Shipments, Value, and Employment in Mines: 1890 to 1940

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—		Percent mined by machine	Capacity of mines [3] (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	5,650	-------	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
1938	41,064	2,722	2,313	-------	3.92	96,417	171	2.70	478	3.4	82
1939	45,992	3,081	2,414	-------	3.64	93,138	183	3.02	553	3.7	85
1940	46,176	3,053	2,256	-------	3.99	91,313	186	3.02	562	3.5	84
Bituminous											
1890	87,373	7,008	1,607	15,332	.99	192,204	226	2.56	579	[5] 5.3	151
1895	106,287	8,340	2,086	18,404	.86	239,962	194	2.90	563	[6] 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	20,734	3,103	1,468	1.77	462,403	179	4.50	805	78.8	640
1938	312,239	32,453	2,493	1,360	1.95	441,333	162	4.89	790	79.9	663
1939 (prel.)	350,927	30,930	2,548	2,089	1.85	419,811	178	5.24	932	80.0	678

[1] Figures for bituminous coal represent average value per ton less selling expense (Bur. of Mines series) prior to 1937; thereafter, average gross realization including selling expense (Bit. Coal Div. 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] 1891. [6] 1896.

Sources: Table 826, 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 827, Dept. of Interior, Bur. of Mines, and Bituminous Coal Division; Minerals Year Book, except 1939 figures for bituminous coal, which were compiled by Dept. of Commerce, Bur. of Census, in cooperation with Bituminous Coal Div.; 16th Census reports, Mines and Quarries.

No. 828.—Bituminous Coal—Consumption, by Class of Consumer: 1889 to 1940

	1889	1899	1909	1919	1929	1937	1938	1939 [1]	1940 [1]
Consumption (million tons of 2,000 lbs.), total	95.8	190.3	370.3	481.7	519.6	428.5	344.7	378.0	430.7
Colliery fuel	1.4	3.1	9.5	11.1	4.7	3.1	2.5	2.8	3.2
Locomotive fuel, all steam roads	26.5	53.4	106.0	[2] 119.7	[2] 113.9	[2] 82.7	[2] 68.8	[2] 73.8	[2] 79.0
Bunkers, vessels in foreign trade	1.9	3.8	6.8	8.2	4.3	1.8	1.4	1.5	1.4
Coke ovens, beehive and byproduct	16.0	30.2	59.4	65.6	86.8	74.5	46.6	63.5	81.4
Electric public utilities [3]	(4)	7.6	18.7	35.1	44.9	44.8	40.2	46.2	53.4
All other uses [5]	50.0	92.2	169.9	242.0	265.0	221.7	185.2	190.1	212.3
Percent 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	.7	.7	.7	.8
Locomotive fuel, all steam roads	27.7	28.1	28.6	[2] 24.9	[2] 21.9	[2] 19.3	[2] 20.0	[2] 19.5	[2] 18.3
Bunkers, vessels in foreign trade	2.0	2.0	1.9	1.7	.8	.4	.4	.4	.3
Coke ovens, beehive and byproduct	16.7	15.9	16.0	13.6	16.7	17.4	13.5	16.8	18.9
Electric public utilities	(4)	4.0	5.0	7.3	8.6	10.4	11.7	12.2	12.4
All other uses	52.1	48.4	45.9	50.2	51.0	51.7	53.7	50.3	49.3

[1] Preliminary. [2] Class I roads; in 1940, total railway consumption was 80,454,720 net tons.
[3] Includes electric central stations and street railways through 1919. 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 and Bituminous Coal Division; Minerals Yearbook and Bituminous Coal Tables, 1938–39 (data were assembled from various original sources).

No. 829.—Strikes in Anthracite and Bituminous Coal Mining Industries, by Major Issues Involved: 1929 to 1940

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 411.

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:												
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
1939	25	3	5	17	22,664	2,813	1,057	18,794	77,909	3,773	15,271	58,865
1940	25	1	3	21	17,355	62	2,308	14,985	105,399	496	30,470	74,433
Bituminous:												
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
1939	25	2	11	12	355,383	1,102	346,524	7,757	7,302,556	22,243	7,191,984	88,329
1940	34	4	10	20	24,372	272	3,451	20,649	153,296	15,954	16,214	121,128

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. 830.—Coal for Household Use—Retail Prices, by Cities: 1929 to 1940

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	Pennsylvania anthracite, chestnut					Bituminous, high volatile, egg			
	1929	1932	1938	1939	1940 [1]	1939		1940	
	December 15					June 15	Dec. 15	June 15	Dec. 15 [1]
New England:									
Boston, Mass	15.50	13.50	13.35	13.00	13.75	[2] 9.20	[2] 9.51	[2] 9.56	[2] 9.56
Bridgeport, Conn	15.50	12.88	12.10	11.60	12.60	------	------	------	------
Fall River, Mass	16.25	14.25	13.50	13.50	13.50	[2] 9.00	[2] 9.40	[2] 9.00	[2] 9.00
Manchester, N. H	17.00	14.83	14.50	13.88	13.64	[2] 10.50	[2] 10.50	[2] 9.83	[2] 9.83
New Haven, Conn	15.25	14.00	13.00	13.00	13.50	------	------	------	------
Portland, Maine	16.80	15.60	12.50	13.00	13.50	[2] 6.67	[2] 8.21	[2] 8.25	[2] 8.25
Providence, R. I	16.00	14.50	13.78	13.22	13.45	[2] 7.76	[2] 8.10	[2] 8.00	[2] 8.54
Middle Atlantic:									
Buffalo, N. Y	13.32	12.21	11.85	11.20	11.72	[2] 6.50	[2] 6.50	[2] 6.13	[2] 6.18
Newark, N. J	13.46	12.00	11.25	10.20	10.96	------	------	------	------
New York, N. Y. [3]	14.08	12.29	11.25	10.46	11.71	[2] 7.32	[2] 7.33	[2] 7.56	[2] 7.76
Philadelphia, Pa	[4] 14.50	11.50	[5] 10.55	9.95	10.40	------	------	------	------
Pittsburgh, Pa. [6]	15.00	13.00	12.75	12.56	12.68	4.41	4.59	4.49	4.63
Rochester, N. Y	14.25	13.13	11.91	11.44	12.02	------	------	------	------
Scranton, Pa	9.92	9.00	7.81	7.40	7.71	------	------	------	------
East North Central:									
Chicago, Ill. [3 6]	16.40	15.50	15.25	14.49	14.78	8.42	9.55	9.18	9.68
Cincinnati, Ohio [5]	------	------	------	------	------	5.40	6.07	5.58	6.35
Cleveland, Ohio [3]	14.80	13.44	13.61	13.39	13.91	7.13	7.30	7.03	7.48
Columbus, Ohio [5]	------	------	------	------	------	6.06	6.30	6.12	6.54
Detroit, Mich. [3]	15.50	13.17	12.28	11.83	12.53	6.72	6.91	6.79	6.99
Indianapolis, Ind	------	------	------	------	------	6.61	6.71	6.54	7.17
Milwaukee, Wis	15.85	14.80	13.55	13.40	13.70	8.31	8.51	8.42	8.64
Peoria, Ill. [5 6]	------	------	------	------	------	*3.99*	*4.08*	*4.16*	*4.44*
Springfield, Ill. [5 6]	------	------	------	------	------	*4.69*	*4.69*	*4.69*	*4.00*
West North Central:									
Kansas City, Mo. [3]	[7] 12.55	[7] 10.63	[7] 10.07	[7] 9.93	[7] 10.76	[8] *6.07*	[8] *6.28*	[8] *6.24*	[8] *6.66*
Minneapolis, Minn	17.85	17.10	15.75	15.25	15.60	*9.59*	*9.90*	*9.55*	*10.00*
Omaha, Nebr	------	------	[7] 12.00	[7] 11.35	[7] 12.05	*8.50*	*8.88*	*8.83*	*8.92*
St. Louis, Mo. [3 6]	16.45	15.22	14.28	14.14	14.48	*5.23*	*5.90*	*5.52*	*6.80*
St. Paul, Minn	17.85	17.10	15.75	15.25	15.60	*9.59*	*9.90*	*9.55*	*10.00*
South Atlantic:									
Atlanta, Ga	------	------	------	------	------	6.25	7.50	6.13	7.50
Baltimore, Md	13.75	12.75	10.83	9.95	11.25	7.23	7.24	7.08	7.48
Charleston, S. C	------	------	------	------	------	9.50	9.50	9.50	9.50
Jacksonville, Fla	------	------	------	------	------	[8] 11.00	[8] 12.00	[8] 11.00	(9)
Norfolk, Va	14.00	13.00	13.00	13.00	13.00	7.50	7.50	6.25	8.00
Richmond, Va	15.00	13.50	12.92	12.70	12.75	7.68	8.21	7.50	8.05
Savannah, Ga	------	------	------	------	------	9.05	9.04	9.00	9.33
Washington, D. C	15.23	14.15	13.09	12.35	12.95	8.25	8.62	7.96	8.62
East South Central:									
Birmingham, Ala. [8]	------	------	------	------	------	5.50	5.82	5.55	6.29
Louisville, Ky	------	------	------	------	------	5.59	5.74	5.63	6.20
Memphis, Tenn	------	------	------	------	------	7.88	7.88	7.88	7.88
Mobile, Ala. [5]	------	------	------	------	------	8.21	9.07	8.29	9.34
West South Central:									
Dallas, Tex	[7] 15.50	[7] 14.00	[7] 12.83	[7] 12.83	[7] 12.83	[8] *10.38*	[8] *10.50*	[8] *10.25*	[8] *10.50*
Houston, Tex	------	[7] 14.67	[7] 14.50	[7] 14.50	[7] 14.50	[8] *11.25*	[8] *11.75*	[8] *10.91*	[8] *11.17*
Little Rock, Ark. [3]	[7] 13.50	[7] 10.75	[7] 8.67	[7] 8.42	(9)	[10] 8.51	[10] 8.71	[10] 8.25	(9)
New Orleans, La. [5]	------	------	[7] 15.10	[7] 14.28	[7] 14.28	9.69	10.71	9.69	10.71
Mountain:									
Butte, Mont. [6]	------	------	------	------	------	*11.25*	*11.25*	*11.13*	*11.13*
Denver, Colo. [3]	[11] 14.75	[11] 14.50	[12] 15.81	[12] 15.81	[12] 15.81	*7.60*	*7.56*	*7.59*	*8.23*
Salt Lake City, Utah [5]	------	------	------	------	------	[8] *7.62*	[8] *7.37*	[8] *7.35*	[8] *7.89*
Pacific:									
Los Angeles, Calif. [5]	------	------	------	------	------	[8] *16.57*	[8] *16.57*	[8] *16.31*	[8] *16.74*
Portland, Oreg	------	------	------	------	------	[8] *13.19*	[8] *13.19*	[8] *13.19*	[8] *13.48*
San Francisco, Calif. [3]	[13] 26.00	[13] 25.00	[13] 23.69	[13] 23.86	[13] 23.86	[8] *17.51*	[8] *17.51*	[8] *17.51*	[8] *17.51*
Seattle, Wash. [5 6]	------	------	------	------	------	*11.26*	*11.22*	*11.25*	*11.31*

[1] Preliminary. [2] Run of mine, low volatile. [3] Prices include sales tax, except for 1929 and 1932.
[4] Price is per ton of 2,240 pounds. [5] Price includes sales tax.
[6] Prices are on basis of 1-ton deliveries, except for 1929 and 1932, when they are on averages of 1 or more.
[7] Arkansas, egg or furnace. [8] Lump. [9] Insufficient data. [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 1941.

No. 831.—Coal—Average Retail Prices and Indexes for Large Cities Combined: 1929 to 1941

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
1929	$8.85	$14.14	$13.70	91.5	100.5	97.7
1932	7.71	12.55	12.45	79.7	89.2	88.7
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	11.61	87.1	83.5	82.7
1937	8.58	11.05	11.19	88.4	78.5	79.6
1938	8.61	10.96	11.11	88.7	77.9	79.1
1939	8.52	10.79	10.84	87.7	76.7	77.2
1940 [1]	8.60	11.33	11.35	87.9	80.5	80.8
1939						
June	8.28	10.47	10.55	85.2	74.4	75.1
December	8.68	10.84	10.83	89.2	77.0	77.1
1940						
June	8.36	11.02	11.04	85.5	78.3	78.6
December	[2] 8.86	11.59	11.59	[2] 90.2	82.4	82.5
1941						
March	[2] 8.88	11.63	11.66	[2] 90.3	82.7	83.0
June [1]	[2] 8.89	11.51	11.57	[2] 90.5	81.8	82.4

[1] Preliminary. [2] 35 cities.

No. 832.—Natural Gas and Natural Gasoline—Production, 1906 to 1940, and by States, 1925 to 1940

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				1933	1,555,474	368,540	1,551,464	1,420,000	54,368
1911–1915	575,708	88,492	11,602	30,317	2,481	1934	1,770,721	395,378	1,776,172	1,535,360	60,523
1916–1920	762,681	154,590	412,787	268,038	48,174	1935	1,916,595	429,374	1,822,000	1,651,986	70,940
1921–1925	947,419	229,002	820,445	762,151	82,205	1936	2,167,802	476,813	1,815,000	1,796,340	84,572
1926–1930	1,637,540	362,238	1,613,811	1,852,490	136,123	1937	2,407,620	528,354	2,108,800	2,065,434	97,125
1931–1935	1,697,043	394,148	1,687,902	1,592,613	59,761	1938	2,295,562	500,698	2,035,562	2,156,574	87,266
1930	1,943,421	416,090	2,088,778	2,210,494	128,160	1939	2,476,756	534,240	2,150,000	2,169,300	90,050
1931	1,686,436	392,816	1,790,119	1,831,918	63,732	1940 [1]	2,672,000	591,509	2,380,000	2,320,458	70,000
1932	1,555,990	384,632	1,499,756	1,623,800	49,244						

State	Natural gas produced and marketed					Natural gas consumed	Natural gasoline produced		
	1925	1930	1935	1938	1939	1939	1938	1939	1940 [1]
Total [2]	1,188,571	1,943,421	1,916,595	2,295,562	2,476,756	2,473,765	2,156,574	2,169,300	2,320,458
Arkansas	41,878	18,585	6,167	11,301	10,107	35,673	25,648	24,634	33,336
California	187,789	334,789	284,109	315,168	348,361	348,361	660,890	607,237	585,995
Illinois	4,165	2,890	1,448	1,169	2,746	77,134	2,436	4,012	21,432
Kansas	26,917	37,630	57,125	75,203	80,556	85,865	55,988	62,175	64,229
Kentucky	10,770	28,023	39,738	46,163	47,771	16,563	7,040	7,785	9,847
Louisiana	152,620	278,341	249,450	283,899	294,370	164,667	95,634	94,090	109,082
Michigan	(3)	2,075	4,203	10,165	10,726	27,316	3,581	2,971	3,955
Montana	1,496	10,060	19,870	21,216	23,178	[4] 19,765	1,768	2,161	2,604
New Mexico	(5)	9,497	27,931	[6] 50,706	60,284	38,981	49,596	54,707	55,360
New York	[7] 6,210	[7] 9,624	[7] 8,288	[7] 39,402	[7] 29,222	46,877	27	34	17
Ohio	43,235	63,394	49,592	35,257	36,469	114,720	7,382	7,445	7,583
Oklahoma	249,285	348,116	274,313	263,164	250,875	231,005	468,490	436,123	399,156
Pennsylvania	101,632	88,706	[8] 94,464	[8] 76,547	[8] 93,882	109,746	10,734	11,756	15,554
Texas	[9] 134,872	[9] 517,880	[9] 642,366	[9] 882,473	[9] 979,427	796,561	685,920	770,047	920,637
West Virginia	180,345	144,180	115,772	134,342	159,226	69,394	50,398	52,272	56,846
Wyoming	45,539	43,219	26,643	26,678	26,614	17,786	[10] 30,647	[10] 31,461	[10] 34,540

[1] Preliminary. [2] Includes States not shown separately. [3] Less than 500,000 cu. ft.
[4] Includes 131,000,000 cubic feet piped from Canada. [5] Separate data not available.
[6] Includes 832,000,000 cubic feet piped to Mexico.
[7] Includes 68,000,000 cubic feet piped to Canada in 1925, 107,000,000 in 1930, 29,000,000 in 1935, 34,000,000 in 1938, and 28,000,000 in 1939.
[8] Includes 44,000,000 cubic feet piped to Canada in 1935, 60,000,000 in 1938, and 48,000,000 in 1939.
[9] Includes 64,000,000 cubic feet piped to Mexico in 1925, 1,691,000,000 in 1930, 6,727,000,000 in 1935, 911,000,000 in 1938, and 3,046,000,000 in 1939. [10] Includes Utah.

Sources: Table 831, Dept. of Labor, Bur. of Labor Statistics; published quarterly in Retail Prices. Table 832, Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 833.—Manufactured-Gas Industry—Fuel Consumed, by Kind and by Use: 1933 to 1940

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 1940 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.

	1933	1934	1935	1936	1937	1938	1939	1940
By kind:								
Anthracite [1]	132	185	125	144	178	181	199	214
Bituminous coal	7,305	7,868	7,467	7,534	7,312	6,675	6,539	6,882
Coke purchased	665	775	737	710	654	721	666	759
Coke made in plant [2]	1,319	1,281	1,333	1,335	1,345	1,253	1,411	1,316
Coke breeze	484	487	501	465	397	365	339	524
Oil [3]	496,657	491,807	475,137	514,171	525,088	584,856	627,906	677,040
Coal and coke, by use:								
Generator fuels [2]	1,621	1,698	1,640	1,708	1,706	1,695	1,788	1,942
Boiler fuels [1]	851	905	884	889	898	803	763	852
Bituminous coal carbonized	6,683	7,186	6,848	6,867	6,576	6,034	5,932	6,220
Bench and producer fuels	750	807	791	724	706	663	671	681

[1] Includes screenings. [2] Includes fuel used in production of reformed oil refinery gas.
[3] Oil used. For 1940, for carburetting water gas, 592,345,000 gallons; for making oil gas, 57,792,000 gallons; for boiler fuel, 26,903,000 gallons.

No. 834.—Manufactured-Gas and Natural-Gas Industries—Summary: 1933 to 1940

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 1940 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.

	1933	1934	1935	1936	1937	1938	1939	1940
MANUFACTURED-GAS INDUSTRY								
Population served, Dec. 31	46,726	46,968	46,956	47,085	47,545	47,770	47,937	48,376
Miles of main, Dec. 31	87,500	87,700	88,800	89,100	89,900	88,400	90,900	92,000
Employees, Dec. 31	65,900	68,000	67,500	69,200	69,000	67,100	66,900	68,700
Total gas produced and purchased	340,627	358,322	362,151	372,286	375,308	373,353	388,342	418,810
Gas produced	229,791	236,414	233,352	237,449	235,490	231,454	240,966	262,138
Gas purchased	110,836	121,908	128,799	134,837	139,818	141,899	147,376	156,672
Total number of customers, Dec. 31 [1]	9,105	9,272	9,408	9,589	9,829	9,810	9,981	10,167
Domestic	8,611	8,738	8,855	8,957	9,164	9,126	9,266	9,405
House heating	79	114	130	170	201	224	262	305
Industrial and commercial	406	411	414	463	455	451	444	448
Total gas sales to consumers [1]	309,556	321,231	326,929	338,160	346,635	346,583	360,318	389,634
Domestic	220,837	214,416	204,521	196,088	193,225	195,887	192,338	198,752
House heating	19,892	27,998	34,795	40,904	45,260	47,634	55,561	68,498
Industrial and commercial	66,849	76,777	85,498	98,990	106,039	100,831	110,437	120,124
Total revenue from consumers [1]	350,573	352,383	348,867	352,736	355,194	355,458	362,711	379,023
Domestic	276,045	270,919	262,065	255,585	253,406	254,722	253,426	258,153
House heating	14,002	18,694	22,453	25,972	28,288	30,605	35,691	43,247
Industrial and commercial	59,026	61,315	62,866	69,676	72,033	68,603	72,288	76,221
NATURAL-GAS INDUSTRY								
Population served, Dec. 31	-------	-------	-------	-------	-------	-------	34,235	35,038
Miles of main, Dec. 31	-------	-------	-------	-------	-------	-------	191,400	195,100
Employees, Dec. 31	-------	-------	-------	-------	-------	-------	65,800	69,500
Total number of customers, Dec. 31	6,232	6,449	6,663	6,876	7,126	7,279	7,523	7,824
Domestic [2]	5,767	5,964	6,158	6,347	6,576	6,708	6,933	7,212
Commercial	437	451	472	492	509	529	546	565
Industrial	28	34	33	37	41	42	44	47
Total gas sales to consumers	864,263	977,932	1,055,705	1,217,920	1,317,243	1,212,917	1,330,664	1,441,692
Domestic [2]	300,936	303,844	321,357	340,409	360,529	352,837	373,650	419,532
Commercial	73,981	79,310	88,257	96,946	103,404	100,915	109,514	122,544
Industrial [3]	489,346	594,778	646,091	780,565	853,310	759,165	847,500	899,616
Total revenue from consumers	332,027	349,307	378,712	414,791	445,744	418,125	451,513	492,717
Domestic [2]	214,855	214,999	226,849	238,546	249,483	243,558	257,317	283,017
Commercial	37,419	38,633	42,567	46,747	48,898	47,415	50,660	55,923
Industrial [3]	79,753	95,675	109,296	129,498	147,363	127,152	143,536	153,777

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

Source of tables 833 and 834: American Gas Association, Annual Statistics of the Manufactured-Gas and Natural-Gas Industries, Statistical Bulletins Nos. 44 and 45.

No. 835.—Gas Prices—Monthly Prices of Specified Quantities, by Cities

[Based on rate as of Dec. 15, 1940]

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:										
Immediate	M	520	1.63	15.4	2.93	14.9	4.47	14.6	5.82	14.3
Objective [4]	M	520	(5)	(5)	2.67	13.6	3.42	11.2	4.29	10.6
Boston	M	535	2.78	26.2	4.13	21.1	5.78	18.9	7.27	17.9
	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	1.94	18.3	3.33	17.0	4.69	15.3	5.39	13.3
Cincinnati	X	930	.85	8.0	1.52	7.8	2.29	7.5	2.97	7.3
Cleveland	N	1,100	1.11	10.5	1.56	8.0	2.11	6.9	2.61	6.4
Columbus	N	1,050	.90	8.5	1.34	6.8	1.86	6.1	2.34	5.8
Dallas	N	1,050	1.26	11.9	1.84	9.4	2.54	8.3	3.19	7.9
Denver [6]	N	825	2.18	20.6	3.35	17.1	4.20	13.7	4.84	11.9
Detroit: [7]										
Immediate	N	1,014	1.71	16.1	3.16	16.1	4.93	16.1	6.55	16.1
Promotional [4]	N	1,014	1.54	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	1,066	.98	9.3	1.54	7.8	2.21	7.2	2.82	6.9
	N	1,000	1.03	9.7	1.61	8.2	2.33	7.6	2.98	7.3
	N	1,027	1.01	9.5	1.58	8.1	2.28	7.4	2.91	7.2
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 [6]	N	1,040	1.33	12.6	2.12	10.8	3.05	10.0	3.88	9.6
Little Rock	N	1,000	1.05	9.9	1.46	7.5	1.97	6.4	2.42	6.0
Los Angeles	N	1,100	1.20	11.3	1.69	8.6	2.25	7.4	2.76	6.8
Louisville [7]	X	900	1.14	10.8	1.79	9.1	2.48	8.1	3.08	7.6
Manchester	M	525	2.85	26.8	4.82	24.6	5.67	18.5	6.92	17.0
Memphis	N	980	1.39	13.1	2.26	11.5	3.27	10.7	3.83	9.4
Milwaukee	M	520	1.76	16.6	2.89	14.7	4.26	13.9	5.51	13.6
Minneapolis	X	800	1.86	17.5	2.87	14.6	4.10	13.4	5.17	12.7
Mobile:										
Present	N	1,010	2.19	20.6	3.30	16.8	4.64	15.2	5.29	13.0
Objective [4]	N	1,010	2.00	18.9	2.89	14.7	3.97	13.0	4.56	11.2
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	1,000	1.20	11.4	2.01	10.3	3.00	9.8	3.90	9.6
New York: [7]										
3 boroughs [8]	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
	M	540	2.46	23.2	3.96	20.2	5.43	17.7	6.76	16.7
	M	540	2.61	24.6	4.28	21.8	5.96	19.5	7.19	17.7
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	600	1.38	13.1	2.14	10.9	3.05	10.0	3.88	9.6
Peoria	N	1,000	2.12	20.0	3.64	18.6	4.67	15.3	5.57	13.7
Philadelphia	M	530	1.77	16.7	3.20	16.3	4.75	15.5	6.17	15.2
Pittsburgh	N	1,115	[9] 1.00	9.4	1.06	5.4	1.64	5.4	2.18	5.4
	N	1,100	[9] 1.00	9.4	1.07	5.4	1.67	5.4	2.21	5.4
	N	1,100	1.39	13.1	1.93	9.8	2.58	8.4	3.17	7.8
Portland, Maine	M	525	3.03	28.5	5.16	26.3	6.51	21.3	8.03	19.8
Portland, Oreg	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	530	2.60	24.5	4.74	24.2	5.99	19.6	7.69	19.0
Rochester	M	537	2.26	21.4	3.99	20.4	5.35	17.5	6.88	16.9
St. Louis [6]	X	800	2.04	19.3	3.20	16.3	4.38	14.3	5.45	13.4
St. Paul	M	550	1.98	18.7	3.16	16.1	4.59	15.0	5.87	14.4
Salt Lake City [6]	N	865	2.12	20.0	3.27	16.7	4.16	13.6	4.86	12.0
San Francisco	N	1,150	1.06	10.0	1.45	7.4	1.92	6.3	2.32	5.7
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 [7]	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, D. C	X	604	1.51	14.2	2.64	13.4	3.91	12.8	5.00	12.3

[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] Prices include 2-percent sales tax.
[7] Prices include 3-percent sales tax.
[8] Bronx, Manhattan, and Queens Boroughs.
[9] Minimum charge.

Source: Dept. of Labor, Bur. of Labor Statistics; published in Retail Prices, Dec. 1940.

No. 836.—Petroleum, Crude—Production: 1861 to 1940

[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	1911	220,449	134,045	1926	770,874	1,447,760
1866-1870	4,013	15,795	1912	222,935	164,213	1927	901,129	1,172,830
1871-1875	8,221	16,430	1913	248,446	237,121	1928	901,474	1,054,880
1876-1880	16,816	22,926	1914	265,763	214,125	1929	1,007,323	1,280,417
1881-1885	25,508	22,933	1915	281,104	179,463	1930	898,011	1,070,200
1886-1890	32,990	23,830	1916	300,767	330,900	1931	851,081	550,630
1891-1895	51,095	35,708	1917	335,316	522,635	1932	785,159	680,460
1896-1900	59,498	56,836	1918	355,928	703,944	1933	905,656	608,090
1901-1905	102,083	83,524	1919	378,367	760,266	1934	908,065	904,825
1906-1910	172,769	119,572	1920	442,929	1,360,745	1935	996,596	961,440
1911-1915	247,739	185,793	1921	472,183	814,745	1936	1,099,687	1,199,820
1916-1920	362,661	735,698	1922	557,531	895,111	1937	1,279,160	1,513,340
1921-1925	647,961	999,186	1923	732,407	978,430	1938	1,214,355	1,373,060
1926-1930	895,762	1,205,217	1924	713,940	1,022,683	1939	1,264,962	1,294,470
1931-1935	889,311	741,071	1925	763,743	1,284,960	1940 (prel.)	1,351,847	[1] 1,352,000

[1] Estimated.

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

No. 837.—Petroleum, Crude and Refined—Production, Imports, Exports, and Bunker Oil Laden on Vessels in Foreign Trade: 1871 to 1940

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	29,249	(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)	2,907	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	23,901	36,413	[3] 70,896	34,868	27.3	22.3	38.2	[3] 176.2	31.3
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	58,382	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	32,693	67,127	[3] 93,464	37,688	20.8	22.1	96.4	[3] 253.4	43.5
1938	1,214,355	26,048	27,837	77,254	[3] 102,124	36,059	18.6	19.6	111.6	[3] 249.6	37.8
1939	1,264,962	34,106	27,350	72,064	[3] 103,428	37,036	23.3	18.7	92.8	[3] 262.6	39.0
1940 (prel.)	1,351,847	43,085	40,528	51,495	63,960	35,037	32.2	34.0	67.8	[3] 214.9	41.9

[1] Data are not available. [2] Average for years 1908-10 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, 6,114,000 barrels at $13,059,000 in 1938, 4,111,000 barrels at $8,739,000 in 1939, and 1,704,000 barrels at $3,204,000 in 1940), 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.

No. 838.—Petroleum, Crude—World Production; United States Production by Regions and States: 1916 to 1940

[In thousands of barrels of 42 gallons]

SECTION	1916–1920 (average)	1921–1925 (average)	1926–1930 (average)	1931–1935 (average)	1936	1937	1938	1939	1940 (preliminary)
World total [1]	541,733	944,777	1,316,390	1,460,372	1,791,540	2,039,014	1,987,844	2,078,853	2,149,378
United States [2]	362,661	647,961	895,762	889,311	1,099,687	1,279,160	1,214,355	1,264,962	1,351,847
Percent of total	*66.9*	*68.6*	*68.0*	*60.9*	*61.4*	*62.7*	*61.1*	*60.8*	*62.9*
Regions:									
Appalachian	27,161	28,504	31,603	30,079	34,322	36,964	34,731	34,307	33,801
Lima—N. E. Ind. [3]—Mich	3,468	2,298	3,603	10,050	12,706	17,272	19,352	24,066	20,193
Illinois—S. W. Indiana [3]	13,918	9,585	7,495	5,326	5,277	8,325	25,046	96,599	151,607
Mid-continent	184,616	343,545	527,944	566,251	669,538	774,309	677,521	665,724	686,515
Gulf	24,273	33,688	54,140	75,401	140,562	176,743	182,217	190,766	201,812
Rocky Mountain	11,830	35,258	29,468	17,984	22,509	26,966	25,739	29,146	34,038
California	97,384	195,074	241,509	184,221	214,773	238,521	249,749	224,354	223,881
States:									
Arkansas	--------	36,644	35,010	12,144	10,469	11,764	18,180	21,238	25,583
California	97,384	195,074	241,509	184,221	214,773	238,521	249,749	224,354	223,881
Colorado	139	392	2,477	1,260	1,650	1,605	1,412	1,404	1,350
Illinois	13,918	8,815	6,654	4,551	4,475	7,499	24,075	94,912	146,788
Indiana	865	1,011	937	800	822	844	995	1,711	4,843
Kansas	32,556	32,733	41,123	43,033	58,317	70,761	60,064	60,703	66,270
Kentucky	5,335	8,044	7,103	5,494	5,633	5,484	5,821	5,621	5,193
Louisiana	19,117	25,759	22,338	30,396	80,491	90,924	95,208	93,646	103,961
Michigan	--------	1	1,913	9,004	11,928	16,628	18,745	23,462	19,764
Montana	129	2,729	4,826	3,153	5,868	5,805	4,946	5,960	6,768
New Mexico [4]	--------	[5] 554	3,171	15,829	27,223	38,854	35,759	37,637	39,001
New York	864	1,274	2,765	3,618	4,663	5,478	5,045	5,098	4,999
Ohio	7,583	7,045	7,022	4,504	3,847	3,559	3,298	3,156	3,169
Oklahoma	102,209	155,088	235,663	176,293	206,555	228,839	174,994	159,913	155,952
Pennsylvania	7,662	7,607	10,613	13,443	17,070	19,189	17,426	17,382	17,353
Texas	55,008	127,009	245,792	364,341	427,411	510,318	475,850	483,528	493,126
West Virginia	8,311	6,575	5,655	4,032	3,847	3,845	3,684	3,580	3,444
Wyoming	11,562	31,901	21,145	13,158	14,582	19,166	19,022	21,454	25,683

[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] Not shown separately prior to 1924. [5] Average for years 1924 and 1925.

No. 839.—Petroleum and Petroleum Products—Stocks on December 31: 1920 to 1940

[In thousands of barrels of 42 gallons]

	1920	1925	1930	1935	1938	1939	1940
Crude petroleum, total [1]	149,448	345,863	408,809 [2] 411,882	314,855	291,425 [2] 290,632	253,308 [2] 252,240	275,985
Gasoline bearing:							
At refineries [3]	28,703	[4] 29,607	[4] 41,136	47,533	51,551	49,215	52,448
Pipe line and tank farm [5]	117,159	[4] 308,696	[4] 361,065 [2,4] 364,138	256,793	211,931 [2] 211,138	178,810	200,726
Producers' [5]	3,586	7,560	6,608	10,529	11,476	11,953	10,905
Nongasoline bearing (Calif. heavy crude) [1]	([6])	([6])	([6])	([6])	16,467	13,330	11,906
Natural gasoline	([6])	[7] 326	2,377 [2] 3,100	3,698	4,830	4,421	5,704
Refined products, total [1,8]	60,397	206,275	254,311 [2] 251,680	223,361	259,865 [2] 272,241	268,109	282,265
Gasoline	11,009	38,918	40,541 [2] 40,098	50,647	65,940	77,301	77,943
Kerosene	9,359	7,121	6,883	7,915	7,799	7,576	9,512
Gas oil and fuel oil [1]	19,938	110,464	140,428 [2] 137,790	103,984	125,619	126,008	132,244
Lubricants	3,822	7,253	10,971	7,025	7,695	7,142	8,767
Grand total stocks all oils	209,845	552,464	665,497 [2] 666,662	541,914	555,920 [2] 567,703	525,838 [2] 524,770	568,954

[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 equivalents for wax, coke, and asphalt.
Source of tables 838 and 839: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 840.—Oils, Crude and Refined—Supply and Demand: 1934 to 1940

[In thousands of barrels of 42 gallons]

	1934	1935	1936	1937	1938	1939	1940 (prel.)
Total new supply of all oils	996, 823	1, 090, 435	1, 202, 063	1, 388, 284	1, 321, 774	1, 378, 170	1, 493, 173
Domestic production, total	946, 329	1, 037, 800	1, 144, 959	1, 331, 127	1, 267, 466	1, 319, 110	1, 410, 257
Crude petroleum	908, 065	996, 596	1, 099, 687	1, 279, 160	1, 214, 355	1, 264, 962	1, 351, 847
Natural gasoline	36, 556	39, 333	42, 770	49, 177	51, 347	51, 650	55, 249
Benzol	1, 708	1, 871	2, 502	2, 790	1, 764	2, 498	3, 161
Imports—							
Crude	35, 558	32, 239	32, 327	27, 484	26, 412	33, 095	42, 738
Refined [1]	14, 936	20, 396	24, 777	29, 673	27, 896	25, 965	40, 178
Change in stocks [2]	−37, 848	−22, 238	−22, 685	+45, 768	−9, 077	−41, 865	+39, 184
Total demand	1, 034, 671	1, 112, 673	1, 224, 748	1, 342, 516	1, 330, 851	1, 420, 035	1, 453, 989
Exports [3]—							
Crude	41, 127	51, 430	50, 313	67, 234	77, 254	72, 076	51, 600
Refined [1]	73, 380	77, 557	81, 681	105, 600	116, 474	116, 883	78, 989
Domestic [4]	920, 164	983, 686	1, 092, 754	1, 169, 682	1, 137, 123	1, 231, 076	1, 323, 400

[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. 841.—Petroleum Products—Production, by Kind: 1929, 1937, and 1939

Products	Quantity (thousands of gallons unless otherwise specified)			Value (thousands of dollars)		
	1929	1937	1939	1929	1937	1939
Refinery products, total value				2, 627, 533	2, 537, 609	2, 454, 200
Gasoline	17, 538, 789	22, 626, 325	24, 393, 809	1, 531, 242	1, 447, 688	1, 424, 436
Naphtha, including benzine	712, 583	319, 983	392, 772	70, 180	22, 032	23, 112
Kerosene	2, 338, 929	2, 508, 045	2, 710, 109	164, 836	123, 681	112, 065
Fuel oils	16, 390, 954	19, 243, 714	19, 983, 006	384, 630	512, 904	472, 209
Distillates	1, 024, 364	2, 997, 561	2, 866, 730	39, 338	122, 187	107, 649
Gas oils, including Diesel oils	2, 882, 959	3, 153, 937	3, 972, 609	96, 094	110, 428	130, 467
Residual fuel oils	12, 483, 631	13, 092, 216	13, 143, 667	249, 198	280, 289	234, 093
Partially refined oils sold for rerunning	1, 466, 861	1, 147, 454	1, 331, 987	49, 143	38, 726	38, 878
Above fuel oil	869, 056	838, 758	1, 013, 265	(1)	(1)	(1)
Fuel oil	567, 533	247, 723	249, 674			
Below fuel oil	30, 273	60, 973	69, 049			
Lubricating oils [2]	1, 553, 711	1, 517, 103	1, 606, 830	304, 673	245, 666	237, 161
Neutral, cylinder, and black	940, 870	970, 593	712, 372	169, 305	133, 986	100, 149
All other, including compounded and unclassified	612, 840	546, 510	894, 458	135, 308	111, 681	137, 013
Road oils	323, 002	592, 557	861, 772	11, 041	19, 522	25, 681
Liquid asphaltic road oils	323, 002	481, 135	608, 915	11, 041	16, 418	17, 142
Other road oils		111, 422	252, 858		3, 104	8, 539
Residuum or tar	104, 111	20, 421	52, 030	3, 149	853	822
Greases	52, 017	61, 926	61, 835	16, 646	17, 216	17, 324
Petrolatum, mineral jelly, etc	13, 664	23, 083	18, 875	2, 548	3, 932	2, 873
Lubricating greases [2]	38, 354	38, 843	43, 010	14, 098	13, 284	14, 451
Paraffin wax	84, 639	90, 608	90, 649	22, 328	19, 213	19, 485
Acid oil	34, 767	57, 633	55, 273	663	1, 016	784
Liquefied petroleum gases	(1)	116, 055	145, 429	(1)	3, 904	4, 942
Asphalt, other than liquid asphalt [3]	3, 115	2, 971	2, 345	34, 506	31, 352	20, 852
Petroleum coke [3]	1, 265	1, 327	1, 522	5, 461	5, 048	4, 987
Other refinery products				29, 035	48, 787	51, 461

[1] No data.
[2] Production in "Petroleum refining" industry only; also made in "Lubricating oils and greases, not made in petroleum refineries" industry.
[3] Thousands of tons of 2,000 pounds.

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

No. 842.—Petroleum and Natural Gasoline—Amounts Run to Stills; Refinery Production, Stocks, Exports, and Apparent Consumption of Products: 1918 to 1940

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	1938	1939	1940 (prel.)
Crude oil run to stills	326,025	433,915	739,920	927,447	965,790	1,165,015	1,237,840	1,294,283
Domestic	324,618	372,779	698,582	866,615	933,659	1,138,828	1,204,350	1,252,485
Foreign	1,407	61,136	41,338	60,832	32,131	26,187	33,490	41,798
Natural gasoline run to stills or blended at refineries	2,451	3,153	[1] 19,636	[1] 43,170	[1] 31,025	[1] 39,961	[1] 39,606	[1] 39,330
Stocks of crude oil, end of year	15,750	21,261	[2] 29,200	[2] 41,136	47,533	51,551	49,215	52,448
Motor fuel:								
Production	86,280	118,022	262,252	440,728	468,021	569,162	611,043	616,359
Exports (gasoline, natural gasoline, and benzol)	13,650	15,678	31,684	65,575	30,613	50,109	44,638	25,107
Stocks, end of year	7,080	11,009	38,918	40,098	[3] 54,345	[3] 70,779	[3] 81,722	[3] 83,647
Apparent consumption	75,672	102,937	226,329	394,800	434,810	523,003	555,509	589,424
Kerosene:								
Production	43,461	55,240	59,689	49,208	55,813	64,580	68,521	73,882
Exports	11,820	20,878	21,212	16,884	6,651	7,504	8,241	3,374
Stocks, end of year	9,050	9,359	7,121	6,883	7,915	7,799	7,576	9,512
Apparent consumption	34,442	33,082	39,969	34,736	47,645	56,360	60,503	68,776
Gas oil and fuel oils:								
Production	174,319	210,987	364,991	372,498	360,061	446,664	467,690	499,522
Exports	29,637	22,080	36,088	36,450	28,948	47,561	49,505	35,249
Stocks, end of year	15,691	19,938	[2] 24,681	[4] 137,790	[4] 103,984	[5] 125,619 / [5] 138,195	126,008	132,244
Apparent consumption					366,723	409,282	[6] 458,461	500,103
Lubricants:								
Production	20,035	24,938	31,055	34,201	27,853	30,826	35,036	36,765
Exports	6,165	9,643	9,678	9,935	8,499	9,417	11,881	10,494
Stocks, end of year	3,306	3,822	7,253	10,971	7,025	7,695	7,142	8,767
Apparent consumption	13,823	14,742	20,581	21,589	19,661	21,233	23,713	24,657
Wax—production ... 1,000 lbs	505,144	541,204	590,577	547,680	450,240	435,400	464,520	513,240
Stocks, end of year ... do	199,658	195,368	116,391	232,592	114,675	129,340	75,648	125,272
Coke—production ... 1,000 tons [7]	500	577	991	1,940	1,458	1,602	1,666	1,527
Stocks, end of year ... do	23	32	238	1,069	389	708	666	487
Asphalt—production 1,000 tons [7]	608	1,291	2,677	3,308	3,115	4,341	4,954	5,347
Stocks, end of year ... do	77	81	159	308	430	490	550	614
Other finished products			8,044	13,179	[8] 59,102	[8] 75,354	[8] 79,006	[8] 82,691
Losses	14,557	18,743	22,914	37,003	[8] 11,493	[8] 4,242	[8] 5,623	[8] 7,545

[1] Includes natural gasoline run through crude-oil pipe lines.
[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] New basis; considers transfers of light grades of crude petroleum to the gas-oil and fuel-oil account, and also changes in bulk-terminal stocks, in refinery districts east of California.
[7] Of 2,000 pounds.
[8] Other finished products include still gas formerly reported also with losses.

