29.—FORESTS AND FOREST PRODUCTS

[Data in this section relate to continental United States only except those for national forests which include Alaska, or Alaska and Puerto Rico, as indicated]

No. 672.—FORESTS: Estimated Original Area, Area in 1930, Stand of Saw Timber, and Annual Growth, 1930, by Regions

Note.—Data in the following table are necessarily approximate. The original area and area in 1930 refer only to land capable of producing commercial timber in commercial quantities, and do not include the low-grade woodland and scrub; the 11,000,000 acres in parks, monuments, etc., are excluded from the forest area in 1930. Annual growth relates to acreage specified as growing area, other areas having no growth in excess of decay

Region	Original area (thousand acres)	Area (thousand acres), 1930						
		Total	Saw timber			Cordwood	Fair to satisfactory restocking	Poor to nonrestocking
			Total	Old growth	Second growth			
Total	816,158	494,898	188,645	98,855	89,790	120,881	102,073	83,299
New England [1]	38,908	27,273	13,860	7,976	5,884	4,843	6,145	2,425
Middle Atlantic [2]	69,610	27,139	7,294	26	7,268	10,518	5,998	3,329
Lake [3]	104,320	55,895	5,095	2,664	2,431	8,880	28,165	13,755
Central [4]	163,840	64,249	21,224	1,664	19,560	25,592	12,245	5,188
South [5]	298,640	190,758	57,265	14,338	42,927	52,702	37,236	43,555
Pacific coast [6]	77,120	66,685	44,140	38,892	5,248	6,683	6,190	9,672
North Rocky Mountain [7]	33,490	32,329	17,026	15,172	1,854	5,704	5,933	3,666
South Rocky Mountain [8]	30,230	30,570	22,741	18,123	4,618	5,959	161	1,709

Region	Stand of saw timber (millions of board feet), 1930			Annual growth of usable material on commercial forest areas, 1930					
	Total	Softwoods	Hardwoods	Combined saw-timber and cordwood growth (millions of cubic feet)			Saw-timber growth (millions of board feet)		
				Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods
Total	1,667,803	1,485,850	181,953	8,912	4,810	4,102	11,731	8,311	3,420
New England [1]	57,875	32,811	25,064	427	162	265	764	410	354
Middle Atlantic [2]	26,150	8,245	17,905	634	114	520	575	172	403
Lake [3]	35,887	9,193	26,694	644	167	477	116	12	104
Central [4]	34,622	2,900	31,722	1,128	83	1,045	727	41	686
South [5]	199,297	121,449	77,848	4,784	2,994	1,790	6,799	4,946	1,853
Pacific coast [6]	1,041,628	1,038,909	2,719	680	675	5	1,785	1,765	20
North Rocky Mountain [7]	146,388	146,388	----------	416	416	--------	576	576	--------
South Rocky Mountain [8]	125,956	125,955	1	199	199	--------	389	389	--------

[1] Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.
[2] New York, New Jersey, Pennsylvania, Delaware, and Maryland.
[3] Michigan, Wisconsin, Minnesota, and North Dakota.
[4] Ohio, Indiana, Illinois, West Virginia, Kentucky, Tennessee, Iowa, and Missouri. Data for Kansas and Nebraska are not available, but these omissions from the central region estimates are unimportant.
[5] Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Arkansas, Louisiana, Texas, and Oklahoma.
[6] California, Oregon, and Washington.
[7] Idaho and Montana.
[8] Wyoming, Colorado, South Dakota, New Mexico, Arizona, Utah, and Nevada.

Source: Forest Service, Department of Agriculture.

No. 673.—STAND OF SAW TIMBER (ESTIMATED): BY REGION AND KIND OF WOOD, 1930

[Quantity in millions of board feet]

Kind of wood	Total	New England	Middle Atlantic	Lake	Central	South	Pacific coast	North Rocky Mountain	South Rocky Mountain
Grand total	1,667,803	57,875	26,150	35,887	34,622	199,297	1,041,628	146,388	125,956
Eastern hardwoods, total	179,233	25,064	17,905	26,694	31,722	77,848			
Oak	60,753	1,048	4,783	6,017	16,315	32,590			
Birch, beech, and maple	49,943	20,973	8,555	13,459	4,401	2,555			
Red gum	15,488		71		874	14,543			
Tupelo	6,242				116	6,226			
Yellow poplar	5,172	18	203		1,635	3,316			
Cottonwood and aspen	4,437	2,022	20	887	222	1,286			
Others	37,098	1,003	4,273	6,331	8,159	17,332			
Eastern softwoods, total	174,598	32,811	8,245	9,193	2,900	121,449			
Southern yellow pine	118,132		597		1,433	116,102			
Spruce and fir	21,533	18,720	1,564	843	175	231			
White and Norway pine	14,672	8,390	3,530	[2] 2,392	159	201			
Hemlock	12,198	3,675	2,462	4,612	765	684			
Cypress	4,140				263	3,877			
Others	3,923	2,026	92	1,346	105	354			
Western hardwoods, total	2,720						2,719		1
Western softwoods, total	1,311,252						1,038,909	146,388	125,955
Douglas fir	530,197						484,138	33,933	12,126
Western yellow pine	251,560						178,051	31,938	41,571
True firs	131,933						109,196	14,594	8,143
Western hemlock	86,464						86,464		
Spruce	61,582						12,782	12,513	36,287
Redwood	57,233						57,233		
Lodgepole pine	43,276						2,143	14,556	26,577
Sugar pine	35,516						35,516		
Western larch	26,118						8,043	18,075	
Western white pine	19,508						3,944	15,564	
Others	67,865						61,399	5,215	1,251

No. 674.—NATIONAL FORESTS: AREA AND STANDING TIMBER

NOTE.—In December 1935 it was estimated that there were 18,511,279 acres of State forests, including forest preserves of New York, Hawaiian and Puerto Rican forest reserves, State parks, and other forest lands belonging to States; also 5,063,413 acres of municipal and county forests and parks

State	Net area, 142 forests, June 30, 1935 (acres)	Standing timber, Dec. 31, 1930		State	Net area, 142 forests, June 30, 1935 (acres)	Standing timber, Dec. 31, 1930	
		Saw timber (million board feet)	Cordwood on cordwood area (1,000 cords)			Saw timber (million board feet)	Cordwood on cordwood area (1,000 cords)
Total	163,310,002	633,340	149,142	New Hampshire	[1] 510,367	1,067	1,253
Cont'l U.S.	141,953,918	552,465	141,526	New Mexico	8,537,036	9,028	
Alabama	[1] 135,440	254	5	North Carolina	[1] [2] 452,586	503	1,080
Arizona	11,389,464	14,059		Oklahoma	[1] 153,760		
Arkansas	[1] 1,328,808	1,442		Oregon	13,525,795	152,638	16,113
California	19,163,818	102,251	62	Pennsylvania	[1] 381,862	94	608
Colorado	13,547,537	38,251	8,495	South Carolina	[1] 48,413	103	90
Florida	[1] 607,406	171	702	South Dakota	1,066,622	2,910	1,635
Georgia	[1] 388,929	398	554	Tennessee	[1] 398,774	369	263
Idaho	19,675,239	58,275	21,191	Utah	7,540,807	7,283	681
Illinois	10,710			Vermont	[1] 58,453		
Louisiana	[1] 88,455	5	62	Virginia	[1] 623,336	777	3,470
Maine	[1] 33,781	52		Washington	9,612,900	102,309	12,525
Michigan	[1] 705,874	85	160	West Virginia	[1] 346,470	75	480
Minnesota	[1] 1,256,283	1,104	4,458	Wisconsin	[1] 549,239	11	15
Montana	16,157,372	30,565	57,680	Wyoming	8,472,022	28,158	9,926
Nebraska	206,026			Alaska	21,342,601	80,875	7,616
Nevada	4,930,334	228	18	Puerto Rico	[1] 13,483		

[1] Includes acreage actually acquired under the Weeks law, as amended by the Clarke-McNary law.
[2] Includes 8,394 acres transferred from the Treasury Department.

Source of tables 673 and 674: Forest Service, Department of Agriculture.

No. 675.—NATIONAL FORESTS: LAND IN COURSE OF ACQUISITION AND LAND ACQUIRED UNDER THE WEEKS LAW, AS AMENDED BY THE CLARKE-McNARY LAW, TO JUNE 30, 1935

State and administrative unit	Area in course of acquisition	Area acquired
	Acres	*Acres*
Total	5,538,058	7,209,360
Cont'l United States	5,533,791	7,208,320
Alabama, total	94,172	118,230
Alabama	11,501	118,230
Talladega	82,671	----------
Arkansas total	355,260	412,255
Ouachita (part)	207,111	214,001
Ozark	148,149	198,254
Florida, total	157,052	443,937
Apalachicola	89,728	185,015
Choctawhatchee	22,696	73,577
Ocala	39,658	35,465
Osceola	4,970	149,880
Georgia, total	19,327	390,261
Cherokee (part)	13,809	241,800
Nantahala (part)	5,518	148,461
Illinois, total	106,548	10,374
Illini	49,351	8,443
Shawnee	57,197	1,931
Kentucky: Cumberland	221,085	70,835
Louisiana, total	48,185	363,811
Catahoula	36,911	152,212
Evangeline	3,716	53,698
Kisatchie	7,323	88,455
Vernon	235	69,446
Maine: White Mountain (part)	2,661	33,781
Michigan, total	550,351	527,133
Hiawatha	183,914	149,466
Huron	30,892	114,616
Manistee	97,531	15,394
Marquette	56,110	83,674
Ottawa	181,904	163,983
Minnesota, total	283,689	468,447
Chippewa	136,051	93,200
Mesaba	20,999	97,613
Superior	126,639	277,634
Mississippi, total	533,058	350,772
Bienville	165,699	----------
Biloxi	56,087	69,974
Chickasawhay	56,556	77,598
Holly Springs	72,800	6,832
Homochitto	98,426	74,881
Leaf River	83,490	120,276
McNeill Experimental Forest	----------	1,211
Missouri, total	538,449	212,225
Clark	202,655	70,308
Fristoe	95,956	111,762
Gardner	54,943	5,876
Gasconade	64,742	16,150
Pond Fork	40,749	3,650
Wappapello	79,404	4,479
New Hampshire: White Mountain (part)	150,503	510,367
North Carolina, total	221,340	494,847
Cherokee (part)	13,254	8,377
Croatan	27,099	50,659
Nantahala (part)	75,400	151,315
Pisgah (part)	70,972	284,496
Uharie	11,632	----------
Unaka (part)	22,983	----------
Oklahoma: Ouachita (part)	49,156	92,280
Pennsylvania: Allegheny	37,080	383,745
South Carolina, total	286,356	115,411
Enoree	75,206	----------
Long Cane	45,121	----------
Nantahala (part)	2,540	48,413
Wambaw	163,489	66,998
Tennessee, total	103,286	398,770
Cherokee (part)	56,231	205,526
Pisgah (part)	3,253	37,175
Unaka (part)	43,802	156,069
Texas, total	605,590	----------
Angelina	133,582	----------
Davy Crockett	160,842	----------
Sabine	168,775	----------
San Jacinto	142,391	----------
Vermont: Green Mountain	90,733	58,408
Virginia, total	197,068	623,201
Clinch	36,456	----------
George Washington (part)	56,928	552,633
Monongahela (part)	34,476	10,414
Mountain Lake	44,318	----------
Unaka (part)	24,890	60,154
West Virginia, total	257,569	518,802
George Washington (part)	18,043	70,397
Monongahela (part)	239,526	448,405
Wisconsin, total	625,273	610,428
Chequamegon	319,868	416,343
Nicolet	305,405	194,085
Puerto Rico, total	4,267	1,040
Caribbean	2,882	1,040
Toro Negro	1,385	----------

Source: Forest Service, Department of Agriculture.

No. 676.—NATIONAL FORESTS: SUMMARY OF OPERATIONS

NOTE.—Data for revenue for all years and for the first three items for 1933 to 1935 are for years ended June 30; other data are for calendar years. Figures include data for national forests in Alaska

Item	1929	1930	1931	1932	1933	1934	1935
Timber sales:							
Number	13,864	15,093	15,873	14,362	14,268	16,433	17,520
Quantity—M ft.[1]	1,050,894	[2]3,370,417	605,306	352,584	356,792	462,089	[2] 669,688
Timber cut under sales—do	1,421,188	1,254,963	793,816	383,721	389,500	598,751	668,246
Free timber given:							
Number of users	42,135	53,930	81,618	125,472	134,088	113,821	108,408
Timber cut—M ft.[1]	86,768	116,096	167,680	270,244	265,812	248,243	316,769
Value—dollars	97,518	116,786	162,017	226,947	237,044	210,175	279,921
Grazing, kinds of stock: [3]							
Cattle—No.	1,322,465	1,315,882	1,338,373	1,361,160	1,366,538	1,389,387	1,315,233
Goats—do	15,487	13,496	14,645	12,438	11,045	9,124	9,148
Swine—do	853	540	431	528	533	315	292
Horses—do	48,171	41,961	37,335	35,105	31,797	29,549	29,085
Sheep—do	6,650,719	6,700,846	6,593,583	6,308,500	6,150,921	6,152,244	5,681,938

For footnotes see next page.

No. 676.—National Forests: Summary of Operations—Continued

Item	1929	1930	1931	1932	1933	1934	1935
Revenue, total dolls.	6,299,802	6,751,553	4,993,320	2,294,247	2,626,049	3,314,691	3,291,312
From—							
Timber [4] do.	4,108,595	4,389,893	2,607,618	1,049,108	782,808	1,522,356	1,731,355
Water power do.	113,228	107,493	112,308	116,352	60,192	124,946	89,973
Special uses do.	287,119	300,257	301,712	293,157	278,182	297,831	315,829
Grazing do.	1,740,290	1,942,914	1,960,642	829,960	1,498,209	1,358,688	1,151,153
All other do.	50,570	10,996	11,040	5,670	6,658	10,870	3,002

[1] Board measure.
[2] Amount sold is to be cut during a period of years; hence greater than amount cut in these years.
[3] Number actually grazed under permit.
[4] Includes receipts from timber and turpentine sales, timber settlement and trespass.

No. 677.—FOREST FIRES: Area, Number, and Damage

Note.—Data were compiled from reports by the National Forest Supervisors and from those of cooperating States. Figures for fires on national parks were excluded prior to 1931 and on Indian reservations prior to 1932

Year	Area needing protection	Area protected	Area unprotected [1]	Number of fires		Area burned		Damage [2]	
				On protected area	On unprotected area [1]	On protected land	On unprotected land [1]	On protected area	On unprotected area [1]
	1,000 acres	*1,000 acres*	*1,000 acres*			*1,000 acres*	*1,000 acres*	*1,000 dollars*	*1,000 dollars*
1929	[3] 599,505	[3] 395,675	203,890	44,076	90,819	4,876	41,354	14,139	87,917
1930	607,921	399,142	208,779	70,832	120,148	5,809	46,457	14,597	51,371
1931	617,324	400,783	216,541	62,174	125,040	6,406	45,200	17,018	50,069
1932	625,865	405,248	220,617	60,500	105,899	3,652	38,410	7,879	45,581
1933	661,619	442,955	218,664	53,287	87,435	3,723	40,167	17,318	42,957
1934	674,704	465,146	209,558	69,318	93,345	4,173	37,648	8,100	37,273
1935	673,573	469,194	204,379	62,554	77,743	2,539	27,797	4,251	28,329

[1] Figures are based upon partial information only, from incomplete reports. Reliable data are not available prior to organized protection.
[2] Figures do not take into account the vast amount of intangible and indirect damage resulting from forest fires, such as that through decay of damaged timbers, replacements of desirable species of trees by less desirable but more fire-resistant ones, soil deterioration and erosion, loss of wild life, uncertain stream flow, interrupted tourist traffic, and the like.
[3] The increase in total acreage is primarily nonforest land.

No. 678.—FOREST FIRES: Number, Area Burned, and Damage, by Causes, Protected Areas Only

Year	Lightning	Railroads	Campers	Smokers	Débris burning	Incendiary	Lumbering	Miscellaneous	Unknown
Number of fires:									
1929	4,312	3,652	3,837	9,507	5,337	7,930	1,839	4,165	3,497
1930	5,217	4,625	5,011	17,460	9,180	14,394	1,626	6,987	6,332
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
Area burned (acres):									
1929	355,940	119,060	319,480	807,340	585,940	1,652,870	359,420	447,010	229,260
1930	106,630	259,120	294,960	1,044,460	736,460	1,766,090	175,540	623,810	802,250
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
Damage (dollars):									
1929 [1]	1,723,920	580,410	784,450	2,358,440	859,440	3,782,750	2,401,950	1,144,030	500,530
1930 [1]	331,720	1,005,450	572,310	2,344,420	1,706,590	2,934,020	449,880	1,639,630	3,200,570
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

[1] Totals by causes for these years are less than total area burned or total damage, shown in tables 677 and 679 because of incomplete reports. See also note 2, Table 677, regarding data for damage.

Source of tables 676, 677, and 678: Forest Service, Department of Agriculture.

No. 679.—FOREST FIRES: CLASSIFICATION OF AREA BURNED AND DAMAGE, PROTECTED AREAS ONLY

AREA BURNED (acres)

Year	Productive forest			Nonproductive area				Grand total
				Protection		No protection or forest value	Total	
	Mature or merchantable	Young growth	Total	Forest	Other			
1929	953,720	2,337,580	3,291,300	340,750	855,470	388,800	1,585,020	4,876,320
1930	1,322,160	3,399,800	4,721,960	65,870	759,180	262,310	1,087,360	5,809,320
1931	1,272,470	2,874,690	4,147,160	278,710	1,577,950	402,050	2,258,710	6,405,870
1932	726,730	2,054,720	2,781,450	136,430	561,570	172,760	870,760	3,652,210
1933	816,560	1,937,080	2,753,640	71,460	626,710	271,110	969,280	3,722,920
1934	874,770	2,044,660	2,919,430	889,320		364,290	1,253,610	4,173,040
1935	493,110	1,523,830	2,016,940	311,060		211,110	522,170	2,539,110

DAMAGE [1] (dollars)

Year	Timber	Reproduction	Forage	Other	Total	Protection forest value	Grand total
1929	5,965,850	3,664,750	403,100	2,911,650	12,945,350	1,193,200	14,138,550
1930	5,895,240	6,007,200	325,690	1,771,100	13,999,230	598,050	14,597,280
1931	6,821,070	5,491,850	215,820	2,751,750	15,280,490	1,737,610	17,018,100
1932	2,760,770	2,577,800	125,970	1,831,030	7,295,570	583,920	7,879,490
1933	12,189,920	3,295,840	146,600	1,287,000	16,919,360	399,080	17,318,440
1934	2,747,450	2,992,190	164,850	1,334,540	7,239,030	861,320	8,100,350
1935	1,012,540	1,830,580	118,300	989,090	3,950,510	300,230	4,250,740

[1] See footnote 2, table 677.

No. 680.—ESTIMATED QUANTITY OF TIMBER REMOVED ANNUALLY FROM FORESTS

NOTE.—Data, except for timber destroyed by disease, insects, etc., are based upon the average of the years 1925–1929; timber destroyed by disease, insects, etc., average of the years 1919–1929

Product and waste	Unit of measure	Quantity in thousands	Total volume removed, including cordwood [1] (M cubic feet)	Equivalent in lumber which could have been sawed from total volume removed (M feet b. m.)		
				Total	Softwoods	Hardwoods
Aggregate			**16,306,207**	**59,133,839**	**44,254,914**	**14,878,925**
Products, total			14,495,308	54,641,444	40,228,682	14,412,762
Lumber	Foot, b.m.[2]	38,000,000	7,371,372	38,000,000	30,957,920	7,042,080
Fuelwood	Cord	61,266	4,002,635	7,047,000	4,146,000	2,901,000
Ties, hewed	Piece	53,215	633,034	2,025,165	835,553	1,189,612
Fence posts	do	395,946	628,836	1,299,459	654,438	645,021
Pulpwood	Cord	5,336	588,666	1,473,620	1,316,815	156,805
Mine timbers (round)	Cu. ft.	184,875	231,780	155,988	43,626	112,362
Veneer logs	Foot, l. s.	920,034	230,607	1,033,708	332,691	701,017
Slack staves	Piece	979,610	109,345	487,861	179,780	308,081
Slack heading	Set	67,766	42,452	203,016	129,737	73,279
Slack hoops	Piece	138,939	10,053	41,626		41,626
Logs and bolts in manufactures.	Foot, l. s.	593,328	156,575	677,960	109,443	568,517
Tight staves	Piece	307,167	97,116	460,378	224,822	235,556
Tight heading	Set	26,609	43,733	199,372	74,138	125,234
Shingles	Piece	6,298,100	138,558	629,810	629,810	
Export logs and hewn timbers.	Foot, l. s.	307,570	60,514	340,535	320,503	20,032
Poles	Piece	3,443	37,571	149,374	131,859	17,515
Distillation wood	Cord	1,283	36,367	88,970	11,300	77,670
Piling	Piece	1,363	28,978	141,527	108,497	33,030
Tanning extract wood	Cord	418	26,173	118,950		118,950
Excelsior wood	do	179	20,943	67,125	21,750	45,375
Destroyed by fire			870,690	1,390,233	1,250,948	139,285
Destroyed by disease, insects, wind, and drought.			940,209	3,102,162	2,775,284	326,878

[1] The cordwood data in this item include trees of less than saw-timber size on saw-timber and cordwood areas.

[2] Lumber tally measure.

Source of tables 679 and 680: Forest Service, Department of Agriculture. Data in table 680 are based in part upon forest products statistics of the Bureau of the Census, Department of Commerce.