No. 843.—Petroleum and Natural Gasoline—Amounts Run to Stills, 1939 and 1940, and Refinery Products, 1940, 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, 1940 [1]				
	1939	1940 [1]	1939	1940 [1]	Gasoline	Kerosene	Gas oil and fuel oil	Lubricants	Wax
Total	1,237,840	1,294,283	39,606	39,330	597,279	73,882	499,522	36,765	513,240
East coast	192,381	204,590	2,140	1,574	77,248	11,447	93,225	8,550	196,000
Appalachian	43,767	48,225	297	384	23,508	3,213	10,385	6,016	100,240
Ind., Ill., Ky., etc	191,634	225,847	4,516	5,685	125,405	10,344	61,760	3,545	54,600
Okla., Kans., and Mo	112,409	114,847	5,112	5,238	65,585	7,196	31,335	3,447	39,480
Texas	399,233	399,725	11,590	13,001	184,885	28,917	156,839	9,380	77,840
Louisiana and Ark	73,456	69,870	863	639	27,375	8,619	25,082	2,310	28,000
Rocky Mountain	26,306	30,156	711	732	16,338	824	8,785	179	17,080
California	198,654	201,023	14,377	12,077	76,885	3,322	112,111	3,338	

[1] Preliminary.

Source of tables 842 and 843: Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 844.—Petroleum Pipe Lines—Summary: 1921 to 1940

[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
1930	88,727	772,711	96,184	237,910	99,363	121,816	123,741
1932	92,783	763,942	41,754	211,789	86,003	110,019	112,302
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	92,724
1939	98,681	829,646	65,124	212,466	97,130	83,401	80,823
1940	100,156	841,977	64,095	225,760	101,919	82,558	79,857

Source: Records of Interstate Commerce Commission.

No. 845.—Petroleum and Petroleum Products—Prices, 1921 to 1940, and by Months, 1940

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, 1940	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	1.28	9.6	9.3	0.99	22.8
1925	1.96	19.9	12.3	1.46	24.3	February	1.26	9.4	9.3	1.02	21.0
1930	1.39	16.4	12.1	.78	19.8	March	1.26	9.3	9.3	1.01	20.0
1932	1.02	13.2	9.4	.62	14.5	April	1.26	9.2	9.4	.99	18.9
1933	.87	12.8	9.2	.67	14.7	May	1.25	9.1	9.5	.99	17.1
1934	1.21	13.5	9.5	.84	18.5	June	1.21	8.9	9.4	1.00	16.3
1935	1.17	13.4	8.9	.89	14.4	July	1.15	8.8	9.2	1.00	14.3
1936	1.30	13.9	9.0	.92	16.3	August	1.12	8.7	9.2	1.00	13.5
1937	1.39	10.5	9.5	1.05	17.7	September	1.12	8.6	9.1	1.01	13.4
1938	1.25	9.9	9.5	.91	12.9	October	1.12	8.5	9.1	1.01	13.3
1939	1.17	9.5	9.0	.94	15.8	November	1.14	8.4	9.2	1.00	13.3
1940	1.20	8.9	9.3	1.00	16.5	December	1.18	8.4	9.3	1.01	13.5

[1] Average for 5 important grades at wells.
[2] Average based on sales in 50 cities (exclusive of all taxes). Through 1936, service-station prices; thereafter, tank-wagon prices.
[3] Average for 5 markets.
[4] Through 1937, average of 5 refining-location prices; thereafter, 4.
[5] Average of 6 grades at refineries.

No. 846.—Oil Wells, Number and Production, 1938 and 1939, and Number of Oil and Gas Wells Drilled, 1939 and 1940, by States

State	Producing oil wells: Approximate number, Dec. 31		Producing oil wells: Average production per well per day (barrels)		Wells drilled[1]: Oil		Wells drilled[1]: Gas		Wells drilled[1]: Dry	
	1938	1939	1938	1939	1939	1940	1939	1940	1939	1940
Total	368,640	380,390	9.1	9.2	17,485	19,125	2,145	2,382	6,357	6,617
Arkansas	2,800	2,980	18.2	20.1	183	114	6	13	65	60
California[2]	13,930	14,670	50.0	43.0	852	859	15	15	251	156
Colorado	200	200	19.3	19.2	7	10	1	1	17	8
Illinois	15,800	17,980	4.4	15.4	2,943	3,049	18	15	621	750
Indiana	1,260	1,380	2.2	3.6	176	231	44	77	156	220
Kansas	20,900	21,400	7.7	7.9	977	1,410	150	130	309	342
Kentucky	13,900	14,100	1.2	1.1	275	224	110	128	312	231
Louisiana	4,900	5,300	57.6	50.3	871	1,189	98	99	403	379
Michigan	2,140	2,680	26.2	26.7	813	536	52	59	527	518
Montana	1,620	1,720	8.4	9.8	114	155	26	49	37	38
New Mexico	2,400	2,920	45.4	38.8	525	479	18	19	63	113
New York	20,150	20,150	.7	.7	(3)	(3)	(3)	(3)	(3)	(3)
Ohio	27,000	26,400	.3	.3	216	659	497	491	319	480
Oklahoma	54,400	54,500	8.7	8.0	1,045	1,011	151	176	603	657
Pennsylvania	81,500	81,970	.6	.6	[4] 1,586	[4] 2,184	[4] 200	[4] 293	[4] 148	[4] 137
Texas	85,600	90,100	16.0	15.1	6,683	6,632	314	289	2,328	2,173
West Virginia	17,700	18,400	.6	.5	110	120	410	487	90	118
Wyoming	3,300	3,400	15.7	17.5	99	124	10	8	41	47
Other States	140	140	-------	-------	10	139	16	33	67	181

[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. 847.—Asphalt—Supply, Distribution, and Value: 1934 to 1940

	1934	1935	1936	1937	1938	1939	1940
Total supply (1,000 tons of 2,000 pounds)	**3,573**	**4,028**	**5,098**	**5,301**	**5,575**	**5,978**	**6,525**
Native asphalt and related bitumens:							
Produced	441	347	581	485	478	460	491
Imported (chiefly lake asphalt)	16	54	22	29	24	27	12
Petroleum asphalt (excluding road oil):							
Produced at refineries from—							
Domestic petroleum	1,445	1,802	2,327	2,804	3,069	4,954	5,347
Foreign petroleum	1,396	1,485	1,738	1,556	1,438		
Imported	------	------	------	63	10	47	126
Stocks, Jan. 1	276	339	430	364	557	490	550
Total distribution (1,000 tons of 2,000 pounds)	**3,573**	**4,028**	**5,098**	**5,301**	**5,575**	**5,978**	**6,525**
Native asphalt and related bitumens:							
Indicated domestic demand	426	328	567	467	464	446	479
Exports (unmanufactured)	15	19	14	19	14	14	11
Petroleum asphalt (excluding road oil):							
Indicated domestic demand (incl. lake asphalt)	2,569	3,028	3,962	4,049	4,405	4,769	5,161
Exports	224	223	191	209	202	200	259
Stocks, Dec. 31	339	430	364	557	490	550	614
VALUE (1,000 DOLLARS)							
Native asphalt and related bitumens:							
Sales	2,366	2,149	3,261	3,019	2,875	3,067	2,725
Imports (chiefly lake asphalt)	222	545	316	396	378	363	143
Exports (unmanufactured)	581	710	528	720	544	577	443
Petroleum asphalt (excluding road oil):							
Sales	29,895	31,355	41,145	42,994	41,381	40,892	47,067
Imports	------	------	------	260	39	189	566
Exports	3,383	3,371	2,835	3,111	3,030	3,098	4,004

No. 848.—Gypsum—Supply, Sales, Imports, and Exports: 1935 to 1940

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

	1935	1936	1937	1938	1939	1940
Crude gypsum: [1]						
Mined	1,904	2,713	3,058	2,684	3,227	3,699
Imported	450	677	897	789	1,308	1,405
Apparent supply	2,354	3,390	3,956	3,474	4,535	5,104
Calcined gypsum produced: [2]						
Short tons	1,383	(3)	2,411	2,253	2,881	3,308
Value	(3)	(3)	11,076	10,990	14,621	17,255
Gypsum products sold: [2]						
Uncalcined:						
Short tons	595	831	861	757	868	929
Value	1,329	1,866	1,921	1,681	1,927	2,251
Calcined:						
Short tons	1,553	2,210	2,643	2,556	3,224	3,704
Value	22,358	31,089	36,880	34,575	44,001	51,242
Gypsum and gypsum products:						
Imported for consumption, value	720	892	1,168	1,002	1,364	1,428
Exported, value	186	256	271	283	309	264

[1] To avoid revealing confidential data, by-product gypsum is excluded beginning 1937.
[2] Made from domestic and imported, and beginning 1937, byproduct crude gypsum.
[3] Data not collected.

Source of tables 847 and 848: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 849.—Portland Cement—Production, by States; Shipments, Imports, and Stocks: 1910 to 1940

STATE	1910	1920	1925	1930	1935	1938	1939	1940
	Thousands of barrels of 376 pounds							
Production, total	76,550	100,023	161,659	161,197	76,742	105,357	122,259	130,217
Alabama	[1] 1,481	1,132	6,288	4,821	2,493	4,628	5,038	5,122
California	[2] 6,386	7,098	13,098	10,124	7,974	10,513	10,990	14,216
Illinois	4,459	5,539	7,101	7,935	3,368	3,960	4,649	4,975
Iowa	[3] 2,010	4,849	4,648	7,088	3,520	4,727	4,718	4,606
Kansas	5,656	4,341	6,511	6,012	2,337	3,264	3,739	3,433
Michigan	3,688	4,891	10,936	11,511	4,579	7,159	8,219	8,603
Missouri	4,456	6,018	8,332	7,809	3,392	4,491	4,786	4,968
New York	3,296	5,885	8,770	10,373	4,285	5,808	6,868	8,437
Ohio	1,528	1,780	5,715	8,632	3,876	5,188	5,800	6,664
Pennsylvania	26,676	28,269	42,347	37,844	15,502	20,868	25,106	26,863
Tennessee	(4)	(4)	(4)	3,875	2,703	3,319	3,537	3,808
Texas	[5] 2,287	2,562	4,858	6,782	3,787	6,949	7,337	7,375
Other States	14,627	27,659	43,055	38,393	18,925	24,482	[6] 31,473	[6] 31,156
Shipments[7]	(8)	96,312	157,295	159,059	75,233	106,324	122,651	130,350
Imports[9]	307	525	3,667	985	619	1,727	1,914	538
Stocks at mills (Dec. 31)	(8)	8,833	18,336	25,899	23,065	23,993	23,646	23,512

[1] Includes Georgia and Tennessee.
[2] California includes Washington.
[3] Includes Kentucky and West Virginia.
[4] Included in figure for Alabama for 1910; "Other States," 1920 and 1925.
[5] Includes Oklahoma.
[6] Includes production of Puerto Rico.
[7] Including exports made directly by manufacturers and shipments made by them to noncontiguous U. S. Territories and possessions.
[8] Not available.
[9] "Imports for consumption" of Portland and other hydraulic cement.

No. 850.—Portland Cement—Shipments, by States: 1937 to 1940

[In thousands of barrels of 376 pounds]

STATE	1937	1938	1939	1940
Shipped from cement plants	113,805	106,324	122,651	130,350
Shipments to States	112,782	105,043	120,649	126,716
New England	4,999	4,618	6,015	6,258
Maine	393	412	416	332
New Hampshire	345	289	375	429
Vermont	295	222	264	247
Massachusetts	2,066	1,958	2,607	2,707
Rhode Island	422	372	567	649
Connecticut	1,478	1,365	1,787	1,894
Middle Atlantic	22,182	20,315	23,285	27,293
New York	11,112	10,824	12,224	13,120
New Jersey	3,858	3,424	4,008	4,165
Pennsylvania	7,213	6,068	7,052	10,008
East North Central	24,005	22,445	26,110	27,116
Ohio	5,420	5,266	6,309	6,538
Indiana	3,279	2,837	3,577	3,629
Illinois	6,945	6,432	7,664	8,584
Michigan	5,360	5,289	5,338	5,760
Wisconsin	3,001	2,620	3,222	2,604
West North Central	12,874	11,830	12,529	12,114
Minnesota	2,553	2,394	2,650	2,563
Iowa	3,249	3,227	2,994	2,934
Missouri	3,132	2,788	3,225	3,150
North Dakota	275	280	284	291
South Dakota	526	394	462	427
Nebraska	1,191	1,102	1,224	1,122
Kansas	1,950	1,646	1,690	1,628
South Atlantic	11,146	11,222	13,263	15,097
Delaware	292	299	357	416
Maryland	1,842	1,612	1,904	2,142
District of Columbia	1,066	1,005	1,423	1,606
Virginia	1,668	2,307	2,163	2,382
Shipments to States—Continued.				
South Atlantic—Continued.				
West Virginia	1,325	1,021	1,395	1,318
North Carolina	1,432	1,649	2,096	1,771
South Carolina	734	769	934	1,118
Georgia	1,423	1,324	1,485	1,902
Florida	1,365	1,236	1,506	2,443
East South Central	6,827	7,284	7,071	7,251
Kentucky	1,704	1,984	1,909	2,006
Tennessee	2,082	1,970	2,213	2,455
Alabama	1,224	1,311	1,368	1,459
Mississippi	1,816	2,020	1,582	1,330
West South Central	10,451	10,859	11,526	11,348
Arkansas	743	779	841	813
Louisiana	1,695	1,908	1,978	2,169
Oklahoma	2,099	1,900	2,166	1,887
Texas	5,914	6,271	6,541	6,479
Mountain	4,749	4,328	4,336	3,959
Montana	820	392	470	420
Idaho	471	383	411	334
Wyoming	395	497	265	251
Colorado	1,056	857	1,171	1,029
New Mexico	825	891	674	514
Arizona	571	702	640	559
Utah	500	479	552	679
Nevada	110	128	153	173
Pacific	15,498	12,123	16,366	16,067
Washington	4,107	2,237	5,974	3,541
Oregon	762	669	795	906
California	10,629	9,216	9,596	11,619
Unspecified	51	19	149	214
Exports direct by manufacturers[1]	1,022	1,281	2,002	3,634

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

Source of tables 849 and 850: Dept. of the Interior, Bur. of Mines; Minerals Yearbook.

No. 851.—Cement—Production, by Kind: 1890 to 1940

Note.—Portland cement, 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.

Year	Production in thousands of barrels			Total value in thousands of dollars [1]	Year	Production in thousands of barrels			Total value in thousands of dollars [1]
	Total	Portland	Masonry, natural, and puzzolan			Total	Portland	Masonry, natural, and puzzolan	
1890	7,777	336	7,441	4,527	1925	163,388	161,659	1,729	281,076
1895	8,731	990	7,741	5,482					
1900	17,231	8,482	8,749	13,284	1926	166,635	164,530	2,105	280,786
1905	40,102	35,247	4,855	35,932	1927	175,330	173,207	2,124	281,736
					1928	178,509	176,299	2,210	278,883
1910	77,785	76,550	1,235	68,752	1929	172,856	170,646	2,209	255,105
1913	92,949	92,097	[2] 852	93,001	1930	162,989	161,197	1,792	231,249
1914	89,050	88,230	[2] 820	82,204					
1915	86,708	85,915	[2] 794	74,285	1931	126,671	125,429	1,242	142,580
					1932	77,198	76,741	457	82,718
1916	92,363	91,521	[2] 842	101,379	1933	63,984	63,473	511	86,220
1917	93,454	92,814	[2] 639	126,106	1934	78,419	77,748	672	117,882
1918	71,515	71,082	[2] 433	114,132	1935	77,748	76,742	1,006	114,810
1919	81,307	80,778	[2] 529	138,714					
1920	100,791	100,023	[2] 767	203,198	1936	114,469	112,650	1,819	172,778
1921	99,381	98,842	[2] 539	187,708	1937	118,075	116,175	1,901	171,414
1922	115,679	114,790	[2] 889	203,324	1938	107,178	105,357	1,821	156,703
1923	138,732	137,460	[2] 1,272	263,122	1939 [3]	124,698	122,259	2,439	184,255
1924	150,777	149,358	[2] 1,418	272,345	1940 [3]	132,751	130,217	2,535	193,465

[1] Value of shipments beginning 1925. [2] Shipments. [3] All items except masonry, etc., include data for Puerto Rico.

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

No. 852.—Stone—Sales, by Kind and by Use: 1934 to 1940

Variety and use	Quantity sold, thousands of short tons (2,000 pounds) [1]							Value, 1,000 dollars	
	1934	1935	1936	1937	1938	1939	1940 [2]	1939	1940 [2]
Total	**92,064**	**83,159**	**131,416**	**133,143**	**124,839**	**147,447**	**153,733**	**158,462**	**160,044**
Granite	6,792	6,014	15,442	9,266	10,433	12,041	10,881	22,496	21,622
Basalt and related rocks	11,643	9,672	14,014	13,581	13,909	16,091	15,716	14,164	15,186
Sandstone	3,605	3,010	6,254	5,073	6,314	8,854	6,499	11,746	8,514
Marble	177	132	166	208	219	228	240	6,689	5,196
Limestone	57,502	57,493	87,736	94,577	81,680	100,846	112,658	94,817	103,007
All other	12,345	6,838	7,804	10,438	12,284	9,387	7,740	8,550	6,519
Building stone	711	830	1,001	1,159	1,006	1,353	836	16,008	11,501
Monumental	187	179	236	249	202	211	196	7,266	7,378
Paving blocks	64	78	75	74	38	[3] 26	19	[3] 246	240
Curbing	79	69	124	98	109	[4] 94	71	[4] 1,081	908
Flagging	23	24	44	50	41	65	68	427	413
Rubble	293	279	327	251	370	549	916	525	977
Riprap	6,053	4,919	11,319	5,389	6,211	5,812	5,264	5,852	5,414
Crushed stone	60,568	54,755	87,271	88,433	94,763	103,891	100,268	93,958	91,563
Furnace flux (limestone and marble)	9,231	12,192	17,725	21,332	9,703	17,288	22,872	12,632	15,755
Refractory stone	677	866	1,324	1,525	660	1,492	1,740	2,044	2,329
Manufacturing industries (limestone and marble)	5,373	5,835	6,596	14,583	11,737	16,666	21,481	18,422	23,566
Agricultural limestone and other	8,804	3,131	5,373						

[1] Quantities of stones not sold by the short ton are expressed in approximate equivalents in short tons; expressed in their selling units, quantities for 1940 are as follows: Building stone (cut stone, slabs, and mill blocks), 7,012,610 cubic feet; monumental stone, 2,378,820 cubic feet; paving blocks, 1,868,790 (number); curbing, 888,740 cubic feet; and flagging, 884,400 cubic feet.
[2] Preliminary.
[3] To avoid disclosing confidential information, sandstone paving blocks are included under "curbing."
[4] Includes sandstone paving blocks.

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

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No. 853.—Glass and Glassware—Production, by Kind: 1935 to 1939

	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1935	1937	1939	1935	1937	1939
Flat glass, total					68,267	100,939	71,363
Window glass	Sq. ft	428,938	616,566	474,886	18,180	31,380	24,326
Obscured glass, incl. cathedral, skylight, and opalescent	do	14,372	27,698	21,917	1,644	3,966	2,235
Wire glass, rough and polished	do	11,961	21,343	16,197	1,369	2,719	2,292
Other flat glass					[1] 47,073	[1] 62,864	42,510
Glassware, pressed or blown, total					209,360	253,100	249,020
Food-product containers					55,839	61,263	60,185
Beverage containers					33,064	57,474	51,219
Medicinal and toilet preparation containers.	Gross	14,579	18,348	17,995	30,345	36,157	38,172
General-purpose and other containers, not listed above.	Dozen	(2)	29,036	25,879	(2)	7,313	6,789
Tableware, machine-made (automatic)					23,361	27,705	28,366
Tableware, hand-made					11,389	13,377	11,655
Lighting glassware					16,500	22,290	21,484
Lenses, except optical [3]	Dozen	(2)	2,927	2,511	(2)	2,485	2,117
Technical, scientific, and industrial glass.					5,998	10,383	9,953
Other pressed and blown glassware					[4] 32,864	14,654	[5] 19,080

[1] Includes value of glass block or brick. [2] Not available; value included in last item.
[3] For headlights, lighthouses, lanterns, etc.; optical lenses are included in "Optical instruments and lenses" industry. [4] Includes items carrying note 2.
[5] Includes fiberglass products, building glass not elsewhere classified, pressed specialties, etc.

No. 854.—Clay Products—Production, by Kind: 1937 and 1939

Industry and product	Unit	Quantity (thousands of specified unit)		Value (thousands of dollars)	
		1937	1939	1937	1939
STRUCTURAL CLAY PRODUCTS					
Brick and hollow structural tile, total				64,208	75,332
Bricks, red burning clays, all sizes [1]	Number	(2)	4,209,797	(2)	49,136
Bricks, buff burning clays, all sizes [1]	do	(2)	516,082	(2)	7,690
Glazed units, brick and hollow tile, all sizes [1]	do	(2)	194,311	(2)	5,847
Unglazed structural clay tile:					
Nonload bearing	Sq. ft	(2)	58,294	(2)	3,269
Load-bearing, back-up tile	do	(2)	72,032	(2)	5,259
Other					4,131
Terra cotta	Ton [3]	29	28	2,915	2,861
Roofing tile	Square	228	243	2,054	2,376
Floor and wall tile (except quarry tile)	Sq. ft	[4] 64,743	66,393	[4] 16,035	16,540
Sewer pipe and kindred products				15,805	18,296
Clay refractories, including refractory cement (clay), total.				49,864	40,497
Fire-clay products:					
Brick, block, or tile (except high-alumina) [5]	Number	700,947	507,324	32,806	25,169
Special shapes	Ton [3]	184	152	4,751	3,833
Other [6]				4,981	4,207
Other clay refractories, etc.				7,326	7,288
Clay products (except pottery), not elsewhere classified.				10,136	10,521
POTTERY AND RELATED PRODUCTS					
Vitreous-china plumbing fixtures				20,625	22,105
Hotel china				10,018	8,855
Whiteware				25,711	28,237
Porcelain electrical supplies				24,837	20,879
Pottery products not elsewhere classified				16,174	17,842

[1] Equivalent to standard brick size. [2] Not available. [3] Of 2,000 pounds.
[4] Includes data on quarry tile. [5] 9-inch equivalent. [6] High-alumina brick, plastic fire brick, and ladle brick.

Source of tables 853 and 854: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 855.—Clay Building Materials—Production of Brick, Tile, and Fire-Clay Products: 1915 to 1938

Note.—For available data for 1939, see table 854.

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
1924	7,159	554	2,030	86,692	12,974	30,931	16,446	24,998	24,842	32,400	40,621
1925	7,562	539	2,475	88,551	11,876	45,428	19,139	29,264	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	32,706	29,426	38,174
1928	6,413	378	2,412	69,333	7,800	40,034	13,642	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	15,904	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. 856.—Salt—Production, Exports, and Imports, 1880 to 1940, and Production, by States and by Kind, 1915 to 1940

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	1930	8,054,440	70,478	54,021
1885	985,411	2,108	440,290	1931	7,358,070	98,710	33,216
1890	1,242,779	2,464	257,323	1932	6,407,973	63,581	28,018
1895	1,913,751	3,602	279,576	1933	7,604,972	105,178	30,132
1900	2,921,708	7,511	199,909	1934	7,612,074	105,365	53,124
1905	3,635,257	34,238	161,159	1935	7,926,897	112,213	51,245
1910	4,242,792	49,013	137,103	1936	8,828,936	76,974	51,041
1915	5,352,409	80,474	122,326	1937	9,241,564	70,111	45,996
1920	6,840,029	139,272	137,654	1938	8,025,768	67,498	39,513
1925	7,397,500	155,079	85,788	1939	9,277,911	124,273	46,033
1929	8,543,560	109,222	36,450	1940	10,003,448	147,044	30,402

State or kind	1915	1920	1925	1930	1935	1939	1940
Production, total	5,352,409	6,840,029	7,397,500	8,054,440	7,926,897	9,277,911	10,003,448
By States:							
Michigan	1,762,430	2,262,915	2,172,600	2,558,290	2,128,171	2,408,872	2,506,523
New York	1,570,446	1,903,101	2,053,970	2,009,280	1,927,822	2,041,492	2,117,671
Ohio	823,234	1,057,802	1,173,590	1,311,440	1,487,315	1,794,788	2,080,133
Kansas	527,123	783,655	812,540	759,800	608,204	641,752	684,053
Louisiana	(1)	265,085	500,350	635,250	702,990	1,072,540	1,132,594
California	146,784	212,008	292,480	350,370	356,222	404,689	469,354
Texas	62,297	91,103	(1)	(1)	268,809	352,008	402,165
Utah	55,279	75,259	88,150	85,240	57,625	68,100	71,472
West Virginia	32,513	29,802	25,870	28,670	65,968	144,727	144,312
Undistributed	372,303	159,299	277,950	416,100	323,771	348,943	395,171
By kinds:							
Manufactured (evaporated)	2,335,823	2,409,924	2,235,170	2,358,610	2,330,042	2,658,577	2,782,741
In brine	1,851,199	2,819,916	2,819,690	3,718,400	3,837,613	4,584,177	4,955,159
Rock salt	1,165,387	1,610,189	2,342,640	1,977,370	1,759,242	2,035,157	2,265,548
Total value [2] (dollars)	11,747,686	29,894,075	26,162,361	25,009,480	21,837,911	24,509,680	26,118,107

[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. 857.—Accidents in Mineral Industries—Number of Men Employed, Killed, and Injured, and Rate: 1925 to 1940

Year	Average days active	Men employed: Actual number	Men employed: Equivalent in 300-day workers	Man-days of employment	Number killed	Number injured: Total	Number injured: Excluding coal mines	Number killed or injured per thousand 300-day workers: Killed	Injured: Total	Injured: Excluding coal mines
1925	222	1,049,579	777,896	233,368,875	2,826	(1)	58,704	3.6	(1)	197.2
1926	242	1,058,843	855,633	256,689,813	3,201	(1)	52,752	3.7	(1)	178.1
1927	225	1,044,537	782,634	234,790,290	2,797	(1)	45,618	3.6	(1)	163.2
1928	231	951,449	733,728	220,118,341	2,629	(1)	38,717	3.6	(1)	146.1
1929	243	928,648	752,809	225,842,583	2,728	(1)	38,806	3.6	(1)	143.1
1930	217	888,514	641,750	192,524,971	2,492	130,580	26,759	3.9	203.5	117.0
1931	188	784,347	492,009	147,602,799	1,707	96,412	16,063	3.5	196.0	99.7
1932	165	671,343	368,852	110,655,616	1,368	68,717	9,745	3.7	186.3	91.6
1933	181	677,722	409,292	122,787,658	1,242	72,342	11,029	3.0	176.7	98.6
1934	195	739,737	481,807	144,542,133	1,429	81,660	13,652	3.0	169.5	100.9
1935	195	783,139	507,847	152,354,170	1,495	82,220	16,045	2.9	161.9	98.3
1936	216	824,514	593,068	177,920,334	1,086	92,644	23,068	2.8	156.2	109.8
1937	217	859,951	622,634	186,790,283	1,759	96,484	28,207	2.8	155.0	117.7
1938	187	774,894	483,523	145,056,875	1,369	71,618	20,304	2.8	148.1	107.3
1939	202	788,925	531,295	159,388,490	1,334	75,495	21,480	2.5	142.1	102.5
1940 [2]	220	801,538	586,685	176,005,500	1,680	82,513	22,732	2.9	140.6	97.8

[1] Not available. [2] Preliminary.

Source: Department of the Interior, Bureau of Mines; see annual bulletins listed in source note, table 858.

No. 858.—Accidents in Mineral Industries—Number of Men Employed, Killed, and Injured, by Industry Groups: 1940 and Earlier Years

Year	Number employed: Actual number	Number employed: Equivalent in 300-day workers	Killed	Injured: Temporary	Injured: Permanent
Metal mines: [1]					
1915	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
1930	103,233	92,900	271	15,091	503
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
1938	103,027	78,353	156	12,347	375
1939	111,909	86,775	173	13,390	320
1940 [3]	121,200	98,600	185	14,600	(2)
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
1930	80,633	68,531	105	7,152	265
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	129
1936	80,022	62,914	91	5,538	179
1937	84,094	67,547	77	6,171	177
1938	77,497	57,519	82	4,869	158
1939	79,449	62,420	48	5,055	149
1940	79,509	63,737	72	5,016	172
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
1930	40,787	44,403	25	2,570	156
1932	21,564	18,474	8	778	59
1933	21,999	19,583	13	1,018	61
1934	26,852	24,472	13	1,243	77
Metallurgical plants—Con.					
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
1938	39,043	37,943	20	2,136	137
1939	41,583	41,981	24	2,081	90
1940 [3]	47,600	47,600	20	2,400	(2)
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
1930	19,855	22,936	28	990	32
1932	12,002	13,862	14	298	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
1938	13,799	15,456	6	262	20
1939	16,609	18,486	11	376	19
1940	19,962	22,579	15	522	22
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)
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	589,866	382,904	1,413	66,344	1,933
1938	541,528	294,252	1,105	49,706	1,608
1939	539,375	321,633	1,078	52,242	1,773
1940	533,267	354,169	1,388	57,630	2,151

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

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, 30, 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 censuses for 1937 and 1939, 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.

The 1939 Census of Manufactures questionnaire, for the first time, called for personnel employed in distribution, construction, etc., separately from the manufacturing employees of the plants, and therefore the data for earlier years probably are not strictly comparable with those for 1939. It is not known how many of the wage earners and the salaried employees reported at previous censuses were engaged in distribution and construction and how many were engaged in manufacturing.

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 in the figures beginning with 1899 as a result of the exclusion from the Census of Manufactures since 1929 of the industries "Coffee and spice, roasting and grinding," "Flax and hemp, dressed," "Gas, illuminating and heating," "Grindstones," "Motion pictures, not including projection in theaters," "Peanuts, walnuts, and other nuts, processed or shelled," and "Railroad repair shops" (both steam and electric).

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 867, 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 867, of data for the respective classes of commodities made as minor or secondary products by establishments engaged primarily in other lines of manufacture.

No. 859.—MANUFACTURES—SUMMARY: 1849 TO 1939

	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture [1]
Factories and hand and neighborhood industries:			*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
1849 [2]	123,025	957,059	236,755	555,124	1,019,107	463,983
1859 [2]	140,433	1,311,246	378,879	1,031,605	1,885,862	854,257
1869 [2]	252,148	2,053,996	[3] 620,467	[3] 1,990,742	[3] 3,385,860	[3] 1,395,119
1879 [2]	253,852	2,732,595	947,954	3,396,824	5,369,579	1,972,756
1889 [2]	355,405	4,251,535	1,891,220	5,162,014	9,372,379	4,210,365
1899 [2]	512,191	5,306,143	2,320,938	7,343,628	13,000,149	5,656,521
Factories, excluding hand and neighborhood industries:						
1899 [2]	204,750	4,501,919	1,892,574	6,385,970	11,032,951	4,646,981
1904 [2]	213,444	5,181,660	2,440,851	8,233,790	14,252,961	6,019,171
1909 [2]	264,826	6,262,242	3,205,548	11,783,160	19,945,249	8,162,089
1914 [2]	269,193	6,613,189	3,787,399	14,020,417	23,442,692	9,422,276
1914 [4]	173,575	6,475,567	3,709,449	13,811,422	23,049,632	9,238,210
1919 [4]	210,268	8,423,964	9,611,002	36,229,015	59,964,027	23,735,012
1921 [4]	192,059	6,475,474	7,451,299	24,397,078	41,649,853	17,252,775
1923 [4]	192,096	8,194,170	10,148,624	33,611,809	58,181,296	24,569,487
1925 [4]	183,877	7,871,409	9,979,649	35,141,601	60,809,225	25,667,624
1927 [4]	187,629	7,848,070	10,099,465	34,010,075	60,335,469	26,325,394
1929 [4]	206,663	8,369,705	10,884,919	37,402,606	67,994,041	30,591,435
1931 [4]	171,450	6,163,144	6,688,541	21,229,356	39,829,888	18,600,532
1933 [4]	139,325	5,787,611	4,940,146	16,549,788	30,557,328	14,007,540
1935 [4]	167,916	7,203,794	7,311,329	[5] 26,441,145	44,993,699	[6] 18,552,553
1937 [4]	166,794	8,569,231	10,112,883	[5] 35,539,333	60,712,872	[6] 25,173,539
1939 [4]	184,230	7,886,567	9,089,941	[5] 32,160,107	56,843,025	[6] 24,682,918

[1] Value of products less cost of materials, containers, fuel, and purchased electric energy.
[2] For all establishments having products valued at $500 or more. [3] Reduced to gold basis.
[4] For all establishments having products valued at $5,000 or more. [5] Includes cost of contract work.
[6] 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: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 860.—Population, Wage Earners, and Production—Indexes: 1899 to 1937

Note.—See general note, p. 845.

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. 861.—Manufacturing Establishments Classified According to Number of Wage Earners: 1937 and 1939

Note.—See general note, p. 845.

Number of wage earners	1937				1939			
	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	166,794	8,569,231	100.0	100.0	184,230	7,886,567	100.0	100.0
None	6,885		4.1		8,315		4.5	
1 to 5	62,164	170,174	37.3	2.0	75,930	203,052	41.2	2.6
6 to 20	46,402	514,487	27.8	6.0	49,015	542,679	26.6	6.9
21 to 50	23,138	750,922	13.9	8.8	23,646	764,814	12.8	9.7
51 to 100	11,911	852,373	7.1	9.9	11,908	848,423	6.5	10.8
101 to 250	9,745	1,522,670	5.8	17.8	9,458	1,472,651	5.1	18.7
251 to 500	3,911	1,363,000	2.3	15.9	3,653	1,268,983	2.0	16.1
501 to 1,000	1,660	1,133,323	1.0	13.2	1,495	1,024,297	.8	13.0
1,001 to 2,500	737	1,080,534	.4	12.6	634	937,136	.3	11.9
2,501 or more	241	1,181,748	.1	13.8	176	824,532	.1	10.5

No. 862.—Manufacturing Establishments Classified by Value of Products: 1939

Note.—See general note, p. 845.

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	184,230	100.0	7,886,567	100.0	56,843,035	100.0	24,682,918	100.0
$5,000 to $19,999	60,593	32.9	189,575	2.4	680,777	1.2	395,900	1.6
$20,000 to $49,999	42,083	22.8	327,340	4.2	1,353,676	2.4	749,596	3.0
$50,000 to $99,999	25,490	13.8	389,637	4.9	1,811,463	3.2	956,006	3.9
$100,000 to $249,999	24,718	13.4	768,358	9.7	3,920,974	6.9	1,938,317	7.9
$250,000 to $499,999	13,066	7.1	839,222	10.6	4,626,937	8.1	2,167,507	8.8
$500,000 to $999,999	8,706	4.7	1,038,151	13.2	6,110,939	10.8	2,816,572	11.4
$1,000,000 to $2,499,999	6,088	3.3	1,463,278	18.6	9,298,230	16.4	4,276,718	17.3
$2,500,000 to $4,999,999	2,013	1.1	904,184	11.5	6,918,927	12.2	3,160,708	12.8
$5,000,000 and over	1,473	.8	1,966,822	24.9	22,121,102	38.9	8,221,595	33.3

Source of tables 860, 861, and 862: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 863.—Industrial Production—Indexes, by Groups: 1924 to 1941

Note.—1935-39 average=100. This is a revised series. For discussion of this revision, see Federal Reserve Bulletin for September 1941. The monthly indexes have been adjusted for seasonal variations and for the varying number of working days in the month.

Year and month	Total	Manufactures										
		Total	Durable manufactures							Nondurable manufactures		
			Total	Iron and steel	Machinery	Transportation equipment	Nonferrous metal and products	Lumber and products	Stone, clay, and glass products	Total	Textiles and products	Leather and products
1924	82	81	95	90	81	94	93	139	91	69	72	86
1925	90	90	107	108	89	106	104	148	101	76	84	88
1926	96	95	114	115	102	109	113	148	105	79	84	90
1927	95	94	107	108	99	89	108	144	106	83	92	94
1928	99	99	117	121	106	108	118	142	110	85	87	93
1929	110	110	132	133	130	134	136	146	110	93	94	95
1930	91	90	98	97	100	91	106	105	96	84	74	84
1931	75	74	67	61	66	62	83	76	77	79	79	82
1932	58	57	41	32	43	38	52	51	51	70	71	76
1933	69	68	54	54	50	48	60	63	54	79	88	88
1934	75	74	65	61	69	69	62	64	64	81	76	91
1935	87	87	83	81	83	93	80	85	77	90	93	99
1936	103	104	108	114	105	110	104	105	103	100	104	103
1937	113	113	122	123	126	123	122	113	114	106	106	102
1938	89	87	78	68	82	72	80	90	92	95	85	93
1939	108	108	109	114	104	103	115	106	114	108	112	104
1940	123	124	138	147	135	145	137	116	121	113	114	97
1940												
July	122	123	136	159	133	129	131	107	115	113	113	94
August	124	126	143	163	138	149	137	114	119	112	113	97
September	127	129	151	169	145	159	143	121	124	112	116	95
October	130	134	155	172	149	165	149	123	126	116	123	97
November	134	137	157	171	152	171	155	127	130	120	135	107
December	139	142	164	174	164	177	162	132	140	124	140	109
1941												
January	140	144	171	179	168	190	167	137	154	123	138	107
February	144	148	176	179	177	203	173	135	158	126	143	108
March	147	151	180	184	185	207	179	128	150	127	146	114
April	144	153	180	181	194	197	183	132	142	131	150	114
May	154	159	190	184	206	228	189	132	141	135	157	123
June	159	164	195	184	214	243	184	135	150	139	156	130

Year and month	Manufactures—continued								Minerals		
	Nondurable manufactures—Continued										
	Manufactured food products	Alcoholic beverages	Tobacco products	Paper and products	Printing and publishing	Petroleum and coal products	Chemicals	Rubber products	Total	Fuels	Metals
1924	81	--------	83	61	79	59	56	66	89	86	107
1925	85	--------	85	66	84	69	63	81	92	87	120
1926	87	--------	88	72	92	76	70	80	99	95	125
1927	88	--------	90	74	93	78	73	83	100	97	116
1928	93	--------	92	79	96	87	78	98	99	95	120
1929	101	--------	96	85	104	96	89	100	107	103	134
1930	100	--------	93	79	97	89	87	78	93	91	101
1931	90	--------	87	74	88	80	78	72	80	82	67
1932	79	--------	79	65	74	69	68	64	66	72	35
1933	83	--------	80	76	75	74	76	77	76	80	50
1934	88	74	87	75	80	79	83	86	80	83	58
1935	89	89	90	86	89	85	89	93	86	89	73
1936	98	109	99	98	99	97	99	107	99	99	102
1937	103	108	103	107	109	108	112	104	112	109	127
1938	101	96	102	95	96	100	96	83	97	99	86
1939	108	98	106	114	106	110	104	113	106	105	113
1940	114	101	109	123	111	116	114	123	117	114	135

No. 863.—Industrial Production—Indexes, by Groups: 1924 to 1941—Con.

Year and month	Manufactures—continued								Minerals		
	Nondurable manufactures—Continued										
	Manufactured food products	Alcoholic beverages	Tobacco products	Paper and products	Printing and publishing	Petroleum and coal products	Chemicals	Rubber products	Total	Fuels	Metals
1940											
July	110	109	103	130	114	112	117	109	120	117	137
August	114	92	106	124	110	113	115	115	113	112	123
September	110	103	108	120	108	116	114	124	117	115	128
October	118	103	115	122	109	116	116	126	113	109	137
November	117	96	113	125	110	118	118	132	118	113	148
December	121	101	114	130	112	120	121	144	119	113	152
1941											
January	117	105	113	129	111	122	122	141	118	114	144
February	120	108	116	128	114	122	123	153	118	113	152
March	121	104	117	132	116	123	123	155	125	121	148
April	123	107	120	134	118	121	132	158	96	86	150
May	124	114	119	142	122	125	135	162	125	121	149
June	127	122	118	145	128	127	143	192	133	129	161

Source: Board of Governors of the Federal Reserve System. Figures published monthly in Federal Reserve Bulletin.

No. 864.—Manufactures—Prime Movers, Motors, and Generators, by Number and Rated Capacity: 1899 to 1939

[See fourth paragraph of general note, p. 845]

	1899	1909	1919	1929	1939
Number of establishments reporting power equipment	[1] 131,309	[1] 181,994	[1] 219,398	190,091	[2] 179,674
Prime movers, horsepower	[3] 9,633,215	[4] 16,393,467	19,433,096	19,328,309	21,239,195
Electric motors driven by purchased energy, horsepower	178,176	1,669,226	8,964,467	21,793,762	29,213,085
Prime movers:					
Steam engines:					
Number	[5] 127,145	[5] 148,001	110,609	62,395	42,538
Horsepower	[5] 7,999,241	[5] 13,806,053	13,346,169	9,157,755	6,533,429
Steam turbines:					
Number	(5)	(5)	5,655	8,883	12,631
Horsepower	(5)	(5)	3,098,698	7,409,748	11,295,872
Diesel and semi-Diesel engines:					
Number	(6)	(6)	(6)	(6)	5,311
Horsepower	(6)	(6)	(6)	(6)	630,181
Other internal-combustion engines:					
Number	[6] 14,231	[6] 33,866	[6] 30,080	[6] 10,991	10,278
Horsepower	[6] 132,961	[6] 739,736	[6] 1,224,235	[6] 1,203,303	1,176,044
Hydroturbines and water wheels:					
Number	[7] 23,078	[7] 21,226	[7] 13,952	6,511	3,854
Horsepower	[7] 1,453,821	[7] 1,819,465	[7] 1,763,994	1,557,503	1,603,669
Electric generators, kilowatt rating	(8)	(8)	(8)	7,591,999	9,658,828
Electric motors, total horsepower	475,342	4,582,689	15,611,705	33,844,131	45,291,319
Driven by purchased energy:					
Number	(8)	193,898	954,916	2,655,142	4,138,287
Horsepower	178,176	1,669,226	8,964,467	21,793,762	29,213,085
Driven by energy generated in plant:					
Number	16,317	180,791	465,519	829,959	1,224,478
Horsepower	297,166	2,913,463	6,647,238	12,050,369	16,078,234

[1] Because of the change from $500 to $5,000 in the minimum-value-of-products limit, the "Number of establishments reporting power equipment" figures for 1919 and earlier years are not comparable with those for 1929 and 1939. This change did not, however, materially impair the comparableness of the figures for the other items in this table.

[2] Returns for "Logging camps and logging contractors (not operating mills)," numbering 967, were excluded from power tabulations.

[3] Includes 47,192 horsepower reported as other owned power, not distributed by type of prime mover.

[4] Includes 28,213 horsepower reported as other owned power, not distributed by type of prime mover.

[5] Figures for "Steam engines" include data for "Steam turbines," not reported separately.

[6] Figures for "Other internal-combustion engines" include data for "Diesel and semi-Diesel engines," not reported separately.

[7] Includes data for water motors.

[8] Not available.

Source: Dept. of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures, 1939.

No. 865.—Manufactures—Rated Capacity of Prime Movers, Motors, and Generators, and Consumption of Electric Energy, by Geographic Divisions and by Industry Groups: 1939

	Establishments		Prime movers, horsepower	Generators, kilowatt rating	Electric motors, horsepower			Electric energy (millions of kilowatt-hours)		
	Number	Number reporting power equipment			Total	Driven by purchased energy	Driven by plant energy	Generated in plant	Sold	Purchased
United States	**184, 230**	[1] **179, 674**	**21, 239, 195**	**9, 658, 828**	**45, 291, 319**	**29, 213, 085**	**16, 078, 234**	**28, 751**	**2, 922**	**45, 040**
New England	16, 136	15, 733	1, 968, 574	1, 045, 303	3, 867, 593	2, 518, 491	1, 349, 102	2, 380	98	3, 386
Middle Atlantic	56, 291	54, 922	5, 080, 350	2, 077, 345	11, 542, 265	7, 606, 740	3, 935, 525	5, 592	882	12, 950
East North Central	40, 415	39, 825	6, 423, 434	3, 130, 324	15, 592, 605	9, 610, 304	5, 982, 301	9, 416	980	10, 883
West North Central	14, 947	14, 772	828, 385	372, 094	2, 103, 829	1, 487, 058	616, 771	1, 047	157	2, 051
South Atlantic	17, 317	16, 666	2, 759, 673	1, 433, 118	4, 737, 398	2, 897, 014	1, 840, 384	5, 389	413	5, 694
East South Central	7, 275	6, 962	1, 093, 164	402, 845	1, 904, 465	1, 305, 852	598, 613	1, 418	79	3, 787
West South Central	10, 021	9, 804	1, 433, 406	458, 217	1, 689, 754	1, 050, 992	638, 762	1, 367	85	1, 961
Mountain	4, 011	3, 869	530, 589	226, 342	799, 562	528, 576	270, 986	608	119	1, 065
Pacific	17, 817	17, 121	1, 121, 620	513, 240	3, 053, 848	2, 208, 058	845, 790	1, 534	109	3, 263
Food and kindred products	51, 448	50, 972	1, 985, 395	720, 413	4, 652, 156	3, 656, 029	996, 127	1, 470	80	4, 998
Tobacco manufactures	765	751	49, 665	31, 512	80, 661	50, 846	29, 815	53	4	66
Textile-mill products and other fiber manufactures	6, 444	6, 236	1, 441, 513	899, 354	3, 184, 229	2, 228, 977	955, 252	1, 774	172	5, 202
Apparel and other finished products made from fabrics and similar materials	20, 206	18, 779	24, 194	14, 050	231, 806	220, 271	11, 535	12	1	342
Lumber and timber basic products	11, 520	9, 842	1, 687, 664	531, 935	1, 709. 125	916, 470	792, 655	896	185	526
Furniture and finished lumber products	8, 457	8, 394	406, 360	181, 084	940, 288	634, 436	305, 852	192	5	418
Paper and allied products	3, 279	3, 237	2, 792, 900	1, 546, 870	3, 498, 419	1, 336, 303	2, 162, 116	6, 347	212	3, 258
Printing, publishing, and allied industries	24, 878	24, 809	53, 679	33, 088	763, 903	717, 994	45, 909	50	3	813
Chemicals and allied products	9, 203	9, 130	2, 106, 028	1, 103, 147	2, 932, 044	1, 681, 652	1, 250, 392	4, 433	176	5, 554
Products of petroleum and coal	989	977	1, 389, 421	409, 210	1, 770, 365	1, 018, 891	751, 474	1, 646	115	1, 909
Rubber products	595	579	288, 170	167, 248	983, 332	701, 757	281, 575	508	5	1, 082
Leather and leather products	3, 508	3, 448	150, 166	88, 972	418, 122	309, 866	108, 256	136	21	287
Stone, clay, and glass products	7, 024	6, 908	947, 183	517, 256	2, 991, 046	2, 089, 488	901, 558	1, 627	34	3, 259
Iron and steel and their products, except machinery	8, 994	8, 911	5, 344, 511	1, 877, 701	12, 348, 399	7, 277, 940	5, 070, 459	5, 949	1, 364	7, 651
Nonferrous metals and their products	5, 600	5, 558	671, 692	412, 526	1, 553, 990	1, 212, 772	341, 218	1, 474	312	4, 794
Electrical machinery	2, 014	1, 997	354, 449	248, 697	1, 016, 877	664, 874	352, 003	470	53	1, 015
Machinery (except electrical)	9, 506	9, 459	434, 109	253, 494	2, 746, 416	2, 177, 888	568, 528	353	11	1, 643
Automobiles and automobile equipment	1, 133	1, 069	853, 672	502, 339	2, 231, 363	1, 393, 294	838, 069	1, 175	128	1, 421
Transportation equipment except automobiles	968	959	131, 924	60, 641	826, 261	574, 739	251, 522	67	4	419
Miscellaneous industries	7, 699	7, 659	126, 500	59, 291	412, 517	348, 598	63, 919	119	37	383

[1] Returns for "Logging camps and logging contractors (not operating mills)," numbering 967, were excluded from power tabulations.

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

No. 866.—Inventories in the Hands of Manufacturers at the Beginning and End of 1937 and 1939, and by Industry Groups, 1939

Note.—In thousands of dollars. Statistics on inventories were not collected for any of the industries in the printing and publishing group, nor were inventory statistics collected for contract shops classified in the textile industries. The value of products of those industries for which inventory data were not collected amounted to $2,846,966,000.

Industry group	Inventories						Value of products		
	Beginning of year			End of year					
	Total	Finished products [1]	Materials, supplies, etc.[2]	Total	Finished products [1]	Materials, supplies, etc.[2]	Total	For establishments reporting inventories [3]	For establishments not reporting inventories
1937	8,467,645	3,522,969	4,944,676	9,862,531	4,313,556	5,548,975	57,913,999	54,768,239	3,145,760
1939	8,926,468	3,959,996	4,966,472	9,632,350	3,903,094	5,729,256	53,996,059	52,094,455	1,901,605
Food and kindred products	1,266,054	774,061	491,993	1,361,680	784,230	577,449	10,618,026	10,257,211	360,815
Tobacco manufactures	179,675	21,783	157,892	183,937	24,008	159,929	1,322,189	1,320,035	2,154
Textile-mill products and other fiber manufactures	758,971	302,801	456,169	828,349	287,433	540,916	3,884,194	3,655,872	228,322
Apparel and other finished products made from fabrics and similar materials	283,909	123,310	160,598	347,978	145,584	202,394	3,102,998	2,420,094	682,904
Lumber and timber basic products	276,601	183,556	93,045	267,692	177,373	90,319	1,122,058	1,058,404	63,654
Furniture and finished lumber products	239,600	90,039	149,561	256,792	90,908	165,884	1,267,724	1,245,592	22,132
Paper and allied products	281,792	92,042	189,751	298,272	90,049	208,223	2,019,568	1,969,546	50,023
Chemicals and allied products	703,275	320,329	382,945	713,729	292,816	420,913	3,733,658	3,692,478	41,180
Products of petroleum and coal	481,322	282,329	198,993	479,098	284,606	194,492	2,953,973	2,844,274	109,700
Rubber products	146,362	76,387	69,975	169,558	82,187	87,371	902,329	898,370	3,958
Leather and leather products	237,334	90,999	146,335	263,168	91,567	171,601	1,389,514	1,362,947	26,567
Stone, clay, and glass products	264,212	153,250	110,962	266,182	144,659	121,523	1,440,151	1,383,192	56,959
Iron and steel and their products, except machinery	1,346,864	481,288	865,577	1,483,103	476,043	1,007,060	6,591,530	6,425,111	166,419
Nonferrous metals and their products	434,454	172,792	261,662	439,472	147,753	291,719	2,572,854	2,557,082	15,773
Electrical machinery	386,427	173,284	213,143	414,975	155,182	259,793	1,727,390	1,724,718	2,672
Machinery (except electrical)	942,902	439,444	503,458	995,808	428,435	567,373	3,254,174	3,233,366	20,808
Automobiles and automobile equipment	338,567	86,629	251,938	411,257	101,249	310,008	4,047,873	4,047,510	363
Transportation equipment except automobiles	140,742	12,417	128,325	214,011	13,825	200,186	882,897	879,553	3,344
Miscellaneous industries	217,406	83,256	134,151	237,289	85,186	152,103	1,162,958	1,119,098	43,860

[1] Includes the value of goods produced by contract work on materials owned by the manufacturers reporting.
[2] Includes the value of fuel, work in progress, and all other inventories.
[3] Includes the value of products of establishments reporting no inventories on hand.

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

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939

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. 845

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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
All industries, total	1939	184,230	7,886,567	9,089,941	32,160,107	56,843,025	24,682,918
	1937	166,794	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
	1929	206,663	8,369,705	10,884,919	[2]37,402,606	67,994,041	30,591,435
Food and kindred products, total	1939	51,448	823,693	913,985	7,062,039	10,618,026	3,555,987
	1937	48,763	890,503	981,409	7,924,135	11,294,890	3,370,755
	1935	48,982	800,108	804,150	6,738,854	9,543,015	2,804,162
	1929	55,325	740,937	895,713	[2]8,318,856	11,658,705	3,339,848
Meat products, total	1939	3,387	147,263	185,213	2,510,514	3,002,639	492,125
	1937	2,730	148,849	191,095	2,648,367	3,107,926	459,559
Meat packing, wholesale	1939	1,478	119,853	161,524	2,226,539	2,648,326	421,787
	1937	1,136	126,917	169,723	2,385,821	2,785,548	399,727
Custom slaughtering, wholesale	1939	40	640	689	478	1,933	1,455
	1937	24	560	664	270	1,810	1,541
Sausages, prepared meats, and other meat products—not made in meat-packing establishments.	1939	1,067	11,277	13,473	165,045	208,048	43,003
	1937	1,006	11,584	13,879	170,405	208,188	37,784
Sausage casings—not made in meat-packing establishments.	1939	37	987	882	3,709	6,015	2,305
	1937	31	875	899	4,415	6,539	2,124
Poultry dressing and packing, wholesale.	1939	765	14,506	8,645	114,743	138,318	23,575
	1937	533	8,913	5,931	87,457	105,841	18,384
Dairy products, total	1939	9,535	50,756	54,539	870,023	1,153,560	283,537
	1937	9,803	53,461	57,229	961,196	1,247,795	286,599
Creamery butter	1939	3,506	17,953	18,379	418,752	492,221	73,470
	1937	3,716	19,437	19,619	510,114	589,767	79,652
Cheese	1939	2,682	5,009	5,156	91,440	108,207	16,767
	1937	2,567	4,482	4,359	95,672	112,786	17,114
Condensed and evaporated milk	1939	562	9,705	11,234	163,523	209,756	46,233
	1937	601	8,967	9,964	166,606	210,718	44,112
Ice cream and ices	1939	2,734	15,711	17,344	145,924	285,807	139,883
	1937	2,885	18,664	21,269	143,587	282,003	138,416
Special dairy products	1939	51	2,378	2,427	50,384	57,569	7,185
	1937	34	1,911	2,017	45,217	52,523	7,306
Canned and preserved foods, total.	1939	3,053	134,471	88,741	520,630	838,126	317,496
	1937	3,093	155,118	101,215	546,727	866,338	319,611
Canned fish, crustacea, and mollusks.	1939	214	15,735	7,228	40,022	65,456	25,434
	1937	217	16,358	7,117	38,973	63,568	24,595
Cured fish	1939	114	1,893	1,670	10,972	15,615	4,643
	1937	104	1,696	1,460	9,192	13,842	4,650
Canned and dried fruits and vegetables (including canned soups).	1939	2,007	98,022	65,235	356,281	587,343	231,063
	1937	2,213	119,370	78,201	390,930	629,882	238,952
Preserves, jams, jellies, and fruit butters.	1939	171	3,717	3,126	26,682	38,026	11,344
	1937	146	4,582	3,769	29,020	41,314	12,293

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Food, etc.—Continued.							
Pickled fruits and vegetables and vegetable sauces and seasonings.	1939	377	9,908	7,393	42,619	72,637	30,019
	1937	279	8,653	6,814	36,808	63,689	26,882
Salad dressings	1939	134	2,556	2,434	37,873	48,942	11,069
	1937	113	2,487	2,522	36,915	45,901	8,986
Quick-frozen foods	1939	36	2,640	1,656	6,183	10,107	3,925
	1937	21	1,963	1,332	4,888	8,141	3,252
Grain-mill products, total	1939	3,746	50,682	56,606	914,504	1,240,464	325,959
	[3] 1937	3,537	51,138	58,173	1,194,937	1,482,870	287,932
Flour and other grain-mill products.	1939	2,143	24,771	28,370	506,062	649,943	143,882
	1937	2,238	26,390	30,186	722,711	856,310	133,600
Prepared feeds (including mineral) for animals and fowls.	1939	1,383	15,401	16,253	302,640	401,880	99,240
	1937	1,126	14,397	15,839	338,505	415,211	76,706
Cereal preparations	1939	70	7,458	9,857	58,034	128,383	70,349
	1937	71	7,725	10,419	85,181	150,861	65,680
Rice cleaning and polishing	1939	72	2,346	1,533	33,803	42,363	8,561
	1937	61	2,218	1,356	38,816	46,853	8,037
Blended and prepared flour made from purchased flour.	1939	78	706	593	13,966	17,894	3,928
	[3] 1937	41	408	373	9,725	13,634	3,909
Bakery products, total	1939	18,399	230,706	290,551	649,477	1,411,817	762,340
	1937	17,193	239,388	293,994	727,022	1,426,163	699,141
Bread and other bakery products (except biscuit, crackers, and pretzels).	1939	18,043	201,533	262,002	567,427	1,211,024	643,597
	1937	16,874	210,597	265,354	629,267	1,217,865	588,598
Biscuit, crackers, and pretzels	1939	356	29,173	28,550	82,049	200,793	118,743
	1937	319	28,791	28,641	97,755	208,298	110,543
Sugar, total	1939	190	28,760	31,131	441,845	557,793	115,947
	1937	182	27,611	30,086	452,371	561,178	108,807
Cane sugar—except refineries	1939	78	4,217	2,573	23,017	33,527	10,510
	1937	72	4,221	2,380	20,722	29,151	8,429
Cane-sugar refining	1939	27	14,133	16,197	333,877	389,870	55,993
	1937	23	14,024	15,973	362,653	424,631	61,978
Beet sugar	1939	85	10,410	12,361	84,951	134,396	49,445
	1937	87	9,366	11,733	68,996	107,396	38,399
Confectionery and related products, total.	1939	1,318	58,831	52,082	251,825	457,563	205,738
	1937	1,291	63,525	54,536	273,801	464,907	191,106
Candy and other confectionery products.	1939	1,252	49,740	41,085	170,736	297,762	127,026
	1937	1,226	53,722	43,441	182,781	305,839	123,058
Chocolate and cocoa products	1939	39	6,464	7,711	63,460	99,018	35,559
	1937	40	7,402	8,129	74,131	102,346	28,215
Chewing gum	1939	27	2,627	3,286	17,630	60,783	43,153
	1937	25	2,401	2,967	16,888	56,722	39,833
Beverages, total	1939	5,745	67,777	95,293	432,143	1,088,340	656,198
	1937	5,327	92,974	130,375	559,578	1,208,805	649,226
Nonalcoholic beverages	1939	4,504	21,265	20,345	153,935	365,779	211,844
	1937	3,920	27,979	30,981	112,380	276,779	164,399

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[3] Not comparable with figures for 1939; blended flour establishments were not canvassed for 1937.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Food, etc.—Continued.							
Malt liquors	1939	605	36,088	62,231	162,897	526,077	363,180
	1937	653	47,037	79,275	201,917	537,105	335,189
Malt	1939	52	1,459	2,593	39,296	58,479	19,183
	1937	56	1,644	2,923	76,118	94,630	18,512
Wines	1939	301	2,056	2,023	19,387	32,782	13,395
	1937	337	3,005	3,051	23,586	42,733	19,147
Liquors, distilled	1939	135	4,091	4,885	28,384	56,080	27,696
	1937	151	6,215	7,412	73,200	113,103	39,903
Liquors, rectified or blended	1939	148	2,818	3,216	28,245	49,144	20,899
	1937	210	7,094	6,732	72,378	144,455	72,077
Miscellaneous food preparations and kindred products, total.	1939	6,075	54,447	59,828	471,077	867,724	396,647
	1937	5,607	58,439	64,706	560,136	928,908	368,772
Baking powder, yeast, and other leavening compounds.	1939	47	2,334	3,654	14,462	31,775	17,312
	1937	40	2,380	3,761	13,330	30,279	16,949
Cooking and other edible fats and oils, not elsewhere classified.	1939	56	4,672	5,397	154,358	186,252	31,895
	1937	48	4,901	5,651	204,383	239,495	35,112
Oleomargarine—not made in meat-packing establishments.	1939	18	984	1,295	21,734	34,102	12,367
	1937	16	1,214	1,607	30,987	44,563	13,575
Corn sirup, corn sugar, corn oil, and starch.	1939	35	6,764	10,586	66,916	119,408	52,493
	1937	27	7,010	10,411	96,462	135,820	39,358
Flavoring extracts and flavoring sirups, not elsewhere classified.	1939	477	3,589	3,764	50,168	139,902	89,734
	1937	398	4,162	4,274	46,280	117,897	71,617
Vinegar and cider	1939	132	1,059	877	4,266	7,506	3,240
	1937	117	974	836	3,774	6,427	2,653
Ice, manufactured	1939	3,975	15,912	17,692	26,010	130,166	104,156
	1937	3,847	18,705	21,603	27,517	136,542	109,025
Macaroni, spaghetti, vermicelli, and noodles.	1939	328	6,013	5,383	26,929	46,153	19,224
	1937	319	6,452	5,719	32,836	50,359	17,522
Food preparations, not elsewhere classified.	1939	1,007	13,120	11,181	106,234	172,459	66,225
	1937	795	12,641	10,843	104,566	167,526	62,960
Tobacco manufactures, total	1939	765	87,525	68,500	972,037	1,322,189	350,152
	1937	852	92,158	70,291	947,628	1,272,688	325,059
	1935	890	90,543	59,448	809,025	1,093,400	284,375
	1929	1,788	116,119	94,579	[2] 429,272	1,246,242	(4)
Cigarettes	1939	35	27,426	26,068	811,068	1,037,748	226,679
	1937	34	26,149	24,182	771,522	968,927	197,405
Cigars	1939	598	50,897	34,240	79,249	160,754	81,505
	1937	693	55,879	37,522	87,341	169,237	81,895
Tobacco (chewing and smoking) and snuff.	1939	132	9,202	8,193	81,719	123,687	41,968
	1937	125	10,130	8,587	88,766	134,524	45,759
Textile-mill products and other fiber manufactures, total. [5]	1939	6,444	1,082,602	908,379	2,108,926	3,930,678	1,821,752
	1937	6,096	1,138,219	974,256	2,314,647	4,100,958	1,786,311

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.
[4] No comparable figure available as the internal-revenue tax is included in value of products but not in cost of materials, etc.
[5] No comparable figures available for 1929 and 1935.

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939—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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
Textiles, etc.—Continued.							
Cotton manufactures, total	1939	1,248	409,317	292,536	595,394	1,168,171	572,777
	1937	1,272	445,501	332,188	748,616	1,340,646	592,031
Cotton broad woven goods	1939	661	312,249	225,175	431,023	869,354	438,331
	1937	713	346,015	263,669	567,792	1,031,724	463,933
Cotton narrow fabrics	1939	163	13,318	11,776	22,934	48,501	25,566
	1937	156	12,616	11,131	22,115	43,486	21,371
Cotton yarn	1939	349	70,452	45,055	114,741	198,940	84,199
	1937	350	75,198	47,532	135,489	219,495	84,006
Cotton thread	1939	75	13,298	10,529	26,695	51,376	24,681
	1937	53	11,672	9,855	23,219	45,940	22,721
Rayon and silk manufactures, total.	1939	829	119,821	93,343	270,331	441,900	171,569
	1937	861	117,946	93,619	249,749	408,136	158,387
Rayon broad woven goods—regular factories or jobbers engaging contractors.	1939	196	65,432	53,435	177,443	272,714	95,271
	1937	177	54,827	46,730	148,862	226,367	77,505
Rayon broad woven goods—contract factories.	1939	79	4,313	3,120	627	5,307	4,680
	1937	62	3,264	2,316	529	3,747	3,219
Rayon narrow fabrics	1939	120	5,999	4,755	9,014	20,516	11,503
	1937	114	5,694	4,941	8,689	19,122	10,433
Rayon yarn and thread, spun or thrown—regular factories or jobbers engaging contractors.	1939	52	5,930	3,997	18,627	26,471	7,844
	1937	54	5,548	3,858	14,993	22,391	7,397
Rayon throwing and spinning—contract factories.	1939	32	2,423	1,480	592	3,066	2,474
	1937	25	1,937	1,191	472	2,400	1,927
Silk broad woven goods—regular factories or jobbers engaging contractors.	1939	82	8,754	7,606	21,639	35,732	14,094
	1937	136	15,342	12,785	39,135	61,724	22,589
Silk broad woven goods—contract factories.	1939	37	1,096	725	132	1,102	970
	1937	60	2,865	1,922	430	2,968	2,539
Silk narrow fabrics	1939	100	4,309	3,852	4,823	13,133	8,310
	1937	84	4,605	4,266	5,588	13,981	8,393
Silk yarn and thread spun or thrown—regular factories or jobbers engaging contractors.	1939	53	9,191	6,736	34,027	48,005	13,978
	1937	53	10,574	7,822	27,419	40,159	12,740
Silk throwing and spinning—contract factories.	1939	78	12,374	7,638	3,408	15,853	12,446
	1937	96	13,290	7,789	3,633	15,278	11,645
Woolen and worsted manufactures, total.	1939	722	149,915	143,494	451,400	735,905	284,505
	1937	704	158,841	158,642	533,402	823,887	290,485
Woolen and worsted manufactures—regular factories or jobbers engaging contractors.	1939	583	140,022	133,488	422,349	685,312	262,962
	1937	591	149,795	149,019	508,890	778,784	269,894
Woolen and worsted manufactures—contract factories.	1939	76	6,072	6,061	2,097	13,157	11,059
	1937	58	5,591	5,765	2,137	11,438	9,301
Dyeing and finishing woolen and worsted.	1939	63	3,821	3,945	26,953	37,437	10,484
	1937	55	3,455	3,858	22,376	33,665	11,289
Knit goods, total	1939	2,089	236,628	202,763	357,396	714,429	357,032
	1937	1,828	233,822	200,631	333,413	667,933	334,520
Hosiery—full-fashioned	1939	499	97,200	100,775	121,123	277,170	156,047
	1937	354	89,358	98,755	96,944	237,949	141,006
Hosiery—seamless	1939	433	61,852	41,862	66,575	138,665	72,090
	1937	391	61,102	37,509	62,974	123,626	60,653

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Textiles, etc.—Continued.							
Knitted cloth	1939	229	10,917	10,166	44,206	68,663	24,457
	1937	213	11,360	10,558	44,298	68,001	23,703
Knitted outerwear (except knit gloves)—regular factories or jobbers engaging contractors.	1939	476	18,440	15,518	58,111	97,641	39,530
	1937	505	23,424	19,504	58,867	102,244	43,378
Knitted outerwear (except knit gloves)—contract factories.	1939	233	4,109	3,198	769	6,550	5,780
	1937	164	2,715	2,050	658	4,592	3,934
Knitted underwear	1939	199	38,536	27,405	61,614	113,353	51,739
	1937	186	41,237	29,328	65,492	121,304	55,812
Knitted gloves	1939	20	5,574	3,839	4,998	12,386	7,387
	1937	15	4,626	2,928	4,181	10,216	6,035
Dyeing and finishing textiles, except woolen and worsted, total.	1939	580	63,048	65,596	150,310	294,850	144,539
	1937	530	64,781	68,343	94,824	222,357	127,533
Dyeing and finishing cotton, rayon, silk, and linen textiles.	1939	468	60,237	61,745	140,472	271,167	130,695
	1937	442	61,552	64,220	88,633	205,091	116,458
Cloth sponging and miscellaneous special finishing.	1939	112	2,811	3,852	9,838	23,682	13,844
	1937	88	3,229	4,123	6,191	17,266	11,075
Carpets, rugs, and other floor coverings, total.	1939	162	38,892	46,165	105,672	239,953	134,282
	1937	151	44,871	49,221	135,334	260,927	125,593
Carpets and rugs, wool	1939	43	25,590	30,144	61,066	140,338	79,272
	1937	54	30,346	31,702	80,672	158,778	78,106
Carpet yarn, woolen and worsted.	1939	18	3,137	3,500	11,869	19,983	8,113
	1937	17	3,595	4,044	17,312	23,451	6,138
Carpets, rugs, and mats made from such materials as paper fiber, grass, jute, flax, sisal, cotton, cocoa fiber, and rags.	1939	84	3,137	2,116	4,368	9,758	5,391
	1937	64	2,823	2,098	4,442	9,514	5,073
Linoleum, asphalted-felt-base and other hard-surface floor coverings, not elsewhere classified.	1939	17	7,028	10,406	28,369	69,875	41,506
	1937	16	8,107	11,378	32,908	69,184	36,276
Hats, except cloth and millinery, total.	1939	254	23,639	24,272	53,094	101,256	48,163
	1937	229	24,693	25,628	57,791	106,943	49,152
Hat bodies and hats, fur-felt	1939	43	9,928	11,837	16,988	39,501	22,513
	1937	38	11,372	13,281	20,765	43,360	22,595
Hat bodies and hats, wool-felt	1939	12	4,421	4,210	8,174	16,010	7,836
	1937	14	4,038	3,714	8,547	15,473	6,926
Hats, straw	1939	11	488	438	727	1,549	822
	1937	12	584	478	804	1,605	801
Hatters' fur	1939	37	1,893	1,579	7,256	10,956	3,701
	1937	28	1,705	1,517	7,373	11,073	3,700
Finishing of men's and boys' hats of fur-felt, wool-felt, and straw.	1939	151	6,909	6,207	19,949	33,240	13,291
	1937	137	6,994	6,638	20,302	35,432	15,130
Finishing of men's and boys' hats of fur-felt.	1939	115	4,587	4,267	15,199	24,078	8,878
	[6] 1937	102	4,554	4,424	13,968	23,415	9,447
Finishing of men's and boys' hats of wool-felt.	1939	10	151	147	656	981	325
	1937	(6)	(6)	(6)	(6)	(6)	(6)]
Finishing of men's and boys' hats of straw.	1939	26	2,171	1,793	4,094	8,181	4,087
	1937	35	2,440	2,214	6,334	12,017	5,683

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[6] Finishing of men's and boys' hats of wool-felt included with finishing of men's and boys' hats of fur-felt.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Textiles, etc.—Continued.							
Miscellaneous textile goods, total.	1939	560	41,342	40,209	125,329	234,213	108,885
	1937	521	47,764	45,985	161,517	270,128	108,611
Felt goods, wool, hair, and jute (except woven felts and hat bodies and hats).	1939	37	3,346	3,857	13,048	23,574	10,526
	1937	39	3,711	4,529	18,649	29,649	11,000
Lace goods	1939	63	7,254	8,107	8,785	24,138	15,353
	1937	57	8,109	9,037	10,534	28,342	17,809
Batting, padding, and wadding; upholstery filling.	1939	124	4,504	4,120	16,921	30,213	13,292
	1937	110	4,645	4,353	23,888	36,870	12,982
Processed waste and recovered wool fibers—regular factories or jobbers engaging contractors.	1939	126	4,225	3,370	22,234	31,525	9,291
	1937	103	4,861	4,081	26,269	36,472	10,203
Processed waste and recovered wool fibers—contract factories.	1939	27	619	564	245	1,449	1,204
	1937	22	557	557	286	1,437	1,151
Artificial leather and oilcloth	1939	36	3,976	5,391	25,250	43,434	18,184
	1937	33	3,893	5,291	28,038	40,879	12,841
Linen goods	1939	9	1,735	1,496	3,351	6,298	2,947
	1937	10	1,613	1,431	3,484	5,695	2,210
Jute goods (except felt)	1939	22	3,586	3,118	7,783	16,897	9,114
	1937	29	6,332	5,023	12,347	24,365	12,018
Cordage and twine	1939	116	12,096	10,185	27,711	56,686	28,974
	1937	118	14,043	11,683	38,022	66,418	28,396
Apparel and other finished products made from fabrics and similar materials, total.[5]	1939	20,206	751,379	654,402	1,943,677	3,325,015	1,381,338
	1937	16,277	692,526	600,108	1,889,062	3,132,760	1,243,699
Men's and boys' tailored clothing, total.	1939	2,449	137,487	139,728	334,557	598,273	263,716
	1937	2,130	135,847	139,571	354,405	608,306	253,842
Men's and boys' suits, coats, and overcoats (except work clothing)—made in inside factories or by jobbers engaging contractors.	1939	1,371	89,031	96,044	329,609	536,613	207,004
	1937	1,252	93,068	100,164	350,121	553,092	202,971
Men's and boys' suits, coats, and overcoats (except work clothing)—made in contract factories.	1939	1,078	48,456	43,684	4,948	61,660	56,713
	1937	878	42,779	39,407	4,344	55,215	50,871
Men's and boys' furnishings, work and sport garments, total.	1939	1,770	166,945	105,578	287,692	489,939	202,247
	1937	1,495	162,225	96,688	279,550	456,590	177,040
Men's and boys' shirts (except work shirts), collars, and nightwear—made in inside factories or by jobbers engaging contractors.	1939	449	57,082	37,323	107,492	181,174	73,682
	1937	409	55,570	34,948	102,835	174,988	72,154
Men's and boys' shirts (except work shirts), collars, and nightwear—made in contract factories.	1939	141	13,371	7,619	1,147	11,192	10,045
	1937	120	12,024	6,107	1,214	9,240	8,025
Men's and boys' underwear—made in inside factories or by jobbers engaging contractors.	1939	44	5,332	3,032	10,096	15,598	5,502
	1937	50	7,888	4,213	13,707	20,285	6,578
Men's and boys' underwear—made in contract factories.	1939	10	1,211	697	182	1,095	913
	1937	9	1,424	623	148	910	762
Trousers (semidress), wash suits, and washable service apparel.	1939	297	19,541	12,841	34,813	60,985	26,172
	1937	232	15,817	9,532	28,779	46,778	17,999
Work shirts	1939	87	13,449	7,269	21,419	35,672	14,253
	1937	115	14,824	7,181	24,081	36,011	11,930

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[5] No comparable figures available for 1929 and 1935.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Apparel, etc.—Continued.							
Work clothing (except work shirts), sport garments (except leather), and other men's and boys' apparel, not elsewhere classified.	1939	742	56,959	36,797	112,544	184,223	71,679
	1937	560	54,678	34,083	108,787	168,379	59,592
Men's neckwear, total	1939	381	9,603	7,346	26,597	46,393	19,795
	1937	320	10,958	8,729	30,306	50,772	20,466
Men's neckwear—made in inside factories or by jobbers engaging contractors.	1939	347	8,686	6,796	26,452	45,405	18,953
	1937	300	10,512	8,444	30,239	50,297	20,058
Men's neckwear—made in contract factories.	1939	34	917	550	145	988	842
	1937	20	446	285	67	475	407
Men's and boys' hats and caps, and hat and cap materials, total.	1939	325	4,179	3,620	8,652	16,293	7,641
	1937	299	4,199	3,571	8,646	15,873	7,227
Men's and boys' hats and caps (except felt and straw).	1939	270	3,383	2,877	5,711	11,605	5,894
	1937	258	3,460	2,934	5,928	11,730	5,802
Hat and cap materials; trimmings, etc.	1939	55	796	743	2,940	4,687	1,747
	1937	41	739	637	2,718	4,142	1,425
Women's and misses' outer clothing, total.	1939	6,257	207,642	204,130	597,554	1,015,757	418,203
	1937	5,060	176,011	177,444	554,147	936,053	381,906
Women's and misses' blouses and waists—made in inside factories or by jobbers engaging contractors.	1939	170	4,564	3,910	24,540	36,419	11,879
	1937	128	3,850	3,350	16,774	26,785	10,010
Women's and misses' blouses and waists—made in contract factories.	1939	132	5,109	3,483	337	5,311	4,974
	1937	64	2,554	1,661	145	2,435	2,290
Women's and misses' dresses (except house dresses)—made in inside factories or by jobbers engaging contractors.	1939	1,426	53,996	61,652	284,628	441,325	156,697
	1937	1,147	48,217	54,278	258,464	403,074	144,610
Women's and misses' dresses (except house dresses)—made in contract factories.	1939	1,490	49,742	46,748	3,301	64,936	61,635
	1937	1,275	43,874	42,655	2,635	58,503	55,868
House dresses, uniforms, and aprons—made in inside factories or by jobbers engaging contractors.	1939	487	27,833	17,638	64,683	104,446	39,763
	1937	403	28,250	17,165	55,684	93,892	38,208
House dresses, uniforms, and aprons—made in contract factories.	1939	255	10,961	6,368	490	9,252	8,762
	1937	70	4,039	2,203	278	3,242	2,964
Coats, suits, and skirts (except fur coats)—made in inside factories or by jobbers engaging contractors.	1939	1,120	24,048	33,561	194,095	281,146	87,051
	1937	1,005	20,690	29,708	201,551	290,124	88,572
Coats, suits, and skirts (except fur coats)—made in contract factories.	1939	846	21,405	22,856	2,544	32,851	30,307
	1937	762	18,923	22,004	2,163	31,097	28,934
Women's and misses' clothing not elsewhere classified—made in inside factories or by jobbers engaging contractors.	1939	231	6,281	5,387	22,652	35,759	13,108
	1937	159	4,167	3,462	16,298	25,339	9,041
Women's and misses' clothing not elsewhere classified—made in contract factories.	1939	100	3,703	2,528	284	4,311	4,027
	1937	38	1,447	960	154	1,564	1,410

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and c ontract work.