No. 681.—LUMBER: Reported Production, by Species, and Average 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 values 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)	1922	31,569	4,925	26,644	$26.15
1879	18,091			(1)	1923	37,166	6,262	30,904	31.78
1889	23,842			$11.41	1924	35,931	6,525	29,406	28.57
1899	[2]35,078	8,634	26,146	11.13	1925	38,339	6,628	31,710	28.02
1909	44,510	10,613	33,897	15.38	1926	36,936	6,467	30,469	27.34
1912	39,158	8,632	30,526	15.35	1927	34,532	6,090	28,442	25.80
1913	38,387	8,084	30,303	(1)	1928	34,142	5,797	28,345	25.61
1914	37,346	7,939	29,407	(1)	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					
1921	26,961	4,775	22,186	23.47					

Species	Production by species								
	1899	1909	1919	1929	1930	1931	1932	1933	1934
Softwoods:									
Yellow pine	9,659	16,277	13,063	11,630	7,450	4,430	3,069	4,446	4,473
Douglas fir	1,737	4,856	5,902	8,689	6,453	4,648	2,904	3,969	4,066
White pine	7,742	3,900	1,724	1,248	1,109	716	433	532	756
Hemlock	3,421	3,051	1,755	2,099	1,517	960	337	416	478
Ponderosa pine (Western yellow pine)	945	1,500	1,755	3,288	2,594	1,822	1,288	1,690	1,806
Spruce	1,442	1,749	980	564	442	234	156	198	259
Cypress	496	956	656	532	491	332	165	158	179
Redwood	360	522	410	486	403	211	136	164	282
Cedar	233	346	332	309	238	150	86	111	140
Larch	51	421	388	245	174	85	50	48	79
White fir	-------	89	223	307	207	121	52	67	81
Sugar pine	54	97	134	349	205	106	48	85	110
Balsam fir	-------	109	68	38	8	11	4	3	7
Lodgepole pine	-------	24	16	31	30	25	19	12	19
All other softwood	9	-------	-------	-------	-------	-------	-------	-------	-------
Hardwoods:									
Oak	4,438	4,414	2,708	2,574	1,662	954	516	698	1,083
Maple	633	1,107	857	824	601	328	160	221	311
Gum, red and sap	285	707	851	1,104	694	343	202	386	393
Yellow poplar	1,115	859	329	436	258	172	86	111	163
Chestnut	207	664	546	268	151	89	48	50	79
Birch	133	452	375	374	284	172	73	81	126
Beech	-------	511	359	187	138	81	42	44	72
Basswood	308	399	184	133	96	57	21	37	52
Elm	457	347	194	176	110	57	20	33	49
Cottonwood	415	266	144	165	158	77	49	108	109
Ash	269	291	155	152	116	68	34	54	76
Hickory	97	334	170	57	30	14	8	11	13
Tupelo	-------	97	144	307	254	135	89	123	126
Walnut	39	46	39	72	36	23	9	22	21
Sycamore	30	57	28	58	26	23	8	11	14
All other hardwood	209	62	61	186	113	77	40	72	73

[1] Not available.
[2] Includes 298,000,000 board feet of lumber not reported by kinds of wood.

Sources: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

No. 682.—LUMBER: Reported Production by Regions and States

[In millions of board feet. See headnote, table 681]

Region and State	1889	1899	1909	1919	1929	1931	1932	1933	1934
United States	23,842	35,078	44,510	34,552	36,886	16,523	10,151	13,961	15,494
Northeastern	4,726	5,709	5,197	2,584	1,232	603	388	417	698
Maine	597	785	1,112	596	258	152	102	105	178
New Hampshire	277	572	650	339	192	94	61	101	155
Vermont	384	376	352	218	120	61	40	30	50
Massachusetts	212	344	361	167	72	43	39	24	57
Connecticut	49	108	168	87	30	13	5	7	11
New York	925	878	681	358	160	74	39	36	59
New Jersey	34	74	62	37	16	7	5	5	7
Pennsylvania	2,133	2,333	1,463	630	314	123	73	93	147
Maryland	82	184	268	113	55	29	18	12	24
Rhode Island	8	19	25	11	7	3	3	3	4
Delaware	23	36	55	27	10	4	4	1	5
Central	3,130	5,643	5,487	3,016	2,347	821	417	530	909
Ohio	565	990	543	280	176	53	32	38	83
Indiana	755	1,037	556	282	170	53	27	42	65
Illinois	222	388	170	65	38	18	8	8	15
Missouri	402	724	660	321	228	75	35	41	101
West Virginia	302	778	1,473	763	633	247	135	185	224
Kentucky	423	775	861	512	339	111	51	47	123
Tennessee	460	951	1,224	792	764	263	128	169	299
Southern States	3,718	8,404	14,796	12,704	12,484	4,721	2,973	4,510	4,592
Georgia	575	1,312	1,342	894	1,386	460	264	473	476
Florida	412	790	1,202	1,137	1,137	577	320	439	473
Alabama	589	1,101	1,691	1,799	2,059	732	544	757	659
Mississippi	454	1,206	2,573	2,390	2,669	863	531	792	875
Arkansas	538	1,624	2,111	1,772	1,348	508	277	514	628
Louisiana	304	1,115	3,552	3,164	2,232	949	567	836	775
Texas	843	1,232	2,099	1,380	1,452	556	405	594	594
Oklahoma	3	22	226	168	200	77	65	105	111
North Carolina Pine States	1,129	2,712	5,177	3,374	2,979	1,263	964	1,256	1,319
Virginia	416	959	2,102	1,098	708	311	227	321	406
North Carolina	515	1,287	2,178	1,654	1,202	501	383	513	571
South Carolina	199	466	898	622	1,068	450	354	422	341
Lake States	8,251	8,750	5,476	2,692	1,771	712	290	394	596
Michigan	4,300	3,018	1,890	876	571	257	111	160	236
Minnesota	1,084	2,342	1,562	700	357	95	58	49	95
Wisconsin	2,866	3,389	2,025	1,116	843	360	120	186	265
Pacific States	2,028	2,901	6,905	8,818	14,149	7,494	4,545	6,147	6,459
Washington	1,064	1,429	3,863	4,961	7,302	3,908	2,261	3,106	3,064
Oregon	446	735	1,899	2,577	4,784	2,628	1,604	2,256	2,380
California and Nevada	[1] 518	738	[1] 1,144	1,280	2,063	[1] 958	681	[1] 785	1,015
Rocky Mountain States	249	556	1,292	1,299	1,843	873	554	674	882
Montana	90	256	309	287	389	158	111	125	172
Idaho	28	65	646	765	1,029	500	248	316	457
Arizona	5	36	63	74	175	85	58	90	73
New Mexico	26	31	92	87	148	59	72	89	101
Colorado	80	134	142	65	72	48	39	34	49
Utah	14	18	13	12	5	6	5	8	10
Wyoming	6	17	29	9	26	17	21	11	19
All other	612	401	[2] 179	65	81	37	21	34	39
Iowa	571	352	132	18		[3] 7	2	[4] 4	3
Kansas	4	11			20	4	1	[5]	3
Nebraska	9	5	[2] 16	3		[5]			
North Dakota	7	2							
South Dakota	21	32	31	43	61	27	17	30	33
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	3.8	3.0	4.5
Central States	13.1	16.1	12.3	8.7	6.4	5.0	4.1	3.8	5.9
Southern States	15.6	24.0	33.3	36.8	33.8	28.6	29.3	32.3	29.6
North Carolina Pine States	4.7	7.7	11.6	9.8	8.1	7.6	9.5	9.0	8.5
Lake States	34.6	24.9	12.3	7.8	4.8	4.3	2.8	2.8	3.8
Pacific States	8.5	8.3	15.5	25.5	38.4	45.4	44.8	44.1	41.7
Rocky Mountain States	1.1	1.6	2.9	3.7	5.0	5.3	5.5	4.8	5.7
All other	2.6	1.1	.4	.2	.2	.2	.2	.2	.3

[1] California only; for 1909 Nevada included with "All other." [2] Includes Nevada.
[3] Includes Nebraska. [4] Includes Kansas. [5] Included with Iowa.

Sources: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

No. 683.—LUMBER: Average Mill Value per 1,000 Board Feet

Kind of wood	1899	1909	1919	1927	1928	1929	1930	1931	1932	1933	1934
All kinds [1]	**$11.13**	**$15.38**	**$30.21**	**$25.80**	**$25.61**	**$26.94**	**$22.81**	**$18.56**	**$15.12**	**$18.55**	**$21.47**
SOFTWOODS											
Balsam fir	(2)	13.99	32.23	25.92	25.40	25.49	26.72	19.34	19.32	19.79	20.27
Cedar	10.91	19.95	33.80	34.39	38.32	34.83	31.14	24.08	24.55	25.91	27.94
Cypress	13.32	20.46	38.38	39.91	36.18	35.29	33.10	30.64	24.62	26.30	30.73
Douglas fir	8.67	12.44	24.62	19.45	19.02	20.05	16.91	12.05	10.61	13.57	16.14
Hemlock	9.98	13.95	29.16	19.06	18.84	18.90	17.04	14.13	12.39	14.27	17.70
Larch (tamarack)	8.73	12.68	23.39	17.69	18.34	18.35	17.18	14.18	10.76	13.84	16.07
Lodgepole pine	(2)	16.25	29.98	20.82	19.29	17.97	17.64	14.46	12.45	16.23	16.54
Ponderosa pine (western yellow pine)	9.70	15.39	27.75	26.04	26.35	26.47	23.52	20.48	16.88	18.57	20.51
Redwood	10.12	14.80	30.04	33.81	31.39	31.00	30.33	29.82	24.33	26.29	30.03
Spruce	11.27	16.91	30.76	26.59	26.50	28.64	23.66	23.00	17.73	18.89	21.75
Sugar pine	12.30	18.14	35.99	43.22	39.06	43.08	38.10	28.76	26.26	27.95	27.64
White fir	(2)	13.10	25.66	19.92	20.00	20.63	17.57	14.94	12.23	15.30	15.15
White pine	12.69	18.16	32.83	29.90	28.71	29.87	27.81	24.71	21.58	21.45	23.75
Yellow pine	8.46	12.69	28.71	23.77	24.62	25.66	21.06	16.99	13.32	17.91	21.64
HARDWOODS											
Ash	15.84	24.44	52.69	43.82	45.61	43.14	39.72	41.06	28.74	33.23	39.26
Basswood	12.84	19.50	40.03	39.84	39.72	39.88	35.31	28.54	23.81	29.19	30.78
Beech	(2)	13.25	29.98	27.21	28.63	28.39	25.89	22.93	17.97	22.75	22.93
Birch	12.50	16.95	35.79	41.03	40.30	39.35	36.39	30.95	26.26	29.02	30.58
Chestnut	13.37	16.12	32.30	29.35	31.09	29.51	23.91	22.50	17.87	23.01	23.53
Cottonwood	10.37	18.05	32.24	30.92	27.54	29.70	22.73	19.54	16.49	22.13	20.68
Elm	11.47	17.52	36.39	36.22	37.89	35.28	30.20	25.37	19.07	23.09	24.09
Gum, red and sap	9.63	13.20	32.68	32.81	31.91	34.42	27.67	22.68	16.84	23.01	24.70
Hickory	18.78	30.80	44.37	37.08	38.83	40.33	33.00	32.65	29.85	26.27	27.92
Maple	11.83	15.77	35.56	35.35	36.31	36.93	34.45	28.80	22.82	30.51	30.84
Oak	13.78	20.50	37.87	35.72	35.23	38.43	29.29	27.68	22.84	28.53	27.54
Sycamore	11.04	14.87	30.32	29.31	30.06	30.07	26.54	22.40	18.71	22.78	21.52
Tupelo	(2)	11.87	28.42	24.45	25.51	25.39	23.47	19.05	17.40	22.01	22.70
Walnut	36.49	43.79	72.13	111.64	112.54	119.15	100.75	90.44	57.87	77.61	86.60
Yellow poplar	14.03	25.39	41.65	38.58	40.90	41.66	35.19	30.02	26.02	29.91	30.01

[1] Includes species not shown separately. [2] No data.

Sources: Bureau of the Census, Department of Commerce, and Forest Service, Dept. of Agriculture.

No. 684.—VENEERS: Timber Consumed in Manufacturing Veneers

[In thousands of feet, log scale]

State	1927	1929	1931	1933
Total	961,561	1,112,910	696,350	700,234
Alabama	41,424	43,221	24,364	26,918
Arkansas	57,611	63,363	36,001	24,998
California	18,379	28,698	14,463	16,651
Florida	77,321	96,199	56,657	67,097
Georgia	38,646	40,388	29,762	34,911
Illinois	11,414	15,821	8,539	6,546
Indiana	25,092	30,779	17,147	14,182
Kentucky	24,193	21,437	11,121	10,281
Louisiana	35,012	47,617	31,030	22,898
Michigan	20,811	20,434	11,316	9,786
Mississippi	80,218	75,427	43,798	48,318
New York	27,364	37,377	18,723	15,336
North Carolina	78,171	96,417	52,266	51,216
Oregon	32,091	55,644	23,978	32,616
South Carolina	35,311	48,960	28,194	24,627
Tennessee	25,586	24,710	15,642	17,743
Texas	29,216	32,488	30,965	22,980
Virginia	33,319	24,688	32,314	34,122
Washington	140,319	181,826	135,370	159,990
Wisconsin	37,864	38,724	21,160	10,573
All other	92,199	88,692	53,540	48,445

Kind of wood [1]	1925	1927	1929	1931
Domestic, total	720,865	943,993	1,095,244	688,815
Basswood	9,413	11,885	13,920	7,028
Beech	4,708	11,268	17,358	14,130
Birch	51,490	51,331	47,715	23,213
Cottonwood	39,869	43,456	51,742	43,707
Douglas fir	101,869	101,220	162,415	101,293
Elm	8,503	16,945	19,459	20,937
Maple	23,922	24,706	35,617	24,563
Oak	20,661	19,502	20,409	8,908
Red gum	237,465	250,247	285,035	201,297
Spruce	20,033	53,642	38,198	40,364
Tupelo	48,311	113,729	88,123	59,116
Walnut	17,573	20,786	26,893	8,524
Yellow pine	45,818	92,153	119,785	60,128
Yellow poplar	50,770	56,899	71,989	38,151
All other	40,460	76,224	96,586	37,456
Imported, total	13,734	17,568	17,666	7,535
Mahogany	7,471	11,954	3,741	2,437
Spanish cedar	5,149	4,829	3,917	2,044
All other	1,114	785	10,008	3,054

[1] Data by "kind of wood" not called for on schedule for 1933.

Source: Bureau of the Census, Department of Commerce.

No. 685.—LATH AND SHINGLES: PRODUCTION

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	1926	3,083,130	7,510,433
1909	3,703,195	18,634,214	1927	2,372,333	8,054,835
1919	1,724,078	11,490,880	1928	1,903,887	7,004,613
1920	1,952,983	7,695,520	1929	1,705,858	7,633,340
1921	1,970,696	8,553,984	1930	1,097,255	4,955,138
1922	2,940,714	10,164,053	1931	614,250	3,392,465
1923	3,328,013	9,383,586	1932	406,089	2,639,125
1924	2,961,200	8,577,981	1933	408,192	3,662,250
1925	3,161,137	9,155,034	1934	416,308	3,477,063

State	Lath				Shingles			
	1931	1932	1933	1934	1931	1932	1933	1934
Alabama	11,686	8,870	2,915	2,935	4,029	2,560	2,438	2,867
Arkansas	4,492	2,485	8,553	5,595	4,333	3,171	200	4,230
California	15,418	9,392	7,829	10,397	38,370	20,999	61,121	78,826
Florida	51,316	30,348	30,626	34,876	23,925	7,180	7,208	14,281
Georgia	4,668	600	3,905	600	9,848	11,293	1,087	6,180
Idaho	37,358	13,676	18,393	33,315	----	5,415	13,966	16,851
Louisiana	25,760	29,887	18,033	16,713	25,676	23,323	24,572	24,899
Maine	4,792	10,529	14,644	10,559	80,335	48,489	38,486	54,731
Michigan	5,566	2,176	2,252	3,325	9,630	6,204	13,666	8,774
Minnesota	15,651	6,421	9,979	13,375	125	----	----	337
Mississippi	23,298	21,186	25,683	21,174	3,301	3,743	1,575	2,779
Montana	6,761	4,361	7,411	8,677	125	291	286	57
North Carolina	1,545	331	907	1,739	8,326	3,748	45	5,634
Oregon	103,015	61,535	69,170	61,243	278,221	227,446	306,524	326,019
South Carolina	1,846	550	527	1,080	6,026	3,849	14,313	14,030
Texas	9,781	11,680	12,844	10,684	686	1,000	1,031	4,274
Virginia	5,526	3,617	5,144	4,492	----	88	----	27
Washington	235,243	164,447	134,595	128,911	2,866,164	2,265,720	3,135,961	2,886,336
West Virginia	15,098	7,748	9,569	8,378	----	535	230	37
Wisconsin	19,801	6,550	9,604	15,154	32,710	2,543	38,178	22,372
All other	15,629	9,700	15,609	23,086	635	1,523	1,363	3,522

No. 686.—COOPERAGE STOCK: PRODUCTION OF STAVES, HEADING, AND HOOPS

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; and in 1933, 61,161,000, nearly all elm

Year and kind of wood	Staves (thousands)		Heading (thousand sets)	
	Tight	Slack[1]	Tight	Slack
1909	379,231	2,029,548	20,691	140,234
1919	353,825	1,121,324	24,274	87,381
1923	222,507	893,682	19,342	80,477
1925	240,023	937,597	23,052	71,371
1927	324,127	961,782	26,445	59,337
1929	357,353	1,039,450	30,329	72,591
1931	204,624	537,177	20,090	43,375
1933[2]	154,575	426,585	13,031	37,461
1931				
Ash	3,826	21,710	324	(3)
Basswood	(3)	(3)	(3)	787
Beech	----	(3)	----	600
Cottonwood	----	22,884	----	927
Douglas fir	44,946	20,799	5,638	627
Elm	----	36,366	----	(3)
Gum	18,397	160,375	920	3,721
Oak	78,968	6,394	6,752	583
Pine	32,072	198,125	4,269	28,271
Spruce	22,936	41,788	1,776	5,864
Tupelo	(3)	8,334	----	(3)
All other	3,479	20,402	411	1,995

Class and kind of wood	1931	1933	1931	1933
	Tight staves (thousands)		Tight heading (thous. sets)	
Total	204,624	154,575	20,090	13,031
Oil, tierce, and pork, total	93,621	80,099	7,662	4,664
Softwood	20,796	13,452	1,167	546
Hardwood	72,825	66,647	6,495	4,118
Spirit and wine, total	11,262	17,806	989	1,247
Softwood	444	90	125	7
Hardwood	10,818	17,716	864	1,240
Beer, hardwood	(4)	9,896	----	1,409
All other and not specified, total	99,741	46,774	11,439	5,711
Softwood	80,847	25,277	10,749	2,704
Hardwood	18,894	21,497	690	3,007
	Slack staves (thous. pieces)		Slack heading (thous. sets)	
Total	537,177	426,585	43,375	37,461
Softwood	267,405	266,748	35,405	32,898
Hardwood	269,046	159,837	7,225	4,563
Undistributed	726	----	745	----

[1] In thousand pieces. [2] Data not available by species for 1933. [3] Included in "All other." [4] Data for "Beer, hardwood" included with figure for "Hardwood" under "All other and not specified."

Sources of tables 685 and 686: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

No. 687.—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	1923	5,872,870	95,306	$16.23	1930	7,195,524	88,684	$12.32
1909	4,001,607	34,478	8.62	1925	6,093,821	94,340	15.48	1931	6,722,766	73,524	10.94
1914	4,470,763	39,408	8.81	1927	6,750,935	95,452	14.14	1932	5,633,123	51,769	9.19
1919	5,477,832	87,386	15.95	1928	7,160,100	97,024	13.55	1933	6,581,674	48,508	7.37
1921	4,557,179	91,589	20.10	1929	7,645,011	100,054	13.09	1934	6,796,659	52,506	7.73

Kind of wood	Total consumption (cords)						
	1919	1929	1930	1931	1932	1933	1934
Total	5,477,832	7,645,011	7,195,524	6,722,766	5,633,123	6,581,674	6,796,659
Spruce:							
Domestic	2,313,419	2,074,267	1,844,937	1,651,051	1,423,836	1,495,061	1,535,299
Imported	873,795	1,029,913	888,255	676,339	608,171	576,000	638,127
Hemlock:							
Domestic	795,154	1,309,170	1,222,961	1,185,272	806,230	1,112,556	1,428,116
Imported		15,379		5,776			
Yellow pine (southern)	234,463	1,036,272	1,030,273	1,294,503	1,279,832	1,560,414	1,459,171
Poplar:							
Domestic	180,160	329,466	291,897	266,603	192,461	353,438	241,001
Imported	158,220	157,829	159,092	94,238	85,693		92,271
Balsam fir:							
Domestic	181,840	317,552	330,548	338,790	243,224	261,466	290,385
Imported	106,974	45,412	48,935	55,601	47,835	41,465	86,647
Jack pine [1]	51,581	205,760	200,970	159,273	154,214	178,974	218,116
Beech, birch, and maple [2]	184,111	76,950	68,848	69,681	65,958	93,032	83,996
Tamarack (larch) [2]	44,042	51,835	40,054	35,433	15,052	21,844	12,267
Yellow poplar [2]	72,605	129,697	107,795	73,504	74,151	[3]	73,492
Gum [2]	30,355	39,685	41,825	22,440	17,553	[3]	[3]
White fir [2]	31,138	111,054	90,652	109,277	70,968	154,847	98,166
Other wood	44,894	153,485	232,980	126,942	105,868	252,436	303,161
Slabs and mill waste	175,081	561,285	595,502	558,043	441,477	480,141	236,444

[1] Principally domestic. [2] Domestic only. [3] Included with "Other wood."