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939—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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
Apparel, etc.—Continued.							
Women's accessories except millinery, total.	1939	1,064	58,952	43,597	143,125	248,786	105,662
	1937	907	53,995	38,944	134,681	230,131	95,450
Women's, children's, and infants' underwear and nightwear of knitted fabrics.	1939	139	6,398	4,373	14,355	24,608	9,754
	1937	106	7,695	4,988	17,494	28,414	10,921
Women's, children's, and infants' underwear and nightwear of cotton and flannelette woven fabrics.	1939	174	11,349	7,462	21,944	37,184	15,240
	1937	122	8,835	5,511	19,600	30,050	10,450
Women's, children's, and infants' underwear and nightwear of silk and rayon woven fabrics.	1939	372	20,509	14,349	59,021	90,628	31,606
	1937	375	18,874	13,446	58,438	89,858	31,420
Corsets and allied garments	1939	272	18,765	15,734	40,105	84,418	44,313
	1937	215	16,385	13,255	32,514	70,789	38,274
Women's neckwear, scarfs, etc.	1939	107	1,931	1,678	7,200	11,948	4,748
	1937	89	2,206	1,744	6,636	11,021	4,385
Millinery	1939	1,050	24,298	26,060	48,236	105,601	57,365
	1937	755	21,560	22,921	41,007	88,242	47,235
Children's and infants' outerwear, total.	1939	574	23,804	19,176	52,862	96,484	43,622
	1937	452	21,119	16,602	47,007	82,463	35,456
Children's dresses—made in inside factories or by jobbers engaging contractors.	1939	182	10,646	8,064	24,835	46,742	21,907
	1937	157	9,513	7,358	25,270	42,626	17,356
Children's dresses—made in contract factories.	1939	114	4,487	2,599	211	3,842	3,630
	1937	56	3,246	1,659	113	2,476	2,363
Children's coats—made in inside factories or by jobbers engaging contractors.	1939	108	2,130	3,008	17,162	24,971	7,809
	1937	83	1,689	2,497	12,618	19,073	6,455
Children's coats—made in contract factories.	1939	45	1,181	1,325	204	1,947	1,743
	1937	36	1,105	1,088	101	1,641	1,540
Children's and infants' wear not elsewhere classified—made in inside factories or by jobbers engaging contractors.	1939	103	4,365	3,503	10,378	17,942	7,564
	1937	106	4,760	3,440	8,844	15,823	6,979
Children's and infants' wear not elsewhere classified—made in contract factories.	1939	22	995	678	73	1,041	968
	1937	14	806	561	62	824	762
Fur coats and other fur garments, accessories, and trimmings.	1939	2,175	13,111	23,403	107,752	168,032	60,280
	1937	1,642	12,952	21,560	106,345	155,605	49,260
Miscellaneous apparel, total.	1939	971	38,288	29,456	94,917	159,598	64,681
	1937	645	36,854	27,059	91,551	148,445	56,894
Belts (apparel) regardless of material.	1939	245	4,222	4,067	9,900	19,076	9,176
	1937	119	3,435	3,294	8,374	16,706	8,332
Work gloves and mittens: Cloth, cloth and leather combined.	1939	94	8,901	5,663	11,928	22,457	10,530
	1937	85	10,999	6,796	17,188	29,370	12,183
Dress and semidress gloves and mittens: Cloth and cloth and leather combined.	1939	49	3,396	2,298	3,638	7,703	4,065
	1937	22	1,680	1,051	1,517	3,190	1,673

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Apparel, etc.—Continued.							
Handkerchiefs—made in inside factories or by jobbers engaging contractors.	1939 1937	60 58	3,734 4,110	2,627 2,570	13,835 13,493	20,419 18,870	6,585 5,376
Handkerchiefs—made in contract factories.	1939 1937	20 16	1,105 887	693 564	165 111	1,182 850	1,017 739
Suspenders, garters, and other goods made from purchased elastic material.	1939 1937	66 64	2,558 2,903	1,956 2,193	8,918 8,660	15,483 15,038	6,565 6,379
Robes, lounging garments, and dressing gowns.	1939 1937	264 142	7,377 6,522	5,701 5,165	25,684 21,901	39,830 33,444	14,146 11,542
Raincoats and other waterproof garments (except oiled cotton).	1939 1937	76 61	2,323 2,243	1,874 1,707	7,083 5,908	11,304 10,004	4,221 4,097
Clothing, leather and sheep-lined.	1939 1937	97 78	4,672 4,075	4,578 3,720	13,766 14,399	22,142 20,973	8,376 6,573
Embroideries and trimmings, total.	1939 1937	1,431 1,068	17,828 14,592	15,567 12,711	26,152 23,799	62,677 52,123	36,525 28,324
Embroideries: Schiffli-machine products.	1939 1937	398 271	3,750 2,757	3,248 2,417	6,129 4,451	14,122 10,189	7,993 5,737
Embroideries, other than Schiffli-machine products—made in regular factories or by jobbers engaging contractors.	1939 1937	54 47	608 548	505 459	671 676	1,686 1,632	1,015 956
Embroideries, other than Schiffli-machine products—contract factories.	1939 1937	357 267	4,189 3,394	3,324 2,859	1,622 1,472	8,220 6,956	6,598 5,485
Trimmings (not made in textile mills), stamped art goods, and art needlework—made in regular factories or by jobbers engaging contractors.	1939 1937	227 [6a] 200	3,728 3,765	3,153 3,106	15,944 15,806	26,139 24,500	10,195 8,694
Trimmings (not made in textile mills), stamped art goods, and art needlework—contract factories.	1939 1937	395 283	5,553 4,128	5,339 3,870	1,786 1,394	12,510 8,847	10,723 7,452
Miscellaneous fabricated textile products, total.	1939 1937	1,759 1,511	49,242 42,800	36,741 34,622	215,581 218,291	317,184 309,735	101,602 91,443
Curtains, draperies, and bedspreads—made in regular factories or by jobbers engaging contractors.	1939 1937	362 284	15,798 8,934	9,472 5,908	47,475 37,253	70,233 52,517	22,758 15,264
Curtains, draperies, and bedspreads—contract factories.	1939 1937	75 48	1,109 711	798 506	260 173	1,679 1,109	1,419 937
Housefurnishings (except curtains, draperies, and bedspreads).	1939 1937	472 [6a] 393	10,623 9,791	8,059 7,542	43,973 39,465	67,521 60,340	23,548 20,875
Textile bags—not made in textile mills.	1939 1937	216 186	11,991 12,075	10,003 9,749	93,807 103,725	121,702 130,001	27,895 26,276
Canvas products (except bags)	1939 1937	334 367	3,869 4,732	3,621 4,844	13,030 17,506	24,408 30,324	11,378 12,818

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[6a] Revised; revision not carried into group total.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Apparel, etc.—Continued.							
Miscellaneous fabricated textile products not elsewhere classified.	1939	300	5,852	4,789	17,037	31,640	14,604
	[6a] 1937	233	6,557	6,074	20,169	35,443	15,274
Lumber and timber basic products, total.	1939	11,520	360,613	310,381	504,243	1,122,058	617,815
	1937	10,420	387,514	339,787	512,475	1,146,285	633,810
	[7] 1935	8,734	303,527	225,253	331,548	747,886	416,338
	[7] 1929	17,764	509,218	538,008	[2] 715,612	1,827,056	1,111,444
Logging camps and logging contractors (not operating sawmills).	1939	967	22,785	22,703	28,165	69,621	41,456
	1937	591	19,390	22,157	28,882	66,255	37,373
Sawmills, veneer mills, and cooperage-stock mills, including those combined with logging camps and with planing mills.	1939	7,391	265,185	214,920	280,019	692,945	412,925
	1937	7,002	296,832	245,320	304,658	755,464	450,806
Planing and plywood mills, total.	1939	3,162	72,643	72,758	196,059	359,492	163,433
	1937	2,827	71,292	72,310	178,935	324,566	145,631
Planing mills not operated in conjunction with sawmills.	1939	3,076	62,838	62,815			
	1937	2,750	61,690	63,186	177,735	320,614	142,879
					161,611	289,523	127,912
Plywood mills	1939	86	9,805	9,943			
	1937	77	9,602	9,124	18,325	38,879	20,554
					17,324	35,043	17,719
Furniture and finished lumber products, total.	1939	8,457	293,570	274,738	640,956	1,267,724	626,768
	1937	7,559	310,449	299,212	681,387	1,317,650	636,263
	[8] 1935	7,471	253,577	211,621	493,331	946,793	453,462
	[8] 1929	9,125	334,171	394,910	[2] 899,832	1,792,147	892,315
Household furniture, total	1939	3,392	143,051	133,579	282,111	570,468	288,357
	1937	3,052	149,997	143,708	293,309	586,175	292,866
Mattresses and bed springs	1939	947	18,342	19,498	60,942	113,115	52,173
	1937	839	19,165	19,811	63,190	113,120	49,929
Upholstered household furniture	1939	853	29,049	30,082	65,977	128,724	62,746
	1937	791	31,667	32,995	73,654	139,265	65,611
Household furniture except upholstered.	1939	1,592	94,760	83,999	155,192	328,630	173,437
	1937	1,422	99,165	90,901	156,465	333,790	177,325
Office furniture	1939	152	11,776	13,674	22,570	54,750	32,180
	1937	155	14,297	17,290	26,294	65,329	39,035
Public building and professional furniture, total.	1939	188	8,882	9,919	17,751	41,334	23,583
	1937	149	9,706	11,497	19,324	45,297	25,974
Public building furniture	1939	106	5,900	6,568	11,438	26,679	15,241
	1937	79	6,450	7,451	12,542	29,030	16,488
Laboratory, hospital, and other professional furniture.	1939	82	2,982	3,351	6,314	14,655	8,342
	1937	70	3,256	4,046	6,782	16,267	9,486
Partitions, shelving, cabinet work, and office and store fixtures.	1939	716	13,826	17,735	30,507	70,718	40,212
	1937	580	15,237	19,875	32,567	74,785	42,218
Wooden containers, total	1939	1,251	45,070	33,132	79,980	150,150	70,170
	1937	1,294	48,173	36,169	87,624	160,350	72,726

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.
[6a] Revised; revision not carried into group total.
[7] Not comparable with figures for 1937 and 1939 because the manufacture of venetian blinds was included.
[8] Not comparable with figures for 1937 and 1939 because the manufacture of venetian blinds was excluded.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Furniture, etc.—Continued.							
Baskets for fruits and vegetables	1939	153	8,048	4,470	5,749	14,286	8,538
	1937	146	7,503	3,952	5,214	12,438	7,224
Rattan and willowware (except furniture) and baskets other than vegetable and fruit baskets.	1939	47	1,377	926	1,674	3,918	2,244
	1937	48	1,805	1,174	1,750	4,213	2,463
Cigar boxes: wooden, part wooden	1939	59	3,101	2,017	2,483	6,331	3,848
	1937	69	3,296	2,322	2,681	7,128	4,447
Wooden boxes except cigar boxes	1939	642	25,351	19,159	45,757	87,354	41,597
	1937	634	25,981	19,544	45,454	86,347	40,893
Cooperage	1939	350	7,193	6,560	24,318	38,261	13,943
	1937	397	9,588	9,177	32,527	50,225	17,698
Window and door screens, shades, and venetian blinds, total.	1939	709	11,270	11,203	36,918	68,260	31,342
	1937	533	9,227	9,200	28,808	53,070	24,262
Window and door screens and weather strip.	1939	162	2,830	2,984	7,842	15,224	7,381
	1937	144	2,833	3,034	7,394	14,748	7,353
Window shades	1939	273	3,261	3,411	15,410	27,071	11,661
	1937	304	3,166	3,173	13,294	23,574	10,280
Venetian blinds	1939	274	5,179	4,808	13,665	25,965	12,300
	1937	85	3,228	2,992	8,120	14,749	6,629
Caskets, coffins, burial cases, and other morticians' goods.	1939	599	12,447	13,392	31,862	70,353	38,491
	1937	521	13,678	15,120	33,628	71,757	38,128
Miscellaneous wood products, total.	1939	1,450	47,248	42,104	139,257	241,691	102,433
	1937	1,275	50,134	46,354	159,832	260,887	101,054
Excelsior	1939	53	925	700	1,382	2,987	1,606
	1937	52	960	730	1,335	3,033	1,698
Cork products	1939	35	2,923	3,302	8,412	17,724	9,311
	1937	35	3,599	4,136	13,905	21,783	7,879
Matches	1939	28	5,426	5,598	14,098	25,577	11,479
	1937	25	5,261	5,392	[9] 20,214	[9] 30,902	10,688
Wood preserving	1939	218	11,242	9,764	77,477	106,295	28,818
	1937	197	12,401	11,338	84,684	116,700	32,015
Lasts and related products	1939	48	1,519	1,995	2,026	6,672	4,646
	1937	48	1,444	1,833	1,624	5,433	3,809
Mirror frames and picture frames	1939	182	3,220	3,065	5,570	13,250	7,679
	1937	163	3,382	3,433	5,234	12,767	7,534
Wood products not elsewhere classified.	1939	886	21,993	17,680	30,291	69,186	38,895
	1937	755	23,087	19,493	32,837	70,268	37,431
Paper and allied products, total [5]	1939	3,279	264,716	309,857	1,149,666	2,019,568	869,902
	1937	3,084	266,944	310,137	1,213,559	2,076,425	862,866
Pulp mills and paper and paperboard mills, total.	1939	832	137,445	175,688	676,997	1,159,867	482,870
	1937	841	137,803	175,650	721,101	1,205,132	484,031
Pulp mills	1939	194	26,870	33,088	144,737	226,852	82,115
	1937	194	26,994	33,570	153,652	247,192	93,540

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[5] No comparable figures available for 1929 and 1935.
[9] Includes amount of excise taxes, which were not collected for 1939.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Paper, etc.—Continued.							
Paper and paperboard mills	1939	638	110,575	142,600	532,261	933,016	400,755
	1937	647	110,809	142,080	567,449	957,940	390,491
Converted paper products, total.	1939	2,433	126,570	133,350	471,146	855,874	384,728
	1937	2,233	128,322	133,613	490,983	867,252	376,268
Coated and glazed paper	1939	140	7,450	9,384	53,628	84,387	30,759
	1937	103	7,240	8,614	51,950	78,522	26,572
Envelopes	1939	169	8,689	9,597	24,623	50,118	25,495
	1937	162	9,511	10,503	25,107	51,290	26,183
Paper bags, except those made in paper mills.	1939	119	11,081	10,629	53,964	85,776	31,812
	1937	107	10,360	9,850	53,424	82,458	29,034
Fiber cans, tubes, and similar products.	1939	116	6,037	6,963	13,952	33,345	19,393
	1937	100	6,104	6,347	14,089	32,792	18,703
Paperboard containers and boxes not elsewhere classified.	1939	1,338	62,530	63,806	213,839	382,710	168,871
	1937	1,226	62,620	63,301	231,410	394,787	163,377
Die-cut paper and paperboard, and converted cardboard.	1939	121	4,354	5,454	16,069	33,264	17,194
	1937	115	5,046	6,064	15,520	34,044	18,524
Wallpaper	1939	46	4,054	5,333	11,696	24,969	13,273
	1937	42	4,543	5,455	11,920	26,772	14,852
Converted paper products not elsewhere classified.	1939	384	21,775	22,185	83,375	161,306	77,930
	1937	378	22,898	23,479	87,564	166,587	79,023
Pulp goods (pressed, molded).	1939	14	701	810	1,523	3,826	2,304
	1937	10	819	873	1,475	4,042	2,567
Printing, publishing, and allied industries, total.	1939	24,878	324,535	493,616	812,008	2,578,464	1,766,457
	1937	22,674	350,952	530,214	790,227	2,576,818	1,786,591
	1935	22,505	302,643	443,923	610,694	2,157,334	1,546,640
	1929	27,211	353,964	630,506	929,172	3,144,894	2,215,722
Newspapers, total	1939	7,309	97,251	164,718	232,492	910,189	677,697
	1937	6,980	109,882	185,836	221,094	922,335	701,241
Newspapers: publishing without printing.	1939	431	260	363	5,315	11,964	6,649
	1937	343	206	271	4,299	10,473	6,175
Newspapers: publishing and printing.	1939	6,878	96,991	164,355	227,177	898,225	671,048
	1937	6,637	109,676	185,565	216,795	911,862	695,066
Periodicals, total	1939	2,558	21,421	33,553	174,297	468,847	294,550
	1937	2,264	25,333	36,045	171,927	473,696	301,768
Periodicals: publishing without printing.	1939	1,958	436	550	116,664	266,832	150,167
	1937	1,762	711	919	109,282	259,021	149,739
Periodicals: publishing and printing.	1939	600	20,985	33,003	57,633	202,015	144,382
	1937	502	24,622	35,125	62,645	214,675	152,030
Books, total	1939	1,396	22,773	33,638	79,289	236,752	157,463
	1937	990	21,911	32,308	74,028	220,035	146,007
Books: publishing without printing.	1939	556	135	196	35,548	109,579	74,031
	1937	409	----------	----------	36,253	103,227	66,974
Books: publishing and printing	1939	150	6,091	8,405	11,729	39,517	27,789
	1937	121	6,094	8,413	11,633	40,827	29,194
Books: printing without publishing.	1939	690	16,547	25,038	32,012	87,656	55,644
	1937	460	15,817	23,895	26,142	75,981	49,839

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Printing, etc.—Continued.							
General commercial (job) printing.	1939	9,595	96,039	132,945	191,734	515,436	323,702
	1937	9,035	108,761	148,802	201,848	549,521	347,674
Lithographing and photolithographing (including preparation of stones or plates and dry transfers).	1939	749	26,000	37,929	57,686	154,395	96,708
	1937	516	22,533	33,952	50,731	129,244	78,514
Greeting cards (except hand-painted).	1939	109	7,522	7,264	15,490	39,715	24,225
	1937	79	6,847	6,491	10,146	29,636	19,490
Gravure, rotogravure, and rotary photogravure (including preparation of plates).	1939	24	2,623	5,436	7,243	18,615	11,372
	1937	20	2,228	4,809	7,499	18,488	10,989
Bookbinding and related industries.	1939	1,133	25,690	29,063	30,429	102,591	72,163
	1937	997	25,333	28,665	30,745	94,822	64,077
Service industries for the printing trades, total.	1939	2,005	25,216	49,069	23,347	131,925	108,577
	1937	1,793	28,124	53,306	23,817	139,041	115,224
Machine and hand typesetting (including advertisement typesetting).	1939	641	6,244	10,425	3,052	25,096	22,044
	1937	537	6,425	10,694	2,722	24,082	21,360
Engraving (steel, copperplate, and wood); plate printing.	1939	436	5,353	7,156	6,029	22,164	16,134
	1937	418	7,226	9,312	7,138	26,625	19,487
Photoengraving not done in printing establishments (including preparation of plates).	1939	694	9,207	22,568	7,362	55,619	48,258
	1937	620	9,707	23,606	7,196	57,291	50,095
Electrotyping and stereotyping, not done in printing establishments.	1939	234	4,412	8,920	6,904	29,045	22,141
	1937	218	4,765	9,694	[6a] 6,761	31,043	[6a] 24,282
Chemicals and allied products, total.[5]	1939	9,203	287,136	356,176	1,854,140	3,733,658	1,879,517
	1937	8,618	313,539	377,487	1,942,250	3,718,406	1,776,156
Paints, varnishes, and colors, total.	1939	1,255	28,173	39,816	288,959	518,847	229,887
	1937	1,124	31,664	42,751	312,085	538,461	226,375
Paints, varnishes, and lacquers	1939	1,166	22,334	31,702	245,571	434,961	189,390
	1937	1,037	25,135	34,313	264,382	453,866	189,484
Colors and pigments	1939	89	5,839	8,114	43,388	83,886	40,497
	1937	87	6,529	8,437	47,703	84,595	36,892
Animal and vegetable oils (not including lubricants or cooking and salad oils), total.	1939	663	21,678	16,924	269,801	337,328	67,526
	1937	606	22,556	15,815	331,553	409,644	78,091
Cottonseed oil, cake, meal, and linters.	1939	447	15,191	8,939	138,764	171,476	32,712
	1937	447	16,583	8,532	195,747	242,043	46,296
Linseed oil cake, and meal	1939	25	2,120	3,193	56,456	68,012	11,556
	1937	23	2,628	3,591	74,481	90,357	15,875
Soybean oil, cake, and meal	1939	47	1,481	1,889	34,435	43,947	9,512
	1937	26	871	1,192	19,950	24,312	4,362
Essential oils	1939	14	255	357	6,861	9,814	2,953
	1937	13	195	266	3,705	5,139	1,434

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[5] No comparable figures available for 1929 and 1935.
[6a] Revised; revision not carried into group total.

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939—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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
Chemicals, etc.—Continued.							
Fish and other marine oils, cake, and meal.	1939	76	1,523	1,308	8,907	13,622	4,715
	1937	59	1,211	979	7,665	11,593	3,929
Vegetable and animal oils, not elsewhere classified.	1939	54	1,108	1,237	24,378	30,457	6,079
	1937	38	1,068	1,256	30,005	36,200	6,195
Drugs, medicines, toilet preparations, insecticides, and related products, total.	1939	2,407	37,766	38,935	218,158	605,895	387,737
	1937	2,136	39,741	41,478	196,332	565,984	369,652
Drugs and medicines (including drug grinding).	1939	1,094	22,386	23,898	115,273	364,985	249,713
	1937	1,034	24,795	26,965	103,584	353,854	250,270
Perfumes, cosmetics, and other toilet preparations.	1939	539	10,363	9,644	58,510	147,466	88,956
	1937	478	10,158	9,262	53,905	132,336	78,431
Insecticides, fungicides, and related industrial and household chemical compounds.	1939	774	5,017	5,393	44,376	93,444	49,068
	1937	624	4,788	5,251	38,843	79,794	40,951
Soap and glycerin	1939	264	13,624	18,801	161,003	302,634	141,632
	1937	232	14,008	19,075	185,170	301,292	116,122
Rayon and allied products	1939	30	48,332	60,030	78,460	247,066	168,606
	1937	33	55,098	65,291	80,616	254,697	174,081
Hardwood distillation, charcoal, and naval stores, total.	1939	823	5,094	3,731	23,848	38,319	14,471
	1937	1,053	5,973	4,374	33,997	55,170	21,173
Hardwood distillation and charcoal manufacture.	1939	43	1,770	1,531	3,928	6,843	2,915
	1937	39	2,108	1,864	5,164	8,983	3,819
Wood naval stores	1939	25	2,353	1,867	6,524	14,114	7,590
	1937	21	2,359	2,160	6,163	17,162	10,998
Gum naval stores (processing but not gathering or warehousing).	1939	755	971	334	13,396	17,362	3,966
	1937	993	1,506	350	22,670	29,025	6,356
Fertilizers	1939	764	18,744	13,678	128,630	185,684	57,055
	1937	729	20,391	15,027	129,136	194,129	64,993
Industrial chemicals, total	1939	1,340	88,801	134,380	514,682	1,169,061	654,379
	1937	1,297	96,711	140,842	511,263	1,083,349	572,086
Tanning materials, natural dyestuffs, mordants, assistants, and sizes.	1939	158	2,716	3,003	23,860	42,165	18,304
	1937	158	2,812	3,000	22,603	35,685	13,081
Coal-tar products, crude and intermediate.	1939	49	2,338	3,598	25,557	42,917	17,360
	1937	48	2,028	3,032	24,233	37,177	12,944
Plastic materials	1939	38	6,966	9,840	40,564	77,653	37,090
	1937	34	7,283	9,482	35,713	66,955	31,242
Explosives	1939	80	7,242	10,964	26,860	71,053	44,193
	1937	85	7,240	10,926	27,597	67,343	39,746
Salt	1939	40	3,737	4,235	9,569	27,530	17,961
	[6a] 1937	39	3,846	4,480	10,249	27,909	17,660
Compressed and liquefied gases—not made in petroleum refineries or in natural gasoline plants.	1939	379	3,960	5,854	13,532	53,365	39,833
	1937	356	4,655	6,591	14,244	56,418	42,174

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[6a] Revised; revision not carried into group total.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Chemicals, etc.—Continued.							
Bone black, carbon black, and lampblack.	1939	53	1,574	2,001	6,103	14,627	8,523
	1937	62	2,190	2,712	7,236	18,854	11,618
Chemicals not elsewhere classified.	1939	543	60,268	94,884	368,636	839,750	471,115
	1937	515	66,657	100,620	369,388	773,008	403,620
Miscellaneous chemical products, total.	1939	1,657	24,924	29,882	170,600	328,824	158,225
	1937	1,401	26,623	32,013	161,907	312,007	150,100
Printing ink	1939	206	2,572	3,701	25,166	49,132	23,966
	1937	184	2,793	4,085	25,104	47,347	22,243
Ammunition	1939	13	4,264	4,953	13,004	29,091	16,087
	1937	11	5,071	5,698	14,709	31,043	16,334
Cleaning and polishing preparations, blackings, and dressings.	1939	637	5,128	5,667	37,670	89,767	52,097
	1937	510	4,877	5,422	31,632	77,054	45,422
Glue and gelatin	1939	80	3,039	3,942	18,794	34,332	15,538
	1937	75	3,547	4,565	23,391	40,650	17,259
Grease and tallow (except lubricating greases).	1939	310	5,201	6,509	38,115	58,226	20,111
	1937	266	5,200	6,763	32,980	52,269	19,289
Lubricating oils and greases—not made in petroleum refineries.	1939	232	2,128	2,713	28,931	49,057	20,126
	1937	195	2,231	2,839	25,387	44,113	18,726
Fireworks	1939	59	1,158	987	1,853	4,628	2,775
	1937	46	1,451	1,201	2,064	5,366	3,302
Candles	1939	28	840	817	3,338	6,329	2,991
	1937	22	725	686	2,624	5,352	2,727
Bluing	1939	13	55	56	386	1,142	756
	1937	14	67	69	350	1,129	778
Mucilage, paste, and other adhesives, except glue and rubber cement.	1939	64	285	290	2,141	4,169	2,028
	1937	61	295	313	2,165	4,210	2,045
Writing ink	1939	15	254	247	1,202	2,951	1,749
	1937	17	366	370	1,500	3,476	1,976
Products of petroleum and coal, total. [5]	1939	989	105,428	173,702	2,278,486	2,953,973	675,488
	1937	739	113,606	186,003	2,418,665	3,038,203	619,538
Petroleum refining	1939	485	72,840	128,214	1,933,264	2,461,127	527,862
	1937	365	83,182	140,415	2,004,307	2,546,746	482,439
Coke and byproducts, total.	1939	112	21,693	32,481	261,217	346,978	85,761
	1937	94	20,603	33,103	273,068	357,469	84,401
Beehive coke	1939	29	685	701	3,567	4,781	1,214
	1937	30	1,310	1,468	7,716	10,298	2,582
Oven coke and coke-oven byproducts.	1939	83	21,008	31,780	257,651	342,197	84,547
	1937	64	19,293	31,635	265,352	347,171	81,820
Paving and roofing materials, total.	1939	360	10,485	12,522	80,433	140,581	60,148
	1937	259	9,364	11,938	77,250	127,851	50,601
Paving blocks and paving mixtures: asphalt, creosoted wood, and composition.	1939	231	2,437	2,681	19,027	32,754	13,728
	1937	148	1,946	2,419	14,605	25,289	10,683

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[5] No comparable figures available for 1929 and 1935.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Products of petroleum, etc.—Con.							
Roofing, built-up and roll; asphalt shingles; roof coating (except paint).	1939	129	8,048	9,841	61,406	107,827	46,421
	1937	111	7,418	9,520	62,644	102,562	39,917
Fuel briquets	1939	32	410	485	3,571	5,287	1,716
	1937	21	457	547	4,041	6,138	2,097
Rubber products, total	1939	595	120,740	161,410	496,174	902,329	406,155
	1937	478	129,818	171,305	514,260	883,033	368,772
	1935	466	114,681	133,715	368,811	677,659	308,848
	1929	525	149,148	207,306	[2] 578,678	1,117,460	538,783
Tires and inner tubes	1939	53	54,115	89,774	349,557	580,929	231,372
	1937	46	63,290	96,707	366,858	575,860	209,002
Rubber boots and shoes	1939	13	14,861	16,802	20,749	49,981	29,231
	1937	12	18,356	20,422	27,475	64,455	36,981
Miscellaneous rubber industries, total.	1939	529	51,764	54,835	125,868	271,419	145,551
	1937	420	48,172	54,176	119,927	242,717	122,790
Reclaimed rubber	1939	10	1,072	1,477	2,992	6,894	3,902
	1937	9	1,258	1,830	4,172	7,942	3,771
Rubber products not elsewhere classified.	1939	519	50,692	53,358	122,875	264,525	141,650
	1937	411	46,914	52,346	115,755	234,774	119,019
Leather and leather products, total.	1939	3,508	327,663	294,290	805,911	1,389,514	583,602
	[10] *1937*	*3,249*	*328,551*	*308,027*	*891,229*	*1,475,009*	*583,780*
	[10] 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
	1929	4,285	318,472	359,461	[2] 1,132,022	1,906,201	774,179
Leather, tanned, curried, and finished, total.	1939	446	47,252	56,783	229,044	346,438	117,394
	1937	402	50,687	61,288	281,506	395,022	113,516
Leather: tanned, curried, and finished—regular factories or jobbers engaging contractors.	1939	335	41,795	50,570	222,741	329,728	106,987
	1937	331	48,132	58,332	279,220	387,908	108,688
Leather: tanned, curried, and finished—contract factories.	1939	111	5,457	6,213	6,303	16,710	10,407
	1937	71	2,555	2,956	2,286	7,114	4,828
Leather products, total	1939	3,062	280,411	237,507	576,868	1,043,076	466,208
	1937	2,847	277,864	246,738	609,723	1,079,987	470,264
Industrial leather belting and packing leather.	1939	190	2,337	2,861	13,596	24,410	10,814
	1937	182	2,829	3,355	15,529	27,901	12,372
Boots and shoe cut stock and findings.	1939	520	18,845	17,196	90,487	129,399	38,912
	1937	470	18,755	17,844	95,988	132,660	36,672
Footwear (except rubber)	1939	1,070	218,028	183,658	388,439	734,673	346,234
	1937	1,080	215,438	191,305	416,305	768,327	352,022
Leather gloves and mittens	1939	233	9,995	7,409	13,763	26,831	13,068
	1937	221	11,637	9,039	15,720	30,718	14,999
Suitcases, briefcases, bags, trunks and other luggage.	1939	329	8,326	7,919	19,215	36,591	17,377
	1937	277	8,708	8,458	20,534	38,720	18,186
Women's pocketbooks, handbags, and purses.	1939	286	14,048	11,239	32,878	55,807	22,929
	1937	203	11,306	9,054	24,756	43,446	18,690

[1] Value products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.
[10] The 1937 figures in italics are comparable with 1939 statistics and exclude data for 115 establishments which have been transferred to another group. No adjustment was made for other years. The 1937 statistics in roman type are comparable with the statistics for earlier years.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Leather, etc.—Continued.							
Small leather goods	1939	118	3,615	2,751	7,372	14,334	6,962
	1937	68	2,443	1,850	5,342	10,217	4,875
Saddlery, harness, and whips	1939	156	2,755	2,388	6,877	12,118	5,242
	1937	130	3,049	2,699	8,110	13,417	5,306
Leather goods not elsewhere classified.	1939	160	2,462	2,087	4,241	8,911	4,671
	1937	207	3,699	3,133	7,439	14,581	7,142
Stone, clay, and glass products, total.	1939	7,024	287,525	329,560	528,792	1,440,151	911,359
	1937	6,196	306,211	355,451	538,160	1,428,411	890,251
	1935	5,846	237,979	230,881	365,476	970,738	605,262
	1929	8,677	334,894	441,564	[2] 546,942	1,604,470	1,057,528
Flat glass	1939	37	16,739	24,009	33,849	102,389	68,540
	1937	39	20,583	30,598	44,450	127,353	82,903
Glassware, pressed or blown, total.	1939	192	53,083	64,296	86,927	255,589	168,662
	1937	193	58,468	70,990	96,255	260,357	164,102
Glass containers	1939	77	25,753	34,181	59,893	158,272	98,378
	1937	80	28,422	37,288	69,136	162,717	93,581
Tableware, pressed or blown glass and glassware not elsewhere classified.	1939	115	27,330	30,115	27,033	97,317	70,284
	1937	113	30,046	33,701	27,119	97,640	70,521
Mirrors and other glass products made of purchased glass.	1939	557	10,012	10,615	26,455	49,886	23,432
	1937	534	12,652	13,981	40,744	88,009	47,265
Cement	1939	160	23,801	31,588	68,530	192,611	124,082
	1937	158	26,426	34,070	69,979	183,201	113,222
Structural clay products, total.	1939	1,206	56,745	54,831	47,630	165,750	118,119
	1937	1,198	59,584	57,844	50,975	163,262	112,286
Brick and hollow structural tile	1939	800	29,069	26,349	22,470	78,153	55,684
	1937	781	27,742	24,685	20,014	65,901	45,887
Terra cotta	1939	12	1,099	1,299	757	3,175	2,418
	1937	14	1,126	1,322	852	3,253	2,402
Roofing tile	1939	16	628	616	376	1,825	1,449
	1937	20	793	744	361	1,890	1,528
Floor and wall tile (except quarry tile).	1939	49	5,681	5,931	5,142	17,659	12,517
	1937	53	6,288	6,531	5,324	17,086	11,762
Sewer pipe and kindred products	1939	65	6,406	6,818	4,628	18,296	13,668
	1937	64	6,270	6,271	4,288	15,895	11,607
Clay refractories, including refractory cement (clay).	1939	165	12,211	12,324	13,214	42,191	28,978
	1937	163	15,449	16,409	17,823	52,650	34,827
Clay products (except pottery) not elsewhere classified.	1939	99	1,651	1,494	1,043	4,450	3,407
	1937	103	1,916	1,883	2,314	6,587	4,274
Pottery and related products, total.	1939	290	33,105	37,459	28,927	98,884	69,957
	1937	267	33,366	38,688	27,014	96,416	69,401
Vitreous china plumbing fixtures.	1939	25	4,534	6,316	6,982	21,979	14,997
	1937	30	4,577	6,481	5,846	20,393	14,547
Hotel china	1939	17	4,350	4,639	1,707	9,360	7,653
	1937	18	4,671	5,030	1,977	10,415	8,439

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939—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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
Stone, etc.—Continued.							
Whiteware	1939	31	11,728	13,150	8,157	27,801	19,644
	1937	35	11,348	12,918	7,744	25,689	17,945
Porcelain electrical supplies	1939	42	6,018	6,530	7,144	20,817	13,673
	1937	37	7,170	8,160	7,451	23,659	16,208
China firing and decorating (for the trade).	1939	24	421	426	1,119	2,334	1,215
	1937	16	306	359	762	1,690	927
Pottery products not elsewhere classified.	1939	151	6,054	6,398	3,818	16,593	12,776
	1937	131	5,294	5,740	3,235	14,570	11,335
Concrete, gypsum, and plaster products.	1939	2,559	39,869	42,613	114,424	257,598	143,174
	1937	1,778	34,181	36,673	81,073	194,862	113,789
Concrete products	1939	2,040	17,363	18,770	65,685	130,393	64,709
	1937	1,382	12,840	13,781	35,453	76,174	40,721
Gypsum products	1939	68	4,936	6,666	16,694	46,242	29,548
	1937	79	5,207	6,591	16,681	42,617	25,935
Mineral wool	1939	58	1,885	1,821	3,535	8,238	4,703
	1937	32	1,701	1,835	3,129	7,459	4,330
Wallboard and wall plaster (except gypsum), building insulation (except mineral wool), and floor composition.	1939	124	6,227	6,288	14,804	35,754	20,949
	1937	82	4,682	4,857	12,523	33,590	21,067
Lime	1939	269	9,458	9,069	13,706	36,971	23,265
	1937	203	9,751	9,610	13,287	35,022	21,735
Monuments, tombstones, cut-stone, and stone products not elsewhere classified.	1939	1,244	18,516	22,000	25,287	75,812	50,525
	1937	1,403	20,816	24,381	27,349	79,006	51,657
Miscellaneous nonmetallic mineral products, total.	1939	779	35,654	42,148	96,764	241,633	144,868
	1937	626	40,135	48,225	100,320	235,946	135,626
Abrasive wheels, stones, paper, cloth, and related products.	1939	124	7,734	10,683	26,506	71,271	44,765
	1937	103	9,670	14,250	29,339	77,954	48,615
Asbestos products (except steam packing and pipe and boiler covering).	1939	79	9,979	11,579	23,928	60,774	36,846
	1937	73	13,023	14,157	29,494	63,794	34,300
Steam and other packing; pipe and boiler covering.	1939	134	5,907	7,190	17,608	37,170	19,562
	1937	125	5,934	6,930	15,048	32,554	17,506
Natural graphite, ground and refined.	1939	6	56	66	852	1,251	399
	1937	6	56	74	729	1,078	349
Minerals and earths, ground or otherwise treated.	1939	237	5,858	5,750	14,660	38,903	24,244
	1937	157	4,539	4,898	11,613	27,161	15,548
Sand-lime brick, block and tile	1939	27	346	414	638	1,916	1,278
	1937	23	414	460	545	1,618	1,073
Nonclay refractories	1939	46	4,792	5,316	11,598	26,906	15,308
	1937	40	5,641	6,331	12,538	28,457	15,919
Statuary and art goods (except stone and concrete), factory production.	1939	126	983	1,150	975	3,440	2,465
	1937	99	858	1,126	1,015	3,331	2,316
Iron and steel and their products, except machinery, total.[2]	1939	8,994	966,367	1,318,633	3,635,871	6,591,530	2,955,660
	1937	8,382	1,140,929	1,619,788	4,056,338	7,445,350	3,389,012

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] No comparable figures available for 1929 and 1935.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Iron and steel, etc.—Continued.							
Blast furnaces, steel works, and rolling mills, total.	1939	334	388,441	598,037	2,036,191	3,270,822	1,234,631
	1937	352	461,118	755,427	2,314,830	3,818,789	1,503,959
Blast-furnace products	1939	81	19,537	28,312	463,719	550,802	87,083
	1937	87	23,075	38,001	544,881	672,525	127,644
Steel works and rolling mills	1939	253	368,904	569,724	1,572,472	2,720,020	1,147,548
	1937	265	438,043	717,425	1,769,949	3,146,263	1,376,314
Iron and steel foundry products, total.	1939	1,482	123,045	151,738	170,169	463,716	293,547
	1937	1,456	156,585	203,319	210,204	576,303	366,099
Gray-iron and semisteel castings	1939	1,161	58,428	70,758	78,972	209,720	130,748
	1937	1,152	73,993	94,065	96,964	261,442	164,478
Malleable-iron castings	1939	83	18,041	21,555	17,951	53,451	35,500
	1937	84	23,713	28,819	24,004	69,516	45,512
Steel castings	1939	164	30,088	41,942	45,232	135,466	90,234
	1937	145	41,299	62,351	63,796	184,228	120,432
Cast-iron pipe and fittings	1939	74	16,488	17,483	28,014	65,079	37,065
	1937	75	[6a] 17,580	18,083	25,441	61,118	35,677
Tin cans and other tinware not elsewhere classified.	1939	248	31,770	36,398	249,044	372,616	123,572
	1937	224	33,145	37,194	245,110	358,796	113,686
Wire products	1939	800	54,870	68,235	180,770	348,228	167,458
	1937	698	60,483	75,921	184,306	358,589	174,282
Wire drawn from purchased rods	1939	95	21,969	29,966	99,982	176,503	76,521
	1937	93	24,580	33,967	100,375	182,149	81,774
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.	1939	36	2,515	2,730	5,836	12,908	7,072
	1937	42	2,432	2,746	5,636	11,929	6,293
Wirework not elsewhere classified.	1939	669	30,386	35,539	74,952	158,817	83,865
	1937	563	33,471	39,207	78,296	164,510	86,214
Cutlery, tools, and hardware, total.	1939	1,196	73,664	84,057	116,121	319,455	203,334
	1937	1,149	85,867	100,190	126,370	350,614	224,244
Cutlery (except aluminum, silver, and plated cutlery) and edge tools.	1939	266	15,399	16,797	18,756	59,924	41,168
	1937	251	16,830	18,633	18,737	68,194	49,457
Tools (except edge tools, machine tools, files, and saws).	1939	387	15,343	18,002	27,355	75,290	47,935
	1937	369	17,612	21,132	30,959	80,046	49,087
Files	1939	22	3,205	3,839	2,453	11,294	8,841
	1937	21	3,715	4,815	3,344	13,653	10,309
Saws	1939	87	4,072	5,198	6,784	18,471	11,686
	1937	80	4,384	5,576	7,415	19,853	12,438
Hardware not elsewhere classfied	1939	434	35,645	40,221	60,772	154,476	93,704
	1937	428	43,326	50,032	65,915	168,869	102,954
Heating apparatus and plumbers' supplies, total.	1939	1,673	119,919	149,088	294,670	686,126	391,456
	1937	1,524	139,012	176,266	313,200	718,485	405,285
Enameled-iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semivitreous china sanitary ware).	1939	259	24,605	30,769	52,630	125,578	72,948
	1937	241	25,240	30,635	50,116	113,920	63,804

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[6a] Revised; revision not carried into group total.