No. 688.—WOOD PULP: TOTAL PRODUCTION, AND BY STATES AND PROCESSES

NOTE.—In 1934, 1,203,961 tons of mechanical pulp were not steamed and 94,243 tons steamed; of the sulphite and sulphate pulp, 1,816,480 tons were unbleached and 909,758 bleached

Year	Tons [1]	Year	Tons [1]	Year	Tons [1]	Year	Tons [1]
1899	1,179,525	1921	2,875,601	1929	4,862,885	1933	4,276,204
1909	2,495,523	1923	3,788,672	1930	4,630,308	1934	4,436,128
1914	2,893,150	1925	3,962,217	1931	4,409,344		
1919	3,517,952	1927	4,313,403	1932	3,760,267		

State and process [1]	1909	1919	1929	1931	1932	1933	1934
Principal States:							
Maine	620,705	916,764	981,433	889,416	764,834	778,670	833,107
Louisiana		[2]	246,590	260,765	289,021	382,983	339,602
New York	679,534	811,958	662,988	466,510	353,867	393,615	364,872
Wisconsin	324,509	506,549	733,617	586,271	476,228	515,470	494,300
Pennsylvania	135,525	215,686	213,083	160,023	130,149	123,758	127,541
New Hampshire	212,599	232,134	212,774	[2]	[2]	78,802	[2]
Michigan	64,369	106,194	178,015	150,111	153,323	153,674	169,270
Minnesota	37,295	129,560	189,664	148,369	134,509	154,522	137,096
Washington	[2]	83,575	523,948	580,016	420,529	583,770	709,380
Vermont	59,356	85,945	26,307	25,601	[2]	18,000	14,040
Virginia	48,641	[2]	206,050	223,417	207,660	241,803	235,221
California	83,692	123,990	256,546	237,532	187,133	189,332	240,167
Oregon							
Other States	229,298	305,597	431,870	681,313	643,014	661,805	771,532
Process:							
Mechanical	1,179,266	1,518,829	1,649,112	1,459,355	1,203,322	1,201,796	1,298,204
Sulphite	1,017,631	1,419,829	1,737,085	1,453,194	1,167,263	1,353,088	1,472,306
Soda	298,626	411,693	520,729	374,054	290,703	[3] 457,790	[3] 411,686
Sulphate		120,378	915,478	1,036,113	1,081,817	1,263,530	1,253,932
[4] Semichemical			[4] 40,481	[4] 86,628	67,162	[3]	[3]

[1] Beginning 1914 includes screenings except data by process for 1919. [2] Not shown separately.
[3] Soda includes semichemical pulp, also for 1933, data for a small quantity of pulp not covered by items specified to avoid disclosing production of individual establishments.
[4] Includes data for a small quantity of pulp not covered by items specified.

Source of tables 687 and 688: Bureau of the Census, Department of Commerce.

No. 689.—PAPER AND PAPER BOARDS: CENSUS STATISTICS OF PRODUCTION

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

Product	Quantity						Value			
	1927	1929	1931	1932 [1]	1933	1934 [1]	1927	1929	1931	1933
Paper and paper boards, total	10,002	11,140	9,382	7,998	9,190	9,186	872,207	903,301	631,106	521,553
Standard newsprint, in rolls and sheets	1,517	1,409	1,203	1,047	928	990	98,782	80,707	63,654	32,206
Hanging	113	101	86	61	66	92	9,035	7,294	5,800	3,346
Poster, novel, newstablet, lining, etc	183	151	136	(2)	156	(2)	15,573	11,743	9,624	8,035
Catalog		112	89	64	63	62		9,571	7,064	4,250
Book	1,329	1,498	1,209	946	1,080	1,055	160,869	168,272	120,283	83,244
Cover	26	28	24	14	13	17	5,938	6,430	4,372	2,104
Writing (fine)	509	608	488	424	478	415	105,148	113,224	77,865	61,330
Wrapping	1,525	1,606	1,402	1,244	1,440	1,357	162,580	163,442	110,885	95,768
Boards	3,774	4,451	3,848	3,303	4,076	4,073	211,264	227,742	149,112	161,181
Tissue	316	388	395	359	407	399	46,617	53,300	45,041	37,711
Absorbent	64	91	77	58	80	79	13,331	16,973	14,774	12,082
Building	626	659	395	294	328	328	40,062	39,376	18,129	14,060
All other	21	39	31	183	74	319	3,008	5,228	4,501	6,236

[1] Value not reported. [2] Included with "All other."

Source: Bureau of the Census, Department of Commerce.

No. 690.—TURPENTINE AND ROSIN PRODUCTION

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	1,904,674	1,904,674	(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
1925–26	27,261,425	[6] 23,922,250	[7] 3,339,175	1,903,370	[6] 1,578,866	[7] 324,504
1927–28	35,882,258	31,549,082	4,333,176	2,524,000	2,071,813	452,187
1929–30	35,940,124	31,320,871	4,619,253	2,454,186	1,975,631	478,555
1930–31 [7]	34,193,691	29,938,466	4,255,225	2,425,125	1,986,208	438,917
1931–32	27,499,514	24,349,024	3,150,490	1,904,397	1,570,885	333,512
1932–33 [7]	28,756,550	[8] 25,050,000	[9] 3,706,550	2,073,330	[8] 1,703,400	[9] 369,930
1933	29,152,200	[10] 25,500,000	3,652,200	2,149,019	[11] 1,700,000	449,019
1933–34 [7]	31,238,050	[8] 26,300,000	[9] 4,938,050	2,297,337	[8] 1,788,060	[9] 509,277
1934–35 [7]	30,154,650	[8] 25,500,000	[9] 4,654,650	2,229,122	[8] 1,734,000	[9] 495,122
1935–36 [7]	30,145,400	24,850,000	5,295,400	2,276,491	[12] 1,701,187	575,304

State	Production from crude gum [1]							
	Turpentine (gallons)				Rosin (barrels of 500 pounds)			
	1919	1929–30	1934–35	1935–36	1919	1929–30	1934–36 [13]	1935–36 [13]
Alabama	2,037,005	1,993,410	2,226,150	2,281,850	120,839	123,798	148,410	160,450
Florida	6,992,489	9,847,151	6,885,000	7,070,800	486,432	623,188	459,000	466,929
Georgia	3,997,310	15,938,491	14,440,650	13,772,500	234,690	1,002,446	962,710	909,407
Mississippi	1,749,812	1,267,776	451,350	502,250	115,984	81,683	30,090	32,271
Louisiana	1,885,231	1,032,900	247,350	236,650	112,900	70,580	16,490	15,311
Texas	906,404		298,350	103,300	60,179		19,890	5,657
North Carolina	125,590	1,241,143	104,550	47,800	7,636	73,936	6,970	3,250
South Carolina			846,600	834,850			56,440	53,716

[1] The figures of turpentine and rosin from crude gum from 1926 through 1936, and from wood for 1926, and from 1933 through 1936 refer to the crop year ended Mar. 31. All other figures relate to calendar years.
[2] Compiled from data reported by establishments engaged in the turpentine and rosin industry.
[3] Compiled from data reported by establishments engaged in the 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 the manufacture of lumber and timber products.
[6] Compiled by the Turpentine and Rosin Producers' Association.
[7] Compiled by the Bureau of Chemistry and Soils, Department of Agriculture.
[8] Complete data are not available. Data are estimates by J. E. Lockwood. Figures include estimates of rosin produced from reclaimed gum as follows: 1932–33, 33,400 barrels; 1933–34, 35,060; 1934–35, 34,000.
[9] Includes estimates by J. E. Lockwood for production of turpentine from steam-distilled wood.
[10] Includes 3,989,000 gallons reported to the Control Committee of the Marketing Agreement for Gum Turpentine and Gum Rosin Processors, but not reported directly to the Census Bureau.
[11] Includes 269,000 gallons computed upon the basis of 3½ barrels of rosin to each barrel of turpentine.
[12] Includes 54,187 barrels of rosin produced from reclaimed gum.
[13] Does not include rosin produced from reclaimed gum. See notes 8 and 12.

Source: Bureau of the Census, Department of Commerce, except as noted.

No. 691.—QUANTITY AND VALUE OF THE PRODUCTS OF THE FISHERIES OF SPECIFIED SECTIONS

NOTE.—Values in this table and tables 692 to 694 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
1928	603,598	25,619.9	123,326	4,231.1	239	45.5
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
1931	540,298	20,140.3	116,235	3,443.4	775	66.9
1932	480,521	14,001.3	90,602	2,413.3	744	57.7
1933	499,936	13,485.6	98,498	2,307.1	524	57.1

Calendar year	Massachusetts		Rhode Island		Connecticut	
		1,000 dollars		*1,000 dollars*	*1,000 pounds*	*1,000 dollars*
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	44,254	1,752.0	66,942	2,982.0
1919	246,951	10,859.7	48,251	3,296.6	23,653	1,700.6
1928	380,169	15,648.8	27,666	2,397.9	72,198	3,296.6
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
1931	355,834	12,951.0	21,683	1,662.8	45,771	2,016.2
1932	347,593	8,928.3	20,536	1,491.4	21,046	1,110.6
1933	373,670	9,507.0	17,366	1,001.3	9,878	613.1

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	4,390.0	74,827	3,069.0	4,380	280.0	70,769	541.0
1921	332,932	11,667.4	210,377	4,986.9	96,937	5,983.4	595	44.6	25,023	652.4
1929	190,773	14,137.6	47,259	5,061.7	110,002	8,730.7	42	9.3	33,470	335.9
1930	193,868	13,063.7	45,495	4,933.7	97,275	7,474.4	17	2.8	51,081	652.8
1931	104,899	9,211.2	50,994	2,974.1	92,846	5,854.2	76	4.7	20,983	378.2
1932	141,221	4,654.0	64,866	2,333.3	72,595	2,217.8	32	1.7	3,729	101.1
1933	169,754	4,811.1	39,911	2,452.6	93,264	2,146.3	52	3.0	36,527	209.2

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	12,746.4	59,531	4,198.7	471,219	8,541.7
1929	274,673	11,580.6	63,388	4,294.9	211,285	7,285.7
1930	316,393	11,472.0	71,099	3,984.7	245,294	7,487.3
1931	293,271	7,428.0	66,634	2,705.8	226,637	4,722.1
1932	359,007	5,905.0	61,626	1,939.7	297,381	3,965.3
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

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
1929	340,874	5,952.5	217,595	2,544.0	6,135	275.1	43,514	877.2	73,630	2,256.2
1930	275,807	4,270.0	168,938	1,836.4	5,106	252.9	34,873	536.3	66,890	1,644.4
1931	150,393	3,066.6	98,161	1,087.6	5,837	211.5	7,350	251.1	39,045	1,516.4
1932	154,304	2,383.5	86,214	826.7	4,536	123.4	16,523	185.9	47,031	1,247.5
1934	261,080	3,624.1	163,462	1,672.2	5,891	225.3	27,141	359.5	64,586	1,367.1

No. 691.—Quantity and Value of the Products of the Fisheries of Specified Sections—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
1929	194,521	8,951.2	72,323	3,863.7	9,025	410.3
1930	141,953	5,015.3	56,260	2,077.0	7,113	315.5
1931	138,917	6,794.9	45,009	3,001.4	6,168	222.8
1932	145,613	4,044.8	56,260	1,725.9	6,106	168.6
1934	186,834	6,369.6	54,215	2,267.6	7,964	263.4

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	10,439	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
1929	34,629	1,005.3	61,920	2,764.6	16,624	907.3
1930	15,736	740.1	49,886	1,960.4	15,693	777.5
1931	22,985	595.4	45,704	1,330.3	19,051	789.8
1932	20,603	497.4	48,340	1,180.6	14,304	472.3
1934	22,153	652.3	76,633	2,284.6	25,869	911.7

PACIFIC COAST STATES AND ALASKA

Calendar year	Pacific Coast States								Alaska	
	Total		Washington		Oregon		California			
	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	9,300.7	170,594	5,317.1	34,693	1,495.5	99,509	2,488.1	----------	----------
1925	627,025	24,580.5	139,457	9,476.4	40,008	3,442.4	447,560	11,661.7	----------	----------
1927	662,513	22,306.6	131,134	9,145.4	34,195	3,102.9	497,184	10,058.3	470,022	14,434.6
1928	705,112	20,512.8	88,991	7,500.8	27,474	2,686.3	588,647	10,325.7	699,289	17,797.3
1929	1,034,434	25,038.4	152,224	9,562.8	25,284	2,605.2	856,926	12,870.4	651,423	17,084.3
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
1931	597,307	13,512.2	140,491	5,121.8	25,819	1,282.2	430,997	7,108.2	598,125	10,043.4
1932	560,828	9,484.3	94,959	3,378.0	22,986	728.7	442,883	5,377.6	606,520	7,062.5
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

GREAT LAKES

Calendar year	Total [1]		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 [2]	81,327	6,794.9	15,302	918.1	23,681	2,354.8	15,711	1,444.4	23,796	1,831.3
1928 [2]	63,368	5,960.8	13,132	772.7	17,999	2,332.5	9,943	1,024.0	19,643	1,573.9
1929 [2]	85,389	6,787.7	17,148	835.2	35,616	3,460.9	10,477	927.5	18,643	1,268.1
1930 [2]	94,948	6,050.3	14,694	695.3	30,973	2,159.0	16,377	1,319.9	29,540	1,655.5
1931 [2]	91,727	6,029.2	11,281	627.8	25,059	1,991.5	17,727	1,510.2	34,772	1,698.9
1932 [2]	83,744	4,331.8	10,173	379.3	20,692	1,236.3	15,848	1,143.1	33,670	1,430.3
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

[1] Includes in addition to the lakes shown small amounts for Lake Ontario and also prior to 1926, Lake St. Clair and St. Clair and Detroit Rivers and beginning 1926, Lake-of-the-Woods, Namakan Lake, and Rainy Lake.

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

No. 691.—Quantity and Value of the Products of the Fisheries of Specified Sections—Continued

MISSISSIPPI RIVER AND TRIBUTARIES

Year	Total	
	1,000 pounds	*1,000 dollars*
1894	44,545	1,384.6
1899	96,797	1,781.0
1903	93,374	1,841.2
1908	148,284	3,125.0
1922	105,734	4,503.5
1931	82,383	2,897.4
Mississippi River [3]		
1894	21,242	587.8
1899	68,604	823.0
1903	53,851	1,157.4
1922	33,945	1,645.3
1931	28,139	1,076.3

Tributary	1922		1931	
	1,000 pounds	*1,000 dollars*	*1,000 pounds*	*1,000 dollars*
Arkansas River [4]	2,034	136.3	777	49.9
Atchafalaya River [5]	4,579	254.7	9,231	523.1
Cumberland River	728	14.7	106	13.0
Illinois River [6]	12,661	617.3	5,985	159.7
Missouri River [6]	1,232	105.2	1,051	94.3
Ohio River [3]	7,458	379.1	1,221	96.5
Red River [6]	6,677	324.5	6,417	277.4
St. Francis River [6]	3,684	108.9	2,173	65.6
Tennessee River [6]	4,990	98.3	5,222	75.0
Wabash River [6]	12,063	357.8	8,388	152.0
White River (Missouri and Arkansas) [6]	14,662	405.9	12,363	256.7
Yazoo River [4]	1,022	55.6	1,311	57.8

[3] Including minor tributaries. [4] Includes tributaries in 1931. [5] Not included with Mississippi River and tributaries, 1899 to 1908. [6] Including tributaries.

No. 692.—SUMMARY OF THE FISHERIES OF THE UNITED STATES AND ALASKA, 1934

Section	Fishermen	Fishing vessels	Fishing boats	Products	
				Quantity	Value
	Number	*Number*	*Number*	*1,000 pounds*	*1,000 dollars*
Total	123,264	4,099	67,649	3,950,779	74,163
New England States [1]	17,073	595	8,400	499,936	13,486
Middle Atlantic States [1]	8,574	407	3,870	169,753	4,811
Chesapeake Bay States	20,591	277	12,717	289,011	5,943
South Atlantic and Gulf States	24,898	740	14,398	447,914	9,994
Pacific Coast States	19,232	954	6,373	1,546,102	19,950
Lake States	7,579	490	3,070	96,411	5,124
Mississippi River States [2]	15,884		14,546	82,383	2,897
Alaska	9,433	636	4,275	819,269	11,958

[1] Figures for the New England and Middle Atlantic States are for 1933.
[2] Figures for the Mississippi River States are for 1931.

No. 693.—FISHERY PRODUCTS LANDED AT SEATTLE, WASH., BY UNITED STATES VESSELS AND FISH RECEIVED BY SEATTLE WHOLESALE DEALERS

Species	Quantity in thousands of pounds				Value in dollars			
	1932	1933	1934	1935	1932	1933	1934	1935
Grand total	42,266	43,353	44,363	48,291	1,797,611	2,443,235	2,754,582	3,008,581
Landed by U. S. vessels [1]	24,142	24,085	23,944	25,157	1,055,607	1,491,970	1,648,127	1,869,768
Halibut	21,841	22,127	20,559	21,406	995,634	1,431,431	1,522,237	1,732,739
Sablefish	1,691	1,280	2,259	2,813	42,022	39,765	86,001	105,969
Lingcod	379	471	737	675	10,995	13,735	24,900	21,195
Rockfishes	231	207	389	263	6,956	7,039	14,989	9,865
Received by wholesale dealers [2]	18,124	19,268	20,419	23,134	742,004	951,265	1,106,455	1,138,813
Salmon:								
Humpback or pink	7	2,524	5	1,611	74	63,751	103	37,465
Chum or keta	3,674	3,985	3,864	5,392	45,482	111,691	94,760	168,923
King or spring	7,824	5,127	7,189	4,749	445,768	367,802	585,485	353,230
Coho or silver	4,601	4,759	6,240	6,949	165,393	272,337	302,182	398,301
Sockeye or red	23	391	53	143	1,327	30,808	4,026	18,417
Trout, steelhead	114	237			6,403	17,828		
Smelt	191	258	440	437	6,630	12,032	17,048	16,690
Sole	336	548	954	2,083	7,895	15,350	32,265	55,146
Crabs	876	595	602	712	48,218	36,000	40,456	53,288
Miscellaneous	478	844	1,072	1,058	14,814	23,666	30,130	37,353

[1] Halibut fleet. [2] Does not include fish received from Alaska or Canada.

Source of Tables 691, 692, and 693: Bureau of Fisheries, Department of Commerce.

No. 694.—FISHERIES: PRODUCTS LANDED AT BOSTON AND GLOUCESTER, MASS., AND PORTLAND, MAINE, BY FISHING VESSELS

Port and calendar year	Total, all species	Cod	Haddock	Hake	Pollock	Cusk	Halibut	Mackerel	Miscellaneous
	Quantity in thousands of pounds								
All three ports:									
1924	182,948	61,449	79,902	7,285	5,085	3,406	4,422	9,758	11,643
1925	216,869	67,250	91,886	5,806	5,290	3,713	3,561	26,210	13,153
1926	238,426	78,219	94,061	5,505	6,740	2,728	3,431	36,233	11,511
1927	263,850	63,355	128,593	5,862	7,663	2,727	4,779	31,530	19,341
1928	277,982	59,302	155,331	8,423	8,040	2,358	3,385	24,253	16,890
1929	327,096	50,647	187,204	12,051	10,565	3,483	2,696	37,743	22,707
1930	350,801	66,616	189,371	15,618	13,980	4,433	2,581	33,513	24,689
1931	263,685	60,645	132,846	7,755	7,631	4,265	2,571	29,524	18,448
1932	252,334	59,551	120,117	7,745	7,850	3,069	2,356	38,096	13,550
1933	267,157	73,842	129,862	7,197	12,395	3,430	2,139	22,444	15,848
1934	311,278	90,619	134,674	7,178	21,312	3,932	1,888	30,547	21,128
1935	373,118	88,092	157,002	10,587	27,885	5,524	2,345	40,848	40,835
Boston:									
1933	232,583	61,250	122,886	5,221	8,262	2,498	1,756	17,358	13,352
1934	255,055	72,423	125,663	4,297	9,214	2,621	1,753	21,006	18,078
1935	307,372	70,750	147,785	8,098	13,754	3,877	2,036	27,014	34,058
Gloucester:									
1933	21,737	9,518	2,558	489	3,398	280	5	4,037	1,452
1934	40,130	13,320	4,897	563	11,142	189	5	8,295	1,719
1935	51,264	13,355	4,799	227	13,283	180	224	13,784	5,412
Portland:									
1933	12,837	3,074	4,417	1,486	735	652	379	1,050	1,044
1934	16,093	4,876	4,114	2,318	956	1,122	130	1,246	1,331
1935	14,482	3,987	4,418	2,262	848	1,467	85	50	1,365
	Value in thousands and tenths of thousands of dollars								
All three ports:									
1924	6,993.0	2,138.3	2,308.6	186.1	159.4	68.1	789.6	541.0	801.0
1925	8,115.6	2,321.2	2,747.7	173.7	147.6	84.6	655.2	1,191.0	794.4
1926	9,068.6	2,647.5	3,082.9	146.2	153.7	69.6	671.2	1,406.0	891.0
1927	9,404.5	2,146.5	3,531.7	156.5	171.8	71.4	839.9	1,295.0	1,191.0
1928	10,849.1	2,198.7	5,036.5	221.7	174.4	62.7	609.0	1,355.9	1,190.2
1929	13,051.7	1,983.5	6,845.3	405.1	243.5	102.9	484.5	1,382.4	1,604.5
1930	12,785.5	2,208.1	6,645.8	394.9	263.8	113.2	443.0	1,157.6	1,559.1
1931	9,249.3	1,758.4	4,434.4	178.0	113.7	83.2	375.9	1,225.7	1,080.0
1932	6,083.9	1,301.5	2,906.8	136.6	85.7	45.8	261.2	618.4	727.9
1933	6,850.9	1,641.7	3,374.0	144.3	158.8	49.3	226.1	498.2	758.5
1934	8,261.3	2,324.1	3,753.7	188.0	329.4	78.4	217.7	552.5	817.5
1935	9,004.7	2,096.0	3,877.6	245.2	532.6	109.5	229.8	724.6	1,189.4
Boston:									
1933	6,093.6	1,361.0	3,205.0	111.8	105.9	38.2	191.0	402.5	678.2
1934	7,110.3	1,875.3	3,536.6	122.5	158.8	52.7	206.1	422.6	735.7
1935	7,732.8	1,698.3	3,694.1	196.1	276.9	76.2	205.4	540.1	1,045.7
Gloucester:									
1933	441.9	209.2	52.9	9.3	47.6	1.7	.4	82.8	38.0
1934	755.7	323.4	102.2	16.8	160.7	2.4	.3	116.6	33.3
1935	935.0	301.8	79.5	5.0	246.6	1.8	14.5	183.5	102.3
Portland:									
1933	315.3	71.5	116.0	23.2	5.4	9.2	34.7	12.9	42.4
1934	395.3	125.4	114.9	48.7	9.9	23.3	11.3	13.3	48.5
1935	336.9	95.9	104.0	44.1	9.1	31.5	9.9	1.0	41.4

No. 695.—CANNED FISHERY PRODUCTS AND BY-PRODUCTS OF THE UNITED STATES AND ALASKA: VALUE

NOTE.—Values in thousands of dollars. See also census statistics of fish canning, tables 671 and 775

Product	1928	1929	1930	1931	1932	1933	1934	1935
Total value	110,753	124,833	106,579	79,514	56,216	77,258	102,344	104,480
Salmon	54,638	56,086	42,835	38,083	26,460	36,242	45,818	32,475
California sardines	9,659	11,997	8,742	4,715	2,358	3,805	5,481	6,237
Maine and Massachusetts sardines	8,076	6,898	4,459	2,647	1,370	2,397	3,315	3,143
Tuna and tunalike fishes	8,374	9,873	13,056	7,279	6,183	6,934	10,010	12,824
Shrimps and crabs	5,226	5,559	5,017	3,995	2,676	3,623	4,595	4,840
Clams	2,624	2,548	2,666	2,257	1,797	1,766	2,713	2,677
Oysters	2,761	2,732	1,837	964	1,008	1,076	1,722	2,045
Miscellaneous canned products	4,514	5,372	4,246	3,009	1,897	3,957	6,209	8,753
Menhaden—meal, scrap, and oil	3,440	3,630	2,674	1,140	1,180	1,587	2,328	2,636
Miscellaneous byproducts	11,441	20,138	21,047	15,425	11,286	15,871	20,152	26,850

Source of tables 694 and 695: Bureau of Fisheries, Department of Commerce.