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939—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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
Iron and steel, etc.—Continued.							
Oil burners, domestic and industrial.	1939	130	1,498	1,803	10,273	18,468	8,195
	1937	113	1,865	2,315	9,355	19,034	9,679
Power boilers and associated products.	1939	448	18,888	25,298	70,655	140,960	70,305
	1937	453	24,485	33,842	82,979	165,280	82,301
Steam and hot-water heating-apparatus (including hot-water furnaces).	1939	68	8,493	9,922	17,165	45,378	28,213
	1937	60	9,774	11,705	17,907	43,634	25,726
Stoves, ranges, water heaters, and hot-air furnaces (except electric).	1939	449	41,701	48,069	97,475	223,427	125,952
	1937	409	49,570	59,400	107,826	236,720	128,894
Steam fittings, regardless of material.	1939	181	21,815	29,630	37,667	111,986	74,318
	1937	154	25,811	35,286	38,421	124,129	85,708
Heating and cooking apparatus, except electric, not elsewhere classified.	1939	138	2,919	3,508	8,805	20,330	11,525
	1937	94	2,267	3,082	6,595	15,770	9,174
Metal stamping, enameling, galvanizing, japanning, and lacquering, total.	1939	963	55,551	64,352	136,284	283,599	147,315
	1937	807	62,212	74,517	150,675	300,033	149,358
Vitreous enameled products, including kitchen, household, and hospital utensils.	1939	55	10,809	11,442	20,348	44,239	23,891
	1937	48	11,326	11,362	19,293	41,115	21,822
Automobile stampings	1939	90	8,597	11,970	21,827	47,833	26,006
	1937	94	14,994	20,704	39,998	78,921	38,923
Stamped and pressed metal products (except automobile stampings).	1939	655	33,112	37,535	89,141	178,395	89,254
	1937	527	31,905	37,788	85,201	163,863	78,662
Enameling, japanning, and lacquering.	1939	80	1,821	2,062	2,456	6,936	4,480
	1937	74	2,868	3,287	3,656	10,140	6,484
Galvanizing and other coating—carried on in plants not operated in connection with rolling mills.	1939	83	1,212	1,343	2,513	6,196	3,683
	1937	64	1,119	1,376	2,527	5,994	3,467
Fabricated structural steel and ornamental metalwork, total.	1939	1,343	43,217	58,081	191,475	332,889	141,414
	1937	1,286	47,222	65,777	189,726	342,671	152,945
Fabricated structural steel and ornamental metalwork, made in plants not operated in connection with rolling mills.	1939	1,138	35,477	47,550	172,437	284,670	112,232
	1937	1,132	38,814	53,898	169,673	292,756	123,083
Doors, window sash, frames, molding, and trim (made of metal).	1939	205	7,740	10,531	19,037	48,219	29,182
	1937	154	8,408	11,879	20,053	49,915	29,862
Miscellaneous iron and steel products, total.	1939	955	75,890	103,648	261,147	514,080	252,933
	1937	886	95,253	131,178	321,916	621,070	299,154
Bolts, nuts, washers, and rivets—made in plants not operated in connection with rolling mills.	1939	155	14,331	18,333	38,709	84,118	45,409
	1937	138	16,840	22,088	44,342	98,079	53,737
Forgings, iron and steel—made in plants not operated in connection with rolling mills.	1939	207	15,372	22,652	51,974	104,883	52,910
	1937	194	18,255	27,659	63,224	122,835	59,611

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Iron and steel, etc.—Continued.							
Wrought pipes, welded and heavy riveted—made in plants not operated in connection with rolling mills.	1939	49	8,370	12,306	41,856	75,865	34,008
	1937	53	14,125	19,436	68,629	113,769	45,140
Springs, steel (except wire)—made in plants not operated in connection with rolling mills.	1939	53	2,940	4,277	12,796	23,044	10,249
	1937	57	3,902	5,804	16,153	27,233	11,080
Screw-machine products and wood screws.	1939	345	16,924	22,106	32,649	82,807	50,158
	1937	311	21,287	28,030	42,714	102,725	60,011
Steel barrels, kegs, and drums	1939	64	6,072	7,360	32,328	49,166	16,838
	1937	58	6,231	7,357	30,296	48,175	17,880
Firearms	1939	23	5,001	6,846	3,053	17,712	14,659
	1937	21	6,847	9,670	4,333	21,555	17,222
Safes and vaults	1939	16	1,236	1,589	2,413	6,084	3,671
	1937	14	1,132	1,445	1,998	5,149	3,152
Cold-rolled steel sheets and strip and cold-finished steel bars made in plants not operated in connection with hot-rolling mills.	1939	43	5,644	8,178	45,369	70,401	25,032
	1937	40	6,634	9,688	50,228	81,549	31,321
Nonferrous metals and their products, total. [5]	1939	5,600	228,753	299,220	1,748,592	2,572,854	824,263
	1937	5,173	255,767	336,349	1,934,185	2,779,961	845,776
Primary smelting and refining of nonferrous metals.	1939	63	27,630	38,411	819,570	956,572	137,002
	1937	66	32,798	47,342	980,546	1,140,216	159,671
Alloying and rolling and drawing of nonferrous metals, except aluminum.	1939	188	38,816	56,282	280,890	445,060	164,170
	1937	162	43,964	62,577	291,310	457,309	165,999
Secondary smelting and refining of nonferrous metals and alloys, total.	1939	174	4,723	6,053	160,219	183,822	23,603
	1937	168	6,058	7,533	179,260	205,100	25,841
Secondary smelting and refining, gold, silver, and platinum.	1939	66	1,115	1,687	94,783	101,784	7,001
	1937	65	1,085	1,561	85,208	92,093	6,886
Secondary smelting and refining of nonferrous metals, not elsewhere classified.	1939	108	3,608	4,366	65,436	82,038	16,602
	1937	103	4,973	5,972	94,052	113,007	18,955
Clocks and watches, total	1939	116	20,287	23,407	39,191	94,638	55,446
	1937	104	25,674	30,715	42,626	108,291	65,665
Clocks, watches, and materials and parts, except watchcases.	1939	74	17,878	20,467	35,204	84,846	49,642
	1937	75	23,223	27,559	38,444	97,934	59,489
Watchcases	1939	42	2,409	2,940	3,987	9,792	5,804
	1937	29	2,451	3,156	4,182	10,358	6,176
Jewelry, total	1939	1,058	14,438	17,609	52,846	99,037	46,191
	1937	911	13,764	18,045	51,429	95,600	44,171
Jewelry (precious metals)	1939	886	11,358	14,243	34,597	71,419	36,822
	1937	789	11,077	14,737	33,512	69,526	36,014

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[5] No comparable figures available for 1929 and 1935.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Nonferrous metals, etc.—Con.							
Jewelers' findings and materials	1939	82	2,813	2,975	14,493	22,489	7,996
	1937	71	2,470	3,002	14,574	21,684	7,109
Lapidary work	1939	90	267	391	3,755	5,129	1,374
	1937	51	217	306	3,343	4,391	1,048
Silverware and plated ware	1939	150	12,105	15,304	24,787	62,771	37,984
	1937	136	11,361	13,790	22,670	56,733	34,063
Engraving on metal, plating, and polishing, total.	1939	737	9,625	11,249	8,978	34,032	25,054
	1937	624	10,408	12,599	9,680	35,567	25,887
Engraving on metal (except for printing purposes).	1939	94	1,419	1,866	1,678	5,864	4,186
	1937	77	2,152	2,771	2,865	8,881	6,016
Electroplating, plating, and polishing.	1939	643	8,206	9,383	7,300	28,168	20,868
	1937	547	8,256	9,828	6,815	26,686	19,872
Lighting fixtures	1939	568	20,477	23,238	59,851	124,582	64,731
	1937	466	21,743	24,918	55,593	115,096	59,503
Nonferrous metal products not elsewhere classified, total.	1939	2,546	80,652	107,665	302,258	572,341	270,082
	1937	2,536	89,997	118,830	301,072	566,048	264,976
Nonferrous metal foundries (except aluminum).	1939	600	9,699	12,210	28,703	55,637	26,934
	1937	545	11,032	14,099	37,983	69,528	31,546
Aluminum ware, kitchen, hospital, and household (except electrical appliances).	1939	32	6,297	7,775	17,207	37,125	19,918
	1937	37	6,748	8,007	16,070	36,592	20,522
Aluminum products (including rolling and drawing and extruding), not elsewhere classified.	1939	162	17,249	25,539	106,993	169,819	62,826
	1937	116	16,947	23,882	80,034	129,052	49,018
Collapsible tubes	1939	14	1,933	1,903	4,936	9,472	4,536
	1937	15	1,983	1,872	5,272	9,185	3,913
Gold and silver leaf and foil	1939	26	563	470	1,096	2,109	1,013
	1937	26	625	515	1,231	2,299	1,068
Tin and other foils (except gold and silver foil).	1939	12	1,328	1,938	10,338	19,072	8,734
	1937	9	1,669	2,354	11,157	17,760	6,603
Sheet-metal work not specifically classified.	1939	1,262	18,749	23,079	70,981	137,341	66,360
	1937	1,392	22,973	29,263	85,935	159,096	73,161
Nonferrous metal products not elsewhere classified.	1939	438	24,834	34,751	62,005	141,766	79,761
	1937	396	28,020	38,839	63,391	142,537	79,146
Electrical machinery, total	1939	2,014	256,467	335,820	727,436	1,727,390	999,954
	1937	1,597	306,003	407,961	797,772	1,899,905	1,102,133
	1935	1,589	224,437	240,952	475,687	1,161,403	685,716
	1929	1,861	343,138	474,203	[2] 1,008,341	2,397,765	1,389,424
Electrical equipment for industrial use, total.	1939	727	95,130	135,354	250,618	624,941	374,323
	1937	585	122,196	178,406	276,678	736,881	460,204
Wiring devices and supplies	1939	146	14,564	16,906	44,506	94,305	49,800
	1937	124	17,301	19,884	46,906	95,391	48,485
Carbon products for the electrical industry, and manufactures of carbon or artificial graphite.	1939	31	3,189	4,484	6,681	18,376	11,694
	1937	30	4,098	5,776	9,075	23,390	14,315

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Electrical machinery—Continued.							
Electrical measuring instruments.	1939	59	6,976	9,881	12,105	41,797	29,693
	1937	33	6,935	10,102	10,257	40,416	30,159
Generating, distribution, and industrial apparatus, and apparatus for incorporation in manufactured products, not elsewhere classified.	1939	491	70,401	104,084	187,326	470,462	283,136
	1937	398	93,862	142,643	210,441	577,685	367,244
Electrical appliances	1939	138	19,890	25,409	58,081	145,696	87,615
	1937	107	20,605	27,172	57,530	129,515	71,985
Insulated wire and cable	1939	79	15,696	18,638	70,125	120,390	50,265
	1937	57	16,913	20,683	73,170	134,633	61,463
Automotive electrical equipment.	1939	84	17,495	24,896	42,041	109,762	67,721
	1937	61	23,103	32,890	61,395	137,712	76,317
Electric lamps	1939	55	9,622	10,689	28,571	84,828	56,257
	1937	41	8,984	10,163	26,190	82,538	56,348
Communication equipment and related products, total.	1939	451	75,627	91,470	194,202	467,197	272,995
	1937	349	89,324	107,328	220,086	505,331	285,245
Radios, radio tubes, and phonographs.	1939	224	43,508	47,026	145,850	275,870	130,020
	1937	162	48,343	52,002	154,906	277,807	122,902
Communication equipment	1939	227	32,119	44,444	48,352	191,326	142,975
	1937	187	40,981	55,326	65,181	227,524	162,343
Electrical products not elsewhere classified, total.	1939	480	23,007	29,363	83,798	174,577	90,778
	1937	397	24,878	31,309	82,724	173,295	90,572
Batteries, storage and primary (dry and wet).	1939	221	15,034	19,209	63,177	117,583	54,406
	1937	184	14,571	18,832	59,209	108,158	48,949
X-ray and therapeutic apparatus and electronic tubes.	1939	84	1,959	2,744	5,755	17,945	12,190
	1937	46	1,936	2,760	5,236	17,148	11,912
Electrical products not elsewhere classified.	1939	175	6,014	7,410	14,866	39,049	24,182
	1937	167	8,371	9,717	18,279	47,989	29,710
Machinery (except electrical), total.[5]	1939	9,506	522,980	748,288	1,285,211	3,254,174	1,968,963
	1937	8,368	643,522	955,996	1,571,362	3,902,967	2,331,604
Engines and turbines, total.	1939	92	18,654	27,852	63,007	135,109	72,102
	1937	114	25,325	39,046	66,688	146,602	79,914
Steam engines, turbines, and water wheels.	1939	18	3,902	6,340	9,551	24,751	15,200
	1937	22	4,102	7,614	7,012	22,425	15,413
Internal-combustion engines	1939	74	14,752	21,503	53,456	110,358	56,902
	1937	92	21,223	31,432	59,676	124,177	64,501
Agricultural machinery and tractors, total.	1939	347	59,081	85,074	214,896	421,847	206,950
	1937	298	80,238	124,968	293,137	578,341	285,204
Tractors	1939	30	31,275	49,846	135,026	253,951	118,325
	1937	28	42,465	69,216	185,125	353,297	168,172
Agricultural machinery (except tractors).	1939	317	27,806	35,229	79,270	167,895	88,625
	1937	270	37,773	55,751	108,012	225,044	117,032
Construction, mining, and related machinery, total.	1939	487	34,723	50,216	110,055	262,674	152,619
	1937	402	41,545	62,655	129,220	308,670	179,450

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[5] No comparable figures available for 1929 and 1935.

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939—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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
Machinery, etc.—Continued.							
Construction and similar machinery (except mining and oil-field machinery and tools).	1939	199	17,259	25,198	63,376	140,138	76,762
	1937	177	20,045	29,779	67,965	147,902	79,937
Oil-field machinery and tools	1939	223	12,524	18,741	31,305	88,977	57,673
	1937	179	16,347	25,248	48,644	126,666	78,022
Mining machinery and equipment.	1939	65	4,940	6,277	15,374	33,559	18,185
	1937	46	5,153	7,627	12,611	34,103	21,491
Metalworking machinery, total.	1939	1,332	77,684	128,769	130,026	442,650	312,624
	1937	1,163	90,192	152,281	151,248	489,687	338,439
Machine tools	1939	200	36,624	62,333	63,866	218,045	154,179
	1937	205	37,477	62,610	59,515	202,739	143,223
Machine-tool and other metalworking machinery accessories, metal-cutting and shaping tools, and machinists' precision tools.	1939	954	25,161	41,347	31,410	125,630	94,220
	1937	806	32,893	55,957	46,002	162,002	116,000
Metalworking machinery and equipment, not elsewhere classified.	1939	178	15,899	25,089	34,750	98,975	64,226
	1937	152	19,822	33,715	45,731	124,946	79,216
Special industry machinery, total.	1939	1,346	64,678	88,791	121,456	349,508	228,051
	1937	1,256	79,480	114,685	144,169	422,573	278,405
Food-products machinery	1939	379	13,979	18,937	31,950	90,841	58,891
	1937	323	18,475	26,579	39,301	114,082	74,781
Textile machinery	1939	300	21,904	27,615	33,598	93,276	59,678
	1937	356	25,340	33,139	35,546	107,429	71,883
Woodworking machinery	1939	130	3,622	4,657	8,292	21,604	13,312
	1937	106	3,678	4,856	8,375	20,311	11,937
Paper-mill, pulp-mill, and paper-products machinery.	1939	99	5,409	7,775	12,727	32,420	19,692
	1937	91	6,813	10,861	19,015	43,406	24,391
Printing-trades machinery and equipment.	1939	231	9,376	14,647	15,053	55,582	40,529
	1937	230	13,716	22,378	20,966	78,628	57,662
Special industry machinery, not elsewhere classified.	1939	207	10,388	15,161	19,836	55,785	35,949
	1937	150	11,459	16,872	20,965	58,716	37,751
General industrial machinery, total.	1939	5,200	172,104	237,363	396,706	1,062,931	666,225
	1937	4,498	202,400	289,168	478,222	1,238,620	760,398
Measuring and dispensing pumps.	1939	38	5,054	6,751	19,020	44,286	25,267
	1937	35	6,652	8,862	24,312	54,675	30,363
Pumping equipment and air compressors.	1939	337	19,180	26,208	54,204	134,941	80,737
	1937	310	21,668	30,910	60,749	144,046	83,297
Elevators, escalators, and conveyors.	1939	183	8,915	13,358	25,057	64,128	39,071
	1937	168	9,497	14,688	26,122	69,293	43,171
Cars and trucks, industrial	1939	55	2,732	3,149	7,801	17,320	9,519
	1937	52	3,819	4,964	10,258	25,688	15,430
Blowers; exhaust and ventilating fans.	1939	77	3,885	5,371	11,768	28,606	16,839
	1937	42	3,997	5,845	12,731	30,265	17,534
Measuring instruments, mechanical (except electrical measuring instruments, watches, and clocks).	1939	68	6,692	8,874	13,177	39,684	26,507
	1937	67	7,460	9,852	14,897	42,077	27,180

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Machinery, etc.—Continued.							
Mechanical power-transmission equipment.	1939	218	30,268	43,752	50,367	170,291	119,925
	1937	163	33,029	48,498	56,524	181,278	124,754
Stokers, mechanical, domestic and industrial.	1939	61	3,549	4,789	9,857	24,545	14,688
	1937	50	3,529	5,092	9,879	25,577	15,697
Machine-shop products, not elsewhere classified.	1939	2,125	60,717	81,660	141,493	360,334	218,841
	1937	1,626	65,370	91,911	153,965	382,255	228,290
Industrial machinery, not elsewhere classified.	1939	579	21,936	31,178	52,964	140,628	87,664
	1937	857	38,967	56,795	96,885	247,222	150,337
Machine-shop repairs	1939	1,459	9,176	12,273	10,998	38,166	27,169
	1937	1,128	8,412	11,751	11,900	36,244	24,344
Office and store machines, total.	1939	230	42,885	57,920	44,805	187,663	142,858
	1937	219	52,385	72,322	52,365	226,051	173,686
Office and store machines, not elsewhere classified.	1939	123	36,204	49,982	29,143	150,170	121,027
	1937	115	44,776	63,020	33,548	180,827	147,278
Vending, amusement, and other coin-operated machines.	1939	51	3,842	4,632	10,675	23,143	12,468
	1937	47	4,310	5,187	12,959	27,368	14,409
Scales and balances	1939	56	2,839	3,306	4,988	14,350	9,363
	1937	57	3,299	4,115	5,858	17,856	11,998
Household and service-industry machines, total.	1939	472	53,171	72,302	204,259	391,792	187,533
	1937	418	71,956	100,871	256,314	492,423	236,108
Laundry equipment, domestic	1939	42	7,466	9,277	36,365	61,601	25,236
	1937	40	9,302	11,675	41,208	69,889	28,680
Commercial laundry, dry-cleaning, and pressing machinery.	1939	82	2,705	3,477	8,821	21,839	13,018
	1937	62	3,012	4,274	10,874	23,910	13,036
Sewing machines, domestic and industrial.	1939	39	7,840	11,157	8,610	29,707	21,096
	1937	36	9,019	13,551	9,003	34,836	25,833
Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment and complete air-conditioning units.	1939	309	35,160	48,392	150,463	278,646	128,183
	1937	280	50,623	71,371	195,229	363,788	168,559
Automobiles and automobile equipment, total.	1939	1,133	398,963	646,406	2,725,396	4,047,873	1,322,476
	[11] *1937*	*1,070*	*511,332*	*807,026*	*3,710,919*	*5,292,795*	*1,581,877*
	[11] 1937	1,067	479,341	756,081	3,669,342	5,176,236	1,506,894
	1935	946	387,801	545,414	2,819,873	3,942,014	1,122,141
	1929	1,398	447,448	733,083	[2] 3,258,497	5,260,723	2,002,226
Motor vehicles, motor-vehicle bodies, parts and accessories.	1939	1,054	397,537	644,905	2,720,561	4,039,931	1,319,370
	1937	985	508,341	803,416	3,703,741	5,279,697	1,575,956
Automobile trailers (for attachment to passenger cars).	1939	79	1,426	1,501	4,835	7,942	3,107
	1937	85	2,992	3,610	7,178	13,099	5,921
Transportation equipment except automobiles, total. [3]	1939	968	157,097	239,254	411,377	882,397	471,520
	1937	888	150,885	221,624	448,164	852,785	404,620

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[2] Excludes cost of contract work.
[3] No comparable figures available for 1929 and 1935.
[11] The 1937 figures shown in *italics* are comparable with the statistics for 1939 and include data for 3 establishments which were originally classified in another group for 1937 and previous years but which have now been reclassified in this group. The roman-type figures for 1937 do not include data for these 3 establishments and are comparable with statistics for earlier years.

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939—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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
Transportation, etc.—Continued.							
Railroad equipment, total	1939	158	30,993	44,271	129,588	215,807	86,219
	1937	167	49,466	74,121	265,771	407,445	141,674
Locomotives (including frames) and parts—railroad, mining and industrial.	1939	15	6,470	9,657	25,927	47,426	21,499
	1937	13	9,000	14,845	39,266	72,123	32,857
Cars and car equipment—railroad, street, and rapid-transit.	1939	143	24,523	34,615	103,661	168,382	64,721
	1937	154	40,466	59,276	226,505	335,322	108,817
Aircraft and parts, including aircraft engines.	1939	125	48,638	77,488	96,250	279,497	183,247
	1937	105	30,384	43,827	56,556	149,700	93,144
Ship and boatbuilding and repairing, total.	1939	608	69,241	107,371	158,374	338,272	179,898
	1937	544	62,274	93,747	101,411	250,457	149,046
Shipbuilding and ship repairing	1939	406	66,611	104,473	153,415	327,387	173,972
	1937	353	59,452	90,514	95,687	238,385	142,699
Boatbuilding and boat repairing	1939	202	2,630	2,897	4,958	10,885	5,926
	1937	191	2,822	3,232	5,725	12,072	6,347
Motorcycles, bicycles, and parts.	1939	36	6,973	8,974	24,041	43,052	19,011
	1937	29	6,938	8,207	19,793	36,044	16,251
Transportation equipment not elsewhere classified.	1939	41	1,252	1,150	3,124	6,269	3,145
	1937	43	1,823	1,723	4,633	9,138	4,505
Miscellaneous industries, total [5]	1939	7,699	238,827	258,325	469,167	1,162,958	693,791
	1937	6,311	239,802	260,452	442,907	1,077,573	634,666
Professional and scientific instruments, photographic apparatus, and optical goods, total.	1939	499	38,824	53,089	75,590	244,617	169,027
	1937	392	39,836	56,408	66,115	215,844	149,729
Professional and scientific instruments (except surgical and dental).	1939	218	9,429	13,709	17,711	61,017	43,306
	1937	187	9,388	13,067	15,030	52,495	37,465
Photographic apparatus and materials and projection equipment (except lenses).	1939	160	17,271	25,287	42,556	133,899	91,343
	1937	109	18,450	28,876	36,653	115,888	79,235
Optical instruments and lenses	1939	30	1,372	1,848	1,114	4,746	3,632
	1937	17	1,092	1,498	970	3,941	2,971
Ophthalmic goods; lenses and fittings.	1939	91	10,252	12,246	14,209	44,955	30,745
	1937	79	10,906	12,968	13,462	43,520	30,058
Surgical, medical, and dental instruments, equipment, and supplies, total.	1939	541	14,339	15,352	55,874	118,997	63,123
	1937	463	14,444	15,756	59,783	115,512	55,730
Surgical and medical instruments.	1939	50	1,626	1,979	2,320	8,052	5,732
	1937	39	1,447	1,863	2,035	7,565	5,530
Surgical supplies and equipment not elsewhere classified; orthopedic appliances.	1939	360	8,468	8,548	40,297	79,398	39,102
	1937	323	8,423	8,546	45,031	77,068	32,037
Dental equipment and supplies	1939	131	4,245	4,825	13,258	31,547	18,289
	1937	101	4,574	5,347	12,717	30,879	18,162
Musical instruments and parts, total.	1939	193	10,806	12,525	16,793	40,238	23,445
	1937	187	11,971	14,089	17,161	43,265	26,104

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[5] No comparable figures available for 1929 and 1935.

No. 867.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1937 AND 1939—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	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
				In thousands of dollars			
Miscellaneous industries—Con.							
Pianos	1939	35	5,311	6,123	10,124	20,493	10,369
	1937	38	5,698	7,062	9,767	21,703	11,936
Organs	1939	34	989	1,054	1,297	3,421	2,124
	1937	34	1,086	1,235	1,474	4,637	3,163
Piano and organ parts and materials.	1939	23	1,315	1,431	1,927	4,772	2,844
	1937	32	1,778	1,716	2,114	4,978	2,864
Musical instruments, parts, and materials not elsewhere classified.	1939	101	3,191	3,917	3,445	11,552	8,108
	1937	83	3,409	4,075	3,806	11,948	8,141
Toys and sporting and athletic goods, total.	1939	821	36,797	34,427	67,957	151,404	83,447
	1937	625	34,686	32,703	62,468	133,519	71,052
Games and toys (except dolls and children's vehicles).	1939	343	15,610	12,657	24,910	55,401	30,491
	1937	250	14,608	12,427	21,639	50,591	28,952
Dolls (except rubber)	1939	84	3,052	2,837	6,418	12,132	5,715
	1937	74	2,682	2,319	6,314	11,199	4,885
Children's vehicles	1939	44	4,319	4,713	9,040	19,117	9,177
	1937	54	5,218	5,415	9,960	19,655	9,696
Sporting and athletic goods not elsewhere classified.	1939	350	13,816	14,221	26,690	64,754	38,064
	1937	247	12,178	12,542	24,555	52,074	27,519
Pens, pencils, stencils, and artists' materials, total.	1939	499	12,591	12,974	31,359	76,399	45,040
	1937	444	14,493	14,891	30,758	75,287	44,529
Pens, mechanical pencils, and pen points.	1939	70	4,463	4,329	8,700	24,881	16,181
	1937	55	5,703	5,356	9,238	25,970	16,732
Pencils (except mechanical) and crayons.	1939	40	3,779	3,434	7,279	15,860	8,580
	1937	33	4,416	4,212	8,013	18,288	10,275
Hand stamps, stencils, and brands.	1939	289	2,211	2,615	3,204	10,812	7,607
	1937	266	2,375	2,929	3,047	10,386	7,339
Artists' materials	1939	42	397	464	2,019	4,070	2,051
	1937	40	372	403	1,282	2,783	1,501
Carbon paper and inked ribbons.	1939	58	1,741	2,132	10,157	20,777	10,620
	1937	50	1,627	1,991	9,178	17,860	8,681
Buttons	1939	316	10,972	8,623	12,473	29,817	17,344
	1937	291	12,026	9,256	13,578	31,291	17,713
Costume jewelry and miscellaneous products, total.	1939	863	25,256	19,743	32,117	77,472	45,355
	1937	702	23,988	19,182	28,094	67,071	38,977
Costume jewelry and costume novelties (jewelry other than fine jewelry).	1939	289	10,808	8,755	13,830	33,922	20,092
	1937	240	10,165	9,339	11,673	29,929	18,256
Jewelry cases and instrument cases.	1939	132	5,127	4,691	6,479	16,670	10,191
	1937	91	4,788	3,692	4,860	12,202	7,343
Lamp shades	1939	128	2,671	1,715	4,384	8,376	3,991
	1937	121	2,810	1,821	4,192	8,242	4,050
Feathers, plumes, and artificial flowers.	1939	314	6,650	4,582	7,424	18,504	11,080
	1937	250	6,216	4,330	7,369	16,698	9,329
Miscellaneous industries, not elsewhere classified, total.	1939	3,967	89,742	101,592	177,003	424,013	247,010
	1937	3,206	88,249	98,088	164,859	394,997	230,139
Brooms	1939	320	3,787	2,757	6,052	11,842	5,790
	1937	289	4,067	2,906	6,301	11,628	5,327

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 867.—Manufactures—Summary for Industry Groups, 1929 to 1939, and for Subgroups and Industries, 1937 and 1939—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	Value of products	Value added by manufacture [1]
				In thousands of dollars			
Miscellaneous industries—Con.							
Brushes	1939	245	7,891	7,989	25,255	48,467	23,212
	1937	243	7,915	7,250	24,110	44,537	20,426
Beauty-shop and barber-shop equipment.	1939	72	1,986	1,818	5,366	13,006	7,640
	1937	73	2,548	2,480	5,334	13,571	8,238
Furs, dressed and dyed	1939	145	5,115	9,066	4,858	22,395	17,537
	1937	121	6,343	8,335	6,449	21,763	15,314
Signs, advertising displays, and advertising novelties.	1939	1,386	17,206	20,557	32,493	87,625	55,132
	1937	1,001	16,042	19,181	27,754	75,723	47,969
Fabricated plastic products, not elsewhere classified.	1939	216	15,094	17,688	31,747	71,904	40,157
	1937	129	14,184	16,955	26,640	62,139	35,500
Umbrellas, parasols, and canes	1939	90	2,862	2,193	6,869	11,520	4,651
	1937	81	3,088	2,572	8,042	13,237	5,196
Tobacco pipes and cigarette holders.	1939	32	2,481	2,407	2,299	7,508	5,208
	1937	25	2,382	2,413	2,523	7,647	5,124
Soda fountains, beer dispensing equipment, and related products.	1939	51	1,590	2,389	5,968	13,660	7,692
	1937	51	1,655	2,549	6,263	13,033	6,770
Models and patterns (except paper patterns).	1939	683	5,566	9,037	4,228	22,329	18,101
	1937	594	5,728	9,762	4,142	22,289	18,147
Hair work	1939	42	322	261	739	1,401	662
	6a 1937	34	325	295	851	1,664	813
Wool pulling	1939	17	836	1,101	9,615	13,122	3,507
	1937	19	794	1,064	12,695	16,651	3,956
Needles, pins, hooks and eyes, and slide and snap fasteners.	1939	58	10,403	11,804	13,485	38,155	24,670
	1937	52	9,580	10,154	10,291	36,240	25,949
Fire extinguishers, chemical	1939	28	995	1,273	4,705	9,228	4,524
	1937	25	1,041	1,401	3,582	8,889	5,307
Miscellaneous fabricated products not elsewhere classified.	1939	582	13,608	11,252	23,322	51,849	28,527
	1937	469	12,557	10,769	19,883	45,986	26,103

[1] Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.
[6a] Revised; revision not carried into group total.

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

No. 868.—Manufactures—Summary, by States: 1937 and 1939

[See general note, p. 845]

	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	SALARIES	WAGES	COST OF MATERIALS, ETC., FUEL, PURCHASED ELECTRIC ENERGY, AND CONTRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
					In thousands of dollars				
United States	1939	184, 230	1, 048, 607	7, 886, 567	2, 540, 357	9, 089, 941	32,160,107	56,843,025	24,682,918
	1937	166, 794	1, 217, 171	8, 569, 231	2, 716, 866	10,112,883	35,539,333	60,712,872	25,173,539
GEOGRAPHIC DIVS.									
New England	1939	16, 136	120, 328	953, 670	284, 339	1, 025, 006	2, 463, 320	4, 891, 666	2, 428, 346
	1937	15, 568	131, 740	1, 022, 350	294, 813	1, 133, 392	2, 622, 660	5, 109, 918	2, 487, 258
Middle Atlantic	1939	56, 291	320, 253	2, 249, 621	812, 869	2, 688, 703	8, 684, 136	16,039,273	7, 355, 137
	1937	49, 897	378, 730	2, 386, 743	882, 402	2, 936, 510	9, 256, 477	16,599,776	7, 343, 298
East North Central	1939	40, 415	319, 957	2, 195, 479	803, 593	2, 950, 313	9, 777, 614	17,559,905	7, 782, 291
	1937	36, 773	380, 086	2, 571, 131	876, 111	3, 505, 767	11,523,928	19,970,059	8, 446, 131
West North Central	1939	14, 947	59, 885	382, 201	134, 287	427, 457	2, 452, 694	3, 815, 177	1, 362, 483
	1937	13, 834	76, 559	406, 176	153, 687	457, 489	2, 762, 949	4, 091, 727	1, 328, 778
South Atlantic	1939	17, 317	81, 403	986, 521	180, 715	826, 413	3, 156, 673	5, 390, 420	2, 233, 747
	1937	15, 751	84, 029	991, 825	176, 843	836, 180	3, 288, 204	5, 403, 450	2, 115, 245
East South Central	1939	7, 275	32, 725	357, 827	70, 157	291, 019	1, 130, 137	1, 958, 726	828, 588
	1937	6, 681	34, 198	370, 412	69, 757	297, 939	1, 186, 135	1, 977, 318	791, 183
West South Central	1939	10, 021	36, 558	262, 580	78, 996	238, 265	1, 744, 122	2, 567, 821	823, 700
	1937	8, 582	41, 492	272, 389	80, 359	251, 833	1, 877, 111	2, 693, 027	815, 916
Mountain	1939	4, 011	12, 203	69, 245	25, 728	81, 737	545, 187	819, 383	274, 046
	1937	3, 683	13, 784	78, 774	27, 032	90, 678	639, 194	928, 951	289, 757
Pacific	1939	17, 817	65, 295	429, 423	149, 674	561, 026	2, 206, 224	3, 800, 204	1, 593, 980
	1937	16, 025	75, 053	469, 431	155, 862	597, 096	2, 382, 675	3, 938, 647	1, 555, 972
New England:									
Maine	1939	1, 210	6, 339	75, 656	13, 592	68, 434	192, 945	345, 369	152, 423
	1937	1, 171	6, 432	75, 464	13, 452	72, 263	197, 526	348, 636	151, 111
New Hampshire	1939	806	4, 593	55, 781	10, 484	52, 735	132, 208	237, 396	105, 188
	1937	794	4, 819	56, 517	10, 473	55, 235	144, 323	249, 632	105, 309
Vermont	1939	717	2, 759	21, 759	6, 041	21, 232	51, 214	103, 154	51, 941
	1937	683	2, 871	23, 682	6, 038	24, 615	58, 772	111, 876	53, 104
Massachusetts	1939	9, 007	61, 848	460, 674	148, 602	500, 923	1, 271, 452	2, 459, 771	1, 188, 319
	1937	8, 619	68, 204	496, 036	154, 043	556, 077	1, 364, 299	2, 620, 789	1, 256, 490
Rhode Island	1939	1, 460	12, 002	105, 275	27, 930	105, 407	278, 102	516, 391	238, 289
	1937	1, 409	12, 384	108, 031	28, 872	112, 933	276, 739	517, 196	240, 458
Connecticut	1939	2, 936	32, 787	233, 525	77, 690	276, 274	537, 399	1, 229, 586	692, 187
	1937	2, 892	37, 030	262, 620	81, 936	312, 270	581, 002	1, 261, 789	680, 787
Middle Atlantic:									
New York	1939	34, 506	151, 392	957, 854	396, 693	1, 163, 785	3, 792, 505	7, 134, 400	3, 341, 895
	1937	29, 749	188, 616	995, 658	438, 861	1, 236, 048	3, 998, 266	7, 314, 447	3, 316, 180
New Jersey	1939	7, 984	62, 884	433, 471	162, 954	521, 569	1, 904, 834	3, 428, 947	1, 524, 114
	1937	7, 064	67, 496	436, 745	160, 526	523, 504	1, 890, 539	3, 253, 246	1, 362, 708
Pennsylvania	1939	13, 801	105, 977	858, 296	253, 221	1, 003, 349	2, 986, 797	5, 475, 925	2, 489, 129
	1937	13, 084	122, 618	954, 340	283, 014	1, 176, 957	3, 367, 673	6, 032, 083	2, 664, 410
East North Central:									
Ohio	1939	10, 070	87, 692	598, 397	220, 750	812, 676	2, 459, 192	4, 584, 666	2, 125, 474
	1937	9, 138	104, 016	694, 205	242, 874	957, 650	2, 793, 190	5, 099, 817	2, 306, 627
Indiana	1939	4, 337	40, 949	277, 467	94, 354	345, 475	1, 257, 436	2, 227, 648	970, 212
	1937	3, 939	43, 581	313, 342	93, 480	402, 117	1, 478, 568	2, 497, 548	1, 018, 980
Illinois	1939	12, 980	92, 327	596, 476	238, 215	750, 239	2, 593, 266	4, 794, 861	2, 201, 595
	1937	11, 764	118, 256	668, 841	273, 835	862, 793	2, 985, 247	5, 304, 283	2, 319, 036
Michigan	1939	6, 311	66, 204	522, 242	173, 581	789, 976	2, 549, 819	4, 348, 223	1, 798, 404
	1937	5, 614	76, 219	660, 676	183, 414	936, 841	3, 204, 438	5, 296, 101	2, 091, 663
Wisconsin	1939	6, 717	32, 794	200, 897	76, 692	251, 947	917, 902	1, 604, 507	686, 605
	1937	6, 318	38, 614	234, 067	82, 507	296, 365	1, 062, 486	1, 772, 310	709, 824
West North Central:									
Minnesota	1939	4, 008	12, 331	79, 753	28, 555	96, 887	535, 143	845, 772	310, 628
	1937	3, 718	17, 424	89, 925	35, 923	107, 393	624, 565	937, 463	312, 898
Iowa	1939	2, 670	11, 501	65, 314	23, 532	73, 466	473, 737	718, 532	244, 795
	1937	2, 454	13, 886	67, 878	25, 490	76, 193	473, 395	709, 458	236, 064
Missouri	1939	4, 796	24, 275	178, 538	58, 937	190, 736	800, 095	1, 388, 056	587, 962
	1937	4, 291	29, 843	186, 831	64, 001	202, 586	944, 985	1, 505, 383	560, 398
North Dakota	1939	350	798	2, 637	1, 433	2, 771	32, 665	43, 767	11, 102
	1937	340	839	2, 854	1, 433	3, 192	35, 571	45, 837	10, 266
South Dakota	1939	468	1, 264	5, 538	2, 346	6, 036	61, 217	81, 172	19, 955
	1937	434	1, 281	4, 970	2, 198	5, 485	52, 897	67, 276	14, 380
Nebraksa	1939	1, 161	3, 642	18, 807	7, 500	20, 624	204, 437	273, 525	69, 087
	1937	1, 071	4, 899	19, 590	9, 049	22, 126	215, 077	282, 502	67, 424
Kansas	1939	1, 494	6, 074	31, 614	11, 985	36, 938	345, 401	464, 354	118, 952
	1937	1, 526	8, 387	34, 128	15, 594	40, 513	416, 459	543, 807	127, 348

For footnotes, see p. 880.

No. 868.—MANUFACTURES—SUMMARY, BY STATES: 1937 AND 1939—Continued

	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	SALARIES	WAGES	COST OF MATERIALS, ETC., FUEL, PURCHASED ELECTRIC ENERGY, AND CONTRACT WORK	VALUE OF PRODUCTS	VALUE ADDED BY MANUFACTURE [1]
					In thousands of dollars				
South Atlantic:									
Delaware	1939	429	2,356	20,392	6,093	21,960	59,570	114,754	55,183
	1937	359	2,679	21,052	6,329	22,992	65,980	124,384	58,404
Maryland	1939	2,893	15,526	141,643	36,778	156,783	604,505	1,027,354	422,849
	1937	2,683	18,436	145,932	40,787	156,995	665,027	1,095,863	430,836
District of Columbia	1939	407	3,572	7,877	8,548	11,772	35,558	79,875	44,317
	1937	469	5,043	8,714	9,521	12,848	31,451	74,108	42,657
Virginia	1939	2,579	11,937	133,894	27,343	115,539	609,325	988,813	379,488
	1937	2,384	11,791	132,643	25,388	112,774	572,374	908,222	335,848
West Virginia	1939	1,130	8,058	74,989	18,600	88,487	227,062	441,840	214,779
	1937	1,057	8,061	83,464	18,295	102,511	257,752	480,526	222,774
North Carolina	1939	3,225	15,467	270,207	34,270	199,290	875,377	1,421,330	545,952
	1937	2,896	13,139	258,771	29,050	189,265	908,903	1,384,738	475,834
South Carolina	1939	1,331	6,196	126,983	13,203	86,616	227,666	397,513	169,847
	1937	1,193	5,434	129,748	11,841	91,792	234,433	409,912	175,478
Georgia	1939	3,150	12,361	157,804	24,105	108,083	394,087	677,403	283,316
	1937	2,875	12,549	159,496	23,629	110,501	439,145	708,652	269,507
Florida	1939	2,083	5,930	52,732	11,776	37,883	123,523	241,539	118,016
	1937	1,835	6,897	52,005	12,003	36,501	113,138	217,045	103,907
East South Central:									
Kentucky	1939	1,640	7,924	62,794	18,018	61,902	293,629	481,030	187,400
	1937	1,624	8,801	68,998	18,298	66,249	323,002	504,897	181,896
Tennessee	1939	2,289	12,446	131,874	27,824	109,662	407,746	728,088	320,342
	1937	2,083	13,359	135,073	27,241	109,248	412,360	707,987	295,627
Alabama	1939	2,052	8,700	116,800	17,669	92,018	327,287	574,671	247,384
	1937	1,874	8,832	120,301	18,511	96,058	336,328	573,764	237,436
Mississippi	1939	1,294	3,655	46,359	6,647	27,437	101,475	174,937	73,462
	1937	1,100	3,206	46,040	5,708	26,384	114,446	190,671	76,225
West South Central:									
Arkansas	1939	1,178	3,180	36,256	6,210	24,577	92,777	160,167	67,390
	1937	1,048	3,251	37,280	6,095	24,734	99,089	164,676	65,587
Louisiana	1939	1,861	8,436	71,218	18,043	55,084	365,179	565,265	200,086
	1937	1,684	9,645	76,057	18,919	60,203	380,984	580,840	199,856
Oklahoma	1939	1,606	5,414	28,114	11,079	30,465	209,050	312,168	103,118
	1937	1,428	6,042	29,551	12,066	34,390	255,470	366,089	110,618
Texas	1939	5,376	19,528	126,992	43,663	128,139	1,077,115	1,530,221	453,105
	1937	4,422	22,554	129,501	43,280	132,505	1,141,568	1,581,422	439,854
Mountain:									
Montana	1939	585	1,727	9,171	3,684	12,148	112,095	151,885	39,790
	1937	515	1,952	11,268	3,936	15,758	134,041	176,279	42,238
Idaho	1939	549	1,355	10,877	2,613	12,754	58,705	90,475	31,770
	1937	533	1,319	12,797	2,485	16,250	63,633	101,325	37,691
Wyoming	1939	310	792	3,484	1,680	4,757	29,794	45,423	15,629
	1937	235	824	3,795	1,711	5,219	33,028	49,129	16,101
Colorado	1939	1,298	4,177	23,719	9,111	28,392	130,387	221,643	91,256
	1937	1,233	5,197	25,932	10,299	31,753	145,735	237,838	92,103
New Mexico	1939	272	522	3,250	927	2,913	16,412	25,124	8,712
	1937	241	506	3,683	768	2,992	11,485	20,599	9,114
Arizona	1939	332	1,110	6,096	2,612	7,163	65,488	97,529	32,041
	1937	290	1,288	7,193	2,823	8,602	84,721	118,356	33,635
Utah	1939	560	2,286	11,555	4,591	11,968	123,452	167,172	43,720
	1937	552	2,448	13,094	4,575	14,479	156,911	204,857	47,946
Nevada	1939	105	234	1,093	509	1,642	8,854	20,582	11,728
	1937	84	250	1,012	434	1,625	9,638	20,568	10,930
Pacific:									
Washington	1939	3,240	10,812	90,324	25,036	118,326	350,003	636,650	286,647
	1937	3,057	13,008	101,260	26,589	128,472	380,321	675,640	295,319
Oregon	1939	2,248	6,256	63,622	13,735	77,586	193,200	365,374	172,175
	1937	2,107	7,051	65,982	14,670	79,492	194,085	363,142	169,057
California	1939	12,329	48,227	275,477	110,854	365,114	1,663,022	2,798,180	1,135,158
	1937	10,861	55,894	302,189	114,603	389,132	1,808,239	2,899,835	1,091,597

[1] Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and contract work from value of products.

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

No. 869.—Manufactures—Summary for Industrial Areas: 1937 and 1939

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. 845.

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

Area	Wage earners (average for year)		Wages		Value of products		Value added by manufacture	
	1937	1939	1937	1939	1937	1939	1937	1939
United States	8,569,231	7,886,567	10,112,883	9,089,941	60,712,872	56,843,025	25,173,539	24,682,918
Total for areas	4,768,548	4,311,567	6,251,249	5,552,128	38,279,316	33,575,755	15,443,924	14,918,838
Akron area	52,888	40,155	80,702	65,505	395,871	332,926	179,774	166,566
Albany-Schenectady-Troy area	44,085	36,368	57,190	46,163	304,469	245,199	158,876	126,695
Allentown-Bethlehem area	56,850	55,342	62,106	58,667	290,734	280,592	150,768	141,721
Baltimore area	105,615	105,737	124,623	126,981	925,761	856,907	352,495	341,669
Boston area	247,685	237,496	281,911	264,496	1,483,027	1,425,482	677,039	660,839
Bridgeport-New Haven-Waterbury area	146,077	128,396	173,309	150,993	761,229	722,554	396,284	393,684
Buffalo area	105,722	91,328	154,440	127,123	1,078,068	905,221	433,175	394,338
Chicago area	538,775	483,593	740,160	640,533	4,711,428	4,277,816	1,995,958	1,909,989
Cincinnati area	101,044	87,384	128,762	112,225	794,341	702,620	330,770	315,707
Cleveland area	163,319	140,653	232,570	200,154	1,210,522	1,123,147	570,486	546,642
Dayton area	47,388	39,367	72,594	60,089	315,584	277,134	185,702	162,254
Detroit area	406,882	311,332	648,515	511,909	3,409,351	2,719,210	1,304,953	1,060,085
Hartford area	70,079	62,245	89,474	80,424	314,894	326,667	194,556	204,719
Indianapolis area	41,254	38,838	50,356	48,139	297,483	294,512	142,475	139,153
Kansas City (Missouri and Kansas) area	41,410	38,378	49,857	47,811	549,273	483,771	139,767	148,465
Los Angeles area	128,555	126,391	164,763	166,630	1,205,280	1,219,434	466,080	512,527
Milwaukee area	120,957	98,414	172,675	137,897	871,529	753,580	395,288	361,456
Minneapolis-St. Paul area	55,509	48,608	69,316	62,458	533,733	480,272	205,528	201,521
New York City-Newark-Jersey City area	848,345	849,608	1,046,187	1,042,682	6,764,288	6,948,445	2,878,131	3,060,864
Philadelphia-Camden area	345,553	321,725	421,546	387,115	2,350,645	2,292,960	1,005,830	1,040,712
Pittsburgh area	227,675	191,903	348,762	271,080	1,746,908	1,501,399	767,357	643,225
Providence-Fall River-New Bedford area	158,075	153,013	157,766	146,085	670,564	663,917	316,731	315,111
Reading area	45,429	40,612	47,349	41,697	156,921	154,765	83,761	83,978
Rochester area	57,690	51,331	78,620	70,961	342,224	345,900	198,565	208,668
St. Louis area	140,876	126,831	171,719	152,939	1,202,719	1,086,596	465,275	463,516
San Francisco-Oakland area	88,414	76,374	122,916	110,964	1,052,353	960,636	356,821	360,480
Scranton-Wilkes-Barre area	33,363	31,452	28,380	27,127	133,635	132,922	65,297	66,101
Seattle-Tacoma area	39,103	36,853	51,292	50,708	307,401	302,227	115,586	124,208
Springfield-Holyoke area	46,187	36,446	57,242	44,298	258,177	211,697	132,139	110,007
Toledo area	41,716	30,676	59,023	43,656	334,092	249,409	142,985	111,475
Wheeling area	50,574	43,519	72,523	57,785	332,671	291,618	126,386	108,387
Worcester area	88,203	78,373	103,977	88,890	424,879	376,838	220,664	198,478
Youngstown area	83,251	72,826	130,626	107,944	748,362	629,224	288,420	226,507

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

No. 870.—Textile Manufactures—Production, by Kind: 1937 and 1939

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)	
		1937	1939	1937	1939
COTTON MANUFACTURES					
Total value				1,284,588	1,052,604
Cotton woven goods over 12 inches in width, total [1]	Sq. yard	9,445,914	9,044,979	920,301	722,474
Duck (except tire)	do	225,266	184,448	46,432	31,602
Narrow sheetings and allied coarse- and medium-yarn fabrics	do	[2]1,546,570	1,594,327	[2] 128,537	102,305
Print-cloth-yarn fabrics	do	[2]3,508,386	3,140,234	[2] 191,621	128,312
Blankets, all cotton, except crib	do	101,276	116,365	16,219	13,582
Blankets, part-wool, containing less than 25 percent, by weight, of wool or similar fibers [3]	do	53,905	32,490	10,535	5,333
Other napped fabrics	do	464,534	393,167	51,959	35,048
Colored-yarn cotton goods and related fabrics	do	720,760	626,190	101,921	75,024
Fine cotton goods (all-combed or part-combed cotton fabrics, including fabrics having rayon or other synthetic-fiber or silk decorations, and fine carded goods)	do	1,118,778	1,106,115	110,522	94,044
Tire fabrics	do	203,020	208,890	46,930	37,786
Towels, towelings, washcloths, and terry-woven fabrics other than towels	do	208,029	245,035	39,001	38,722
Wide cotton fabrics	do	929,355	995,243	90,498	76,956
Specialties and other fabrics	do	366,036	402,477	86,127	83,159
Narrow cotton fabrics (not over 12 inches in width)				[4] 43,205	45,551
Yarns spun on cotton system, made for sale	Pound	536,802	552,996	176,920	152,878
Cotton thread	do	38,886	50,426	41,359	45,328
Covered rubber threads [5]	do	(6)	4,325	(6)	4,098
Tire cord on cones	do	93,093	97,083	28,155	21,995
Other cotton products				74,649	60,281
LACE GOODS					
Total value				26,770	23,334
Levers laces	Sq. yard	19,145	19,046	9,766	8,631
Nottingham lace curtains	Pair	10,690	10,530	12,079	10,197
Nottingham lace bedspreads and table covers	Dozen	88	128	1,817	2,210
Other lace products				3,108	2,296
KNIT GOODS					
Total value				642,970	690,513
Full-fashioned hosiery	Doz. pair	40,200	48,083	229,259	270,848
Seamless hosiery	do	85,358	104,259	122,718	136,038
Knitted underwear and nightwear made in knitting mills				111,521	101,829
Knitted gloves and mittens	Doz. pair	1,714	2,369	8,072	12,254
Sweaters, sweater coats, and jerseys	Dozen	4,712	5,884	56,615	65,798
Other knitted outerwear				45,244	32,305
Knitted cloth, made for sale				57,577	56,111
Other knit products				11,965	8,950
Interplant transfers				(6)	6,382
RAYON AND SILK MANUFACTURES					
Total value				358,644	402,825
Rayon and silk broad woven goods	Pound	233,279	346,899	283,057	306,947
All rayon	do	193,361	289,086	200,176	236,886
Rayon mixtures	do	17,565	45,480	22,195	36,059
All silk	do	15,864	6,499	43,946	18,829
Silk mixtures	do	6,489	5,833	16,740	15,173
Silk and rayon narrow fabrics				31,218	34,527
Silk and rayon yarn and thread made for sale				33,675	48,700
Other silk and rayon products				10,695	12,651

For footnotes, see p. 884.

No. 870.—Textile Manufactures—Production, by Kind: 1937 and 1939—Continued

Product	Unit	Quantity (thousands of unit specified)		Value (thousands of dollars)	
		1937	1939	1937	1939
WOOLEN AND WORSTED MANUFACTURES					
Total value				669,583	630,638
Men's-wear suitings and pantings	Sq. yard	215,634	224,680	215,594	195,877
Men's-wear overcoatings and topcoatings	do	45,578	40,782	50,099	37,106
Women's-wear coatings	do	87,051	90,917	80,026	74,510
Women's-wear suitings and dress fabrics	do	55,678	69,704	41,996	47,365
Other apparel fabrics	do	65,501	55,426	39,135	31,006
Auto cloths	do	47,406	34,130	58,289	37,416
Other upholstery and drapery cloths	do	10,507	8,516	12,515	8,829
Other nonapparel fabrics	do	4,642	4,253	3,890	3,291
Blankets, bed and camp, except crib:					
98 percent or more wool or similar animal fibers	do	12,543	13,606	14,329	13,575
25 to 98 percent wool or similar animal fibers [7]	do	19,066	24,455	9,026	10,907
Motor and steamer robes and crib blankets	do	[8] 990	1,091	[8] 973	1,029
Woven felts	Pound	5,281	6,739	15,046	15,877
Yarns made for sale	do	75,355	77,194	98,766	86,293
Tops made for sale	do	9,950	[9] 6,746	8,031	[9] 5,326
Noils made for sale	do	9,917	8,923	5,711	4,065
Other products				16,157	[10] 58,167
FELT GOODS, WOOL, HAIR, AND JUTE (EXCEPT WOVEN FELTS AND HAT BODIES AND HATS)					
Total	Pound	112,455	114,822	27,510	22,819
Carpet and rug linings and cushions	do	52,728	59,671	9,173	8,155
Trimmings and lining felts	do	5,352	5,824	3,029	2,266
Boot, shoe, and slipper felts and linings	do	6,836	9,844	3,456	3,155
Automotive felts	do	12,324	13,881	3,486	3,837
Other felts	do	35,215	25,602	8,367	5,406
HATS (EXCEPT MILLINERY) AND FINISHING OF MEN'S AND BOYS' HATS					
Total value				117,868	112,009
Fur-felt hats and hat bodies	Dozen	3,915	3,917	65,047	59,769
New hats finished	do	1,715	1,830	44,214	42,100
New hat bodies and hats in the rough, made for sale as such	do	2,200	2,086	20,833	17,669
Wool-felt hat bodies and hats	do	2,800	3,565	13,267	15,257
Straw hats	do	2,130	1,814	12,306	10,333
Men's and boys' cloth hats and caps				11,137	11,437
Hatters' fur, cut or blown, for sale	Pound		6,123	9,681	9,382
Other hats and materials and trimmings				6,430	5,831
CARPETS AND RUGS					
Carpets and rugs, wool, and carpet yarns, woolen and worsted				[11] 169,608	[12] 149,142
Axminster	Sq. yard		29,577		59,493
Wilton	do		7,340		27,075
Plain velvet	do		12,680		37,224
Printed velvet	do		3,628		7,242
Other carpets and rugs and automobile and aircraft floor coverings	do		8,639		16,672
Carpet yarns, spun on woolen system	Pound	28,706	24,271		12,056
Other products					1,995
Carpets, rugs, mats, etc., other than wool				12,315	13,760
ARTIFICIAL LEATHER AND OILCLOTH					
Total value				39,177	41,386
Artificial leather	Sq. yard	91,125	100,962	27,876	28,181
Pyroxylin-coated	do	79,841	87,073	23,873	23,215
Other	do	11,284	13,889	4,003	4,966
Oilcloth	do	73,355	96,115	11,301	13,205
ASPHALTED-FELT-BASE FLOOR COVERING AND LINOLEUM					
Total value				66,036	67,314
Asphalted-felt-base floor covering	Sq. yard	157,077	166,567	36,462	37,881
Linoleum	do	35,745	36,005	29,574	29,433

For footnotes, see p. 884.

No. 870.—Textile Manufactures—Production, by Kind: 1937 and 1939—Continued

PRODUCT	Unit	QUANTITY (THOUSANDS OF UNIT SPECIFIED)		VALUE (THOUSANDS OF DOLLARS)	
		1937	1939	1937	1939
CORDAGE AND TWINE AND JUTE AND LINEN GOODS					
Total value				99,140	80,303
Cordage (stranded construction) and cordage specialties	Pound	[13] 131,423	126,352	[13] 24,182	20,462
Abaca (Manila fiber, incl. Sumatra abaca)	do	88,122	77,041	14,209	11,224
Sisal and/or henequen	do	7,924	9,102	816	810
Cotton cordage	do	26,764	30,337	6,978	6,019
Other cordage	do	[13] 8,613	9,872	[13] 2,179	1,808
Binder twine	do	114,943	88,058	8,582	5,144
Cotton twine	do	69,214	66,784	17,950	13,314
Other twine				15,992	15,033
Jute yarns and roves produced for sale [14]	Pound	115,946	92,292	14,787	12,368
Linen thread	do	2,960	2,495	3,570	3,430
Linen and part-linen woven goods	Sq. yard	7,589	(6)	2,007	2,598
Jute bagging for baling cotton	do	61,682	26,758	5,831	2,051
Other products				6,239	5,904

[1] In the gray, except for blankets.
[2] Print-cloth yarn fabrics include data for heavy-warp sateens, 40 inches and narrower which in 1939 are included in narrow sheetings, etc.
[3] See "Woolen and Worsted Manufactures," p. 883.
[4] Data for 1937 to some extent incomplete and not strictly comparable with 1939.
[5] In addition, 3,079,000 pounds were produced in the "Rubber products not elsewhere classified" industry. Not called for separately for 1937.
[6] No comparable data. [7] See "Cotton Manufactures," p. 882. [8] Excludes data for crib blankets.
[9] Excludes a small quantity of tops made for sale, value included in "Other products."
[10] Includes data on dyed and finished woolen and worsted fabrics, yarns, and raw stock for which there is no comparable data for 1937.
[11] Represents total value instead of total net sales as in 1939. Figures not available by classes.
[12] Total net sales. Figures by classes represent gross sales and include a total of $12,615,000 allowances and discounts charged to sales.
[13] Includes "Other cordage" valued at $771,000, for which no quantity was reported.
[14] Includes a small amount of flax and hemp yarns and roves.

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

No. 871.—Boots and Shoes (Other Than Rubber)—Production, by Class: 1914 to 1940

Note.—In thousands of pairs. Detailed value data were not collected at the censuses. For total value of products of the industry see table 867, p. 866. Data for 1925 to 1940 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 to 1940.

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	(6)	(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
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	39 ,746	96,660	17,137	147,755	40,188	21,315	2,695	8,072	8,537	42,487	5,899
1939	424,136	103,753	16,858	167,697	43,990	24,085	3,857	4,937	7,209	45,695	6,056
1940	404,151	102,383	15,276	151,944	40,750	21,750	4,454	6,895	9,482	46,387	5,331

[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 877, p. 892.
[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; figures are published currently in monthly releases.

No. 872.—Leather—Production, by Principal Types of Raw Stock: 1929 to 1940

[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
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, 363	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, 047	12, 991	31, 905	28, 941
1933	17, 115	13, 049	44, 312	33, 881	1939	22, 089	14, 027	40, 419	39, 384
1934	19, 771	12, 442	44, 982	34, 255	1940	21, 012	11, 386	37, 694	37, 920

Source: Tanners' Council of America.

No. 873.—Leather—Production, by Kind: 1937 and 1939

PRODUCT	Unit	1937	1939		1937	1939
		Quantity (thousands of unit specified)	Produced in regular factories	Produced in contract factories on commission	Value (thousands of dollars)	Produced in regular factories
			Quantity (thousands of unit specified)	Quantity (thousands of unit specified)		Value (thousands of dollars)
Total value					372, 468	322, 359
Sole and belting leather:						
Oak, union, chrome, and combination sole	Pound	251, 086	201, 021	40, 317	84, 074	60, 049
Horse—sole	Sq. ft	3, 042	3, 960		825	938
Belting butts—curried	Pound	9, 236	6, 107		6, 365	3, 661
Offal	do	94, 438	88, 687	176	18, 948	16, 314
Harness leather:						
Union black	do	5, 855	1, 335		1, 816	387
Oak black and russet	do	8, 642	6, 332		2, 675	1, 880
Bag, case, and strap leather—finished grains	Sq. ft	21, 522	21, 245		5, 316	4, 888
Collar, skirting, lace and latigo leather	do	(1)	9, 414		2, 805	2, 334
Welting leather—cattle	Pound	7, 240	7, 933		2, 298	2, 491
Upholstery leather—finished:						
Wholehide grains and machine-buffed	Sq. ft	20, 871	17, 791	[2] 5, 596	5, 227	4, 036
Splits	do	13, 868	10, 193		1, 911	1, 171
Upper leather:						
Cattle, including kip sides	do	322, 567	362, 921	7, 089	64, 508	66, 458
Calf and whole kip, except kip sides	do	119, 905	123, 140	10, 330	35, 706	34, 482
Goat and kid	do	173, 350	141, 410	12, 419	39, 133	26, 515
Kangaroo and wallaby	do	5, 138	5, 529		1, 634	1, 419
Wax and finished splits	do	57, 756	39, 330	(3)	8, 537	3, 634
Other upper leather					4, 152	3, 820
Glove and garment leather:						
Cabretta	Sq. ft	(1)	8, 326	13, 994	1, 054	1, 792
Sheep and lamb, except shearlings	do	91, 996	99, 515	43, 271	10, 072	10, 317
Shearlings	do	22, 772	19, 050	(3)	4, 878	3, 048
Other glove and garment leather					6, 636	5, 857
Fancy and bookbinders leather					6, 880	5, 572
Lining leather:						
Sheep and lamb—shoe stock	Sq. ft	85, 202	60, 522	26, 716	9, 210	5, 812
Goat and kid	do	27, 114	44, 650	9, 624	4, 755	8, 136
Other lining leather	do	7, 969	12, 371	1, 664	1, 466	1, 985
Patent upper leather (cattle, including kip sides)—japanned	do	49, 874	29, 080	22, 206	9, 326	6, 078
Splits, other than wax and finished upper and upholstery	do	94, 899	112, 399	25, 787	10, 230	7, 968
Skivers	do	24, 865	22, 985	8, 386	2, 304	2, 259
Finishing or currying of tanned leather	do	(4)	19, 990	54, 559	(4)	3, 396
Leather, tanned, curried, or finished on a commission basis for leather manufacturers, dealers, and jobbers					(4)	13, 623
Other leather	Sq. ft		28, 414	34, 617	9, 355	5, 014
Rough leather:						
Belting butts—rough, for sale as such	Pound	10, 955	6, 109		5, 829	2, 707
Upholstery leather—russet, for sale as such	Sq. ft	27, 244	28, 205	(3)	2, 923	3, 053
Other rough leather					1, 612	666

[1] No comparable data.

[2] Figure for "Upholstery leather—finished" includes both rough and finished upholstery leather which cannot be shown separately without disclosing production of individual establishments.

[3] Figure cannot be shown without disclosing, exactly or approximately, the production of individual establishments.

[4] Not called for on schedule.

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

No. 874.—Chemicals—Production, by Kind: 1937 and 1939

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 materials for other establishments making chemicals. Tons are of 2,000 pounds, except as noted.

Product	Unit	Quantity (thousands of unit specified)		Value (thousands of dollars)	
		1937	1939	1937	1939
Total value				837,233	911,519
Acetates [1]				19,861	22,901
Butyl	Gallon	9,316	9,726	5,085	4,497
Ethyl	Pound	6,946	6,843	2,919	2,388
Acetone	do	84,369	91,919	2,845	2,941
Acids [1]				85,552	82,308
Boric	Pound	40,524	34,696	1,545	1,492
Hydrochloric (basis 100 percent)	Ton	71	77	3,988	3,949
Hydrofluoric (basis 100 percent)	Pound	4,396	4,346	701	665
Mixed (sulfuric-nitric)	Ton	54	57	2,485	2,697
Nitric (basis 100 percent)	do	35	35	3,053	3,185
Oleic	Pound	38,087	42,902	3,605	3,029
Oxalic	do	10,198	8,265	1,087	868
Phosphoric (basis 50 percent H_3PO_4)	Ton	39	77	1,786	3,035
Stearic	Pound	31,889	33,196	3,656	3,550
Sulfuric (basis 50° Baumé)	Ton	5,719	5,153	42,198	37,731
Tartaric	Pound	10,643	9,815	2,485	2,601
Alcohols:					
Butyl	do	79,934	66,904	5,867	4,708
Methyl, synthetic	Gallon	31,606	[2] 34,147	8,619	9,320
Ethyl and other alcohols [3]				35,820	26,558
Ammonia, anhydrous [4]	Pound	216,142	227,219	7,788	8,471
Ammonia, aqua and liquor (NH_3 content) [5]	do	26,001	31,305	1,383	1,438
Bicarbonates and carbonates [1]				43,089	42,290
Sodium bicarbonate, refined (basis 100 percent)	Ton	142	149	3,606	3,839
Calcium carbonate (precipitated chalk)	do	71	71	1,667	1,646
Magnesium carbonate, precipitated	do	7	6	788	647
Sal soda	do	33	30	769	756
Soda ash	do	2,324	2,146	33,769	32,862
Bromides				7,057	9,522
Calcium carbide	Ton	193	168	9,842	8,495
Carbon, activated	do	11	16	1,444	1,881
Carbon bisulfide	Pound	155,238	161,524	4,754	5,186
Carbon tetrachloride	do	78,709	84,861	3,068	3,323
Chlorides [1]				19,652	18,831
Aluminum (anhydrous, crystal, liquid) (basis 100 percent).	Ton	4	5	624	788
Ammonium (sal ammoniac)	Pound	39,590	45,523	1,821	2,051
Calcium (basis 73 to 80 percent) [6]	Ton	257	239	4,049	4,370
Mercury (mercuric and mercurous)	Pound	520	643	604	850
Methyl	do	3,389	3,255	1,043	995
Chlorine [7]	Ton	286	315	10,417	10,468
Chlorine bleaching compounds [1]				(8)	11,932
Bleaching powder (basis 35–37 percent available chlorine).	Ton	(9)	17	(8)	853
Sodium hypochlorite and other liquid sodium bleaches.				(8)	9,408
Chromates and bichromates [1 10]				6,340	6,819
Sodium	Ton	49	54	5,926	6,399
Citrates				948	922
Coal tar products				157,744	178,880
Crudes [11]				29,471	29,679
Intermediates				37,140	43,677
Finished products [12]				91,133	105,525
Cyanides				4,884	4,103
Ester gum	Pound	25,590	28,222	2,213	1,817
Ether (ethyl)	do	13,097	14,174	1,652	1,354
Ferro-alloys, electric furnace	Ton [13]	352	278	45,295	35,203
Nonferrous alloys, electric furnaces				(8)	612
Fluorides [14]				5,134	1,776
Hydroxides [1]				34,748	37,626
Potassium (caustic) (basis 100 percent KOH)	Ton	11	14	1,438	1,831
Sodium (caustic) (basis 76 percent Na_2O) [15]	do	897	950	32,028	34,541
Iodides [1]				794	1,242
Potassium	Pound	613	915	599	1,075
Modified sodas	Ton	26	32	1,051	1,265
Nitrates, except sodium [1 16]				8,835	8,928
Ammonium	Pound	45,560	51,935	1,131	1,341
Silver (lunar caustic)	Ounce	23,324	23,653	6,786	6,275
Oxides [1 17]				11,557	10,140
Chromium	Pound	2,875	2,870	603	665
Mercury	do	162	427	218	669
Tin	do	3,324	6,622	1,707	2,913
Peroxides [1]				4,790	4,387
Hydrogen (basis 100 volumes)	Pound	22,925	21,488	3,781	3,450

For footnotes, see p. 887.

No. 874.—Chemicals—Production, by Kind: 1937 and 1939—Continued

Product	Unit	Quantity (thousands of unit specified)		Value (thousands of dollars)	
		1937	1939	1937	1939
Phosphates [1]				16,118	20,105
Calcium: Monobasic	Ton	39	37	4,960	4,371
Dibasic and tribasic	do	4	7	395	664
Sodium:					
Monobasic and pyro	do	13	51	1,735	5,110
Dibasic (basis 100 percent Na_2HPO_4)	do	10	13	814	1,207
Tribasic	do	117	115	4,235	4,820
Plastic materials				61,878	77,980
Nitrocellulose (pyroxylin) sheets, rods, and tubes	Pound	14,851	11,208	12,526	8,496
Cellulose acetate:					
Sheets, rods, and tubes, not including finished articles	do	18,924	8,743	12,200	6,588
Molding composition	do	(9)	11,537	(9)	5,223
Coal-tar resins [18]	do	131,568	136,885	23,584	26,372
Derived from: Phenol and/or cresol	do	89,944	79,178	16,763	18,784
Phthalic anhydride	do	25,861	30,101	4,531	4,928
Other coal-tar resins	do	16,063	27,606	2,290	2,660
Other plastics and synthetic resins, including synthetic rubber.				13,568	31,301
Sodium antimonate	Pound	4,348	4,749	554	613
Sodium hyposulphite (thiosulphate)	Ton	33	26	1,412	1,142
Sodium silicate:					
Liquid (basis 40°)	do	601	657	6,787	7,351
Solid (including meta, ortho, and sesqui)	do	40	46	1,568	1,800
Stearates				1,773	1,407
Sulfates [1] [19]				25,079	22,920
Aluminum (concentrated alum)	Ton	393	416	8,959	8,455
Copper (blue vitriol)	do	78,892	68,162	3,883	2,774
Magnesium (Epsom salt)	do	41	48	1,217	1,409
Sodium				3,602	4,148
Anhydrous (refined) [20]	Ton	22	42	312	690
Glauber's salt [21]	do	32	34	491	540
Niter cake	do	23	34	522	607
Salt cake (crude) [22]	do	241	226	2,368	2,311
Zinc	Pound	37,530	29,078	1,143	711
Nickel	do	(9)	7,047	(9)	775
Sulfides [1]				2,344	2,297
Sodium (basis 60 to 62 percent)	Ton	27	31	1,530	1,634
Sulfites				3,924	5,242
Sulfur dioxides	Pound	28,717	26,971	1,477	1,297
Sulfur, refined [23]	Ton	76	96	2,333	3,436
Tartrates				1,302	1,113
Vitreous enamels (frit)	Pound	110,879	97,395	6,826	7,784
Other chemicals				150,817	191,033

1 Value includes data for items not shown separately.
2 In addition 2,959,000 gallons of refined natural methanol, valued at $797,000 were produced for sale in the "Hardwood distillation and charcoal manufacture" industry.
3 The production of ethyl alcohol as reported to the Bureau of Internal Revenue, Treasury Department, was 215,438,000 proof gallons in 1937 and 217,485,000 proof gallons in 1939.
4 Includes production from ammonia liquor. The primary production of ammonia was 493,000 tons (NH_3); this figure represents production by synthetic processes as reported in the Biennial Census of Manufactures and the production from byproduct coke ovens as reported to the Bureau of Mines, Department of Interior, and published by them.
5 Figures for 1937 but not for 1939 include data for ammonia produced in the manufacture of gas. For production in the "Coke-oven" industry, see Bureau of Mines report, Minerals Yearbook.
6 Does not include calcium chloride from establishments engaged primarily in the production of salt. Such production for 1937 amounted to 7,000 tons, and for 1939, 3,000 tons.
7 Not including chlorine produced in establishments classified in the pulp and paper industries; these establishments reported a production of 24,000 tons in 1939.
8 Included in value of "Other chemicals." 9 Data not available.
10 Does not include the production of chromates which are considered chrome dry colors.
11 Not including byproduct crudes made in coke plants and gas works.
12 Does not include data for color lakes, figures for which are given in the "Colors and pigments" industry. See also Tariff Commission Report No. 140, Second Series, entitled, "Synthetic Organic Chemicals, United States Production and Sales, 1939."
13 Tons are of 2,240 pounds. 14 Value for carbon fluorides included for 1937 but not for 1939.
15 Does not include sodium hydroxide produced in the pulp and paper industries.
16 Value of sodium nitrate included in value of "Other chemicals" to avoid disclosing data reported by individual establishments.
17 Does not include figures for abrasive or refractory aluminum oxide which is included in the "Abrasive wheels, stones, paper, cloth, and related products" industry, or of titanium dioxide or zinc oxide which are included in the "Colors and pigments" industry.
18 Includes data for an indeterminable amount of materials used as fillers, such as wood flour, etc. See last sentence of note 12.
19 Does not include barium sulfate (blanc fixé) which is included in the "Colors and pigments" industry, and sodium hyposulfite (thiosulfate), which is reported above. Value of satin white included for 1937 but not for 1939. 20 Includes data for sodium sulfate made from brine.
21 Includes data for "Glauber's salt" refined from the natural product.
22 Includes data for natural salt cake made from brine.
23 Includes sulfur which has been ground or further processed.

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

No. 875.—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 certain branches due to the use of such products as materials by other establishments in the same industry. Tons are of 2,000 pounds.

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1929	1937	1939	1929	1937	1939
Bone black, carbon black, etc.							
Total		431,485	551,487	562,735	22,401	19,579	14,927
Bone black	Pound	54,277	35,571	29,727	2,490	1,717	1,389
Carbon black (Bureau of Mines)	do	366,442	510,606	525,166	18,725	17,389	12,857
Lampblack	do	10,765	5,309	7,842	1,185	473	681
Compressed and liquefied gases—not made in petroleum refineries or in natural-gasoline plants							
Total value					52,533	59,872	58,385
Carbon dioxide (not including "dry ice").	Pound	136,930	100,716	105,683	6,932	4,940	4,684
Solidified carbon dioxide ("dry ice").[1]	do	(2)	313,217	356,894	(2)	4,619	5,532
Hydrogen	Cu. ft.	207,843	1,103,177	1,124,168	1,423	1,849	1,549
Hydrocarbon gases:							
Acetylene	do	969,534	1,511,445	1,291,205	16,554	19,166	16,607
Other hydrocarbon gases					2,447	814	944
Nitrous oxide	Gallon	109,812	97,768	95,577	1,196	1,114	859
Oxygen	Cu. ft.	3,140,095	4,441,391	4,561,968	23,410	26,073	24,015
Other gases					571	1,297	4,195
Fertilizers							
Total value					219,486	173,647	161,887
Complete fertilizers	Ton	5,992	5,681	5,088	168,838	128,750	117,666
Potash superphosphates	do	211	226	233	4,854	4,459	4,825
Superphosphates, not ammoniated (including concentrated superphosphates), for sale.	do	2,531	3,113	2,757	28,375	27,846	23,937
Other fertilizers	do	501	357	462	17,418	7,763	9,133
Tankage[3]	do	(2)	180	225	(2)	4,829	6,325
Paints, varnishes, and colors							
Total value					574,880	554,592	531,572
Paints					236,542	200,846	192,066
Water paints and calcimines, dry or paste.	Pound	155,811	150,876	151,215	7,093	7,622	8,003
Plastic paints	do	(2)	11,564	11,960	(2)	1,103	928
Paints in paste form	do	401,546	269,827	254,409	46,666	28,541	25,132
White lead in oil, pure	do	232,938	137,270	129,348	24,591	14,152	10,630
Combination or graded whites	do	61,763	60,139	65,467	5,661	5,266	5,835
Colors in oil	do	33,195	22,680	20,010	6,901	3,947	3,585
Other	do	73,650	49,737	39,584	9,513	5,175	5,082
Ready-mixed and semipaste paints.	Gallon	109,699	110,248	107,859	182,783	163,580	158,003
Paints in oil ready mixed	do	53,054	47,857	42,291	96,732	79,319	72,327
Undercoatings and primers	do	12,059	12,274	11,832	17,315	14,828	15,281
Wall paints and mill whites, flat or gloss.	do	19,401	26,337	27,604	31,947	38,166	39,433
Stains (not varnish stains)	do	3,534	3,878	4,219	4,541	4,153	4,568
Other	do	21,651	19,902	21,914	32,248	27,114	26,395
Varnishes, lacquers, enamels, and japans.					209,263	226,003	217,751
Varnishes	Gallon	54,699	61,431	58,380	71,889	64,730	64,672
Synthetic-oleoresinous, straight or modified (100 percent synthetic resin).	do		21,395	23,826		25,564	29,750
Other resinous except synthetic (100 percent natural resin).	do	38,843	15,911	14,113	47,740	16,698	14,046
Spirit, not turpentine	do	7,380	8,447	7,788	13,535	8,758	8,415
Other varnishes	do	8,476	15,677	12,658	10,613	13,712	12,461
Varnish stains	do	2,160	2,161	2,236	4,381	3,567	3,584
Nitrocellulose (pyroxylin) products.					82,336	72,273	64,317
Clear lacquers	Gallon	9,939	14,627	13,750	19,179	22,537	17,478
Pigmented lacquers	do	15,151	14,017	12,569	38,555	28,380	27,749
Thinners	do	17,871	24,146	22,410	19,151	15,631	14,225
Other					5,451	5,725	4,864
Enamels	Gallon	19,987	42,398	40,250	40,199	75,270	75,958
Oil, ester-gum, and natural-resin varnish base.	do	19,987	24,202	18,909	40,199	39,030	33,106
Synthetic-resin (oil, straight, or modified).	do		18,196	21,342		36,240	42,851

For footnotes, see p. 890.

No. 875.—Miscellaneous Products Made by Chemical Processes—Con.

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1929	1937	1939	1929	1937	1939
PAINTS, VARNISHES, AND COLORS—continued							
Varnishes, etc.—Continued.							
Japans	Gallon	9,227	6,789	4,724	7,538	5,454	3,832
Other					2,919	4,708	5,388
Fillers					2,637	1,965	1,655
Putty	Pound	99,163	93,291	103,232	4,253	3,771	3,811
Bleached shellac	do	11,140	14,639	16,289	5,431	2,664	3,165
Colors					116,753	119,343	113,123
RAYON AND ALLIED PRODUCTS							
Total value					149,546	251,942	246,004
Yarns	Pound	116,632	321,681	328,625	140,847	204,791	182,348
By process:							
Acetate	do	(2)	82,365	97,342	(2)	55,533	61,083
Viscose and cupra-ammonium	do	(2)	239,316	231,283	(2)	149,257	121,265
By denier:							
75 and finer (87 and less)	do	[4] 12,814	23,457	48,054	[4] 21,177	20,105	36,585
100 (88 to 112)	do		58,600	59,421		44,996	39,015
125 (113 to 137)	do	[4] 85,529	14,664	7,371	[4] 101,495	9,830	4,450
150 (138 to 162)	do		179,485	165,016		106,456	79,656
200 (163 to 249)	do	[4] 18,290	10,971	9,826	[4] 18,175	6,455	4,754
300 (250 to 375)	do		26,827	29,998		13,295	13,868
450 and coarser (375 and over)	do		7,676	8,940		3,653	4,021
Rayon staple fiber	do	(2)	20,244	51,314	8,700	6,177	13,519
Rayon waste	do	(2)	11,185	12,600		1,117	1,465
Allied products						39,857	48,671
SOAP AND GLYCERIN							
Total value					301,831	296,679	292,157
Bar soap:							
Toilet soap	Pound	324,384	369,611	409,116	59,983	62,805	66,209
Laundry soap	do	1,465,183	1,122,421	1,239,449	91,950	61,388	57,553
Granualted, powdered, and sprayed soap.	do	337,291	743,195	892,655	35,725	68,409	75,432
Soap chips and flakes	do	387,925	390,455	418,579	41,764	38,005	34,472
Washing powder	do	505,529	232,411	242,122	23,387	9,104	8,483
Cleansers and scouring powders containing soap.	do		178,346	186,150		7,172	7,744
Shaving soap [5]	do	11,094	14,631	13,546	10,704	9,730	8,551
Liquid soap, not including packaged shampoos.	do	35,263	29,870	42,782	3,407	2,435	3,629
Soapstock or soap base, for sale	do	4,106	4,522	4,350	292	347	286
Bar cleansers containing soap	do	(2)	5,447	4,954	19,365	411	303
Hand pastes or mechanics' pastes	do	(2)	16,931	17,914		1,062	935
Textile soap, including potash and foots soaps for textile manufacture.	do	(2)	60,708	62,489		5,358	4,955
Potash soap, other than textile and liquid.	do	(2)	25,072	30,987		2,157	1,980
Other soap						3,422	3,208
Glycerin:							
Crude [6]	Pound	28,790	24,181	29,266	2,358	3,593	2,323
Dynamite grade	do	113,140	43,586	64,294	12,716	7,823	6,595
Chemically pure	do		78,813	90,382		13,460	9,499
TANNING MATERIALS, NATURAL DYESTUFFS, MORDANTS, ASSISTANTS, AND SIZES							
Total value					33,111	40,718	45,251
Tanning materials					9,958	10,865	11,712
Extracts (solid and liquid):							
Oak [7]	Pound	7,827	12,608	10,341	295	346	231
Chestnut [7]	do	270,162	363,706	333,721	4,001	4,968	4,700
Sumac [7]	do	[8] 5,279	3,358	4,457	344	169	279
Other						2,316	2,690
Other tanning materials					5,318	3,065	3,812
Natural dyestuffs					2,426	1,408	1,728
Logwood (solid and liquid)	Pound	19,338	8,215	5,985	1,843	832	962
Other					583	576	766
Mordants, not including tannic acid.					670	194	179
Assistants					6,894	17,841	21,872
Sulphonated oils and fats	Pound	(2)	52,774	67,565	(2)	[9] 5,673	5,534
Softeners, soluble oils, and greases.	do	(2)	73,023	83,610	(2)	6,097	7,450
Other assistants					(2)	6,071	8,888
Sizes					13,164	10,410	9,760
Gum, other than rosin	Pound	20,138	8,982	12,682	1,401	656	801
Dextrin	do	33,507	26,944	30,011	2,043	1,599	2,004
Other [10]	do	243,650	197,542	210,763	9,721	8,155	6,955

For footnotes, see p. 890.

No. 875.—Miscellaneous Products Made by Chemical Processes—Con.

Product	Value (thousands of dollars) 1929	1937	1939
DRUGS AND MEDICINES			
Total value	[11] 358, 628	344, 179	363, 446
Drugs and medicines sold to or prescribed by physicians	(2)	142, 336	179, 289
Alkaloids and derivatives, made for sale	8, 030	8, 620	8, 971
Biological products	16, 850	16, 770	21, 774
For human use	7, 117	9, 477	9, 433
For animal use	9, 733	7, 293	12, 341
Other drugs and medicines		116, 946	148, 543
U. S. P. and N. F.[12]		38, 436	51, 568
Special formulas		70, 587	94, 184
Undistributed		7, 923	2, 701
Drugs and medicines in specially prepared packages, advertised for sale to the general public	333, 748	184, 309	168, 291
U. S. P. and N. F.[12]		25, 701	25, 475
Special formulas		156, 888	139, 772
Undistributed		1, 720	3, 043
Medical products not classified above		1, 187	----------
Poultry and animal remedies (except biological products)		8, 630	8, 978
Drug grinding	(2)	7, 717	6, 889
INSECTICIDES, FUNGICIDES, AND RELATED INDUSTRIAL AND HOUSEHOLD CHEMICAL COMPOUNDS			
Total value	[13] 80, 539	106, 063	113, 757
Disinfectants and insecticides	43, 520	43, 394	45, 673
Agricultural insecticides and fungicides	17, 772	19, 713	20, 098
Calcium arsenate	1, 860	1, 879	1, 912
Lead arsenate	3, 523	5, 541	5, 422
Other	12, 389	12, 293	12, 764
Household insecticides and repellants	15, 077	17, 367	18, 114
Fly sprays	9, 323	7, 339	7, 837
Insect powder (pyrethrum)	2, 447	2, 022	1, 223
Moth repellants	800	2, 588	2, 152
Other	2, 508	5, 418	6, 902
Disinfectants	7, 332	6, 314	7, 461
Disinfectants and insecticides not reported by kind	3, 345	----------	----------
Deodorants other than for human use	1, 762	1, 037	1, 273
Boiler compounds	5, 084	4, 319	3, 863
Insulating compounds		1, 983	1, 955
Household tints and dyes		3, 275	2, 713
Metal and oil treating compounds	[13] 30, 167	5, 332	8, 487
Waterproofing compounds		1, 235	1, 841
Water treating compounds other than boiler treating compounds		(2)	4, 846
Other industrial and household chemical compounds		45, 488	43, 106
PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS			
Total value	201, 689	140, 548	157, 392
Perfumes and toilet waters	27, 462	12, 595	16, 365
Creams other than shaving cream	33, 347	17, 597	19, 389
Lipsticks and rouges	12, 309	6, 938	8, 343
Dentifrices	32, 464	33, 083	30, 341
Shampoos	5, 797	5, 539	5, 771
Face powders	24, 038	11, 287	15, 398
Talcum powders	8, 344	6, 041	7, 327
Other toilet powders	2, 340	3, 112	3, 424
Shaving cream containing no soap[14]		1, 854	4, 187
Deodorants for human use		3, 503	5, 631
Hair dyes, tonics, and dressings	55, 589	13, 238	13, 566
Face lotions[15]		7, 831	7, 636
Manicure preparations		5, 160	4, 652
Other toilet preparations		12, 770	15, 362

[1] Includes data for carbon dioxide piped to plants for making "dry ice." Quantities thus piped in 1937 (estimated) and 1939 were 17,000,000 pounds and 15,000,000 pounds, respectively. [2] No data.