No. 696.—CANNED SALMON OUTPUT, UNITED STATES AND ALASKA

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

Specie	Quantity				Value			
	Total	Washington	Oregon and California	Alaska	Total	Washington	Oregon and California	Alaska
Total, all species:								
1928	6,926.8	497.4	345.5	6,083.9	54,638.1	5,024.0	4,230.2	45,383.9
1929	6,990.7	1,278.5	342.1	5,370.1	56,085.7	10,922.4	4,693.9	40,469.4
1930	6,086.4	708.7	345.2	5,032.5	42,835.9	8,364.4	4,775.6	29,695.9
1931	6,740.0	1,068.7	267.5	5,403.8	38,083.2	6,134.1	2,852.2	29,096.9
1932	5,909.0	412.3	242.2	5,254.5	26,460.1	2,632.2	2,112.0	21,715.9
1933	6,302.5	848.9	288.0	5,225.6	36,241.9	5,217.4	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
Coho or silver:								
1933	243.3	46.8	33.9	162.6	1,382.1	294.0	243.0	845.0
1934	371.7	71.9	63.7	236.1	2,303.5	509.2	560.6	1,233.7
1935	366.6	88.9	87.6	190.1	2,621.0	652.8	751.0	1,217.2
Chum or keta:								
1933	735.6	49.8	27.0	658.8	3,012.2	197.2	102.1	2,712.8
1934	855.3	88.2	26.4	740.7	3,149.3	347.7	99.8	2,701.8
1935	897.8	25.4	19.5	852.9	3,441.3	101.4	70.8	3,269.1
Humpback or pink:								
1933	2,722.7	540.2	----------	2,182.6	12,235.7	2,361.9	----------	9,873.7
1934	3,827.7	3.6	----------	3,824.1	15,685.3	19.5	----------	15,665.8
1935	3,620.7	376.6	----------	3,244.1	15,026.9	1,606.5	----------	13,420.4
King, chinook, or spring:								
1933	322.4	74.6	206.5	41.4	3,071.4	677.2	2,083.1	311.2
1934	328.9	74.1	196.9	52.9	3,166.5	766.1	2,038.4	362.0
1935	257.7	67.3	154.0	36.4	2,885.6	736.3	1,832.6	316.7
Red or sockeye:								
1933	2,320.9	134.1	6.5	2,180.3	16,379.4	1,658.1	88.0	14,633.3
1934	2,988.3	355.2	5.1	2,628.0	21,359.6	3,630.7	80.2	17,648.7
1935	870.5	60.1	.8	809.6	8,367.9	811.5	11.7	7,544.7
Steelhead:								
1933	17.6	3.5	14.1	----------	161.2	28.9	132.3	----------
1934	16.1	3.1	13.0	----------	153.7	19.9	133.8	----------
1935	14.6	2.5	12.1	----------	132.6	21.8	110.8	----------

Source: Bureau of Fisheries, Department of Commerce.

No. 697.—ALASKA FISHERY INDUSTRIES: SUMMARY OF PRODUCTS

Product	Unit	Quantity in thousands of unit specified					Value in thousands of dollars				
		1925	1930	1933	1934	1935	1925	1930	1933	1934	1935
Total	----------	-------	-------	-------	-------	-------	40,039	37,679	32,123	41,963	31,231
Salmon:											
Canned	Case	4,460	5,032	5,226	7,482	5,133	31,990	29,695	28,376	37,612	25,768
Fresh and frozen	Pound	5,193	7,909	4,860	6,829	7,468	395	679	252	405	440
Cured, all forms	do	6,895	6,979	6,358	5,360	6,853	1,297	1,096	752	703	1,093
By-products	do	1,738	2,703	1,181	1,268	1,539	60	62	20	29	32
Halibut, fresh and frozen	do	10,972	31,557	14,069	13,221	9,806	884	2,991	726	805	608
Herring:											
Fresh and frozen	do	-------	79	-------	-------	40	-------	4	-------	-------	1
Cured for food	do	35,171	8,765	13,507	8,276	16,582	2,323	496	620	475	851
Bait	do	7,087	9,298	4,472	6,392	5,959	39	103	39	52	51
By-products	do	34,806	50,002	45,317	55,738	58,566	1,490	1,531	744	1,076	1,471
Cod	do	2,854	322	338	493	148	129	17	13	20	7
Sablefish	do	1,043	449	103	215	565	45	21	5	9	23
Other fish	do	142	484	119	342	288	10	26	3	9	6
Shrimps	do	520	514	319	381	384	207	211	102	120	129
Crabs	do	206	107	571	643	499	53	35	156	208	163
Clams	do	2,066	853	523	391	446	492	242	246	189	198
Whales:											
Oil	do	7,224	7,034	2,344	6,656	7,696	556	417	55	213	359
Fertilizer	do	2,444	2,340	1,034	2,698	2,678	57	51	14	38	31
All other	do	797	43	-------	-------	-------	12	2	-------	-------	-------

Source: Bureau of Fisheries, Department of Commerce.

No. 698.—CANNED SALMON: OUTPUT AND PRICES OF ALASKA PRODUCT

Yearly average or year	Total value of pack (thousands of dollars)	Output, equivalent in thousands of cases of forty-eight 1-pound cans						Average price in dollars per case of forty-eight 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	10.26
1921	19,633	2,597	107	255	424	45	1,766	5.63	3.68	4.21	10.22	8.96
1922	29,787	4,502	176	566	1,658	31	2,071	5.47	3.98	4.34	8.08	9.24
1923	32,873	5,036	164	526	2,448	38	1,859	5.74	4.65	4.86	8.56	9.24
1924	33,007	5,295	184	1,028	2,601	34	1,448	6.83	4.68	4.93	8.89	9.53
1925	31,990	4,460	161	1,079	2,111	50	1,060	9.72	4.44	5.28	11.91	13.12
1926	46,080	6,653	203	902	3,338	52	2,157	8.40	5.01	5.39	10.37	9.89
1927	30,016	3,572	253	508	1,421	70	1,320	8.51	5.47	5.87	11.25	12.08
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	29,695	5,032	332	600	3,189	60	851	8.26	3.60	4.17	13.32	12.57
1931	29,096	5,404	170	534	2,954	52	1,694	6.51	3.19	3.46	9.40	9.20
1932	21,716	5,254	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

No. 699.—FISH PROPAGATION: OUTPUT OF FISH EGGS, FRY, AND FINGERLINGS, BY UNITED STATES BUREAU OF FISHERIES, YEARS ENDED JUNE 30

[All quantities expressed in thousands]

Year	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	131.56
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
1926	5,232,373	737,136	4,195,942	299,295	142.59
1927	6,481,073	1,523,458	4,767,113	190,502	116.30
1928	7,036,317	2,253,244	4,521,439	261,634	119.37
1929	7,060,369	2,861,236	4,062,948	136,185	125.55
1930	7,570,482	2,553,481	4,766,831	250,170	120.50
1931	7,121,805	2,327,421	4,474,344	320,040	138.41
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

Species	1935			Species	1935		
	Eggs	Fry	Fingerlings		Eggs	Fry	Fingerlings
Catfish	160		16,486	Pike and pickerel			37
Buffalofish	191,377	47	3,381	Crappie			6,968
Carp	87,400	142	8,285	Black bass:			
Shad		11,430	3	Largemouth		561	2,545
Whitefish	50	39,239		Smallmouth		1,148	240
Lake herring (cisco)	320	2,320		Rock bass			236
Chinook salmon			22,521	Warmouth bass			37
Chum salmon		15,454		Sunfish			10,603
Silver salmon	183		2,097	Pike perch	510,075	5,620	
Sockeye salmon			1,860	Yellow perch		451,000	402
Steelhead salmon	50	47	1,153	White perch		1,920	
Atlantic salmon	775		85	Freshwater drum			4
Landlocked salmon			139	White bass			35
Rainbow trout	3,357	15	9,983	Miscellaneous fishes			2,044
Blackspotted trout	3,851		22,324	Mackerel		2,123	
Lock Leven trout	9,052	7,139	5,721	Cod	1,679,043		
Lake trout	2,306	1,663	106	Haddock	236,836		
Brook trout	10,160	2,080	16,299	Flatfish (flounder)	336,312	918,518	
Grayling	1,184			Pollock	309,304	95,782	

[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.

Sources of tables 698 and 699: Bureau of Fisheries, Department of Commerce.

31.—MINING AND MINERAL PRODUCTS

[Data in this section cover the following areas unless otherwise indicated: Bureau of Census and American Iron and Steel Institute statistics, continental United States; Bureau of Mines production statistics, continental United States, and, for leading products, outlying areas; foreign trade statistics, United States customs area, which includes Alaska, Hawaii, Puerto Rico, and, beginning Jan. 1, 1935, the Virgin Islands. Index numbers of mineral production are shown in table 778, p. 766]

No. 700.—TOTAL VALUE OF MINERAL PRODUCTS OF THE UNITED STATES

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

Yearly average or year	Total	Metallic	Nonmetallic	Unspecified
1881–1885	426	191	229	6
1886–1890	541	248	292	1
1891–1895	592	244	347	1
1896–1900	828	366	461	1
1901–1905	1,302	578	813	1
1906–1910	1,887	769	1,118	(1)
1911–1915	2,220	820	1,399	1
1916–1920	5,124	1,796	3,322	5
1921–1925	5,151	1,153	3,994	5
1926–1930	5,556	1,273	4,275	9
1931–1935	3,039	505	2,523	11
1909	1,887	755	1,132	(1)
1910	1,988	750	1,238	(1)
1911	1,924	681	1,243	(1)
1912	2,238	862	1,375	(1)
1913	2,434	879	1,554	(1)
1914	2,111	687	1,424	(1)
1915	2,395	992	1,400	2
1916	3,508	1,621	1,884	3
1917	4,992	2,086	2,900	6
1918	5,541	2,153	3,381	7
1919	4,596	1,360	3,233	3
1920	6,981	1,762	5,214	5
1921	4,139	654	3,482	3
1922	4,647	987	3,656	4
1923	5,987	1,511	4,472	4
1924	5,306	1,232	4,068	6
1925	5,678	1,380	4,291	6
1926	6,214	1,403	4,803	8
1927	5,530	1,218	4,304	8
1928	5,385	1,285	4,092	9
1929	5,888	1,476	4,401	10
1930	4,765	983	3,773	9
1931	3,167	567	2,592	7
1932	2,462	284	2,172	6
1933	2,555	411	2,133	11
1934	3,325	540	2,770	15
1935	3,688	722	2,950	16

[1] Less than $500,000.

Source: Bureau of Mines, Department of the Interior.

No. 701.—YEARLY AVERAGE PRICES OF NONFERROUS METALS

[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
1913	15.269	4.370	44.252	5.504	23.63	7.520	39.54	44.88
1914	13.602	3.862	34.301	5.061	18.60	8.763	48.31	45.14
1915	17.275	4.673	38.590	13.054	34.13	30.280	87.01	47.13
1916	27.202	6.858	43.480	12.634	60.73	25.370	125.49	83.40
1917	27.180	8.787	61.802	8.730	51.25	20.690	106.30	102.82
1918	[8] 24.628	7.413	[9]	7.890	33.60	12.581	123.47	105.95
1919	18.691	5.759	63.328	6.988	32.14	8.190	92.15	114.61
1920	17.456	7.957	49.101	7.671	30.61	8.485	81.12	110.90
1921	12.502	4.545	29.916	4.655	21.21	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	6.759	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	122.14	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

[1] Flasks of 75 pounds prior to 1928; 76 thereafter.
[2] 99 percent tin, 1896–1919; Straits tin thereafter.
[3] Prices 1896 to 1929 for pure aluminum (No. 1 virgin 98–99 percent); beginning 1930, for 99 percent + virgin ingot.
[4] Prices 1896 to 1898 are for Lake copper.
[5] Data are for New York zinc.
[6] Average for 1899 and 1900 only.
[7] Average, 1903–5; average for New York zinc, 1901–5, 5.058 cents.
[8] Average of 11 months.
[9] No average computed.

Sources: Engineering and Mining Journal; American Metal Market for aluminum, 1909–35.

No. 702.—MINES AND QUARRIES, PRODUCING AND NONPRODUCING: PRINCIPAL STATISTICS FOR CONTINENTAL UNITED STATES, 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	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	207,554	203,568	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. 703.—PRODUCING MINES AND QUARRIES: PRINCIPAL STATISTICS, CONTINENTAL UNITED STATES

	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 702 and 703: Bureau of the Census, Department of Commerce.

No. 704.—PRODUCING MINES AND QUARRIES: SUMMARY, BY STATES

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	49,168	4,750	3,545	10,581	10,401
West North Central	1,270	1,166	55,948	40,634	330,264	489,585	74,651	54,231	211,597	220,161
Minnesota	196	143	17,265	11,370	144,199	198,182	29,383	17,767	130,399	130,359
Iowa	226	207	11,274	6,766	32,166	38,945	12,466	8,806	18,474	14,648
Missouri	494	401	14,857	12,793	100,070	147,986	16,777	15,538	33,366	43,479
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	283,629
Kentucky	864	617	41,444	57,569	135,098	310,664	46,905	62,442	75,157	102,502
Tennessee	263	167	14,470	11,441	56,675	73,772	12,987	10,333	23,292	22,050
Alabama	348	242	32,579	31,674	145,775	265,666	36,230	30,693	59,866	53,363
Arkansas	126	121	3,614	4,744	20,748	30,620	4,547	4,565	7,783	9,796
Louisiana and Mississippi	4	2	387	94	6,886	590	469	100	8,001	220
Oklahoma	284	245	12,734	10,047	94,939	98,481	16,060	13,318	34,430	31,560
Texas	81	104	4,565	5,190	21,514	60,394	4,989	6,151	17,041	44,334
Mountain	1,598	1,094	79,234	78,898	700,398	980,410	127,508	132,711	299,454	397,995
Montana	269	169	16,091	14,575	143,473	201,749	25,666	25,718	49,666	64,774
Idaho	83	65	2,455	4,226	31,059	67,295	4,202	7,420	11,840	20,746
Wyoming	87	73	7,532	5,282	49,864	50,855	11,090	9,664	19,969	18,817
Colorado	523	333	16,710	14,493	114,448	116,592	25,263	22,267	51,063	41,205
New Mexico	103	89	7,100	6,986	59,876	90,961	10,494	10,118	18,873	27,142
Arizona	172	134	15,268	16,533	165,076	201,456	26,193	28,238	88,478	116,135
Utah	154	131	9,847	12,149	85,816	179,475	17,197	21,225	41,511	82,843
Nevada	207	104	4,231	4,686	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: Bureau of the Census, Department of Commerce.

No. 705.—PRODUCING MINES AND QUARRIES: SUMMARY BY INDUSTRIES, CONTINENTAL UNITED STATES

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	376	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	1,086	392	2,188	1,185
Stone:										
Limestone	925	1,256	22,069	32,300	213,717	535,466	23,926	39,188	52,944	117,258
Granite	381	434	8,049	10,037	55,614	108,217	8,588	12,640	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	295	1,255	750	5,124
Barite	98	44	919	844	3,029	6,066	769	648	1,592	1,801
Clay	350	236	5,453	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: Bureau of the Census, Department of Commerce.

No. 706.—PRODUCING MINES AND QUARRIES: SIZE OF ENTERPRISES ACCORDING TO NUMBER OF WAGE EARNERS, CONTINENTAL UNITED STATES, 1929

Industry and wage earners per enterprise	Number of enterprises	Number of mines and quarries	Wage earners	
			Average for year	Per cent
All industries [1]	10,099	11,568	806,418	100.0
Not reported	31	34		
1 to 5	2,742	2,799	8,194	1.0
6 to 20	3,004	3,217	34,079	4.2
21 to 50	1,611	1,795	53,183	6.6
51 to 100	1,055	1,201	76,362	9.5
101 to 250	988	1,267	158,623	19.7
251 to 500	416	607	145,883	18.1
501 to 1,000	169	274	110,931	13.8
1,001 to 2,500	60	188	87,279	10.8
2,501 and over	23	184	131,884	16.3
Anthracite	198	303	142,801	100.0
1 to 5	31	31	85	.1
6 to 20	20	21	221	.2
21 to 50	21	21	710	.5
51 to 100	17	18	1,113	.8
101 to 250	32	34	5,052	3.5
251 to 500	19	19	6,983	4.9
501 to 1,000	34	36	23,291	16.3
1,001 to 2,500	11	24	17,255	12.1
2,501 and over	13	99	88,091	61.6
Bituminous coal	4,976	5,620	458,732	100.0
1 to 5	1,384	1,384	3,979	.9
6 to 20	1,109	1,123	12,316	2.7
21 to 50	676	720	23,169	5.1
51 to 100	619	692	45,624	9.9
101 to 250	708	830	114,505	25.0
251 to 500	334	472	116,890	25.4
501 to 1,000	105	196	67,093	14.6
1,001 to 2,500	34	142	47,404	10.3
2,501 and over	7	61	27,752	6.1
Copper	143	180	44,502	100.0
Not reported	2	2	104	.2
1 to 5	33	33		
Copper—Continued.				
6 to 20	40	41	496	1.1
21 to 50	14	17	398	.9
51 to 100	12	13	877	2.0
101 to 250	11	13	1,859	4.2
251 to 500	10	15	3,393	7.6
501 to 1,000	7	9	5,096	11.5
1,001 to 2,500	11	13	32,279	72.5
2,501 and over	3	24		
Limestone	1,165	1,254	32,300	100.0
1 to 5	283	286	897	2.8
6 to 20	438	465	5,400	16.7
21 to 50	288	312	9,313	28.8
51 to 100	107	119	7,436	23.0
101 to 250	41	58	6,398	19.8
251 to 500	6	6	2,856	8.9
501 to 1,000	2	8		
Iron ore	180	208	28,516	100.0
1 to 5	7	7	20	.1
6 to 20	13	13	153	.5
21 to 50	29	32	949	3.3
51 to 100	45	46	3,452	12.1
101 to 250	59	76	9,663	33.9
251 to 500	16	20	5,262	18.5
501 to 1,000	10	11	9,017	31.6
1,001 to 2,500	1	3		
Sand and gravel	957	1,185	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. 707.—PRODUCING MINES AND QUARRIES, HOURS OF LABOR, 1929

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

Industry	Wage earners (average for the year)—total	Wage earners in mines where the prevailing hours of labor per week were—						
		Under 36	36 and over but under 40	40	Over 40 but under 48	48	Over 48 but under 63	63 and over
All industries	792,395	51,023	5,764	29,293	26,506	528,394	144,091	7,324
Coal, anthracite	142,801	912		30	3,186	138,226	*447*	(x)
Coal, bituminous	447,125	49,602	5,587	26,842	14,589	320,718	29,427	360
Copper	44,234	(x)			(x)	24,416	*19,818*	
Limestone	31,578	*118*	(x)	450	307	4,652	25,052	999
Iron ore	28,516			*424*	974	15,103	*12,015*	(x)
Sand and gravel	15,994	*70*	(x)	273	339	1,273	11,850	2,189
Lead	13,831	(x)				*6,634*	6,734	463
Zinc	11,861		(x)		(x)	5,897	*5,862*	102
Granite	9,806	44	97	595	4,239	2,326	2,505	
Gold, lode	5,079	(x)				*1,971*	*3,108*	(x)
Gold, placer	534	(x)				*39*	495	
Clay	4,139	*78*	(x)	*98*	281	744	2,021	917
Slate	4,027	[1]91		(x)	*925*	52	*2,959*	(x)
Marble	3,308	(x)	(x)		*217*	94	*2,997*	(x)
Basalt	3,016			*127*	(x)	406	2,392	91
Silver	2,451	(x)				*90*	*2,361*	(x)
Sandstone	2,058	(x)		*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 706 and 707: Bureau of the Census, Department of Commerce.