[3] Does not include production in the "Meat packing, wholesale" industry.

[4] Because of the different breakdown of yarn by sizes obtained in 1937 and 1939, the 1929 figures are not exactly comparable. The grouping of yarns by sizes in 1929 was as follows: Finer than 125 denier, 125 to 150 denier, and heavier than 150 denier.

[5] Includes shaving cream with soap base. Shaving cream containing no soap is classified as a product of the "Perfumes, cosmetics, and other toilet preparations" industry, above.

[6] Basis 80 percent. The total production of crude glycerin as reported to the Division of Cotton and Oils, Bureau of the Census, for 1939 was 184,476,000 pounds. Most of this was further refined and sold or used as glycerin, dynamite grade, or glycerin, chemically pure.

[7] Pounds for 1937 and 1939, basis 25 percent tannin; for 1929 not reported according to strength.

[8] No solid sumac extract reported. [9] Includes $1,286,000 for which no pounds were reported.

[10] Includes value of rosin sizes. [11] Not including "drug grinding."

[12] United States Pharmacopoeia and National Formulary. [13] Not including "foundry supplies."

[14] Shaving cream with soap base is classified as a product of the "Soap and glycerin" industry. The total production of shaving cream, with and without soap, in 1937 and 1939, was valued at $9,629,000 and $10,344,000, respectively.

[15] Includes data for considerable amount of hand lotions.

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

No. 876.—Printing and Publishing—Receipts and Circulation: 1929 to 1939

	Value (thousands of dollars)		
	1929	1937	1939
Aggregate value and receipts [1]	**2, 676, 262**	**2, 173, 062**	**2, 149, 603**
Newspapers and periodicals, printed and published or published only	1, 580, 565	1, 269, 524	1, 254, 715
Newspapers	1, 073, 119	861, 689	845, 687
Subscriptions and sales	275, 781	287, 508	306, 192
Advertising	797, 338	574, 180	539, 495
Periodicals	507, 445	407, 835	409, 027
Subscriptions and sales	184, 545	171, 961	184, 572
Advertising	322, 900	235, 874	224, 455
Books [1]	243, 867	230, 739	239, 987
Printed and published or published only	185, 870	159, 868	149, 380
Printed for publication by others [1 2]	57, 998	70, 871	90, 607
Pamphlets, printed and published or published only	13, 145	8, 389	15, 000
Maps, atlases and globe covers [1]	(3)	8, 283	8, 262
Printed and published or published only	(3)	6, 495	4, 964
Made for others [1]	(3)	1, 788	3, 298
Greeting cards [1]	(4)	32, 637	44, 286
Printed and published or published only	(3)	(3)	28, 314
Printed for others [1]	(3)	(3)	15, 972
Souvenir cards	(4)	(5)	1, 412
Newspapers and periodicals printed for others [1]	71, 521	81, 772	87, 852
Labels, tags, and seals [6]	7, 384	51, 874	53, 085
Other commercial printing	759, 781	437, 399	442, 819
Manifolding done in printing establishments	(3)	2, 446	2, 186

	Aggregate circulation per issue (average for the year)					
	1929	1931	1933	1935	1937	1939
Newspapers:						
Daily:						
Morning	15, 741, 769	15, 480, 287	14, 781, 657	15, 983, 996	17, 311, 078	17, 152, 298
Evening	26, 273, 692	25, 813, 372	22, 848, 688	24, 886, 550	26, 033, 858	25, 813, 827
Sunday	29, 011, 648	27, 453, 465	25, 453, 394	29, 196, 006	32, 713, 298	33, 006, 875
Triweekly	287, 152	184, 380	140, 497	120, 601	231, 365	219, 121
Semiweekly	1, 580, 221	1, 352, 720	1, 025, 567	1, 723, 630	1, 719, 820	1, 989, 744
Weekly	18, 883, 551	16, 173, 234	12, 048, 317	15, 185, 366	17, 286, 731	18, 294, 604
Periodicals:						
Daily	932, 363	830, 992	793, 936	681, 697	790, 722	1, 979, 417
Triweekly	24, 625	31, 314	25, 206	22, 327	32, 978	27, 152
Semiweekly	1, 401, 903	1, 284, 406	1, 810, 522	2, 129, 010	2, 556, 002	2, 994, 810
Weekly	34, 494, 799	30, 781, 548	39, 365, 192	42, 648, 210	56, 115, 124	55, 825, 296
Semimonthly	9, 168, 458	6, 375, 456	4, 592, 507	5, 507, 919	7, 547, 644	8, 135, 260
Monthly	133, 048, 488	122, 670, 528	103, 192, 794	102, 193, 740	124, 520, 846	134, 766, 467
Quarterly	20, 605, 002	19, 575, 617	23, 237, 557	23, 277, 089	25, 808, 324	26, 238, 181
Other classes	2, 345, 897	1, 977, 550	1, 741, 779	2, 160, 680	6, 903, 152	9, 725, 925

[1] The inclusion of "Books and pamphlets printed for publication by others," "Maps, atlases and globe covers made for others," "Greeting cards printed for others," "Newspapers and periodicals printed for publication by others," etc. results in duplication in the aggregate value and receipts, as follows: 1937, $158,466,000; 1939, $201,627,000. (No separate data available for greeting cards for 1937.) These amounts represent receipts by commercial printers for work done by them for other printers or for publishers, and consequently enter twice into the aggregate value and receipts.

[2] Includes "Pamphlets printed for publication by others."

[3] No data.

[4] Included with "Other commercial printing."

[5] Included with "Greeting cards."

[6] In addition, labels, tags, and seals were produced by methods other than letterpress, as follows: 1937, $25,693,000; 1939, $29,944,000. 1929 figures are not available.

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

No. 877.—Rubber Products—Production, by Kind: 1929, 1937, and 1939

	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1929	1937	1939	1929	1937	1939
Total value					**1,111,631**	**878,626**	**895,656**
Tires and inner tubes					676,910	478,771	503,448
Pneumatic tires and casings:							
Motor vehicle, except motorcycle and bicycle	Number	69,765	53,404	57,771	573,527	410,398	430,040
Other (incl. motorcycle and bicycle)	do	77,780	5,766	7,221	84,210	6,950	14,285
Inner tubes:							
Passenger car, truck, and bus	do		52,373	51,251		55,739	52,954
Other	do		3,590	5,088		1,759	2,985
Solid cushion:							
Truck, bus, tractor, and trailer	do		255	218	[1] 19,173	2,424	1,964
Other	Pound		13,567	10,819		1,501	1,220
Rubber boots and shoes					111,360	58,269	43,112
Canvas rubber-soled shoes	Pair	43,954	31,519	28,177	30,335	18,042	15,048
Rubber boots	do	5,454	3,884	2,919	16,141	7,625	5,082
Lumbermen's and pacs	do	1,817	1,357	1,124	4,172	2,808	1,988
Arctics and gaiters	do	19,245	20,125	15,899	31,722	18,347	13,049
Other shoes, rubbers, and footholds	do	30,295	20,116	14,727	28,989	11,448	7,944
Rubber products, not elsewhere classified					[2] 323,361	321,848	332,135
Heels	Pair	292,719	295,081	265,666	17,927	16,285	14,494
Soles, incl. composition or fiber	do	46,189	72,476	146,557	8,960	10,750	15,114
Rubberized fabrics:							
Raincoat	Sq. yard	25,576	21,374	12,217	9,682	4,873	2,126
Other	do	67,391			20,072	16,758	19,528
Belts and belting	Pound	45,024	58,706	[3] 54,683	25,776	32,060	28,459
Hose and tubing	do		158,187		40,932	40,410	40,777
Insulation products					([4])	20,655	16,347
Druggists' and stationers' sundries					15,828	15,963	17,846
Hard-rubber goods, n. e. c.					17,937	16,711	19,229
All other manufactures of rubber					166,246	147,382	158,214
Reclaimed rubber	Pound		399,629	340,187		19,738	16,962

[1] Includes data for a small quantity of casings and tubes other than those for motor vehicles, motorcycles, and bicycles.
[2] Includes data for reclaimed rubber.
[3] Quantity not reported for belts and belting valued at $628,000.
[4] Data incomplete; included in "all other manufactures of rubber."

No. 878.—Engines, Turbines, Water Wheels, and Locomotives—Value, by Kind: 1931 to 1939

[In thousands of dollars]

Class	1931	1933	1935	1937	1939
Total	**94,890**	**42,922**	**103,039**	**208,206**	**176,496**
Steam engines, turbines, water wheels, and parts	21,783	8,926	14,443	23,952	25,664
Steam engines (reciprocating)	1,775	300	1,197	1,738	1,155
Steam turbines—marine	4,339	1,505	9,798	3,354	8,369
Steam turbines—other	8,427	5,670		12,861	7,070
Water wheels and water turbines	6,889	483	3,263	2,967	6,016
Not reported by class	352	967	186	1,088	146
Parts and attachments	([1])	([1])	([1])	1,944	2,909
Internal combustion engines and parts [2]	60,034	31,057	65,984	119,091	107,420
Injection engines: [2]					
Marine (Diesel)	11,854	1,828	5,137	12,148	13,756
Other		2,912	11,676	28,286	31,772
Not reported by class		414	192	833	
Carburetor engines: [2]					
Marine	7,880	2,198	4,622	7,770	12,393
Industrial	10,341	3,010	10,701	17,471	10,808
Other		6,395	13,004	20,512	16,577
Mixing valve engines			905	4,824	4,751
Not reported by class					761
Parts and attachments	[3] 20,959	[3] 14,300	[3] 19,749	27,248	16,604
Engines and turbines not reported by class		191	876		
Locomotives, steam, electric, and internal combustion	[4] 13,073	2,748	21,735	65,163	43,411

[1] Included with parts and attachments for internal combustion engines.
[2] Not including engines made for installation in ships, boats, and tractors built by the same establishment. Data for motor-vehicle engines are included in "Motor vehicles, motor-vehicle bodies, parts and accessories" industry and data for aircraft engines in "Aircraft and parts including aircraft engines" industry.
[3] Includes parts and attachments for steam engines, aircraft and motor-vehicle engines and windmills.
[4] Not including value of electric locomotives.

Source of tables 877 and 878: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 879.—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 "Industrial machinery, not elsewhere classified," "Motor vehicles, motor-vehicle bodies, parts and accessories," "Agricultural machinery (except tractors)," 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 880 to 883, 885, and 886.

Class	1929	1933	1935	1937	1939
Agricultural machinery	167,678	17,109	68,916	114,340	96,207
Aircraft (begun and completed within year)	52,157	15,860	17,454	38,664	75,873
Bakers' machinery and equipment	21,730	7,332	11,869	18,120	17,583
Blowers and fans	25,243	6,955	15,830	26,282	[1] 24,561
Bottlers' machinery, except for dairies	11,082	9,157	8,264	21,135	11,959
Canning machinery	8,535	3,139	8,271	11,840	4,103
Cash registers, adding, calculating, and card-tabulating machines, and typewriters	151,583	46,577	[2] 83,217	118,552	95,712
Cement and concrete machinery (not including cement-making, etc.)	4,132	224	1,809	4,053	1,739
Cement-making machinery	4,387	545	1,646	2,065	3,035
Clay-working machinery (brick, pottery, etc.)	4,402	591	1,071	2,727	2,059
Coin operated commodity or vending machines	8,821	5,472	5,980	8,978	6,154
Commercial laundry, dry-cleaning, and pressing machinery	[3] 36,110	[3] 7,993	[3] 14,241	21,969	20,727
Confectionery and ice-cream machinery	3,674	2,667	5,052	7,217	6,985
Construction and similar machinery	[4] 160,683	25,858	61,708	133,869	115,298
Cotton-ginning machinery	11,760	2,165	4,892	11,300	5,115
Dairy machinery	16,593	8,327	14,864	18,462	15,467
Electrical machinery (generators, motors, and fans, including parts)	285,974	73,405	151,501	[1] 296,690	219,909
Elevators, escalators, and conveyors:					
Automobile lifts	(5)	1,869	4,013	3,786	4,254
Conveying and elevating machinery	48,537	11,413	22,045	33,911	29,773
Elevators, escalators, and dumb-waiters	44,044	8,322	9,110	21,235	16,989
Engines (steam or internal-combustion), turbines, and water wheels [6]	129,175	25,874	61,555	113,851	113,572
Flour-mill and grain-mill machinery	8,286	2,354	5,167	6,916	6,087
Foundry machinery	10,639	1,957	5,585	9,156	6,804
Glass-making machinery	3,688	1,895	3,543	4,729	4,459
Lawn mowers	10,953	3,467	4,987	8,427	9,691
Leather-working machinery, other than shoe	1,249	747	1,005	1,220	1,265
Locomotives	82,909	2,748	21,735	65,163	43,411
Machine tools	147,316	16,457	64,515	162,046	166,649
Metalworking machinery	92,358	23,151	80,346	131,664	107,709
Mining machinery (not including well drilling or dredging)	[7] 40,325	8,107	21,195	29,124	[8] 34,380
Motorcycles, side cars, bicycles, and parts	21,198	(5)	22,807	39,827	38,917
Motor vehicles and chassis	3,412,056	928,650	2,152,986	2,848,786	2,275,254
Oil-field machinery, tools, and equipment	(5)	(5)	(5)	[9] 120,988	81,862
Oil-mill machinery, cottonseed and other	2,533	2,110	2,790	4,677	2,931
Oil-refinery machinery	30,210	4,807	7,931	14,816	16,360
Packing-house machinery	6,663	2,756	5,317	7,029	6,023
Paper-mill and pulp-mill machinery	30,456	8,696	14,829	33,177	21,516
Printers' machinery	64,860	13,598	30,377	46,582	31,749
Pumps, pumping equipment, and air compressors:					
Measuring and dispensing pumps	132,747	10,343	18,092	38,893	31,767
Pumps and pumping equipment		25,322	46,118	82,982	79,230
Air compressors	39,683	7,214	15,891	28,328	21,232
Refrigerators, mechanical	167,149	90,694	152,513	243,865	193,977
Refrigerating and ice-making machinery		4,115	6,570	9,534	6,541
Rubber-working machinery	13,552	3,347	4,883	12,271	13,685
Scales and balances	25,385	6,805	12,191	17,169	13,544
Sewing machines	37,378	10,274	18,250	24,593	20,304
Shoe machinery	12,317	8,130	10,245	10,903	10,603
Stokers, mechanical	14,054	5,629	11,537	22,176	20,275
Sugar-mill machinery	5,046	794	1,260	4,344	2,935
Textile machinery and parts	115,525	57,892	64,899	[1] 100,696	85,601
Tobacco-manufacturers' machinery	5,018	1,106	1,693	3,679	3,337
Vacuum cleaners (electric)	35,108	14,411	24,191	36,029	44,160
Washing machines, clothes wringers, driers, and ironing machines for domestic use	79,011	42,422	59,513	73,201	[10] 66,282
Well-drilling machinery (excluding oil-well)	(5)	(5)	(5)	3,334	1,519
Windmills	4,063	1,400	1,833	2,613	1,929
Woodworking machinery	35,151	6,100	12,542	23,118	23,413

[1] Not strictly comparable with figures for earlier years.
[2] Includes postal meters.
[3] Excludes dry-cleaning machinery.
[4] Not including mining dredges.
[5] No comparable data.
[6] Not including motor-vehicle or aircraft engines.
[7] Includes dredging.
[8] Includes mine conveying and elevating machinery.
[9] Not strictly comparable with figures for 1939.
[10] Includes parts and attachments.

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

No. 880.—Electrical Machinery Group—Value, by Classes: 1933 to 1939

[In thousands of dollars]

PRODUCT	1933	1935	1937	1939
Electrical machinery, total	648,671	1,124,848	1,935,844	1,754,068
Wiring devices and supplies	38,948	63,559	109,529	109,140
Wiring devices	17,796	24,583	32,003	34,788
Wiring supplies	4,702	12,345	23,667	25,099
Insulators and insulating materials	(1)	(1)	[2] 6,344	[2] 3,924
Conduits and fittings	14,692	23,095	39,443	38,497
Lightning arresters and choke coils	1,592	2,871	5,983	5,412
Relays (excluding industrial motor-control and telephone)	166	664	2,088	1,421
Carbon products for the electrical industry, and manufactures of carbon or artificial graphite	3,997	12,470	20,432	18,585
Brushes and plates, rods, and powder for making brushes	2,282	4,150	6,511	5,330
Electrodes	6,715	8,320	13,921	10,102
Other carbon and graphite products				3,153
Electrical measuring instruments	9,162	22,822	39,026	37,145
Measuring instruments and meters	9,162	22,822	36,879	32,689
Analyzers for testing the electrical and other equipment of internal-combustion engines and radio apparatus	(1)	(1)	2,147	4,456
Generating, distribution, and industrial apparatus, and apparatus for incorporation in manufactured products, not elsewhere classified	120,961	241,564	492,735	404,583
Generating apparatus and parts, except railway and vehicle power generators	[3] 14,129	[3] 40,976	60,952	46,850
Transformers, current-limiting reactors, and feeder-voltage regulators (except measuring-instrument transformers)	[4] 13,094	28,881	83,613	65,064
Rotating converting apparatus	2,201	5,862	10,928	4,816
Motors, except railway and vehicle motors (not including starters and controllers)	45,606	72,668	153,295	123,050
Fractional-horsepower	[5] 23,746	32,365	71,723	55,037
Number ... *thousands*	*9,818*	*7,019*	*20,666*	*11,256*
1 hp. and over	17,197	34,562	67,400	52,049
Direct-current	3,622	8,489	15,629	11,675
Alternating-current	[5] 13,574	26,073	51,771	40,375
Number ... *thousands*	*172*	*294*	*621*	*457*
Other motors and parts and supplies	[6] 4,663	[7] 5,740	14,172	15,964
Control apparatus (except railway and vehicle controllers, all types)	15,165	28,230	47,388	46,040
Fuses and fuse blocks (except high-voltage and power types, 2,300 volts and over)	4,825	5,013	7,117	6,879
Industrial and commercial apparatus and appliances	9,698	23,747	40,697	34,901
Switchboard apparatus (circuit breakers, panelboards, switchboards, and switches)	16,243	36,188	88,743	76,083
Panelboards and distribution boards	(1)	7,896	16,692	14,451
Knife, power, and other switches	(1)	5,382	13,649	15,447
Circuit breakers, including attachments and parts	(1)	8,019	22,452	17,199
Power switchboards and parts	(1)	9,008	21,221	18,133
Power switching equipment, power connectors, and distribution cut-outs and fuse links for 2,300 to 15,000 volts, a. c. service	(1)	5,884	14,730	11,752
Electrical appliances	39,770	80,891	130,783	124,327
Fans (direct motor-driven)	2,437	6,695	15,565	8,286
Domestic cooking and heating equipment and other household appliances	36,707	72,457	112,151	112,248
Water heaters (for permanent installation)	432	3,530	5,605	3,453
Cooking and heating appliances	14,735	31,589	54,615	48,443
Mixers, whippers, and juicers	(1)	9,737	7,372	6,546
Number ... *thousands*	(1)	(1)	*1,033*	*1,086*
Vacuum cleaners	14,411	24,191	36,029	44,160
Number ... *thousands*	*555*	*1,112*	*1,515*	*1,445*
Other	7,129	3,410	8,530	9,646
Commercial cooking apparatus and other commercial or domestic appliances	625	1,739	3,067	3,792
Insulated wire and cable	65,637	122,226	245,342	204,430
Rubber insulated	25,789	46,242	90,432	67,435
Cotton insulated, including weatherproof and slow-burning	7,248	12,344	22,680	20,856
Asbestos-insulated		3,041	6,530	4,476
Paper-insulated	6,032	8,129	33,420	20,783
Varnished-cambric insulated	1,979	4,121	9,140	5,796
Magnet	10,141	16,899	29,805	25,431
Armored cable or conductor	4,411	6,845	8,917	12,985
Ignition-cable sets or wire assemblies for internal-combustion engines	(1)	(1)	13,389	7,714
Other	10,039	24,606	31,028	38,952

For footnotes, see next page.

No. 880.—Electrical Machinery Group—Value, by Classes: 1933 to 1939—Continued

[In thousands of dollars]

PRODUCT	1933	1935	1937	1939
Automotive electrical equipment	32,464	65,828	114,149	106,634
Automotive generators for battery charging (not including automotive starter-motors)	(8)	(8)	22,359	14,949
Automotive starter-motors, railway motors and control equipment, motors, generators, and control equipment for gasoline-electric and oil-electric buses, trucks, and locomotives, and for storage battery trucks	[9] 9,032	[10] 25,300	33,590	21,958
Ignition apparatus for internal-combustion engines	23,432	40,528	58,201	69,727
Electric lamps	49,849	64,774	77,891	79,304
Incandescent-filament lamps	[11] 49,849	62,703	74,304	73,119
Other lamps		2,072	3,588	6,185
Radios, radio tubes, and phonographs	119,235	206,633	288,620	284,476
Radio sets, complete (cabinet, chassis, speaker, and tubes)	71,961	134,674	170,736	161,391
For home and general use (except radio-phonograph combinations and audio-television)	56,240	104,816	131,526	111,848
Covering standard broadcast band	50,096	19,793	33,194	48,418
Number ... *thousands*	*2,781*	*1,437*	*2,280*	*5,361*
Socket-power-operated	48,164	14,908	29,529	35,436
Number ... *thousands*	*2,689*	*1,260*	*2,045*	*4,209*
Battery-operated (excluding batteries)	1,932	4,885	3,665	12,982
Number ... *thousands*	*93*	*187*	*235*	*1,153*
Extending beyond standard broadcast band	5,071	85,023	98,332	63,429
Number ... *thousands*	*116*	*2,961*	*3,563*	*2,895*
Socket-power-operated	(1)	77,994	91,472	60,324
Number ... *thousands*	(1)	*2,701*	*3,290*	*2,683*
Battery-operated (excluding batteries)	(1)	7,028	6,860	3,105
Number ... *thousands*	(1)	*260*	*273*	*212*
Not reported by kind	1,078			
Radio-phonograph combinations	1,408	2,461	4,567	17,193
Number ... *thousands*	*30*	*23*	*58*	*475*
Automobile sets, including all accessory equipment	13,598	25,556	38,679	27,716
Number ... *thousands*	*700*	*1,222*	*1,891*	*1,587*
All other receiving sets	715	1,841	1,963	4,634
Radio tubes (made for own use or for sale)	27,027	31,562	42,797	35,575
Radio receiving tubes for use as initial equipment	9,345	16,021	23,769	22,935
Number ... *thousands*	*23,417*	*41,462*	*70,746*	*78,194*
Radio receiving tubes for renewal and replacement	15,870	12,954	15,482	10,012
Number ... *thousands*	*36,442*	*36,769*	*41,472*	*31,527*
Radio transmitting tubes	1,812	2,587	3,547	2,629
Number ... *thousands*	(1)	(1)	(1)	*450*
Transmitters (including all associated equipment except tubes)	1,303	5,770	8,876	7,333
Phonographs and accessories	2,073	6,081	15,493	[12] 48,917
Other	15,910	28,545	44,718	31,260
Communication equipment	27,612	87,613	193,611	166,867
Radio apparatus	(13)	31,882	55,685	52,583
Signaling apparatus, electric (other than railway)	6,432	12,146	22,043	19,789
Telephone and telegraph apparatus (not including wireless)	21,180	43,584	115,883	94,496
Batteries, storage and primary (dry and wet)	67,444	85,718	102,877	111,217
Storage batteries	52,129	65,901	78,250	81,122
Dry batteries (cells)	[14] 12,929	15,307	20,080	25,900
Wet primary batteries and parts and supplies for dry batteries and wet primary batteries	2,386	4,510	3,947	4,195
X-ray and therapeutic apparatus and electronic tubes	4,681	12,020	20,397	21,431
Electrotherapeutic and electromedical apparatus	4,389	4,080	6,534	6,326
X-ray apparatus (exclusive of X-ray tubes)		4,563	9,765	10,506
Nonradio electronic tubes and X-ray tubes	[15] 293	2,777	4,098	4,600
Electrical products not elsewhere classified	63,910	58,732	100,451	85,928

[1] No data.
[2] Includes porcelain and trolley-line insulators for 1937 and earlier years; for 1939, data are included in "Porcelain electrical supplies" industry, see table 854, p. 842.
[3] Includes automotive generators for battery charging; for 1937 and 1939, data are included in "Automotive electrical equipment" industry.
[4] Includes radio transformers; for 1935, 1937, and 1939, data are included in radio apparatus in "Communication equipment" industry.
[5] Includes motors which in later years are included in other motors and parts and supplies.
[6] Includes motors not reported by kind. See note 5 also.
[7] Other motors only; parts and supplies included with automotive starter motors in "Automotive electrical equipment" industry.
[8] See note 3. [9] Automotive starter motors only.
[10] Automotive starter motors and parts and supplies for other motors, see note 7.
[11] Includes X-ray tubes; for later years data are included in nonradio electronic tubes and X-ray tubes in "X-ray and therapeutic apparatus and electronic tubes" industry.
[12] Includes phonographs for electrical reproduction of records, included in prior years in "Other."
[13] No data for radio parts. See note 4 also.
[14] Includes parts and supplies. [15] See note 11.

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

No. 881.—Farm Equipment—Production, by Class and Kind: 1938, 1939, and 1940

Class	Number 1938	Number 1939	Number 1940	Value (thousands of dollars) 1938	Value 1939	Value 1940
All products, total value				490,013	474,229	561,698
Plows and listers				26,818	20,305	29,239
Moldboard plows	313,416	240,625	329,397	12,644	8,719	13,245
Disk plows	22,549	16,407	27,326	3,446	2,541	3,670
Other [1]				10,728	9,046	12,324
Harrows, rollers, pulverizers, and stalk cutters				13,303	11,723	15,357
Disk harrows	103,421	84,545	108,287	7,595	6,447	7,865
Spike-tooth and spring-tooth harrow sections	313,274	193,329	291,998	2,671	1,702	2,474
Soil pulverizers and packers	15,878	10,166	12,631	835	590	784
Other [1]				2,201	2,985	4,235
Planting and fertilizing machinery				20,246	14,367	19,471
Corn planters	61,117	46,012	48,959	3,111	2,143	2,333
Combination corn and cotton planters	57,051	33,982	45,413	1,625	793	1,093
Grain drills	41,242	23,384	34,710	5,926	2,889	4,460
Manure spreaders	27,344	33,363	46,075	2,967	4,158	5,631
Other [1]				6,618	4,383	5,955
Cultivators and weeders				16,871	12,290	18,613
Horse-drawn cultivators	158,958	102,320	122,732	2,610	1,308	1,708
Tractor-drawn cultivators	90,760	65,547	104,345	7,947	5,832	8,129
Field cultivators	11,488	6,004	8,138	1,237	656	835
Garden cultivators, hand	271,951	205,078	207,765	447	368	376
Other [1]				4,630	4,127	5,565
Harvesting machinery				71,522	49,020	41,217
Combines (harvester-threshers)	48,046	41,537	46,552	35,628	25,473	22,387
Corn binders (row-binders)	12,765	5,535	9,990	2,256	974	1,818
Corn pickers	16,722	16,044	11,638	6,902	6,484	4,993
Other [1]				26,737	16,089	12,018
Haying machinery				14,604	14,256	20,308
Mowers	70,225	73,112	98,993	5,026	5,188	7,025
Rakes, sulky, side delivery, and sweep	59,429	43,566	62,272	3,038	2,502	3,696
Loaders	17,481	15,350	20,226	1,580	1,532	2,079
Other [1]				4,960	5,035	7,508
Machines for preparing crops for market or use				22,572	19,622	21,817
Grain threshers	8,649	2,781	2,054	7,438	2,605	1,852
Ensilage and feed cutters	13,209	10,491	11,768	2,714	1,991	2,248
Corn shellers	50,337	57,897	52,099	915	1,073	1,330
Corn huskers and shredders	1,576	1,722	2,300	638	730	855
Hay presses	3,595	4,540	5,947	1,455	1,223	1,603
Feed grinders and crushers	53,235	75,692	82,277	3,106	4,668	6,374
Other [1]				6,307	7,332	7,555
Tractors				196,218	208,576	256,742
Wheel type	172,437	185,558	249,434	116,882	110,857	136,762
Track-laying type	16,837	20,127	24,762	33,772	45,305	59,535
Garden tractors	9,949	9,777	9,350	1,345	1,416	1,273
Attachments and parts				44,220	45,999	59,173
Engines, internal-combustion (except automotive and marine)				15,411	18,738	18,853
Engines	186,447	244,848	214,091	13,351	15,755	15,215
Attachments and parts				2,060	2,983	3,638
Farm wagons and trucks				4,394	5,230	6,921
Farm wagons, without boxes	22,389	30,720	28,583	1,372	1,765	1,726
Farm trucks (not motor trucks)	21,746	21,416	26,953	851	623	940
Farm trailers	2,885	4,551	13,670	246	452	1,509
Other [1]				1,925	2,389	2,747
Miscellaneous equipment				88,054	105,101	115,180
Milking machines	18,787	22,798	34,102	1,239	1,418	2,185
Cream separators	71,632	53,229	118,618	2,921	1,759	4,008
Spraying outfits (power)	6,122	8,188	5,066	1,546	2,040	1,316
Elevators, farm (portable)	4,066	5,103	5,836	1,411	1,045	1,218
Water systems, pneumatic	176,184	241,664	268,912	8,151	11,755	17,193
Pumps, water	384,651	534,688	468,958	2,016	2,224	2,447
Windmill heads and towers				2,576	2,732	2,373
Barn and barnyard equipment				4,206	5,268	5,704
Poultry-farm equipment				5,248	7,437	6,517
Beekeepers' supplies				1,165	1,284	985
Cribs				589	3,652	2,126
Grain bins	6,525	34,605	28,845	670	4,302	3,481
Forks, hoes, and rakes				5,845	6,054	5,552
Shovels, spades, and scoops				5,824	6,073	5,876
Lawn mowers	1,128,373	1,250,958	1,534,602	9,103	9,691	10,808
Lighting plants, electric, residence, etc.	[2] 21,349	96,755	68,097	[2] 3,143	5,006	5,581
Silos	7,560	6,775	8,847	3,180	2,818	3,738
Wheelbarrows	345,593	378,796	348,927	1,505	1,563	1,650
Other [1]				27,707	28,979	32,403

[1] Including attachments and parts.
[2] Not strictly comparable with later years.

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

No. 882.—Machine Tools—Production, by Kind: 1937 and 1939

Product	Number		Value (thousands of dollars)	
	1937	1939	1937	1939
Machine tools and replacement and repair parts, total value			169,683	181,613
Boring machines	927	1,128	6,715	8,902
Boring mills (vertical-work revolving, including vertical turret lathes)	529	365	4,345	5,265
Broaching machines	594	470	2,237	2,296
Cutting-off machines			1,723	1,121
Drilling machines	(1)	17,000	17,256	12,373
Filing machines	673	305	118	56
Gear-cutting machines	1,855	1,420	10,860	9,449
Gear-chamfering machines	(1)	139	(1)	462
Gear-tooth grinding, shaving, or burnishing machines	(1)	171	(1)	1,331
Grinding machines			28,177	30,273
Keyseaters (except broaching)	(1)	402	(1)	81
Honing machines	147	357	692	1,359
Lapping machines		218		515
Lathes:				
Bench (plain and screw-cutting)	14,663	15,191	1,911	2,288
Engine	7,261	6,557	12,709	13,564
Automatic single-spindle (horizontal or vertical)	(1)	1,896	10,079	8,474
Automatic multiple-spindle (horizontal or vertical)	1,398	981	13,637	10,135
Turret	3,138	2,660	13,532	12,951
Polishing and buffing (bench and pedestal)	(1)	(1)	3,246	268
Other, including hand or speed	(1)	(1)		2,428
Milling machines	5,061	[2] 5,334	19,586	23,136
Planers	136	161	1,556	4,484
Shapers	893	1,163	1,982	1,892
Threading machines	(1)	(1)	4,179	3,536
Other machine tools			7,505	10,009
Replacements, and repair parts for machine tools for sale as such			7,637	10,173
Rebuilt machine tools reported separately				4,792

[1] Data incomplete or no comparable data.
[2] Excludes number for hand-feed milling machines for which a value of $129,000 was reported.

No. 883.—Metalworking Machinery and Equipment—Production, by Kind: 1937 and 1939

Product	Value (thousands of dollars)		Product	Value (thousands of dollars)	
	1937	1939		1937	1939
Total value	141,777	117,365	Punching machines (not portable)	135	75
Bending machines	1,476	2,014	Riveting machines (not portable)	883	795
Die-casting machines	531	537	Rolling-mill machinery and equipment	52,139	34,605
Forging machines (hammers, presses, etc.)	3,931	5,117	Rod and wire forming and fabricating machines	2,091	1,609
Portable tools:			Shears	2,846	2,103
Drills	9,754	9,945	Sheet-metal working machinery	19,033	13,541
Grinders	2,377	2,270	Spring winding and forming machines	(1)	415
Hammers	1,303	1,355	Wire drawing machines	1,654	1,231
Flexible-shaft machines	548	867	Other metal-working machinery	7,104	8,556
Other	2,060	1,255	Welding and cutting apparatus, acetylene	5,868	3,899
Cylinder reboring and finishing machines, valve and valve-seat grinders, and similar garage equipment	2,897	1,778	Replacements and repair parts	10,113	9,656
Presses, other than forging	15,036	15,741			

[1] Not called for on schedule.

Source of tables 882 and 883: Department of Commerce, Bureau of the Census, reports of Biennial Census of Manufactures.

No. 884.—Machine-Tool and Other Metalworking Machinery Accessories, Metal-Cutting and Shaping Tools, and Machinists' Precision Tools—Production, by Kind: 1929, 1937, and 1939

Product	Value (thousands of dollars)		
	1929	1937	1939
Total value	183,139	175,945	169,870
Attachments and fixtures	98,144	94,997	104,403
General equipment:			
Chucks	4,398	4,566	4,104
Vises (machine)	182	234	227
Attachments for machine tools:			
Boring, milling, and drilling machine	1,103	1,384	2,656
Lathe (engine)		728	586
Other machine-tool		1,051	1,612
Special equipment:			
Die-casting dies, jigs, fixtures, drop-forging dies, forming and stamping punches, dies, subpresses, etc., and especially designed tools	73,454	70,472	83,418
Other special equipment	4,056	6,151	7,584
Model and experimental work	[1] 5,067	4,737	949
Other attachments and fixtures	[2] 9,884	5,674	3,268
Small cutting tools and tool holders	(3)	67,248	53,628
Broaches	(4)	(4)	2,731
Arbors, collars, and collets or sockets, etc. (lathe, milling-machine, and drill)	710	995	1,505
Counterbores	1,117	1,058	770
Drills, carbon	4,096	2,986	2,484
Drills, high-speed	9,911	12,202	9,972
Gear cutters, other than hobbing	(4)	2,318	2,351
Hobbing cutters	2,079	2,970	3,126
Lathe, planer, and shaper tools	[5] 1,141	1,484	2,992
Milling cutters (all types), end mills, slotting cutters, etc. (solid and those with inserted-teeth)	10,705	11,050	7,995
Reamers (solid, expansion, and inserted-blade):			
Carbon	3,114	1,176	857
High-speed	5,043	3,886	2,836
Threading tools:			
Taps and dies (not pipe-threading):			
Taps	6,596	7,827	5,584
Dies	2,700	1,955	1,362
Chasers	3,251	2,539	2,470
Pipe-threading:			
Taps	300	719	356
Dies	1,347	1,365	1,222
Chasers	(4)	1,296	586
Pipe stocks complete with dies	2,339	1,825	1,541
All other cutting tools, tool holders, mandrels, etc.	30,547	9,595	2,889
Precision measuring tools (micrometer and vernier)		1,581	2,322
Gages (plug, ring, snap, thread, etc.)		3,003	2,144
Other measuring tools		2,229	1,113
Miscellaneous equipment and accessories not called for above		6,887	6,260

[1] Reported as "Special machinery (other than machine tools) and model and experimental work" for 1929.
[2] Includes $4,629,000 reported as "Special equipment not reported separately."
[3] Data incomplete; figures for "All other cutting tools, tool holders, mandrels, etc.," and for items not reported separately are included in the last figures in this table.
[4] No data.
[5] Not including tungsten-carbide tipped.

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

No. 885.—Refrigerators, Refrigeration Machinery, and Air-Conditioning Units—Production: 1937 and 1939

Product	Number		Value (thousands of dollar)	
	1937	1939	1937	1939
Total value			375,406	290,714
Mechanical refrigerators and refrigerating machines, compression type (electric): [1]				
Domestic (household), self-contained:				
Capacity under 6 cu. ft	1,093,026	677,058	84,458	48,805
6 cu. ft. or more but under 10 cu. ft	991,022	1,088,458	95,086	91,962
10 cu. ft. or more	12,102	7,575	2,396	2,004
Not reported by size			734	
Commercial, self-contained:				
Beverage coolers (for bottled beverages)	63,653	42,202	5,446	4,355
Ice-cream cabinets:				
Number reported	47,628	48,650	8,377	7,428
Number not reported			100	5
Water coolers:				
Number reported	53,922	22,570	4,230	2,070
Number not reported			323	31
Other commercial refrigerators and display cases			2,498	7,763
Systems, high sides, low sides, etc. (commercial and domestic):				
Systems complete without cabinets:				
Number reported	279,645	205,491	11,686	8,060
Number not reported				864
High sides and low sides made for sale separately			12,451	8,887
Compressors made for sale separately:				
Number reported	198,510	197,770	9,540	7,030
Number not reported				186
Evaporators or condensers made for sale separately:				
Number reported	866,973	979,956	3,145	2,617
Number not reported			1,355	911
Room coolers (not air-conditioning):				
Number reported	13,310	10,975	1,099	565
Number not reported			40	433
Refrigerating and ice-making machines (commercial and industrial): [2]				
Less than 10 horsepower (10 tons for 1937):				
Number reported	10,195	6,218	4,890	2,763
Number not reported			560	203
More than 10 horsepower (10 tons for 1937):				
Number reported [3]	1,784	1,803	3,891	3,507
Number not reported			193	69
Compressors and evaporators made for sale separately		50,996	2,005	2,497
Air-conditioning equipment:				
Systems for installation in room or rooms to be conditioned			(4)	7,614
Central-station systems, including refrigerating or cooling mechanism (excluding installation), for human comfort		1,785	(4)	3,713
Condensing units (high sides) for air-conditioning	7,555	4,360	5,817	2,636
Evaporators for air-conditioning:				
Number reported	17,740	7,997	1,130	1,602
Number not reported				261
Cabinets, display cases, etc., for mechanical refrigerators, made for sale separately:				
Domestic (household), all sizes:				
Number reported	520,097	348,133	17,163	10,263
Number not reported				174
Commercial:				
Refrigerator cabinets:				
Number reported	45,469	20,369	5,737	4,230
Number not reported			1,781	839
Display, storage, etc., cases:				
Number reported	26,953	24,851	13,418	10,218
Number not reported			2,905	307
Remote fountain or water coolers with low sides and other			3,115	1,100
Cabinets, etc., not reported by kind or size				1,057
Refrigerators (ice) and ice boxes:				
Domestic (household):				
Number reported	394,550	226,342	9,920	4,730
Number not reported			61	811
Commercial ice refrigerators, water coolers, milk coolers, food display cases, etc			5,354	5,133
All other, including absorption type refrigerators, air-conditioning equipment for industrial use, and parts for all refrigeration machinery			[4] 53,602	33,012

[1] Reported as less than 1 ton of refrigeration for 1937 and as using motors rated at 1 horsepower or less for 1939.

[2] Reported as 1 ton or more of refrigeration for 1937 and as using motors rated at 1 horsepower or more for 1939.

[3] Includes 33 machines rated at 100 tons or over for 1937 and 51 machines using motors rated at 100 horsepower or over for 1939.

[4] "Air-conditioning equipment" included with figures for "All other, including absorption-type refrigerators, air-conditioning equipment for industrial use, and parts for all refrigeration machinery."

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

No. 886.—Motor Vehicles, Motor-Vehicle Bodies, Parts and Accessories, and Aircraft and Parts Including Aircraft Engines—Production, 1935, 1937, and 1939

Product	Number			Value (thousands of dollars)		
	1935	1937	1939	1935	1937	1939
Motor vehicles, motor-vehicle bodies, parts and accessories						
Total				3,678,603	4,983,011	3,776,404
Motor vehicles and chassis	3,923,052	4,732,553	3,524,831	2,152,986	2,848,786	2,275,254
Passenger cars including taxicabs	[1] 3,211,734	3,849,576	2,824,203	[1] 1,752,138	2,297,771	[2] 1,799,503
Commercial-type vehicles, n. e. c.	[1] 515,836	614,576	440,762	[1] 307,738	410,056	303,687
Ambulances, hearses, and undertakers' wagons	1,934	3,071	2,840	4,359	7,361	6,428
Fire-department apparatus	538	985	955	2,811	5,868	5,696
Passenger chassis	40,596	36,423	21,227	13,453	12,704	6,807
Commercial chassis, incl. bus chassis	152,414	227,922	234,844	72,487	115,025	153,134
Trailers for motortrucks and truck tractors				[3] 18,118	17,577	28,584
Number reported	[3] 19,046	21,747	26,179	[3] 14,202	17,366	28,034
Number not reported				[3] 3,916	211	550
Motortruck trailers (supported entirely on own wheels)	(4)	2,789	1,514	(4)	2,638	1,695
Semitrailers (partly supported by truck tractors):						
Number reported	(4)	18,958	23,707	(4)	14,729	25,786
Number not reported				(4)	130	65
Other, including motortruck trailers and semitrailers not reported as to kind or number				(4)	81	1,038
Motor-vehicle bodies and motor-vehicle parts				1,507,499	2,116,647	1,472,566
Aircraft and parts including aircraft engines						
Total				[6] 53,492	146,837	279,956
Aircraft both begun and completed within the year [5]				17,454	38,664	75,873
Military aircraft	1,365	3,100	(4)	17,454	38,664	62,374
Civil aircraft			3,770			13,499
Value of work done during year on aircraft under construction [7]				14,009	33,776	66,678
Aircraft engines and engine parts					38,575	74,282
Engines	2,866	6,214	11,172	12,610	28,577	(8)
Engine parts				(4)	9,998	(8)
Propellers, propeller blades and parts, pontoons, and parachutes				9,359	9,129	14,514
Aircraft parts n. e. c.					19,951	37,223
Experimental work				(4)	6,742	11,386

[1] Taxicabs included with "Commercial-type vehicles, n. e. c."

[2] Includes $38,796,000 factory-installed extra equipment for 1939. The amount of such equipment included for earlier years is not available.

[3] May include some passenger trailers which are included in "Automobile trailers (for attachment to passenger cars)" industry for 1937 and 1939.

[4] No data.

[5] The values of aircraft do not include the cost of engines, propellers, and power-plant accessories installed therein.

[6] Not strictly comparable with later years as no data are included for "Engine parts" and "Experimental work."

[7] The term "aircraft under construction" includes all aircraft (1) begun prior to the census year and completed 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.

[8] Data withheld to avoid disclosing, exactly or approximately, the output of individual establishments.

No. 887.—Bicycles—Production: 1899 to 1939

Year	Number	Value	Year	Number	Value
1899	1,182,691	$23,656,487	1927	255,456	$5,803,440
1904	250,487	3,740,923	1929	307,845	6,183,773
1909	233,707	3,228,189	1931	260,029	4,733,254
1914	398,899	5,361,230	1933	[3] 320,000	[1] 5,402,000
1919	479,163	[1] 12,498,000	1935	656,828	12,059,867
1921	[2] 216,464	[2] 6,218,394	1937	1,130,736	22,223,431
1923	486,177	10,726,900	1939	1,252,886	22,466,550
1925	303,446	7,030,566			

[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 886 and 887: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 888.—Cotton Spindles, Cotton Consumption, and Stocks

Note.—The statistics for 1915 to 1941 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): Total in place	Active: United States	Active: Cotton-growing States	Active: New England	Active: Other States	Spindles using cotton with other fibers (thousands)	Active cotton spindle hours (thousands)	Cotton consumed, excluding linters[1] (thousands of bales): 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)	3,998	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
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	74,902	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
1940	24,750	23,586	17,641	5,279	666	103	97,006	7,784	6,647	918	219
1941	24,335	23,389	17,653	5,088	649	101	111,775	9,722	8,289	1,147	285

Yearly average or year	Consumption (thousands of bales): Cotton, excluding linters: Total	Domestic: Total	Domestic: Upland	Domestic: Sea Island	Domestic: American-Egyptian	Foreign	Linters	Stocks in consuming establishments at end of year (thousands of bales): Cotton, excluding linters[4]: Total	Domestic	Foreign	Linters
1906-1910	[5] 4,829	[5] 4,680	[5] 4,616	[5] 64	-------	149	[6] 163	[5] 731	[5] 673	58	[6] 39
1911-1915	5,257	5,051	[7] 4,976	75	(7)	206	293	822	738	84	86
1916-1920	6,388	6,105	[7] 6,034	71	(7)	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	1,160	1,050	100	186
1931-1935	5,466	5,325	5,311	1	14	140	720	1,116	1,061	55	261
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	(8)	13	302	805	1,183	1,048	135	239
1931	5,263	5,084	5,068	(8)	15	179	714	996	922	74	254
1932	4,866	4,744	4,732	(8)	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	(8)	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	(8)	21	131	734	897	855	42	181
1937	7,950	7,768	7,747	(8)	20	182	819	1,286	1,218	67	236
1938	5,748	5,616	5,608	2	6	132	715	10,908	10,821	87	268
1939	6,858	6,736	6,714	3	19	122	851	12,483	12,406	76	291
1940	7,784	7,655	7,631	3	21	128	1,061	10,094	9,999	95	400
1941	9,722	9,576	9,545	3	27	146	1,359	11,581	11,441	140	469

[1] Includes linters for 1840 to 1908. Figures for all years include foreign and domestic cotton.
[2] Not available. [3] Cotton mills only. [5] Includes linters for 1906 to 1908. [6] Average, 1909 and 1910.
[4] Includes stocks held in public storage and at compresses beginning 1938.
[7] "Upland" includes "American-Egyptian" beginning 1912 (first year produced). [8] Less than 500 bales.

Source: Dept. of Commerce, Bur. of the Census; annual report, Cotton Production and Distribution.

No. 889.—Cotton Spindle Activity, 1939, 1940, 1941, and Cotton Consumption, 1936 to 1941, 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)				
	1938–39	1939–40	1940–41	1938–39	1939–40	1940–41	1936–1940, average	1937–38	1938–39	1939–40	1940–41
United States	25,261	24,750	24,335	87,696	97,006	111,775	6,938	5,748	6,858	7,784	9,722
Cotton-growing States	18,319	18,136	17,990	69,231	76,751	88,517	5,860	4,881	5,810	6,647	8,289
New England	6,143	5,884	5,633	16,726	18,241	21,009	878	708	859	918	1,147
Other States	799	730	712	1,739	2,014	2,249	201	160	189	219	285
Alabama	1,811	1,800	1,801	6,507	7,635	9,115	746	588	727	868	1,127
Connecticut	520	518	526	1,301	1,552	1,726	61	46	54	67	85
Georgia	3,234	3,210	3,148	12,416	13,554	15,760	1,356	1,080	1,348	1,565	1,918
Maine	689	685	656	2,246	2,363	2,781	141	120	147	150	186
Massachusetts	3,434	3,331	3,164	8,700	9,776	11,453	440	329	410	471	610
New Hampshire	429	307	281	1,291	1,150	1,270	124	118	130	111	127
New York	347	331	326	781	934	1,082	89	66	84	95	110
North Carolina	5,866	5,840	5,784	20,507	23,491	27,220	1,795	1,478	1,789	2,040	2,413
Rhode Island	973	945	907	2,906	3,179	3,581	103	87	108	111	136
South Carolina	5,619	5,519	5,475	23,244	25,279	28,568	1,374	1,196	1,372	1,536	1,818
Tennessee	560	555	553	2,382	[1]2,614	2,900	172	152	173	191	252
Texas	239	237	243	912	960	1,150	120	119	125	145	(1)
Virginia	639	640	641	2,185	2,142	2,651	153	146	139	149	196
All other States	911	833	829	2,318	2,376	2,509	204	222	251	284	745

[1] Included in "All other States."

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

No. 890.—Explosives—Amounts (Excluding Exports) Manufactured and Sold, Continental United States and Alaska: 1916 to 1940

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					
1916	505,415	34,685	255,155	215,575		1939	386,438	49,950	278,250	58,237
1917	582,475	43,041	262,316	277,119		Coal mining	124,232	49,401	23,663	51,169
1918	499,125	46,045	206,416	246,663		Metal mining	88,280	18	88,061	201
1919	417,634	38,855	198,269	180,511		Quarrying and nonmetallic mineral mining	56,522	387	53,732	2,402
1920	537,955	53,963	229,112	254,880		Railway and other construction work	103,565	101	99,707	3,758
1921	372,108	41,134	170,952	160,021		All other purposes	13,839	44	13,087	707
1922	431,772	43,430	209,476	178,866		1940	423,369	58,436	305,180	59,753
1923	529,728	60,371	207,405	201,951		Coal mining	137,801	57,821	26,686	53,294
1924	495,533	55,134	273,323	167,076		Metal mining	106,269	29	106,000	240
1925	501,752	58,353	286,435	[1]156,964	(1)	Quarrying and nonmetallic mineral mining	62,891	453	59,634	2,803
1926	535,890	67,685	310,518	[1]157,687	(1)	Railway and other construction work	104,682	75	102,059	2,548
1927	499,011	63,847	303,468	[1]131,696	(1)	All other purposes	11,726	59	10,799	868
1928	475,251	60,708	292,785	98,004	23,754					
1929	509,708	62,669	326,993	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	308,881	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					
1939	386,438	49,950	278,250	28,322	29,915					
1940	423,369	58,436	305,180	29,084	30,670					

[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. 891.—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 96,489,934 cigars in 1940. 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	167,460	13,524	12,525	192,700	26,845	6,883,272	1,059,501	16,113	6,192,571
1911–1915	437,346	158,529	15,017	10,795	221,865	31,140	7,087,530	1,053,654	15,695	14,802,416
1916–1920	456,584	159,869	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
1936–1940	344,331	54,402	6,029	4,703	241,561	37,636	5,184,661	164,652	2,956	174,117,549
1934	345,566	62,760	5,080	2,970	237,862	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	158,893,958
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
1939	343,307	51,263	5,733	4,701	243,640	37,970	5,197,627	156,940	4,369	180,666,824
1940	344,423	48,759	5,605	4,176	248,011	37,872	5,235,271	134,738	2,249	189,371,258

State	Number of factories Jan. 1, 1941, making—			Production in 1940 (calendar year)				
	Tobacco and snuff [2]	Cigars	Cigarettes	Tobacco and snuff (1,000 pounds)	Cigars (thousands)		Cigarettes (thousands)	
					Large	Small	Large	Small
Total	574	3,254	66	344,423	5,235,271	134,738	2,249	189,371,258
California	23	114	6	298	67,462	18		3,169,936
Connecticut	7	109		24	30,338			
Florida	4	146	2	1	902,854	4,407		579
Illinois	74	384		10,874	29,952			440
Indiana	23	51		126	109,567			
Kentucky	22	21	3	45,781	3,788		320	12,719,235
Louisiana		10			76,810			
Massachusetts	23	196	4	279	53,627		6	3,041
Michigan	21	89	2	8,033	98,055			70
Minnesota	13	49		40	3,227			
Missouri	12	62	1	41,029	24,129			16,944
New Hampshire	1	27			54,909			
New Jersey	13	118	3	7,626	743,255	1,617	3	9,549,745
New York	122	769	23	1,834	231,209	2,418	1,391	927,024
North Carolina	10	7	7	127,350	35,841	5,151	441	92,315,788
Ohio	46	157		31,400	243,438	10		
Pennsylvania	69	469	5	7,679	1,933,255	85	88	5,934,543
South Carolina	1	4		8	198,911	9,144		
Tennessee	12	9		19,213	9,049			
Virginia	8	12	9	32,106	244,434	111,888		64,733,901
West Virginia	5	24		8,259	81,516			
All other	65	427	1	2,463	54,645			12

[1] Includes scrap chewing tobacco.
[2] Factories producing a taxable product, excluding 236 "quasi" manufactures.

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

No. 892.—Tobacco Consumption in the United States: 1934 to 1940

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 893.

Item	1934	1935	1936	1937	1938	1939	1940
Leaf tobacco consumed in manufacture:							
In registered factories	775,530	775,932	847,367	872,924	865,302	885,299	922,716
In bond	943	1,027	1,165	1,118	1,631	1,743	1,818
Manufactured tobacco imported:							
From Puerto Rico	903	853	682	475	42	38	33
Other countries [1]	3,353	4,456	3,209	4,378	3,381	3,910	3,900
Exports of manufactured tobacco [2]	16,526	18,646	21,543	24,971	27,715	29,020	20,362
Remaining for consumption	764,204	763,622	830,970	853,924	842,641	861,970	899,104
Per capita consumption—pounds	6.05	6.00	6.49	6.63	6.49	6.59	6.81

[1] Imports for consumption.
[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. 893.—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 892).

Calender year or yearly average	Total	Cigars	Cigarettes	Tobacco and snuff	Calender year	Total	Cigars	Cigarettes	Tobacco and snuff
1896-1900	359,053	87,851	16,235	254,967	1929	796,626	152,129	346,543	297,953
1901-1905	451,461	124,411	12,444	314,606	1930	779,806	137,901	347,915	293,990
1906-1910	524,193	139,206	22,079	362,908	1931	752,404	127,628	329,962	294,813
1911-1915	578,283	151,890	52,207	374,186	1932	690,134	104,288	299,029	286,817
1916-1920	650,460	155,312	130,320	364,828	1933	710,668	104,699	326,093	279,876
1921-1925	672,077	151,421	198,069	322,588	1934	775,530	111,123	375,383	289,024
1926-1930	762,540	149,240	312,533	300,767	1935	775,932	113,742	399,458	262,731
1931-1935	740,934	112,296	345,985	282,652	1936	847,367	126,578	453,327	267,462
1936-1940	878,722	124,700	492,296	261,726	1937	872,924	128,653	479,961	264,309
1926	737,354	152,372	267,584	317,399	1938	865,302	118,751	483,840	262,711
1927	744,288	152,510	290,464	301,314	1939	885,299	122,681	509,133	253,485
1928	754,625	151,290	310,159	293,176	1940	922,716	126,835	535,218	260,663

No. 894.—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	----------
1926	167,498	166,951	548	3,638	62	40	(8)	5,119
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	110
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	231,959	6,684	43,401	53,871	63
1940	387,183	368,756	18,427	212,368	9,635	47,657	54,892	51
1941	473,941	448,568	25,373	286,371	18,211	54,129	55,144	59
Withdrawals, tax-paid: [6]								
1938	114,926	113,220	[11] 1,706	61,176	7,223	----------	53,926	[12] 60
1939	114,578	112,888	[11] 1,690	67,376	6,338	----------	51,817	[12] 62
1940	128,326	126,749	1,577	82,177	8,377	----------	53,014	[12] 49
1941	130,557	128,404	2,153	88,592	14,464	----------	52,289	[12] 52
Imports for consumption:								
1939	[13] 10,824	[13] 10,123	[13] 700	3,157	[14] 514	324	----------	----------
1940	[13] 12,039	[13] 11,156	[13] 883	3,898	[14] 644	370	----------	----------
1941	[13] 11,036	[13] 10,532	[13] 504	1,943	[14] 258	181	----------	----------

[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 Alaska, Hawaii, and Puerto Rico.
[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] In thousands of wine gallons.

Source of tables 893 and 894: 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. Beginning May 1941, the work of compiling foreign trade statistics was transferred to Bureau of Census.

No. 895.—Denatured Alcohol:[1] 1910 to 1941

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	3,076,925	3,002,103	6,079,027
1915		23	25,411,719	5,386,647	8,599,822	13,986,469
1920	18,933,551	52	45,640,949	13,528,403	15,307,947	28,836,350
1925	166,165,518	91	152,254,039	46,983,970	34,824,303	81,808,273
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
1940	243,727,756	40	225,160,792	15,352,033	111,409,797	126,761,830
1941	298,845,415	43	276,766,361	17,676,170	135,542,718	153,218,888

[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. 896.—Ethyl Alcohol and Other Distilled Spirits, Except Brandy—Materials Used in Production, by Kinds: 1902 to 1941

Year ended June 30—	Molasses (thousand gallons)	Grain (thousand bushels): Corn	Malt	Rye	Other [1]	Ethyl sulphate (Thousand gallons)	Pineapple juice (Thousand gallons)	Other materials [2]: Thousand gallons	Thousand pounds
1902	12,485	18,474	3,361	5,535	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	25,723	23,475	4,440	6,251	46				
1908	28,945	17,384	2,975	3,756	32				
1909	33,550	18,081	3,221	4,364	22				
1910	42,293	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			56,795	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	6,550	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
1940	198,929	18,911	3,330	5,614	42	45,786	3,256	13,801	12,644
1941	225,349	23,347	4,126	6,679	45	53,400	1,831	2,365	18,563

[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. 897.—Motion-Picture Production—Summary: 1921 to 1939

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 theaters. 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: Salaried officers and employees	Persons engaged: Wage earners (average for year)	Salaries and wages: Salaries	Salaries and wages: Wages	Cost of contract work	Cost of studio supplies, fuel, etc.[1]	Cost of production
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] 14,839		[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	119,348
1935	129	12,675	14,917	79,743	24,686	5,145	29,541	161,865
1937	83	13,060	19,338	102,393	37,158	7,013	35,575	197,741
1939	178	9,635	24,052	93,341	45,736	3,645	43,052	215,700
States, 1939								
California	93	8,690	21,573	89,885	41,096	2,024	31,118	186,849
Los Angeles	65	4,554	9,597	43,680	19,701	832	20,464	95,320
Remainder of State	28	4,136	11,976	46,205	21,396	1,192	10,654	91,529
Illinois	9	53	72	162	97	2	225	530
Michigan	5	125	138	336	334	35	680	1,765
Missouri	5	20	11	43	9	1	32	172
New York	43	577	1,268	2,478	2,397	1,532	6,541	18,060
Other States	23	170	990	437	1,803	51	4,455	8,325

Products, by kind and cost, and receipts for work done

	1933	1935	1937	1939		1933	1935	1937	1939
Total cost of work done	**119,343**	**161,865**	**197,741**	**215,700**	Unfinished productions, cost	14,581	15,684	33,075	38,301
Negative films, cost	82,280	118,673	131,755	148,632	Laboratory work: Positive films, cost	7,625	6,046	8,218	6,416
Theatrical: Number	1,059	1,094	3,942	(4)	Receipts for work done for others	11,835	15,089	15,318	18,594
Cost	[5] 77,536	[5] 110,975	[5] 126,039	142,602	Value of other work done	1,520	1,818	3,468	2,337
Advertising, cost	[5] 4,576	[5] 4,940	[5] 4,540	1,703	Receipts for use of studio facilities	1,502	4,554	5,907	1,420
Industrial, cost	-------	(6)	--------	2,175					
Educational, cost	168	324	[7] 1,176	726					
Other films, cost	-------	[6] 2,434		1,426					

[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] Data incomplete.
[5] "News reels" included with "advertising."
[6] Figure for "industrial" included in that for "other films."
[7] Combined to avoid disclosing approximations of data for individual establishments.

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

No. 898.—Alaska—Manufactures, by Industries: 1899 to 1939

Note.—The figures for 1939 do not include data for plants reporting products valued at less than $2,000; those for earlier years cover all plants having products valued at $500 or more. This increase in the minimum value-of-products limit resulted in some reduction in the "Number of establishments" reported as compared with what it would have been had the minimum of $500 been retained, but did not seriously impair the comparableness of the figures for 1939 with those for earlier years. Comparable figures for earlier years are given for all industries for which such figures are available.

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy	Value of products	Value added by manufacture [1]
				Dollars	*Dollars*	*Dollars*	*Dollars*
All industries, total	[2] 1939	230	4,816	6,883,988	20,916,757	38,815,436	17,898,679
	1919	147	6,575	8,839,452	19,482,485	41,495,243	22,012,758
	1909	152	3,099	1,948,026	5,119,613	11,340,105	6,220,492
	1899	48	2,260	1,374,680	1,762,583	4,194,421	2,431,838
Boat building and repairing	1939	7	34	23,950	59,800	149,739	89,939
	1909	6	8	2,440	3,139	10,330	7,191
Bread and other bakery products.	1939	24	51	67,497	233,216	408,464	175,248
	1909	8	24	41,900	71,099	141,110	70,011
Fish canning and processing (See also tables 782, 783, and 784, pp. 797–8.).	1939	140	4,308	6,288,175	19,990,289	36,367,663	16,377,374
	1919	104	6,085	8,136,659	18,535,578	39,160,922	20,625,344
	1909	46	2,717	1,457,587	4,053,094	9,189,982	5,136,888
	1899	36	2,092	[3] 1,248,000	[3] 1,588,000	[3] 3,821,000	[3] 2,233,000
Ice, manufactured	1939	4	12	18,566	10,080	77,776	67,696
Lumber and timber products.	1939	21	250	287,376	309,416	900,111	590,695
	1919	22	222	327,292	311,439	950,256	638,817
	1909	22	131	108,201	168,504	400,272	231,768
	1899	10	78	[3] 56,000	[3] 67,000	[3] 155,000	[3] 88,000
Machine shops	1939	7	10	20,250	44,951	112,702	67,751
Printing and publishing	1939	15	109	129,701	81,916	415,877	333,961
	1909	16	64	100,403	36,392	228,192	191,800
All other industries	1939	[4] 12	40	48,473	187,089	383,104	196,015
	1919	21	268	375,501	635,468	1,384,065	748,597
	1909	54	155	237,495	787,385	1,370,219	582,834
	1899	2	90	[3] 76,000	[3] 108,000	[3] 218,000	[3] 110,000

[1] Value of products less cost of materials, etc., fuel, and purchased electric energy.
[2] Figures for 1939 cover the 12-month period ended Sept. 30, 1939.
[3] Exact figures not available.
[4] Beverages, nonalcoholic, 1 establishment; concrete products, 2; confectionery, 1; ice cream, 2; liquors, malt, 2; sheet-metal work, 2; wire netting, 2. Figures for these industries are combined to avoid disclosing data reported by individual establishments.

Source: Department of Commerce, Bureau of the Census; Reports of Census of Manufactures, 1939.

No. 899.—Hawaii—Manufactures, by Industries: 1899 to 1939

Note.—See headnote, table 898.

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture [1]
				Dollars	*Dollars*	*Dollars*	*Dollars*
All industries, total	1939	474	17,002	11,458,311	75,651,675	134,005,264	58,353,589
	[2] 1919	496	9,969	6,636,763	81,178,956	133,096,412	51,917,456
	[2] 1909	500	5,904	2,108,903	25,817,734	47,403,880	21,586,146
	[2] 1899	222	3,655	1,473,000	12,251,000	23,354,000	11,103,000
Food and kindred products: [3]							
Bread and other bakery products.	1939	76	534	413,558	1,625,458	2,949,064	1,323,606
	1919	30	195	87,958	826,838	1,129,294	302,456
	1909	46	107	35,560	219,575	343,520	123,945
	1899	8	4	1,000	5,000	10,000	5,000
Beverages, alcoholic (distilled liquors, malt liquors, sake, and wines)	1939	[5] 9	254	249,569	705,194	2,118,907	1,413,713
Beverages, nonalcoholic [4]	1939	27	121	97,355	356,302	816,235	459,933
	1919	32	157	88,534	251,763	518,569	266,806
	1909	22	83	35,391	74,312	194,273	119,961
	1899	7	35	11,000	25,000	89,000	64,000

For footnotes, see p. 909.

No. 899.—HAWAII—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939—Continued

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture [1]
Food and kindred products—Continued.				*Dollars*	*Dollars*	*Dollars*	*Dollars*
Cane sugar [6]	1939	35	4,371	2,894,420	30,482,432	49,250,987	18,768,555
	1919	43	3,143	2,027,128	45,899,268	80,236,244	34,336,976
	1909	46	2,517	781,280	18,721,621	35,949,822	17,228,201
	1899	44	2,369	748,000	9,778,000	19,255,000	9,477,000
Coffee deparchmentizing	1939	9	39	10,555	401,422	464,321	62,899
	1919	10	39	20,516	875,463	1,050,752	175,289
	1909	5	71	12,100	250,705	297,263	46,558
	1899	6	47	9,000	60,000	95,000	35,000
Confectionery	1939	9	25	17,891	56,176	98,354	42,178
	[7] 1919	20	102	51,279	393,147	587,330	194,183
	1909	6	21	6,330	23,574	43,162	19,588
Fruit canning and preserving.	1939	18	7,949	4,577,867	24,549,416	48,692,282	24,142,866
	1919	9	2,855	1,391,522	10,772,745	18,997,975	8,225,230
	1909	10	816	174,502	926,591	1,591,073	664,482
Canned pineapple and pineapple juice.	1939	9	7,900	4,552,667	24,462,105	48,540,806	24,078,701
Jellies, preserves, etc.	1939	9	49	25,200	87,311	151,476	64,165
Ice cream	1939	10	111	89,004	598,154	1,262,777	664,623
Ice, manufactured	1939	6	66	85,797	42,940	228,642	185,702
	1909	5	40	23,963	21,386	107,111	85,725
	1899	4	19	12,000	16,000	57,000	41,000
Macaroni and noodles	1939	8	26	16,499	40,503	86,067	45,564
	1919	4	17	8,936	76,517	97,799	21,282
Native foods	1939	56	121	64,080	331,801	599,010	267,149
Fish cakes	1939	4	26	18,967	67,921	110,005	42,084
Poi	1939	34	86	39,283	173,283	343,561	170,278
Sugar and rice cakes	1939	8	4	2,184	68,725	105,136	36,411
Tofu	1939	10	5	3,646	21,932	40,308	18,376
Pickled fruits and vegetables; vegetable sauces.	1939	6	4	1,337	16,390	38,224	21,834
	1919	3	4	1,447	22,816	34,481	11,665
	1909	6	13	2,522	17,133	33,572	16,439
Potato chips; taro chips	1939	6	17	9,433	23,621	45,372	21,751
Chemicals and fertilizers	1939	6	189	180,984	1,525,294	2,160,108	634,814
Clothing, men's (including shirts) and women's.	1939	16	303	149,125	479,079	777,089	298,010
	1919	15	26	11,868	37,960	79,402	41,442
	1909	4	3	600	3,985	7,630	3,645
Concrete products; stone products; lime; pottery.[4]	1939	[8] 7	122	107,366	440,146	810,871	370,725
Footwear	1939	6	34	17,899	55,178	88,929	33,751
	1919	12	23	12,513	33,622	64,419	30,797
	1909	14	81	17,159	78,120	126,475	48,355
	1899	14	39	11,000	20,000	47,000	27,000
Furniture	1939	12	71	66,348	97,951	243,247	145,296
	1919	5	10	9,345	8,523	29,169	20,646
	1909	6	54	14,741	38,663	69,752	31,089
Furniture, household (except upholstered).	1939	4	9	7,264	6,876	23,036	16,160
Furniture, upholstered	1939	4	34	28,088	54,629	128,458	73,829
Furniture and fixtures, office and store.	1939	4	29	30,996	36,446	91,753	55,307
Iron castings; steel products; machine-shop products.[4]	1939	[9] 7	95	117,839	148,708	358,163	209,455
Jewelry; silverware; electroplating.[4]	1939	[10] 8	28	29,447	21,757	106,419	84,662
	1919	6	36	26,414	46,432	107,963	61,531
	1909	6	54	24,143	51,006	111,335	60,329
Mattresses and bed springs	1939	5	18	11,610	56,677	94,605	37,928
	1919	5	15	11,844	30,389	54,035	23,646
	1909	6	21	7,511	16,137	37,908	21,771
Picture frames; Venetian blinds.[4]	1939	[11] 4	36	31,722	82,572	155,984	73,412
Planing-mill products [12]	1939	10	161	181,556	462,558	824,498	361,940
	1919	8	135	118,717	422,916	612,906	189,990
	1909	8	254	109,647	97,459	281,325	183,866
	1899	3	35	22,000	42,000	91,000	49,000
Printing, publishing, and allied activities.	1939	56	783	880,421	963,976	4,147,337	3,183,361
	1919	49	576	407,055	377,109	1,338,955	961,846
	1909	37	319	146,830	102,442	434,779	332,337
	1899	10	132	22,000	33,000	200,000	167,000
Newspaper publishing and printing, or publishing only.	1939	25	573	636,178	570,920	2,928,138	2,357,218

For footnotes, see p. 909.

No. 899.—HAWAII—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939—Continued

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture [1]
Printing, publishing, and allied activities—Con.				*Dollars*	*Dollars*	*Dollars*	*Dollars*
Periodical publishing and printing, or publishing only.	1939	6	8	5, 293	19, 001	42, 073	23, 072
Book publishing and printing or publishing only; job printing; lithographing: photoengraving.[4]	1939	[13] 25	203	238, 950	374, 055	1, 177, 126	803, 071
Signs, neon	1939	3	7	8, 492	19, 528	45, 766	26, 238
Soap	1939	3	3	1, 639	8, 592	20, 347	11, 755
Wood products, not elsewhere classified.	1939	8	95	50, 820	37, 385	108, 596	71, 211
All other industries	1939	[14] 48	1, 422	1, 086, 672	12, 022, 425	17, 413, 083	5, 390, 658
	1919	245	2, 636	2, 361, 687	21, 103, 448	28, 157, 119	7, 053, 671
	1909	273	1, 450	716, 624	5, 175, 025	7, 774, 880	2, 599, 855
	1899	126	975	637, 000	2, 272, 000	3, 510, 000	1, 238, 000

[1] Value of products less cost of materials, etc., fuel, purchased electric energy, and contract work.
[2] Figures include data for coffee roasting and spice grinding which are no longer treated as manufacturing activities.
[3] Except butter and cheese, canned tuna, rice cleaning and polishing, meat packing and sausage manufacturing, and vegetable oils and sirups. See note 14.
[4] Combined to avoid disclosing, exactly or approximately, data for individual establishments or companies
[5] Distilled liquors, 1 establishment; malt liquors, 2; sake, 5; wines, 1.
[6] Figures for this industry relate solely to sugar mills, and do not include data for sugarcane plantations.
[7] Reported as confectionery and ice cream.
[8] Concrete products, 2 establishments; stone products, 2; lime, 2; pottery, 1.
[9] Iron castings, 1 establishment; steel products, 4; machine-shop products, 2.
[10] Jewelry, 6 establishments; silverware, 1; electroplating, 1.
[11] Picture frames, 1 establishment; Venetian blinds, 3.
[12] Products of planing mills not operated in conjunction with sawmills.
[13] Book publishing and printing, or publishing only, 2 establishments; job printing, 21; lithographing, 1; photoengraving, 1.
[14] Boat building and repairing, 5 establishments; brooms, 2; butter and cheese, 3; canned tuna, 3; caskets, 1; cushions, pillows, and quilts, 1; drugs, medicines, perfumes, 3; insulation board, 1; lighting fixtures, 1; machinery, farm, 1; machinery, sugar-mill, 1; mats, 1; meat packing, sausage manufacturing, 6; paper goods, 5; prepared feeds, 1; rice cleaning and polishing, 2; skirts, hula, 1; suitcases and trunks, 1; tin cans, 7; vegetable oils and sirups, 2. Figures for these industries are combined to avoid disclosing data reported by individual establishments.

Source: Department of Commerce, Bureau of the Census; Reports of Census of Manufactures, 1939.

No. 900.—Puerto Rico—Manufactures, by Industries: 1909 to 1939

Note.—See headnote, table 898.

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture [1]
				Dollars	*Dollars*	*Dollars*	*Dollars*
All industries, total	1939	798	23,484	9,220,251	76,280,773	111,499,641	35,218,868
	[2] 1919	619	15,985	6,765,604	59,985,058	85,506,834	25,521,776
	[2] 1909	939	15,582	3,639,196	21,500,618	36,749,742	15,249,124
Food and kindred products:[3]							
Bread and other bakery products.	1939	219	1,470	530,573	1,853,111	3,067,773	1,214,662
	1919	152	880	514,140	3,426,050	4,761,192	1,335,142
	1909	258	1,197	366,107	1,173,745	1,729,886	556,141
Bread and other bakery products, except crackers.	1939	212	1,143	460,129	1,614,952	2,636,533	1,021,581
Crackers	1939	7	327	70,444	238,159	431,240	193,081
Beverages, nonalcoholic	1939	10	93	30,702	145,466	277,014	131,548
	1919	11	56	20,739	49,647	134,402	84,755
Candy, chocolate and cocoa	1939	6	42	10,620	79,546	108,559	29,013
	1909	4	12	3,086	26,814	39,969	13,155
Cane sugar—except refineries.[4]	1939	40	7,765	4,501,813	38,880,800	55,377,402	16,496,602
	1919	55	7,490	2,832,022	40,139,359	56,411,932	16,272,573
	1909	108	5,062	1,227,585	12,280,994	20,569,348	8,288,354
Cane-sugar refining [4]	1939	4	1,893	239,313	10,340,938	12,510,477	2,169,539
Canned fruits and vegetables.	1939	5	304	35,432	135,375	239,149	103,774
	1909	4	48	4,831	26,930	38,003	11,073
Cheese	1939	3	9	3,020	36,795	48,958	12,163
Corn meal	1939	4	8	2,180	21,991	30,241	8,250
	1919	10	11	5,085	84,558	115,916	31,358
	1909	5	4	597	9,017	12,401	3,384
Ice cream and ices	1939	6	27	11,960	43,584	70,927	27,343
Ice, manufactured	1939	25	285	107,939	118,697	500,765	382,068
	1919	13	86	35,882	86,112	248,889	162,777
	1909	6	38	9,965	29,427	99,927	70,500
Liquors, distilled	1939	9	340	152,695	930,927	1,918,934	988,007
	1909	14	58	15,871	144,129	1,117,084	972,955
Liquors, rectified or blended	1939	28	316	89,754	1,550,465	2,198,363	647,898
Vermicelli, soup paste, and noodles.	1939	8	154	69,156	249,382	420,844	171,462
Wines	1939	4	43	8,026	25,932	46,137	20,205
Caskets	1939	6	8	2,568	6,439	16,735	10,296
Drugs and medicines	1939	13	64	19,025	91,771	180,504	88,733
	1919	10	20	7,333	116,479	193,181	76,702
Fertilizers	1939	8	235	107,792	3,163,761	3,863,043	699,282
Furniture and showcases	1939	[5] 45	687	171,549	379,336	744,202	364,866
Leather and leather goods	1939	[6] 12	53	15,890	54,899	98,930	44,031
	1919	31	140	67,555	185,878	326,595	140,717
	1909	66	358	72,539	191,229	370,463	179,234
Lime	1939	8	90	27,203	62,407	150,777	88,370
	1919	19	62	19,074	21,159	58,014	36,855
	1909	12	28	2,842	7,812	14,149	6,337
Machinery	1939	6	475	271,972	488,548	1,146,696	658,148

For footnotes, see p. 911.

No. 900.—Puerto Rico—Manufactures, by Industries: 1909 to 1939—Continued

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture [1]
				Dollars	*Dollars*	*Dollars*	*Dollars*
Metal products	1939	[7] 11	144	63, 735	53, 890	170, 237	116, 347
	[8] 1919	5	271	192, 610	388, 077	749, 268	361, 191
	[8] 1909	6	188	63, 556	57, 634	178, 210	120, 576
Needlework industries	1939	136	6, 378	1, 575, 814	[9] 13,323,273	[10] 20,778,267	[11] 7, 454, 994
Perfumes, cosmetics, and other toilet preparations.	1939	13	74	19, 690	141, 850	234, 978	93, 128
Planing-mill products [12]	1939	12	110	55, 131	129, 285	258, 390	129, 105
	1909	8	123	39, 996	178, 418	268, 719	90, 301
Printing, publishing, and allied activities.	1939	59	654	329, 217	559, 860	1, 606, 975	1, 047, 115
	1919	35	311	187, 100	260, 638	671, 587	410, 949
	1909	43	353	97, 720	146, 772	370, 559	223, 787
Newspapers	1939	12	201	119, 676	250, 669	840, 978	590, 309
Periodicals	1939	5	50	35, 121	51, 626	131, 252	79, 626
Books; job printing; photoengraving.	1939	[13] 42	402	174, 420	257, 565	634, 745	377, 180
Stone and clay products	1939	15	164	62, 045	95, 168	254, 623	159, 455
	1919	8	21	6, 771	5, 242	30, 063	24, 821
Floor and wall tiles (except quarry).	1939	9	117	45, 742	58, 898	132, 365	73, 467
Brick and hollow structural tile; sewer pipe; other concrete and stone products.	1939	[14] 6	47	16, 303	36, 270	122, 258	85, 988
Textile products and other fibre manufactures.	1939	[15] 10	308	161, 591	290, 116	571, 023	280, 907
Tobacco products	1939	47	445	123, 615	451, 554	740, 694	289, 140
	1919	183	5, 098	2, 267, 204	3, 039, 541	8, 134, 534	5, 094, 993
	1909	282	7, 025	1, 479, 567	2, 050, 315	6, 060, 393	4, 001, 078
Cigars and cigarettes	1939	42	415	119, 706	435, 681	713, 484	277, 803
Tobacco, chewing and smoking.	1939	5	30	3, 909	15, 873	27, 210	11, 337
Other industries	1939	[16] 26	847	420, 231	2, 575, 607	3, 868, 024	1, 292, 417
	1919	87	1, 539	610, 089	12, 182, 318	13, 671, 261	1, 488, 943
	1909	123	1, 088	254, 934	5, 168, 382	5, 880, 631	712, 249

[1] Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work.
[2] Figures include data for coffee cleaning and polishing, which is now treated as an agricultural activity and therefore was not covered by the 1939 Census of Manufactures.
[3] Except "Liquors, malt," and "Foods, miscellaneous." See footnote 16.
[4] The figures for this industry do not include data for sugar-cane plantations.
[5] Household furniture, 40 establishments; mattresses, 2; office furniture, 1; show cases, 2.
[6] Footwear, except rubber, 9 establishments; leather, tan, 1; saddlery, 1; other goods, 1.
[7] Aluminum products, 1 establishment; ornamental ironwork, 3; sheet-metal work, 3; tin cans, 3; watch parts, 1.
[8] Reported as "Foundry and machine-shop products."
[9] Estimated in part by use of ratios derived from reports made for corresponding classes of establishments operated in the United States.
[10] As part of the establishments engaged in contract work reported receipts for work done on materials owned by others, and part reported actual values of goods made, all returns have been converted to estimated value of products.
[11] This figure is inflated to the extent to which it includes amounts paid for outside work.
[12] Products of planing mills not reported in conjunction with sawmills.
[13] Books, 1 establishment; job printing, 40; photoengraving, 1.
[14] Brick and hollow structural tile, 2 establishments; sewer pipe, 1; other concrete and stone products, 3.
[15] Awnings, 1 establishment; hats, felt and linen, 2; hats, straw, 4; hosiery, full-fashioned, 1; rugs, string, 1; rugs, wool, 1.
[16] Bus bodies, 1 establishment; buttons, pearl, 2; compressed and liquefied gases, 2; cottonseed oil and meal, 1; diamond cutting, 1; foods, miscellaneous, 5; liquors, malt, 2; matches, 1; novelties, mahogany, 1; oxcarts and truck bodies, 1; paperboard containers, 1; salt, 1; signs, neon, 1; soap, 2; tires, retreading, 1; trunks, 3.

Source: Department of Commerce, Bureau of the Census; Reports of Census of Manufactures, 1939.

No. 901.—Patent Applications, Caveats Filed, and Patents and Certificates of Registration Issued Since Initiation of the Patent System: 1836 to 1940

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	128,703	22,228	85,910	79,612	3,181	3,117	[7] 121	[7] 121	--------	--------	--------
1871–1880	206,436	20,350	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
1936–1940	359,544	--------	229,514	[12] 201,177	26,458	1,879	71,786	52,709	8,409	8,128	2,540
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	4,729	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	--------	44,034	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	5,339	--------	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	46,450	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	10,897	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
1939	71,689	--------	49,080	[12] 43,135	5,593	352	14,337	10,526	1,399	1,807	605
1940	69,857	--------	48,850	[12] 42,333	6,145	372	13,805	9,985	2,549	969	302

[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 Dec. 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; 45 in 1939; 85 in 1940.

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