No. 708.—MINERAL PRODUCTION, BY STATES

NOTE.—Iron ore, not pig iron, is taken as the basis of valuation of iron and in the case of other metals, mine production (recoverable content of metals) is the basis

[Values in thousands of dollars]

Division and State	1928	1929	1930	1931	1932	1933	1934
Continental United States	4,708,113	5,164,963	4,249,935	2,854,199	2,285,307	2,320,745	3,032,682
New England	49,053	49,101	40,619	32,370	21,383	16,699	17,280
Maine	5,923	6,749	6,228	4,889	3,174	2,594	2,352
New Hampshire	3,816	3,726	3,337	2,796	1,352	1,457	1,149
Vermont	14,649	14,603	11,637	8,422	6,401	5,793	4,853
Massachusetts	16,234	16,031	12,723	11,170	8,039	4,917	6,165
Rhode Island	831	940	1,209	793	506	387	485
Connecticut	7,600	7,053	5,485	4,300	1,911	1,551	2,276
Middle Atlantic	1,060,381	1,074,167	935,351	714,283	497,983	487,367	626,569
New York	108,026	109,361	99,622	78,007	50,176	42,940	54,626
New Jersey	70,865	71,892	57,206	41,633	23,073	22,580	25,010
Pennsylvania	881,490	892,914	778,523	594,643	424,734	421,847	546,933
East North Central	642,488	676,012	543,627	364,475	236,421	261,371	317,200
Ohio	211,041	220,061	186,972	130,928	87,997	91,146	116,988
Indiana	98,584	96,962	79,227	50,852	34,603	34,011	39,417
Illinois	188,099	182,791	148,311	103,066	71,693	74,837	89,212
Michigan	123,826	151,976	111,406	62,786	34,714	54,223	61,831
Wisconsin	20,938	24,222	17,711	11,843	7,414	7,154	9,752
West North Central	348,016	392,950	325,710	192,733	133,564	165,857	206,243
Minnesota	108,275	136,350	103,931	55,275	12,273	42,472	48,330
Iowa	35,499	35,955	33,358	21,615	18,523	15,155	19,326
Missouri	74,981	78,948	69,074	41,806	19,245	30,588	32,955
North Dakota	3,083	3,466	3,056	2,271	2,386	2,961	2,550
South Dakota	9,443	8,914	11,076	11,339	11,118	14,659	19,173
Nebraska	3,455	4,845	4,962	3,623	1,548	2,047	2,791
Kansas	113,280	124,472	100,253	56,804	58,471	57,975	81,118
South Atlantic	440,831	450,973	380,543	289,619	199,741	218,481	305,188
Delaware	482	467	425	395	300	135	272
Maryland	18,418	18,470	14,990	11,330	7,234	7,015	10,128
District of Columbia	1,031	1,065	1,288	282	1,819	423	407
Virginia	38,770	39,753	34,603	26,150	16,927	18,846	28,309
West Virginia	336,637	346,565	290,119	221,735	156,643	172,727	241,474
North Carolina	11,480	10,964	7,462	5,554	2,466	3,365	5,342
South Carolina	4,046	3,592	3,341	3,031	951	1,014	1,323
Georgia	14,740	15,294	12,831	10,291	6,293	6,112	6,365
Florida	15,227	14,804	15,484	10,851	7,108	8,844	11,548
East South Central	243,628	241,344	201,427	140,224	95,527	108,378	144,916
Kentucky	131,970	132,650	111,691	74,868	59,076	65,536	89,042
Tennessee	39,217	40,720	32,499	24,461	14,562	16,785	23,526
Alabama	69,807	65,402	55,462	38,507	19,170	23,291	29,827
Mississippi	2,634	2,573	1,775	2,388	2,719	2,766	2,521
West South Central	967,071	1,116,555	947,374	564,491	651,899	605,728	848,023
Arkansas	45,010	41,325	34,901	18,692	15,540	12,710	16,082
Louisiana	56,810	62,726	71,929	61,693	61,097	54,886	85,211
Oklahoma	486,634	516,685	390,171	181,905	185,121	172,561	237,209
Texas	378,617	495,820	450,373	302,201	390,141	365,571	509,521
Mountain	493,577	579,548	369,988	231,619	146,300	150,936	218,869
Montana	74,752	93,842	50,995	32,360	19,023	21,662	31,430
Idaho	28,589	32,143	22,904	13,177	9,478	12,429	16,708
Wyoming	52,951	51,237	46,735	30,893	27,343	22,025	27,640
Colorado	58,595	55,332	46,271	32,970	25,800	27,259	39,710
New Mexico	30,427	37,128	31,850	25,350	20,264	23,355	30,079
Arizona	116,000	157,960	82,934	41,603	15,204	12,571	26,063
Utah	97,381	115,131	64,224	40,302	22,620	24,180	32,527
Nevada	34,882	36,776	24,075	14,964	6,568	7,455	14,703
Pacific	463,068	584,313	505,296	324,385	302,489	305,928	348,414
Washington	22,120	22,435	20,076	14,801	12,817	9,388	12,947
Oregon	6,687	6,877	6,170	5,045	2,989	3,505	4,211
California	434,261	555,001	479,050	304,539	286,683	293,035	331,256
Alaska	14,024	15,947	13,707	12,371	11,526	12,681	19,586

Source: Bureau of Mines, Department of the Interior.

No. 709.—MINERAL PRODUCTS OF THE UNITED STATES: QUANTITIES AND VALUES

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 1935 are estimates. Blank spaces indicate absence of data in most cases; method of computing total value is indicated by footnotes. Short tons are 2,000 pounds; long tons, 2,240 pounds

Product	Quantity						Value in thousands of dollars					
	1915	1920	1925	1930	1934	1935	1915	1920	1925	1930	1934	1935
METALLIC												
Aluminum ---- 1,000 pounds	----	138,000	140,000	229,035	74,177	119,295	16,280	41,375	36,430	50,961	14,094	22,070
Antimonial lead[1] ---- short tons	23,224	12,535	19,667	13,711	[1] 16,607	[1] 16,384	3,666	1,963	3,786	1,393	(1)	(1)
Antimony ---- do	[2] 5,364	[2] 2,785	[2] 2,624	[2] 1,685	(3)	(3)	[2] 2,374	[2] 473	[2] 918	[2] 258	(3)	(3)
Bauxite ---- long tons	297,041	521,308	316,540	330,612	157,338	233,912	1,515	3,247	1,988	1,928	1,129	1,557
Cadmium ---- pounds	91,415	129,283	502,824	2,777,762	2,777,384	3,477,091	108	151	277	1,778	(4)	(4)
Chromite ---- long tons	3,281	2,502	108	80	369	515	37	45	2	2	5	6
Copper,[5] sales value ---- 1,000 pounds	1,388,010	1,209,061	1,674,870	1,394,389	488,454	762,587	242,902	222,467	237,832	181,271	39,076	63,295
Ferro-alloys ---- long tons	388,644	612,808	616,222	650,240	428,798	592,176	17,450	77,519	53,048	51,900	34,635	48,892
Gold[6] ---- 1,000 troy ounces	4,888	2,476	2,412	2,286	3,091	3,546	101,036	51,187	49,860	47,248	[6] 108,191	[6] 124,116
Iron:												
Ore ---- 1,000 long tons	55,493	69,281	63,925	55,201	25,793	33,308	[7] 101,289	[7] 285,006	[7] 160,797	[7] 145,619	[7] 66,484	[7] 82,864
Pig ---- do	30,384	35,710	36,815	29,905	15,626	21,178	401,410	1,140,904	739,316	512,165	261,400	358,145
Lead (refined),[5] sales value ---- short tons	507,026	476,849	654,921	573,740	299,841	310,505	47,660	76,296	113,956	57,374	22,188	24,840
Manganese ore (35 percent or more Mn.) ---- long tons	9,613	94,420	98,324	67,035	26,514	26,428	113	2,396	1,858	1,437	572	557
Manganiferous ore (5 to 35 percent Mn.) ---- long tons	195,735	767,664	1,448,054	785,390	221,822	524,184	817	2,438	3,752	2,402	621	1,323
Mercury, metal ---- flasks (76 pounds net)	20,756	13,216	9,053	21,553	15,445	17,518	1,805	1,067	763	2,479	1,141	1,261
Mercury ore ---- short tons	159,000	109,000	65,000	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Nickel ---- do	822	365	272	308	157	160	538	293	170	214	108	130
Ores (crude), tailings, etc.:												
Copper ---- 1,000 short tons	43,404	36,765	53,262	47,382	11,717	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Copper-lead and copper-lead zinc ---- do	11	27	229	246	121	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Dry and siliceous (gold and silver) ---- do	12,687	8,590	8,995	7,767	11,853	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Lead ---- do	7,497	7,200	8,560	8,080	3,360	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Lead-zinc ---- do	18,176	12,383	17,741	10,645	6,384	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Zinc ---- do	----	2,651	3,411	5,980	6,237	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Platinum and allied metals (value at New York City) ---- troy ounces	8,665	41,544	49,643	43,502	47,274	42,060	479	4,698	5,662	2,049	1,686	1,414
Silver ---- 1,000 troy ounces	74,961	55,362	66,155	50,748	32,725	44,825	37,397	60,802	45,912	19,538	21,156	33,081
Tin (metallic equivalent) ---- short tons	102	22	14	17	9	45	79	22	16	10	10	46
Titanium ore (ilmenite) ---- do	----	----	5,566	(4)	(4)	(4)	----	----	89	(4)	(4)	(4)
Titanium ore (rutile) ---- do	250	277	46	(4)	(4)	(4)	28	(4)	11	(4)	(4)	(4)
Tungsten ore (60 per cent concentrates) ---- do	2,332	216	1,190	702	2,049	2,395	4,100	102	756	509	1,791	1,921
Uranium and vanadium ores ---- do	----	35,076	13,070	(4)	(4)	(4)	694	2,401	331	(4)	(4)	(4)
Zinc,[5] sales value ---- do	458,135	450,045	555,631	489,361	355,366	412,184	113,617	72,907	84,456	46,979	30,561	36,272
Total metallic products (approximate)	----	----	----	----	----	----	991,730	1,762,350	1,380,280	982,550	540,300	721,600

For footnotes see p. 699.

No. 709.—Mineral Products of the United States: Quantities and Values—Continued

Products	Quantity						Value in thousands of dollars					
	1915	1920	1925	1930	1934	1935	1915	1920	1925	1930	1934	1935
NONMETALLIC												
Arsenious oxide—short tons	5,498	11,502	12,317	17,425	15,623	12,670	302	2,021	1,199	1,008	797	497
Asbestos—do	1,731	1,648	1,258	4,242	5,087	8,920	77	678	52	289	158	293
Asphalt:												
Native—do	740,254	898,993	584,850	702,777	440,852	347,397	5,242	13,199	4,148	4,463	2,366	2,149
Oil (including road oil)—do			1,206,700	2,273,546	2,515,628	2,851,795			[7] 15,306	[7] 21,570	[7] 23,413	[7] 24,684
Barite (crude)—do	108,547	228,113	228,063	234,932	209,850	225,111	381	2,142	1,703	1,538	1,109	1,251
Borates—do	67,003	120,320	113,700	177,360	242,500	272,967	1,677	2,173	3,086	5,352	4,822	5,382
Bromine—1,000 pounds	856	1,161	1,566	8,463	15,344	16,429	856	745	488	2,110	3,227	3,483
Calcium-magnesium chloride—short tons	20,535	27,849	67,870	116,160	76,719	83,546	131	539	1,387	2,208	1,153	1,039
Cement—1,000 bbls. (376 lbs. net)	87,685	97,079	159,047	160,846	76,579	76,250	75,155	195,590	281,076	231,249	117,882	114,942
Clay:												
Products							160,080	373,670	[9] 423,447	[9] 275,134	[9] 116,172	[9]
Raw—1,000 short tons	2,363	3,116	4,030	3,963	2,187	2,796	[7] 3,972	[7] 11,614	[7] 12,737	[7] 12,521	[7] 8,197	[7] 10,290
Coal:												
Bituminous [10]—do	442,624	568,667	520,053	467,526	359,368	369,324	502,038	2,129,933	1,060,402	795,483	628,112	699,900
Pennsylvania anthracite—do	88,995	89,598	61,817	69,385	57,168	51,003	184,653	434,252	327,665	354,574	244,152	207,600
Coke—do	41,581	51,345	51,267	47,972	31,822	35,141	[7] 105,504	[7] 494,246	[7] 262,559	[7] 209,137	[7] 159,426	[7] 176,853
Diatomite and tripoli—short tons	35,304	102,155	102,418	[11] 32,439	[11] 20,529	[11] 27,375	167	1,649	1,357	[11] 508	[11] 329	[11] 383
Emery—do	3,063	2,327	769	555	189	176	31	22	6	6	2	2
Feldspar (crude)—long tons	93,855	135,551	185,706	171,788	154,188	189,550	489	851	1,316	1,067	853	1,005
Fluorspar—short tons	136,941	186,778	113,669	95,849	85,786	123,561	764	4,719	2,052	1,747	1,391	1,858
Fuller's earth—do	47,901	128,487	206,574	335,644	220,264	227,745	489	2,506	2,924	4,327	2,085	2,230
Garnet for abrasive purposes—do	4,301	5,476	8,429	5,003	2,591	[4]	140	434	713	314	215	[4]
Gems and precious stones							170	265	[12]	[12]	[12]	[12]
Graphite:												
Amorphous—short tons	1,181	4,694	3,536	1,941	[4]	[4]	12	50	40	21	[4]	[4]
Crystalline—1,000 pounds	7,074	9,632	2,257	[4]	[4]	[4]	417	576	57	[4]	[4]	[4]
Grindstones and pulpstones—short tons		53,484	37,340	18,700	12,630	14,587	648	1,707	1,706	771	463	505
Gypsum—1,000 short tons	2,448	3,129	5,678	3,471	1,536	1,938	6,597	24,533	47,577	27,051	13,762	[4]
Lime—do	3,623	3,570	4,581	3,388	2,397	2,955	14,424	37,544	42,609	25,616	17,164	21,438
Magnesite (crude)—short tons	30,499	303,767	120,660	129,320	100,973	177,154	274	2,748	1,433	1,033	731	1,192
Mica:												
Scrap—do	3,959	5,723	9,695	6,732	7,719	[13] 18,852	51	167	174	109	100	[13] 244
Sheet—1,000 pounds	554	1,683	1,794	1,465	584	937	378	547	322	177	90	161
Millstones							53	63	22	18	10	10
Mineral paints:												
Natural pigments—short tons	57,442	[14]	[14]	[14]	[14]	[14]	552	[14]	[14]	[14]	[14]	[14]
Zinc and lead pigments [15]—do	141,383	143,244	199,190	147,948	114,661	137,972	14,962	24,565	28,311	18,420	12,617	13,828
Mineral waters—1,000 gallons	52,114	36,218	[12]	[12]	[12]	[12]	5,139	4,861	[12]	[12]	[12]	[12]
Natural gas—1,000,000 cu. ft	628,579	798,210	1,188,571	1,943,421	1,770,721	1,875,000	101,312	196,194	265,271	416,090	395,378	423,000
Natural gasoline—1,000 gallons	65,365	384,744	1,127,470	2,210,494	1,535,360	1,632,036	5,151	71,788	120,383	128,160	60,523	73,400
Oilstones, etc—short tons		1,144	970	651	396	439	115	232	272	137	94	106
Peat—do	42,284	73,204	72,436	[12]	40,544	37,060	289	922	453	[12]	214	199

Petroleum	1,000 barrels (42 gals.)	281,104	442,929	763,743	898,011	908,065	993,942	179,463	1,360,745	1,284,960	1,070,200	904,825	994,000
Phosphate rock	1,000 long tons	1,836	4,104	3,482	3,926	2,835	3,042	5,413	25,080	11,546	13,997	10,040	10,936
Potash (K_2O)	short tons	1,090	41,444	25,802	56,610	114,122	224,721	342	7,463	1,204	2,986	2,813	4,993
Pumice	do	27,708	41,838	40,380	56,843	56,169	57,116	63	114	179	336	207	237
Pyrites	long tons	394,124	310,777	170,081	[16] 347,512	[16] 432,524	[16] 506,215	1,675	1,597	650	[16] 1,029	[16] 1,216	[16] 1,570
Salt	1,000 short tons	5,352	6,840	7,398	8,054	7,612	7,927	11,748	29,894	26,162	25,009	22,851	21,089
Sand and gravel:													
Sand, glass	1,000 short tons	1,884	2,166	2,335	1,849	1,924	2,180	1,607	4,749	3,836	3,211	3,327	3,706
Sand (molding, building, etc.) and gravel	1,000 short tons	74,719	79,875	169,667	195,203	114,688	123,510	21,515	60,913	103,706	111,966	57,921	62,532
Sand-lime brick	thousands	179,643	169,761	[9] 315,595	[9] 191,193	[9] 41,408	[5]	1,135	2,490	[9] 3,781	[9] 1,951	[9] 356	[5]
Silica (quartz)	short tons	112,575	68,190	25,444	13,156	18,293	17,178	274	320	205	121	130	112
Slate	do		468,700	724,600	463,610	232,730	322,500	4,959	8,726	12,575	7,912	2,708	3,631
Stone	1,000 short tons		78,527	115,851	126,996	[17] 92,064	[17] 78,379	74,595	133,542	174,217	178,949	[17] 98,980	[17] 82,490
Sulphur	1,000 long tons	294	1,518	1,858	1,990	1,614	1,635	4,959	30,000	29,000	35,800	28,900	29,300
Sulphuric acid (60° Baumé) from copper and zinc smelters	1,000 short tons	[18] 905	[18] 1,230	1,007	1,188	576	[4]	7,621	13,617	7,513	9,544	4,227	[4]
Talc and soapstone	short tons	186,891	210,635	[19] 182,256	[19] 179,385	[20] 138,505	[20] 172,716	1,892	3,035	[19] 2,012	[19] 2,108	[20] 1,449	[20] 1,848
Total nonmetallic products (approximate)								**1,400,484**	**5,214,170**	**4,291,100**	**3,773,400**	**2,770,300**	**2,950,000**
SUMMARY OF VALUES													
Metallic products								991,730	1,762,350	1,380,280	982,550	540,300	721,600
Nonmetallic products (exclusive of fuels)								427,867	1,021,260	1,232,420	1,008,900	537,200	553,000
Mineral fuels								972,617	4,192,910	3,058,680	2,764,500	2,233,100	2,397,000
"Unspecified" (metallic and nonmetallic) products (partly estimated)								2,430	4,820	6,250	8,850	14,500	16,400
Grand total (approximate)								**2,394,644**	**6,981,340**	**5,677,630**	**4,764,800**	**3,325,100**	**3,688,000**

[1] From both domestic and foreign ores. Data for 1934 and 1935 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] Content of antimonial lead. Value excluded from metallic total as the value of the antimony is included in the antimonial lead value.
[3] Largely from foreign ore in 1934 and in 1935. Value not included in total value. Bureau of Mines not at liberty to publish figures.
[4] Value included in total value of metallic or nonmetallic products. Bureau of Mines not at liberty to publish figures or not available. [5] Product from domestic ores only.
[6] Valued at $20.67+ per ounce prior to 1933. In 1933 includes $52,842,000, calculated by Bureau of the Mint at legal coinage value ($20.67+ per ounce), plus $12,495,000 premium calculated by Bureau of Mines at average weighted price ($25.56 per ounce). Valued at $35.00 per ounce in 1934 and 1935.
[7] Value not included in total value, since value of product derived therefrom, or of raw material used, is accounted for under other items.
[8] Figures not available. Value of products derived therefrom, or of raw materials used, is included elsewhere.
[9] Figures obtained through cooperation with Bureau of the Census. Data for 1935 not yet available; estimate included in total value of nonmetallic products.
[10] Includes brown coal and lignite and anthracite mined elsewhere than in Pennsylvania.
[11] Tripoli only. Value of diatomite is included in total value of nonmetallic products. Bureau of Mines not at liberty to publish figures.
[12] No canvass. Estimate of value included in total value of nonmetallic products. [13] Includes mica recovered by grinding mica schist; excluded in prior years.
[14] Canvass discontinued after 1915. Value of iron ore sold for paint included under "Unspecified." [15] Sublimed blue lead, sublimed white lead, leaded zinc oxide, and zinc oxide.
[16] Figures include pyrites concentrates from Tennessee and partly desulphurized tailings from zinc operations in Wisconsin; similar output in 1915 to 1925 was not included.
[17] Includes soapstone used as dimension stone. [18] In 1915 includes 59,189 tons and in 1920, 23,728 tons of stronger acid, not converted to 60° Baumé.
[19] Talc only. Value of soapstone in 1925 and 1930 is included in value of nonmetallic products. Bureau of Mines not at liberty to publish figures.
[20] Talc and ground soapstone.

Source: Bureau of Mines, Department of the Interior.

No. 710.—IRON ORE: PRODUCTION, SHIPMENTS, EXPORTS, AND IMPORTS

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

Yearly average or year	Production	Shipments	Exports	Imports
1881–1890	10,385			766
1891–1900	17,551			587
1901–1910	41,339		271	1,180
1911–1915	51,595	50,592	953	1,841
1916–1920	69,737	70,224	1,143	967
1921–1925	52,429	52,617	677	1,691
1926–1930	64,600	64,952	1,021	2,709
1931–1935	22,721	23,514	389	1,166
1922	47,129	50,613	602	1,135
1923	69,351	69,811	1,117	2,768
1924	54,267	52,083	595	2,047
1925	61,908	63,925	631	2,191
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 (prel.)	30,484	33,308	661	1,492

Production	1932	1933	1934	1935 (prel.)
REGION				
Lake Superior [1]	8,139	14,611	21,031	25,360
Birmingham	1,336	2,044	2,226	5,124
All other	371	898	1,331	
STATE				
Alabama	1,375	2,133	2,344	3,240
Michigan	2,555	2,434	5,039	5,214
Minnesota	5,154	11,949	15,390	19,359
Missouri	30	[2]	4	
New Jersey	31	73	139	72
New York	31	59	245	302
Pennsylvania	103	264	525	978
Utah	137	95	161	
Wisconsin	430	228	602	
Wyoming		289	117	
All other	1	28	22	
KIND				
Hematite	[3] 9,622	16,921	[3] 23,391	28,864
Brown ore	62	235	286	267
Magnetite	[3] 163	397	[3] 910	1,352
Carbonate	(2)	(2)	1	1

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

No. 711.—ANALYSIS OF PIG IRON AND FERRO-ALLOY PRODUCTION

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

	1900	1910	1915	1920	1925	1930	1932	1933	1934	1935
Total pig iron and ferro-alloys	13,789	27,304	29,916	36,926	36,701	31,752	8,781	13,346	16,139	21,373
By States:										
New England	14	17	8	10		2,211	710	765	1,194	1,611
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	2,188	3,893	4,409	5,700
Indiana, Michigan	164	1,250	1,987	2,940	4,120	3,934	1,035	1,470	2,185	2,898
Maryland and Virginia	781	771	503	953	830	1,088	380	619		
Alabama	1,184	1,939	2,049	2,393	2,836	2,395	667	906		
Ohio	2,471	5,752	6,913	8,533	8,863	6,805	2,412	3,955		
Illinois	1,363	2,676	2,447	3,281	3,604	3,345	919	1,013	8,350	11,163
Wisconsin, Minnesota	185	307	373	711	468	805	164	188		
Iowa, Colorado, Utah	798	1,117	741	1,520	505					
All other					762	865	306	538		
By disposition:										
For sale	(1)	(1)	8,583	10,724	8,991	7,083	1,877	2,338	3,003	4,022
For maker's use	(1)	(1)	21,333	26,202	27,710	24,670	6,904	11,007	13,136	17,351
By kinds:										
Basic	1,072	9,085	13,093	16,738	19,667	18,393	5,074	7,953	10,102	13,618
Bessemer	7,979	11,246	10,523	12,062	9,419	7,315	2,220	3,474	3,431	4,239
Foundry (incl. ferrosilicon)	3,376	5,260	4,844	5,958	5,410	3,960	936	1,210	1,505	1,908
Malleable	173	843	830	1,311	1,554	1,572	420	495	827	1,206
Forge	793	564	316	318	241	51	2	5	21	5
Ferromanganese, spiegeleisen, and all other	395	306	310	539	409	461	129	209	252	396
By fuels:										
Coke [2]	11,728	26,258	29,535	36,300	36,504	31,656	8,766	13,313	16,113	21,298
Anthracite	1,677	649	85	303						
Charcoal	384	397	296	323	196	97	15	33	26	75
Materials used:										
Iron ore, briquettes, etc	24,131	51,739	55,137	66,450	65,450	[3] 53,662	[3] 12,788	[3] 21,572	[3] 26,042	[3] 35,183
Cinder, scale, etc	1,600	2,800	4,483	4,986	5,017	[3] 6,296	[3] 2,189	[3] 2,820	[3] 3,439	[3] 3,336
Coke (1,000 tons of 2,000 pounds) [4]	(1)	(1)	33,329	42,046	39,296	[3] 31,168	[3] 8,337	[3] 12,547	(1)	(1)
Limestone	7,422	14,528	14,790	17,825	15,154	[3] 11,099	[3] 2,951	[3] 4,565	(1)	(1)
Total number furnaces Dec. 31	406	473	445	452	395	300	279	275	269	258
Furnaces in blast Dec. 31	232	206	310	216	238	97	44	75	68	124

[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 710, Bureau of Mines, Department of the Interior; table 711, American Iron and Steel Institute.

No. 712.—PRODUCTION, EXPORTS, AND IMPORTS OF PIG IRON (INCLUDING FERRO-ALLOYS) AND PRODUCTION OF STEEL INGOTS AND CASTINGS

NOTE.—In long tons (2,240 pounds). Prior to 1901 exports and imports are for years ended June 30 following year specified; calendar years thereafter. Imports are imports for consumption beginning with 1933. All production figures are for calendar years. For individual years 1871 to 1908 and data for earlier years, see Statistical Abstract 1931, tables 750 and 751

Yearly average or year	Pig iron and ferro-alloys			Steel ingots and castings, production	Year	Pig iron and ferro-alloys			Steel ingots and castings, production
	Production	Exports of domestic	Imports			Production	Exports of domestic	Imports	
1871–1875	2,248,203	7,412	137,591	[1] 389,799	1919	31,015,364	321,261	101,665	34,671,232
1876–1880	2,562,763	3,407	276,600	803,479	1920	36,925,987	216,828	185,944	42,132,934
1881–1885	4,301,096	5,311	325,290	1,652,268	1921	16,688,126	28,405	44,842	19,783,797
1886–1890	7,079,312	12,407	229,970	3,292,763	1922	27,219,904	33,332	498,059	35,602,926
1891–1895	8,133,014	22,983	54,778	4,675,736	1923	40,361,146	37,559	474,723	44,943,696
1896–1900	11,491,937	224,268	34,308	8,439,938	1924	31,405,790	45,818	276,966	37,931,939
1901–1905	18,239,665	45,465	314,765	15,367,931	1925	36,700,566	39,907	516,948	45 393,524
1906–1910	24,024,722	78,618	275,036	22,166,783	1926	39,372,729	28,606	514,288	48,293,763
1910	27,303,567	127,385	237,233	26,094,919	1927	36,565,645	55,899	175,529	44,935,185
1911	23,649,547	120,799	148,459	23,676,106	1928	38,155,714	96,743	194,636	51,544,180
1912	29,726,937	272,676	129,325	31,251,303	1929	42,613,983	53,749	223,680	56,433,473
1913	30,966,152	277,648	156,450	31,300,874	1930	31,752,169	25,344	182,446	40,699,483
1914	23,332,244	114,423	139,683	23,513,030	1931	18,426,354	15,429	103,540	25,945,501
1915	29,916,213	224,509	89,836	32,151,036	1932	8,781,453	6,938	145,664	13,681,162
1916	39,434,797	607,236	135,349	42,773,680	1933	13,345,602	11,272	196,284	23,232,347
1917	38,621,216	656,220	76,786	45,060,607	1934	16,138,573	13,474	157,387	[2] 26,055,289
1918	39,054,644	269,575	34,711	44,462,432	1935	21,372,699	17,714	189,197	[2] 34,092,594

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

No. 713.—PRODUCTION OF ROLLED AND MISCELLANEOUS STEEL PRODUCTS

NOTE.—In thousands of long tons (2,240 pounds) unless otherwise specified. Blank spaces indicate figures not available. The miscellaneous products, except cast-iron pipe, are for the most part further elaborations of the rolled products listed above

	1905	1910	1915	1920	1925	1930	1934	1935
Rolled products, total	16,840	21,621	24,393	32,348	33,387	29,513	18,970	23,965
Rails	3,376	3,636	2,204	2,604	2,785	1,873	1,010	712
Bessemer and electric	3,192	1,884	327	143	10	2	2	1
Open hearth	183	1,751	1,775	2,334	2,692	1,835	982	692
Rerolled			102	127	84	36	26	19
Sheets and plates	3,532	4,955	6,078	9,338	9,808	9,067	6,376	8,691
Universal			955	1,250	1,196	1,041	535	439
Sheared			1,923	3,505	2,557	2,622	903	1,016
Black sheets [1]			1,337	2,886	4,097	3,512	3,203	5,176
Black plates for tinning			1,093	1,449	1,632	1,692	1,500	2,060
Other black-plate specialties			270	247	325	201	236	
Wire rods	1,809	2,242	3,096	3,137	2,845	3,349	1,724	2,441
Structural shapes	1,661	[2] 2,267	2,437	3,307	3,604	3,512	1,425	1,750
Merchant bars	3,594	3,786	4,131	6,130	5,659	4,132	[3] 2,802	[3] 3,699
Skelp	1,436	1,828	2,299	3,220	3,230	2,682	1,120	1,352
Hoops	446	262	282	333	205	80	49	90
Bands and cotton ties		425	438	389	356	46	28	25
Splice and tie-plate bars			536	576	823	606	348	268
Rolled forging blooms, billets, etc	42	460	651	447	345	304	212	340
Bars for reenforced concrete work	946	241	353	572	820	850	487	557
Hot-rolled strips and flats for cold rolling						1,942	2,197	2,648
Blanks or pierced billets for seamless tubes		1,519	1,888	2,294	2,908	1,248	825	953
All other rolled products						814	[4] 366	[4] 439
Miscellaneous products:								
Tin plate		648	983	1,375	1,544	1,660	1,503	1,695
Terneplates		75	73	71	114	103	100	191
Galvanized sheets			706	835	1,134	1,045	772	1,028
Galvanized formed products			50	64	80	65	40	60
Wire nails (thousands of kegs [4])	10,855	12,705	14,583	16,450	15,454	9,561	6,197	8,872
Cut nails (thousands of kegs [4])	1,358	1,005	775	845	736	460	349	395
Wrought pipe or tubes [5]			1,920	3,003	3,031	2,247	862	964
Boiler tubes [5]			97	119	63	31	14	16
Seamless pipes or tubes			140	292	568	1,194	733	877
Cast-iron pipe and fittings			1,085	702	1,719	1,282	581	615
Forgings made by rolling mills		320	524	540	388	476	269	315

[1] Rolled on sheet or jobbing mills. [2] Small structural forms not included.
[3] Merchant bars include certain miscellaneous bars which were included in "All other rolled products" prior to 1934. [4] Of 100 pounds. [5] Excluding electric welding.

Source of tables 712 and 713: American Iron and Steel Institute (exports and imports from Government statistics).

No. 714.—PRODUCTION, EXPORTS, AND IMPORTS OF FINISHED ROLLED IRON AND STEEL

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	13,650	1,047	755,818	1,510	23,894	
1896–1900	8,162,560	1,881,905	232,518	2,399	1,463,879	30,995	4,771	
1901–1905	13,670,907	2,895,138	225,746	43,207	2,694,625	39,505	6,167	[3] 3,593,601
1906–1910	18,509,490	3,238,486	303,234	3,963	4,064,102	158,591	4,096	3,479,910
1911–1915	22,250,075	[2] 2,760,557	378,792	23,740	5,382,221	416,404	2,875	3,770,316
1914	18,370,196	1,945,095	174,680	22,571	4,719,246	280,095	4,310	2,812,102
1915	24,392,924	2,204,203	391,379	78,525	6,077,694	419,604	1,420	4,484,650
1916	32,380,389	2,854,518	540,828	26,299	7,453,980	515,558	1,730	6,691,702
1917	33,067,700	2,944,161	512,669	9,263	8,267,616	851,529	1,748	6,081,141
1918	31,155,754	2,540,892	453,537	8,705	8,799,135	854,136	1,517	6,587,369
1919	25,101,544	2,203,843	652,443	17,008	7,372,814	1,042,697	1,095	4,810,645
1920	32,347,863	2,604,116	594,628	45,684	9,337,080	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	151,090	36,872	9,807,659	386,912	[4] 4,480	6,478,902
1926	35,495,892	3,217,649	187,557	55,212	10,529,056	517,611	[4] 15,616	6,289,665
1927	32,879,031	2,806,486	177,593	15,455	9,627,734	468,511	[4] 19,760	5,686,260
1928	37,662,916	2,647,493	190,925	14,019	11,006,050	522,657	[4] 30,800	7,220,723
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	1,690,501
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

Yearly average or year (calendar year)	Skelp production	Wire rods			Structural shapes			All other finished rolled production
		Production	Exports	Imports	Production	Exports	Imports	
1891–1895		633,248		34,804	[5] 429,872			2,475,209
1896–1900		909,819	[6] 16,182	18,087	689,419	[6] 48,877		3,217,538
1901–1905	[3] 1,435,995	1,590,280	16,345	18,390	1,203,791	55,651	[7] 12,886	1,263,396
1906–1910	1,668,674	2,056,732	13,403	15,400	1,936,951	121,086	11,107	2,074,634
1911–1915	2,242,270	2,619,287	75,225	11,784	[8] 2,446,391	265,891	6,352	3,029,034
1914	1,982,431	2,431,714	61,856	6,954	2,031,124	182,395	10,145	2,448,484
1915	2,299,464	3,095,907	165,014	5,317	2,437,003	232,139	1,494	3,794,003
1916	2,927,674	3,518,746	158,284	4,130	3,029,964	300,594	1,473	5,903,805
1917	2,674,231	3,137,138	181,941	1,060	3,110,000	294,150	6,216	6,253,413
1918	2,564,011	2,562,390	148,523	7,677	2,849,969	232,729	3,504	5,251,988
1919	2,555,778	2,538,476	118,010	342	2,614,036	360,787	1,154	3,005,952
1920	3,220,289	3,136,907	116,775	5,488	3,306,748	493,633	1,685	4,039,438
1921	1,930,575	1,564,330	18,953	917	1,272,624	297,022	777	1,774,103
1922	2,872,215	2,654,741	40,424	1,735	2,718,768	167,585	7,823	3,511,633
1923	3,734,336	3,075,892	40,868	3,948	3,405,197	199,021	10,674	4,425,755
1924	3,170,543	2,522,545	18,762	6,851	3,283,708	167,910	43,245	3,651,381
1925	3,229,768	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

[1] Includes concrete reinforcing bars.
[2] Average for years 1887–1890.
[3] 1905 only; data not available for earlier years.
[4] Includes skelp.
[5] Average for years 1892–1895.
[6] Average for period July 1, 1897, to Dec. 31, 1900.
[7] Average for period July 1, 1903, to Dec. 31, 1905.
[8] Small structural forms not included in 1911.

Source: American Iron and Steel Institute (exports and imports compiled from Government statistics).

No. 715.—PRODUCTS OF STEEL WORKS AND ROLLING MILLS, AND OF THE WIRE, TIN-PLATE, AND CAST-IRON PIPE INDUSTRIES

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. For more detailed statistics, see Census reports for these industries

Industry and product	Quantity in thousands of unit specified				Value in thousands of dollars		
	Unit	1929	1931	1933	1929	1931	1933
STEEL WORKS AND ROLLING MILLS							
All products, total value					3,365,789	1,402,843	1,143,889
Unrolled steel, total	Ton [1]	56,161	25,896	23,163			
Ingots—							
For sale and interplant transfer	do	661	243	133	17,150	5,548	3,932
Produced and consumed in works	do	54,133	25,193	22,751			
Direct steel castings—							
For sale and interplant transfer [2]	do	1,212	371	222	191,398	59,557	32,296
Produced and consumed in works [2]	do	155	89	56			
Semifinished rolled products, for sale and interplant transfer, total.	do	12,779	5,633	5,470	421,328	161,673	137,957
Blooms, billets, and slabs, except for forging.	do	7,361	3,107	3,025	244,792	91,110	79,499
Rolled blooms and billets for forging	do	270	69	64	10,327	2,494	2,008
Sheet and tin-plate bars	do	5,062	2,439	2,369	162,316	67,290	56,026
Muck and scrap bar	do	87	17	12	3,893	778	423
Finished rolled products and forgings, total. [3]	do	39,883	18,396	16,161			
Produced and consumed in works	do	9,532	5,199	4,994			
For sale and interplant transfer	do	30,350	13,198	11,166	1,604,333	614,899	495,544
Rails	do	2,666	1,130	393	113,925	48,197	15,157
Rail joints, fastenings, tie plates, etc.	do	872	379	198	47,761	19,096	9,316
Structural shapes (not fabricated)	do	4,470	1,985	992	188,898	71,668	35,216
Concrete reenforcing bars	do	972	617	357	42,417	23,081	12,309
Merchant bars, mill shafting, etc.—							
Steel	do	6,228	2,231	2,275	358,601	111,637	107,840
Iron	do	187	53	45	13,284	3,696	3,348
Bolt and nut rods, spike and chain rods, etc.	do	121	20	34	5,683	843	1,361
Wire rods	do	1,155	650	736	49,042	23,420	26,179
Plates No. 12 and thicker	do	5,218	1,986	1,406	228,236	75,853	53,508
Sheets No. 13 and thinner	do	4,041	2,021	2,686	306,936	125,920	136,919
Skelp	do	1,271	619	468	50,121	21,320	15,206
Hot-rolled strips for cold rolling	do	479	402	455	21,347	18,052	18,041
Other strips and cotton ties	do	1,566	705	742	75,626	31,785	29,917
Axles	do	150	27	55	12,039	2,239	2,788
Armor plate and ordnance	do	10	17	8	3,287	6,184	2,080
Car and locomotive wheels	do	209	84	69	19,352	7,689	6,486
All other rolled and forged products [4]	do	732	270	249	68,278	24,219	19,872
Scrap iron and steel, for sale and interplant transfer.	do	2,830	1,409	1,031	42,101	16,645	10,255
Cinder and scale	do	1,194	620	709	2,731	1,308	1,269
All other (including value added to rolled products by further manufacture).	do				1,086,248	543,213	462,636
WIRE AND WIRE PRODUCTS (ALL METALS)							
All industries, total value					919,988	403,406	298,418
Iron and steel wire:							
Plain wire, total [5]	Ton [6]	3,097	1,866	1,962			
For sale and interplant transfer	do	1,204	603	667	88,456	40,492	43,586
Produced and consumed in works	do	1,892	1,262	1,295			
Galvanized wire: For sale and interplant transfer.	do	269	172	163	19,556	10,963	9,936
Other coated wire: For sale and interplant transfer.	do	52	43	34	8,143	5,164	4,184
Cold-rolled from drawn wire: For sale and interplant transfer.	do	29	14	15	4,256	2,361	2,882
Copper wire:							
For sale and interplant transfer	Lb	544,740	187,921	99,135	118,628	22,884	10,305
Produced and consumed in works	do	407,996	242,390	159,379			
Drawn on contract or custom basis from rods or bars furnished by others.	do	151,761	25,572	9,673			

For footnotes. see p. 704.

No. 715.—Products of Steel Works and Rolling Mills, and of the Wire, Tin-Plate, and Cast-Iron Pipe Industries—Continued

Industry and product	Unit	Quantity in thousands of unit specified			Value in thousands of dollars		
		1929	1931	1933	1929	1931	1933
WIRE AND WIRE PRODUCTS (ALL METALS)—continued							
Brass and bronze wire:							
For sale and interplant transfer	Lb.	86,805	48,031	55,015	20,332	7,904	7,527
Produced and consumed in works	do.	5,581	5,066	4,997			
Other metal wire:							
For sale and interplant transfer	do.	48,487	26,750	14,902	23,590	10,214	6,760
Produced and consumed in works	do.	21	31	47			
Fabricated wire products for sale:							
Iron and steel—							
Nails, brads, and spikes [7]	Keg [8]	13,601	8,177	9,101	44,935	22,532	24,312
Tacks [7]	Lb.	6,540	2,620	(9)	640	218	374
Staples	do.	58,879	44,863	(9)	2,342	1,385	1,757
Barbed wire	Ton [6]	222	162	182	13,824	8,280	8,608
Rope or cable, except insulated	do.	153	57	49	46,877	18,412	13,615
Strand, galvanized	do.	49	36	20	5,618	3,284	2,098
Poultry netting	do.	47	32	29	7,536	4,165	3,725
Woven wire fence, except poultry netting.	do.	366	242	203	31,041	17,897	13,907
Fly screening	Lb.	64,728	31,719	46,856	9,942	4,623	6,264
Other wire cloth	do.		24,949	22,522	6,555	4,177	2,734
Concrete reenforcement wire	Ton [6]		140	(9)	11,786	8,177	3,665
Other woven wire	do.	139	28	28		5,522	4,837
Automobile skid chains					11,491	5,987	3,337
Bale ties	Lb.	148,474	109,349	124,090	5,088	3,593	3,680
Wire springs					47,903	26,686	24,104
Welding wire	Lb.		22,795	23,328	42,872	1,427	1,581
Other fabricated iron and steel wire products.						25,936	19,524
Nonferrous wire products—							
Fly screening—							
Copper	Lb.	4,993	2,697	9,788	1,768	780	2,388
Other metals	do.	10,211	7,132		3,336	2,381	
Fourdrinier and cylinder wire cloth.	do.	3,108	1,899	1,985	4,765	3,082	3,189
Other wire cloth—							
Copper	do.	1,168	386	(9)	588	151	1,227
Other metals	do.	1,450	1,239	(9)	683	1,084	
Copper strand, except insulated	do.	92,395	59,051	24,771	18,617	7,383	2,480
Other fabricated nonferrous wire products, except insulated wire.					6,125	5,670	2,350
Fabricated wire products not distributed above.						397	2,255
Insulated wire and cable					312,592	120,197	61,226
TIN PLATE AND TERNEPLATE							
All products, total value					213,084	142,698	151,601
Tin plate	Lb.	4,031,856	3,108,668	3,764,702	194,107	135,375	142,434
Terneplate	do.	345,592	159,357	198,254	15,568	5,609	6,336
All other products					3,409	1,713	2,830
CAST-IRON PIPE AND FITTINGS							
All industries, total value					85,890	51,111	22,633
Quantity reported	Ton [6]	1,736	1,191	520	78,296	45,238	20,065
Quantity not reported					7,594	5,873	2,569

[1] Of 2,240 pounds.
[2] In addition steel castings were produced for sale by establishments classified in other industries as follows: For 1929, 33,550 tons valued at $6,635,760; 1931, 13,916 tons valued at $2,578,080; 1933, 14,495 tons valued at $2,508,632. Steel castings were also reported by the "Foundry and machine-shop products, not elsewhere classified," industry as made and consumed in the same works as follows: For 1929, 53,980 tons; 1931, 13,210 tons; 1933, 16,271 tons. Steel castings are produced and consumed in further manufacture to some extent in other industries, but no data for such production are collected.
[3] Does not include tonnage of pierced billets and blanks for seamless tubes, nor tonnage, for sale, of rolled blooms and billets for forging.
[4] Includes "nail and tack plate" not shown separately to avoid disclosing data for individual operations.
[5] All iron and steel wire, including that subsequently galvanized, otherwise coated, and cold rolled.
[6] Of 2,000 pounds.
[7] Not including value of nails and tacks made from nail and tack plate.
[8] Of 100 pounds.
[9] No comparable data.

Source: Bureau of the Census, Department of Commerce.

No. 716.—PRODUCTION OF STEEL INGOTS AND CASTINGS, BY GRADES

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	502,152	3,535
1925	45,393,524	6,723,962	38,034,488	37,087,342	947,146	19,562	615,512	
1930	40,699,483	5,035,459	35,049,172	34,268,316	780,856	2,253	612,599	
1932	13,681,162	1,532,076	11,907,330	11,742,682	164,648	645	241,111	
1933	23,232,347	2,428,791	20,381,672	20,057,146	324,526	681	421,203	
1934 [1]	26,055,289	2,162,357	23,531,105	23,256,417	274,688	531	361,296	
1935 [1]	34,092,594	2,835,031	30,715,429	30,361,237	354,192	642	541,492	

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

No. 717.—BLAST FURNACES AND STEEL MILLS: CENSUS STATISTICS

NOTE.—The scope of the industry "Steel works and rolling mills" is indicated by table 715

Year	Number of establishments	Wage earners (average number)	Wages	Value of products [1]	Value added by manufacture [2]	Primary horsepower
			Thousands of dollars			
1889	719	171,181	89,273	478,688	151,415	784,358
1899	668	222,490	120,820	803,968	281,569	1,597,816
1909	654	278,505	187,807	1,377,152	399,013	3,274,285
1919	695	416,748	711,407	3,623,369	1,321,507	5,399,574
1921	628	254,213	354,357	1,901,431	535,256	[3]
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]
Blast furnaces:						
1931 [4]	80	13,572	19,259	311,371	52,240	[3]
1933 [4]	72	12,098	11,564	213,685	29,729	[3]
Steel works and rolling mills:						
1931	446	264,634	338,386	1,402,843	570,959	[3]
1933	394	276,847	258,803	1,143,889	451,800	[3]

[1] Includes much duplication.
[2] Value of products less cost of materials.
[3] No data.
[4] Includes data for 4 establishments in 1931 and 5 in 1933 engaged in production of sintered ore and flue dust and operated independently of blast furnaces.

No. 718.—AGGREGATE DOMESTIC EXPORTS OF HEAVY IRON AND STEEL

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

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

Year	Quantity	Value	Year	Quantity	Value	Year	Quantity	Value
1890	52		1912	2,948	112,535	1924	1,806	150,494
1895	89		1913	2,746	108,875	1925	1,763	144,262
1900	1,154	42,518	1914	1,550	63,409	1926	2,167	174,145
1903	327	14,533	1915	3,533	140,993	1927	2,183	160,609
1904	1,168	35,248	1916	6,101	353,971	1928	2,865	179,881
1905	1,010	33,813	1917	6,439	567,041	1929	3,038	200,203
1906	1,326	52,215	1918	5,375	558,279	1930	1,983	139,039
1907	1,302	60,046	1919	4,400	410,164	1931	969	63,226
1908	964	43,397	1920	4,935	458,376	1932	595	28,857
1909	1,244	50,777	1921	2,213	214,830	1933	1,341	45,534
1910	1,538	63,436	1922	1,995	136,334	1934	2,813	88,691
1911	2,188	86,599	1923	2,010	167,247	1935	3,064	88,414

Sources: Table 716, American Iron and Steel Institute; table 717, Bureau of the Census, Department of Commerce; table 718, Bureau of Foreign and Domestic Commerce, Department of Commerce.

No. 719.—EXPORTS OF HEAVY IRON AND STEEL PRODUCTS

NOTE.—This and tables 718 and 720 exclude the highly elaborated manufactures of iron and steel

Articles	Quantity in long tons (2,240 pounds)				Value in thousands of dollars			
	1932	1933	1934	1935	1932	1933	1934	1935
Total	594,581	1,341,183	2,812,847	3,063,659	28,857	45,534	88,691	88,414
Pig iron, not including ferro-alloys	2,324	2,750	4,096	4,107	54	64	97	96
Ferromanganese and spiegeleisen	33	44	222	131	2	3	13	10
Scrap	227,522	773,406	1,835,170	2,103,959	1,859	6,874	19,188	22,049
Ingots, blooms, billets, sheet bars, and skelp	27,114	26,419	76,953	104,202	974	936	2,676	3,047
Iron and steel bars	15,987	22,926	43,966	53,486	870	1,187	2,210	2,741
Alloy steel bars	1,621	1,797	2,911	2,817	251	267	525	583
Wire rods	14,813	16,877	23,734	26,092	583	608	815	1,013
Galvanized sheets	26,923	53,856	68,538	74,997	1,982	3,682	4,630	5,208
Plates, iron and steel	10,293	13,754	35,792	44,278	524	632	1,612	1,978
Black steel sheets	38,277	37,078	90,999	100,483	2,844	2,465	6,025	6,550
Black iron sheets	2,462	2,751	4,325	5,183	176	196	317	350
Hoop, band, and strip steel	17,778	20,252	29,307	44,654	1,127	1,228	1,933	2,785
Tin plate, terneplate, etc	39,603	95,238	184,651	134,499	3,273	7,650	16,873	13,022
Structural shapes, plain material	14,885	14,089	31,392	36,656	590	535	1,322	1,494
Structural materials, fabricated	17,277	18,335	23,673	21,418	1,029	1,206	1,704	1,613
Tanks, complete and knocked down	3,053	3,078	7,852	8,690	267	305	596	696
Metal lath	1,471	1,007	1,110	850	183	135	159	144
Steel rails	11,320	41,481	69,159	51,672	428	1,227	2,121	1,455
Rail fastenings, switches, frogs, etc	3,742	13,536	16,929	10,288	299	939	1,246	771
Boiler tubes	3,681	3,916	8,245	8,644	567	483	1,085	1,154
Casing and oil-line pipe	17,275	39,208	57,112	23,721	1,792	3,431	5,666	2,402
Seamless black pipe, except casing and oil line	597	1,407	2,670	2,721	95	195	323	365
Black and galvanized welded pipe	30,888	35,733	46,159	36,393	2,463	2,495	3,652	2,912
Riveted pipe and fittings	161	142	501	476	33	24	84	78
Cast-iron pipe and fittings	8,410	11,614	17,703	17,509	591	802	1,436	1,309
Malleable-iron screwed pipe fittings	1,677	2,500	2,980	3,466	485	666	955	1,051
Barbed-wire and woven-wire fencing	17,742	29,948	37,449	34,142	896	1,598	2,192	1,929
Plain and galvanized wire	8,391	21,919	36,520	30,064	597	1,208	2,214	2,214
Woven-wire screen cloth	635	722	965	1,040	199	215	286	324
Wire rope	1,575	2,212	2,682	4,040	410	508	716	956
Insulated wire and cable	84	25	71	80	28	7	24	28
Wire, other, and manufactures thereof	2,080	2,848	4,700	5,941	527	651	996	1,249
Wire nails	7,552	10,251	13,201	11,141	370	509	748	616
Nails other than wire, including tacks	3,378	3,964	4,937	3,702	456	476	617	504
Horseshoes	100	144	174	199	14	23	20	23
Bolts, nuts, rivets, and washers [1]	2,714	3,681	5,147	6,370	625	809	1,340	1,545
Car wheels and axles	2,884	3,966	7,208	18,410	210	239	449	1,113
Iron castings	3,397	4,205	6,974	9,163	374	422	667	798
Steel castings	1,173	956	2,449	2,682	290	209	575	570
Forgings	3,689	3,148	4,221	6,293	521	424	584	773

[1] Except track.

No. 720.—IRON AND STEEL: EXPORTS BY DESTINATIONS

NOTE.—All figures in long tons (2,240 pounds). Products covered are those listed in table 719

Country	1933	1934	1935	Country	1933	1934	1935
Belgium	3,528	24,939	14,546	Argentina	45,512	42,081	36,833
France	6,424	2,744	3,577	Brazil	53,588	85,102	46,347
Germany	15,469	11,964	4,578	Chile	10,384	24,880	27,902
Italy	118,731	231,059	388,837	Colombia	24,420	36,766	27,459
Netherlands	10,544	14,200	14,512	Peru	3,941	15,132	13,613
Norway	4,194	6,577	10,039	Uruguay	4,949	9,371	7,762
Poland and Danzig	30,022	123,800	36,727	Venezuela	18,636	41,575	20,891
Rumania	1,297	14,798	37,711	India and Ceylon	5,822	10,060	4,871
U. S. S. R. (Russia) in Europe	2,408	14,961	34,868	British Malaya	2,377	4,710	2,456
United Kingdom	9,148	141,877	286,461	China	36,885	82,401	75,048
Canada	139,507	254,565	338,808	Netherland India	9,968	12,375	6,807
Central America	24,625	34,811	40,688	Hong Kong	7,991	9,872	14,447
Mexico	31,498	101,689	104,611	Japan	593,207	1,249,248	1,201,391
British West Indies and Bermudas	2,039	5,091	3,889	Kwantung	4,461	9,845	10,481
Cuba	15,621	31,597	45,108	Palestine and Syria	3,535	4,361	1,629
Dominican Republic	4,198	5,011	5,488	Philippine Islands	58,353	60,029	68,190
Netherland West Indies	5,188	8,403	8,190	Australia	1,431	6,738	12,658
				British South Africa	10,232	15,833	23,300
				All other	21,050	64,382	83,026

Source of tables 719 and 720: Bureau of Foreign and Domestic Commerce, Department of Commerce.

No. 721.—IRON AND STEEL: AVERAGE ANNUAL PRICES

[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			Bessemer rails at mills in Pennsylvania [2]	Bessemer steel billets, Pittsburgh	Wire rods, Pittsburgh	Soft-steel bars, Pittsburgh	Iron bars (best refined), Pittsburgh [3]	Tank plates, Pittsburgh	Beams, Pittsburgh	Composite finished steel [4]
	Basic, The Valleys	Southern, No. 2, Cincinnati	Local, No. 2, Chicago [1]								
1891–1895	--------	11.74	12.80	27.27	20.89	--------	--------	1.46	--------	--------	--------
1896–1900	--------	12.56	14.30	24.96	21.08	--------	[5] 1.46	1.50	1.61	[5] 1.63	--------
1901–1905	--------	15.80	17.50	27.87	25.76	--------	1.47	1.77	1.60	1.63	--------
1906	18.10	18.37	20.43	28.00	27.45	--------	1.51	1.93	1.61	1.70	1.77
1907	20.87	23.10	24.50	28.00	29.25	--------	1.60	1.94	1.70	1.70	1.92
1908	15.16	15.54	17.57	28.00	26.31	--------	1.49	1.60	1.64	1.64	1.86
1909	15.48	16.12	17.49	28.00	24.62	--------	1.33	1.62	1.42	1.42	1.63
1910	14.76	15.16	17.09	28.00	25.38	--------	1.44	1.65	1.47	1.45	1.66
1911	13.07	13.67	14.83	28.00	21.46	--------	1.26	1.41	1.31	1.32	1.54
1912	13.92	14.93	15.32	28.00	22.38	--------	1.29	1.44	1.33	1.32	1.53
1913	14.71	14.90	15.85	28.00	25.79	--------	1.55	1.69	1.50	1.50	1.66
1914	12.87	13.41	13.60	28.00	20.09	--------	1.15	1.32	1.14	1.15	1.43
1915	13.74	13.57	14.01	28.00	22.44	--------	1.31	1.48	1.31	1.30	1.53
1916	19.76	18.67	20.26	32.00	43.95	--------	2.67	2.13	3.53	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	2.49	4.10	2.72	2.53	3.12
1920	42.25	44.52	42.52	52.42	56.14	69.55	3.22	4.75	3.28	2.95	3.84
1921	21.73	26.68	22.93	44.06	34.46	45.94	1.87	4.47	1.93	1.93	2.54
1922	24.20	23.95	24.85	40.75	33.95	40.49	1.72	3.35	1.72	1.71	2.24
1923	25.80	27.85	28.16	43.00	41.70	50.39	2.36	3.50	2.43	2.43	2.78
1924	20.24	23.92	22.11	43.00	37.99	48.31	2.20	4.00	2.12	2.19	2.60
1925	19.58	23.85	22.09	43.00	35.45	46.05	2.02	4.52	1.92	1.99	2.44
1926	18.55	24.71	21.64	43.00	35.00	45.00	2.00	4.62	1.88	1.95	2.41
1927	17.69	21.16	19.68	43.00	33.27	42.44	1.83	4.68	1.82	1.83	2.29
1928	16.67	19.70	18.54	43.00	32.67	42.55	1.87	4.64	1.87	1.87	2.25
1929	18.19	18.49	20.00	43.00	34.66	41.50	1.92	4.13	1.93	[6] 1.92	2.30
1930	17.97	16.19	18.47	43.00	31.84	36.91	1.71	4.11	1.69	[6] 1.69	2.11
1931	15.85	14.52	17.35	43.00	29.36	35.03	1.62	3.69	1.62	[6] 1.62	2.02
1932	13.99	13.84	15.87	42.44	26.52	37.00	1.58	3.35	1.58	[6] 1.58	1.96
1933	15.24	16.31	16.47	39.36	26.00	35.15	1.64	3.35	1.61	[6] 1.63	1.94
1934	17.69	18.80	18.19	36.38	27.10	37.37	1.81	3.50	1.78	[6] 1.78	2.10
1935	18.17	19.34	19.50	36.38	27.25	38.21	1.81	3.50	1.80	[6] 1.80	2.13

[1] At furnace after 1907.
[2] Bessemer or open-hearth rails from Oct. 22, 1921.
[3] Muck iron prior to 1892.
[4] Includes hot-rolled strip beginning 1920.
[5] Average for years 1898-1900.
[6] Structural shapes from Mar. 19, 1929.

No. 722.—ALUMINUM AND BAUXITE: PRODUCTION, EXPORTS, AND IMPORTS

	1913	1920	1925	1930	1933	1934	1935
BAUXITE							
Quantities, long tons (2,240 pounds):							
Production	210,241	521,308	316,540	330,612	154,176	157,838	233,912
Georgia, Alabama, and Tennessee	40,370	40,029	20,220	15,339	11,997	12,074	14,121
Arkansas	169,871	481,279	296,320	315,273	142,179	145,764	219,791
Imports for consumption	21,456	42,895	353,696	409,678	149,548	166,653	199,959
Exports	(1)	22,257	78,633	104,504	21,760	51,415	82,491
Value of production [2] (1,000 dollars)	998	3,247	1,988	1,928	923	1,129	1,557
ALUMINUM							
Value, 1,000 dollars:							
Production—							
Primary metal	9,450	41,375	36,430	50,961	16,174	14,094	22,070
Secondary metal	2,199	9,489	24,816	17,177	15,343	17,632	19,018
Imports for consumption, total	4,784	13,077	10,107	5,286	3,212	4,038	4,279
Crude and semicrude	4,388	12,184	9,806	4,690	2,746	3,625	3,694
Manufactures	396	893	301	596	466	414	585
Exports, total	966	5,631	6,057	7,122	1,329	2,379	2,067
Crude and semicrude	----------	3,068	3,366	3,916	600	1,249	694
Manufactures	----------	2,563	2,691	3,206	729	1,130	1,373
Quantities, 1,000 pounds:							
Imports (crude and semicrude)	25,095	39,299	41,997	25,461	15,247	18,692	21,291
Exports (crude and semicrude)	(1)	9,408	12,642	17,330	5,708	8,366	3,970

[1] Unavailable.
[2] F. o. b mines.

Sources: Table 721, Iron Age and American Iron and Steel Institute; table 722, Bureau of Mines, Department of the Interior.

No. 723.—COPPER: Production, Exports, Imports, and Consumption

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	1932	1933	1934	1935
UNREFINED COPPER								
Ore produced (million short tons) [1]	28.5	36.8	53.1	47.4	12.3	8.4	11.7	[2]
Average copper yield, percent	1.88	1.63	1.54	1.43	1.83	2.11	1.92	[2]
Smelter output from domestic ore	1,080.2	1,209.1	1,674.9	1,394.4	544.0	450.0	488.5	762.6
Mine production	1,088.2	1,224.6	1,678.1	1,410.1	476.2	381.3	474.8	764.6
Imports, unrefined:								
Ore (copper content)	64.2	52.0	107.6	101.3	14.0	12.5	12.6	15.3
Concentrates (copper content)	21.0	46.8	54.0	56.9	44.2	37.8	46.5	60.4
Matte and regulus (copper content)		17.6	1.7	4.7	1.7	2.4	3.7	5.5
Unrefined, in bars, pigs, etc.	[3] 259.2	244.7	379.3	560.5	161.7	223.6	308.5	395.9
REFINED COPPER PRODUCTION								
Total new and old copper	1,611.0	2,151.0	3,045.0	3,091.0	1,177.0	1,418.0	1,046.0	2,075.0
New copper (primary)	1,422.0	1,526.2	2,204.6	2,157.1	680.9	741.6	890.7	1,177.6
Domestic	1,071.9	1,182.4	1,682.9	1,391.2	445.1	481.3	466.1	676.6
Foreign	350.1	343.7	521.7	765.8	235.8	260.2	424.7	501.0
Electrolytic	1,128.3	1,351.7	2,050.6	1,993.6	[4] 608.7	[4] 681.4	838.5	[4] 1,103.7
Lake	221.5	153.5	138.0	143.0	[4] 53.8	[4] 59.5	51.7	[4] 73.6
Casting and best select [5]	72.3	21.0	15.9	20.5	18.3	.7	.5	.3
Secondary copper (from new and old scrap)	189.0	624.9	840.4	934.4	496.4	676.2	754.8	897.8
REFINED COPPER CONSUMPTION								
New copper produced (refinery)	1,422.0	1,526.2	2,204.6	2,157.1	680.9	741.6	890.7	1,177.6
Refined copper imported	[3]	108.7	99.8	86.2	167.8	10.9	54.8	36.1
Refined copper exported [6]	708.3	553.1	1,022.3	669.3	250.1	264.7	544.3	550.0
Stocks, Dec. 31 (refined)	122.8	659.0	124.0	615.0	1,004.0	813.0	509.0	350.0
Withdrawn on domestic account:								
New refined copper	732.4	1,053.8	1,401.0	1,265.0	519.2	678.7	645.3	882.7
New and old copper	921.0	1,679.0	2,241.0	2,199.0	1,016.0	1,355.0	1,364.0	1,781.0

[1] 2,000 pounds.
[2] Not available.
[3] Imports of refined copper in ingots, bars, or other forms included in imports of unrefined.
[4] Some copper from Michigan was electrolytically refined and is included with electrolytic.
[5] Includes pig in 1920.
[6] Includes small exports of unrefined black blister and converter copper (bars, pigs, etc.) prior to 1925.

No. 724.—COPPER: Smelter Production by State of Origin of Ore Smelted

[Quantities in thousands of pounds]

State of origin	1910	1920	1925	1930	1932	1933	1934	1935
Total	1,080,160	1,209,061	1,674,870	1,394,389	544,010	449,999	488,454	762,587
Alaska	4,311	66,094	72,204	36,380	13,297	1,756	130	14,602
Arizona	297,251	552,989	722,653	570,897	201,136	122,697	168,408	278,519
California	45,760	11,822	46,944	26,262	5,514	632	233	1,630
Colorado	9,307	4,283	3,163	12,944	8,976	8,882	13,047	14,341
Idaho	6,878	1,922	3,144	2,714	663	2,183	1,718	2,125
Michigan	221,463	153,484	138,030	142,986	63,899	72,341	51,682	73,812
Missouri		533	12	2		182	46	85
Montana	283,079	177,744	270,605	198,796	97,918	94,263	67,005	157,760
Nevada	64,495	55,580	77,138	87,475	32,616	42,507	41,923	72,819
New Mexico	3,785	52,160	76,467	74,188	32,915	24,948	26,994	4,560
Oregon	22	2,529	126	230	37	9	41	372
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	76,403	65,656	96,223	120,973
Washington	65	2,126	1,185	1,405	3	87	33	81
Undistributed	1,127	92	117	31,280	10,633	14,035	20,969	20,909

[1] Included under "Undistributed."

Source of tables 723 and 724: Bureau of Mines, Department of the Interior.

No. 725.—COPPER: SMELTER AND REFINERY OUTPUT

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 723

[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	1913	1,224	189,795	1,615	1,237	378	276
1860	16	3,709	1914	1,150	152,968	1,534	1,150	384	252
1870	28	5,997	1915	1,388	242,902	1,634	1,388	247	395
1871–1875	34	8,895	1916	1,9 8	474,288	2,259	1,928	331	700
1876–1880	50	9,679	1917	1,886	514,911	2,428	1,886	542	767
1881–1885	118	17,236	1918	1,909	471,408	2,432	1,883	549	705
1886–1890	226	30,345	1919	1,286	239,274	1,805	1,433	372	574
1891–1895	339	37,266	1920	1,209	222,467	1,526	1,182	344	625
1896–1900	531	74,424	1921	506	65,221	951	609	341	435
1901–1905	732	103,859	1922	950	128,289	1,256	905	351	672
1906–1910	980	150,924	1923	1,435	210,945	1,980	1,464	516	822
1911–1915	1,221	185,502	1924	1,634	214,087	2,260	1,674	586	777
1916–1920	1,044	395,270	1925	1,675	237,832	2,205	1,683	522	840
1921–1925	1,240	171,275	1926	1,740	243,547	2,322	1,731	591	960
1926–1930	1,729	252,172	1927	1,684	220,609	2,326	1,719	607	980
1931–1935	658	52,066	1928	1,826	262,930	2,488	1,792	696	1,073
			1929	2,003	352,504	2,740	1,983	757	1,253
1907	869	173,799	1930	1,394	181,271	2,157	1,391	766	934
1908	943	124,419	1931	1,043	94,887	1,501	1,075	427	694
1909	1,093	142,084	1932	544	34,273	681	445	236	496
1910	1,080	137,180	1933	460	28,800	742	481	260	676
1911	1,097	137,154	1934	488	39,076	891	466	425	755
1912	1,243	205,139	1935	763	63,295	1,178	677	501	898

[1] Includes refined copper imported to 1919, inclusive.

Source: Bureau of Mines, Department of the Interior.

No. 726.—EXPORTS AND IMPORTS OF COPPER

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	1926	482,843	141,204	389,721	99,742
1896–1900 [1]	137,684	36,745	24,634	5,866	1927	538,365	150,214	359,161	84,963
1901–1905 [1]	190,451	54,942	83,237	22,611	1928	562,510	169,831	393,537	98,187
1906–1910 [1]	289,445	92,334	130,111	38,026	1929	499,237	183,405	487,156	153,710
1911–1915 [1]	416,840	123,655	176,635	46,129	1930	376,647	105,342	408,577	104,616
1916–1920 [2]	376,877	208,909	244,948	103,805	1931	278,937	54,748	292,946	48,745
1921–1925	438,337	129,761	298,975	77,811	1932	164,111	21,236	195,996	23,735
1926–1930	491,290	149,999	407,630	108,244	1933	174,627	24,917	[3] 126,639	[3] 14,834
1931–1935	246,658	39,920	211,138	29,662	1934	312,743	49,765	[3] 199,538	[3] 27,786
1925	540,376	161,166	326,486	84,270	1935	302,873	48,933	[3] 240,528	[3] 33,213

[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: Bureau of Foreign and Domestic Commerce.

No. 727.—REFINED PRIMARY LEAD AND SECONDARY LEAD

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 antimonial lead, shown in next to the last column. This table represents exclusively refined lead, while in table 728 part of the lead from domestic ore is unrefined

Year	Production	Value	Year	Production	Value	Year	Production	Value
1830	8,000	608	1902	367,892	30,167	1919	482,220	51,115
1840	17,000	1,666	1903	368,939	30,991	1920	529,657	84,745
1850	22,000	2,112	1904	393,452	33,837	1921	448,589	40,373
1860	15,600	1,778	1905	388,307	36,501	1922	532,662	58,593
1870	17,830	2,247	1906	404,746	46,141	1923	618,322	86,565
1880	95,725	9,573	1907	413,389	43,819	1924	690,493	110,479
1885	126,192	10,095	1908	396,564	33,311	1925	766,969	133,453
1890	157,844	14,206	1909	446,909	38,434	1926	798,941	127,831
1893	224,320	16,600	1910	470,272	14,384	1927	796,530	100,363
1894	213,650	14,101	1911	486,979	43,828	1928	781,071	90,604
1895	235,822	15,093	1912	480,894	43,280	1929	774,633	97,604
1896	257,487	15,449	1913	462,460	40,696	1930	643,033	64,303
1897	282,169	20,316	1914	542,122	42,286	1931	442,764	32,765
1898	302,148	22,963	1915	550,055	51,705	1932	288,361	17,302
1899	298,047	26,824	1916	571,134	78,817	1933	273,579	20,245
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

Year	Class		Source			Average value per pound	Antimonial lead, at primary refineries	Secondary lead recovered, total
	Desilverized [1]	Soft	Domestic ores and bullion [2]	Foreign ores	Foreign base bullion			
1880	68,035	27,690	95,725			$0.050	[3]	
1890	126,493	31,351	139,720	18,124		.045	[3]	
1895	195,932	39,890	159,649	76,173		.032	[3]	
1900	319,752	48,021	260,918	106,855		.044	[3]	
1905	302,852	85,455	307,514	80,793		.047	[3]	
1910	328,954	141,318	375,402	18,065	76,805	.044	[3]	55,422
1915	388,594	161,461	507,026	9,581	33,448	.047	[3]	78,900
1920	339,803	189,854	476,849	8,414	44,394	.080	[3]	124,650
1925	506,409	260,560	654,921	47,024	65,024	.087	[3]	226,880
1930	441,672	201,361	573,740	34,348	34,945	.050	24,797	255,800
1932	225,231	63,130	255,337	21,747	11,277	.030	21,024	198,300
1933	188,001	85,578	259,616	7,677	6,286	.037	17,805	224,500
1934	209,212	102,024	299,841	10,241	1,154	.037	16,607	208,400
1935	227,777	96,783	310,505	13,659	396	.040	16,384	270,400

[1] Desilverized soft lead is included. [2] Excludes antimonial lead. [3] Not available.

No. 728.—SOURCES OF PRIMARY LEAD SMELTED OR REFINED IN THE UNITED STATES

[Production in short tons (2,000 pounds). See headnote to table 727]

Source of ore	1910	1920	1925	1930	1932	1933	1934	1935
Total	494,081	547,155	798,499	649,306	290,065	281,804	320,722	328,076
From domestic ore	389,211	494,347	686,451	580,013	257,041	267,841	309,327	314,021
Arizona	948	5,987	10,281	4,223	1,134	1,718	3,507	7,020
Colorado	38,542	17,752	31,855	25,091	2,288	2,169	3,568	5,399
Idaho	109,951	117,191	123,363	135,411	68,606	74,210	73,798	70,153
Kansas	1,308	8,421	15,001	[1] 13,103	[1] 5,667	[1] 5,089	[1] 8,140	[2]
Missouri	161,659	171,999	208,547	201,056	79,483	85,564	105,570	102,180
Montana	1,943	13,231	22,008	15,412	1,572	5,944	7,263	14,516
Nevada	2,246	8,650	10,978	14,091	390	2,318	11,393	7,238
New Mexico	1,890	1,123	3,782	11,250	10,606	10,727	10,375	7,141
Oklahoma	1,805	68,494	78,487	[1] 23,398	[1] 9,285	[1] 15,076	[1] 20,031	[2] 22,168
Utah	60,605	64,006	166,844	122,311	70,111	60,049	60,223	71,477
Undistributed	6,077	13,127	13,764	13,672	7,507	3,944	4,473	4,753
Zinc residues	2,237	4,366	1,541	995	392	1,033	986	1,976
From foreign ore [3]	18,065	8,414	47,024	34,348	21,747	7,677	10,241	13,659
Canada	25	1,186	10,676	14,369	3,797	3,472	2,514	1,039
Europe		19	470	41	4,491	2,600	45	1,086
Mexico	11,704	2,729	31,107	14,949	334	257	1,011	5,809
South America	2,996	2,747	4,496	3,476	2,631	1,348	4,028	2,872
From foreign base bullion [3]	76,805	44,394	65,024	34,945	11,277	6,286	1,154	396
Mexico	76,805	42,421	65,024	18,592	11,164	6,021	703	396
Peru				16,353	113	265	451	

[1] Separation as between Kansas and Oklahoma is made on the basis of mine figures.
[2] Kansas included with Oklahoma. [3] Totals include small unspecified items.

Source of tables 727 and 728: Bureau of Mines, Department of the Interior.

No. 729.—SUPPLY AND DISTRIBUTION OF REFINED PRIMARY LEAD

NOTE.—All data in short tons (2,000 pounds). Apparent deliveries are only approximate, as no account (except for bonded warehouses prior to 1932) is taken of changes in stocks

	1910	1920	1925	1930	1932	1933	1934	1935
Supply, total	473,836	565,610	779,035	644,570	288,405	273,642	311,519	325,882
Stock in bonded warehouses Jan. 1	79	234	5,045	1,328	(1)	(1)	(1)	(1)
Imports of pigs, bars, and old	3,485	35,719	7,021	209	44	63	283	1,322
Production from domestic and foreign ore	470,272	529,657	766,969	643,033	288,361	273,579	311,236	324,560
Deductions, total	78,661	27,590	123,380	61,796	30,736	29,343	13,378	15,971
Exports—								
Pig lead	69,786	20,093	103,519	48,307	23,516	22,835	5,906	6,976
In manufactures with benefit of drawback	8,800	6,175	11,699	12,161	7,220	6,508	7,472	8,995
Stock in bonded warehouses Dec. 31	75	1,322	8,162	(1)	(1)	(1)	(1)	(1)
Apparent deliveries to domestic consumers	395,175	538,020	655,655	582,774	257,669	244,299	298,141	309,911

[1] Stocks of pigs, bars, etc. in bonded warehouse not separately reported after April 1930; included with base bullion. For purpose of calculating apparent deliveries in 1930, stocks in warehouse are estimated to have remained unchanged from beginning of the year.

Source: Bureau of Mines, Department of the Interior.

No. 730.—MANUFACTURES OF NONFERROUS METALS AND ALLOYS,[1] 1933

NOTE.—This table shows the production of the commodities specified, whether made as primary or as secondary products by the industries reporting them. The census designations of the industries in which these commodities are made as primary products are as follows: "Nonferrous-metal alloys; nonferrous-metal products, except aluminum, not elsewhere classified;" and "Smelting and refining, nonferrous metals other than gold, silver, and platinum, not from the ore"

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

Kind	1933		Kind	1933	
	Quantity	Value		Quantity	Value
Ingots and pigs:			Other tubing, including brazed	2,052	520
Copper (secondary)	58,554	4,180	Castings, rough:		
Lead (secondary)	238,190	9,913	Brass and bronze:		
Zinc (secondary)	46,674	2,037	Quantity reported	73,087	11,917
Brass and bronze	117,282	8,018	Quantity not reported	----------	4,658
Antifriction bearing metal	25,628	4,324	Copper	2,734	664
Solders, of all kinds	53,480	11,241	Nickel-alloy [2]	6,627	2,838
Type metal	44,856	2,762	Finished products:		
Plates and sheets:			Castings, finished	----------	3,530
Brass and bronze	235,118	28,754	Bearings and bushings (including antifriction linings)	----------	9,533
Copper	138,574	17,237	Die castings	----------	7,962
Lead	24,568	1,537	Extruded shapes	----------	1,438
Nickel alloys	21,282	5,710	Forgings and hot-pressed parts	----------	1,781
Rods and bars:			Bells	----------	161
Brass and bronze	137,642	14,279			
Copper	160,940	12,588			
Nickel alloys	5,120	2,228			
Tubing (seamless) and pipe:					
Brass and bronze	77,460	10,760			
Copper	59,150	9,055			
Lead	26,970	1,953			
Nickel alloys	1,584	600			

[1] This table does not include data for establishments engaged in smelting and refining concentrates containing copper, lead, zinc, and other nonferrous metals.
[2] Includes nonferrous heat-corrosion-resistant alloy castings.

Source: Bureau of the Census, Department of Commerce.

No. 731.—ZINC: PRODUCTION, EXPORTS, STOCKS, AND APPARENT CONSUMPTION

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	1932	1933	1934	1935 [1]
Mine production (recoverable zinc content of ore)	327,618	587,524	710,847	595,425	285,231	384,280	438,726	518,373
Colorado	38,545	24,395	30,811	36,259	109	1,285	772	1,202
Idaho	2,802	13,966	15,619	37,649	10,252	20,968	24,799	31,098
Kansas	13,229	61,073	118,778	74,304	26,277	40,947	38,261	50,000
Missouri	128,589	24,509	14,794	10,811	986	5,042	7,059	7,500
Montana	15,819	92,169	57,658	26,421	2,197	20,724	30,721	54,772
Nevada	1,354	5,349	7,411	14,584	127	6,387	13,940	15,661
New Jersey	68,584	78,511	89,261	97,626	81,460	75,125	76,553	85,708
New Mexico	9,044	5,007	9,246	32,765	25,593	30,924	26,522	22,126
New York		5,654	5,158	22,471	16,794	17,733	23,188	23,720
Oklahoma	6,394	219,727	283,371	136,153	63,437	91,065	107,772	134,000
Tennessee	966	19,217	16,256	[2] 48,147	[2] 18,514	[2] 32,770	[2] 47,712	[2] 48,832
Utah	8,184	4,079	26,306	44,495	29,666	29,745	28,198	31,102
Wisconsin	25,927	27,285	20,230	12,558	7,522	7,800	9,807	8,923
Other States	8,181	6,583	15,948	1,182	2,297	3,765	3,422	3,729
Smelter production	310,407	506,227	634,376	547,345	227,148	355,282	392,890	476,034
Primary zinc	269,184	463,377	572,946	498,045	207,148	307,182	363,590	420,634
From domestic ore	252,479	450,045	555,631	489,361	207,148	306,010	355,366	412,184
From foreign ore	16,705	13,332	17,315	8,684		1,172	8,224	8,450
Secondary zinc	41,223	42,850	61,430	49,300	20,000	48,100	29,300	55,400
Redistilled	12,784	21,371	39,181	[3] 34,849	14,718	30,087	19,691	28,650
Remelted	28,439	21,479	22,249	14,451	5,282	18,013	9,609	26,750
Value of primary product from domestic ore ($1,000)	27,268	72,907	84,456	46,979	12,429	25,705	30,561	36,272
Primary zinc consumed:								
Supply, total	282,350	508,347	593,724	584,295	351,089	437,310	475,857	549,973
Stock at smelters, Jan. 1	11,206	36,793	20,754	85,904	143,592	128,192	110,487	124,783
Produced	269,184	463,377	572,946	498,045	207,148	307,182	363,590	420,634
Imported	1,960	8,177	24	346	349	1,936	1,780	4,556
Deductions:								
Exports, total	13,234	114,267	80,547	8,533	9,617	5,034	10,545	8,640
Stock at smelters, Dec. 31	23,232	71,037	13,080	167,293	128,192	110,487	124,783	90,539
Apparent deliveries to domestic consumers	245,884	323,043	500,097	408,469	213,280	321,789	340,529	450,794

[1] Preliminary.
[2] Includes Virginia.
[3] Includes small quantity of secondary electrolytic zinc.

Source: Bureau of Mines, Department of the Interior.

No. 732.—SMELTER PRODUCTION OF PRIMARY ZINC FROM DOMESTIC ORE

[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	1926	611,991	91,799
1880 [3]	23,239	2,277	1926–1930	576,395	73,119	1927	576,960	73,851
1885	40,688	3,540	1931–1935	314,541	25,432	1928	591,525	72,166
1886–1890	54,285	5,219	1919	452,272	66,032	1929	612,136	80,802
1891–1895	82,396	6,787	1920	450,045	72,907	1930	489,361	46,979
1896–1900	109,963	10,180	1921	198,232	19,823	1931	291,996	22,192
1901–1905	169,504	17,067	1922	353,274	40,273	1932	207,148	12,429
1906–1910	219,378	24,165	1923	508,335	69,134	1933	306,010	25,705
1911–1915	346,867	52,416	1924	515,831	67,058	1934	355,366	30,561
1916–1920	508,731	99,812	1925	555,631	84,456	1935	412,184	36,272

[1] Values at New York prices, up to and including 1907; at St. Louis prices, 1908 to 1914; at average price 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: Bureau of Mines, Department of the Interior.

No. 733.—GOLD AND SILVER: PRODUCTION FROM MINES IN CONTINENTAL UNITED STATES, ALASKA, PUERTO RICO, AND PHILIPPINE ISLANDS

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 (for 1933 data regarding value of gold production, see note 6, table 709). 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	1906	4,565	56,518	38,256
1848–1850	4,338	116	152	1907	4,375	56,515	37,300
1851–1855	14,271	194	259	1908	4,574	52,441	28,051
1856–1860	12,384	309	418	1909	4,822	54,722	28,455
1861–1865	10,716	28,811	38,674	1910	4,657	57,138	30,855
1866–1870	12,226	49,113	65,261	1911	4,687	60,399	32,616
1871–1875	8,826	121,083	156,270	1912	4,521	63,767	39,198
1876–1880	10,301	157,681	182,506	1913	4,300	66,802	40,348
1881–1885	7,730	182,841	202,807	1914	4,573	72,455	40,068
1886–1890	8,078	231,819	227,495	1915	4,888	74,961	37,397
1891–1895	9,107	287,057	227,960	1916	4,479	74,415	48,953
1896–1900	15,729	279,544	172,689	1917	4,051	71,740	59,078
1901–1905	19,394	278,798	159,543	1918	3,321	67,810	66,485
1906–1910	22,993	277,333	162,916	1919	2,919	56,682	63,534
1911–1915	22,968	338,384	189,626	1920	2,476	55,362	60,802
1916–1920	17,246	326,009	298,852	1921	2,422	53,052	[1] 53,052
1921–1925	12,229	314,190	259,162	1922	2,363	56,240	[1] 56,240
1926–1930	11,259	293,692	159,829	1923	2,503	73,335	[1] 60,135
1931–1935	14,101	156,565	77,943	1924	2,529	65,407	43,823
				1925	2,412	66,155	45,912
1894	1,911	49,500	31,422				
1895	2,255	55,727	36,446	1926	2,335	62,719	39,136
				1927	2,197	60,434	34,266
1896	2,568	58,835	39,655	1928	2,233	58,463	34,201
1897	2,775	53,860	32,316	1929	2,208	61,328	32,688
1898	3,118	54,438	32,118	1930	2,286	50,748	19,538
1899	3,437	54,765	32,359				
1900	3,830	57,647	35,741	1931	2,396	30,932	8,970
				1932	2,449	23,981	6,763
1901	3,806	55,214	33,128	1933	2,556	23,003	8,051
1902	3,870	55,500	29,415	1934	3,091	32,725	[2] 21,156
1903	3,560	54,300	29,322	1935	3,609	45,924	[2] 33,008
1904	3,892	57,683	33,456				
1905	4,266	56,102	34,222				

State or Territory	Gold, 1,000 fine ounces					Silver, 1,000 fine ounces					Silver, value, 1935, 1,000 dollars[2]
	1910	1920	1930	1934	1935	1910	1920	1930	1934	1935	
Total	4,657	2,476	2,286	3,091	3,609	57,138	55,362	50,748	32,725	45,924	33,008
Alaska	787	413	407	537	462	154	822	392	178	222	159
Arizona	165	240	149	159	216	2,656	5,432	4,910	4,270	5,765	4,143
California	989	716	450	713	870	1,792	1,655	1,434	860	1,065	765
Colorado	993	363	218	317	357	8,523	5,167	4,852	3,495	4,874	3,503
Idaho	50	23	21	83	84	7,027	7,365	9,710	7,491	10,314	7,413
Michigan	------	------	------	[3]	------	262	512	11	13	4	3
Montana	180	92	47	89	138	12,283	13,263	8,597	3,568	8,067	5,798
Nevada	913	175	140	135	176	12,366	7,482	4,179	2,887	4,056	2,915
New Mexico	23	22	32	23	34	779	700	1,160	992	1,131	813
Oregon	33	50	14	34	49	44	102	10	57	92	66
South Dakota	260	210	406	474	567	121	88	105	100	139	100
Texas	[3]	[3]	[3]	[3]	1	364	523	469	789	988	710
Utah	209	103	209	159	188	10,446	11,755	14,451	7,623	8,623	6,198
Washington	39	7	4	7	8	205	178	30	46	45	33
Philippine Islands	7	62	185	349	446	2	22	121	238	312	224
Other	8	[3]	3	11	13	115	296	317	117	229	164

[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] At Government's buying price for domestic product, $0.64 + per fine ounce in 1934 and $0.71875 (average price paid by Treasury) in 1935.
[3] Less than $500 or 500 ounces.

Source: Reports of the Director of the Mint, Treasury Department

No. 734.—GOLD AND SILVER FOR USE IN MANUFACTURES AND THE ARTS

Yearly average or year	Gold in thousands of dollars					Silver in thousands of fine ounces				
	New material			Old material	Grand total	New material			Old material	Grand total
	United States coin[1]	Bullion and foreign coin	Total			United States coin[1]	Bullion and foreign coin	Total		
1880	3,300	5,511	8,811	1,294	10,105	464	2,126	2,590	204	2,794
1881–1885	3,715	6,991	10,706	1,863	12,568	155	3,685	3,840	315	4,155
1886–1890	3,500	8,512	12,012	4,029	16,041	155	4,831	4,986	676	5,662
1891–1895	3,500	7,948	11,448	5,060	16,508	108	6,938	7,046	951	7,997
1896–1900	3,500	9,399	12,899	4,067	16,965	77	8,937	9,014	1,200	10,214
1901–1905	3,500	18,218	21,718	6,778	28,496	77	16,447	16,524	3,002	19,526
1906–1910	3,500	26,941	30,441	7,708	38,149	77	20,807	20,884	3,669	24,553
1911–1915	2,500	28,121	30,621	9,967	40,588	77	23,438	23,516	6,928	30,444
1916–1920	1,000	38,831	39,831	22,033	61,864	77	22,011	22,089	9,126	31,214
1921–1925	1,000	29,321	30,321	29,275	59,596	77	28,538	28,616	8,189	36,805
1926–1930	1,000	23,747	24,747	30,450	55,197	77	28,059	28,137	10,325	38,461
1926	1,000	29,927	30,927	32,063	62,991	77	29,330	29,408	10,001	39,408
1927	1,000	25,450	26,450	30,369	56,820	77	28,416	28,493	10,155	38,649
1928	1,000	25,306	26,306	30,276	56,582	77	24,854	24,931	10,616	35,548
1929	1,000	23,873	24,873	32,031	56,904	77	30,900	30,978	11,382	42,359
1930	1,000	14,178	15,178	27,512	42,689	77	26,797	26,874	9,469	36,343
1931	1,000	4,931	5,931	23,227	29,158	77	24,258	24,336	9,346	33,682
1932	1,000	[2]7,490	[2]6,490	26,595	20,105	77	14,384	14,461	9,797	24,258
1933	100	[2]5,893	[2]5,793	22,806	17,013	77	10,733	10,811	18,533	29,343
1934	-------	[2]61,694	[2]61,694	75,927	14,233	77	11,415	11,492	28,186	39,679

[1] Estimated. [2] Excess of return from industry over new material issued to industry.

No. 735.—SILVER: PRICE AND VALUE OF SILVER IN THE DOLLAR

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 1933; 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	------	1908	0.535	0.535	0.589	0.483	38.64	0.414
1840	1.323	------	------	------	15.62	1.023	1909	.520	.522	.545	.508	39.74	.402
1845	1.298	------	------	------	15.92	1.004	1910	.541	.542	.576	.508	38.22	.418
1850	1.316	------	------	------	15.70	1.018							
							1911	.539	.540	.575	.521	38.33	.417
1855	1.344	------	------	------	15.38	1.039	1912	.615	.620	.656	.553	33.62	.475
1860	1.352	------	------	------	15.29	1.045	1913	.605	.612	.651	.580	34.19	.468
1865	1.338	------	------	------	15.44	1.035	1914	.553	.563	.609	.490	37.37	.428
1870	1.328	------	------	------	15.57	1.027	1915	.519	.511	.580	.478	40.48	.401
1875	1.242	1.239	1.261	1.210	16.64	.961	1916	.686	.672	.791	.573	30.78	.531
1880	1.145	1.139	1.150	1.113	18.05	.886	1917	.895	.840	1.165	.731	24.61	.692
1885	1.065	1.064	1.095	1.028	19.41	.824	1918	1.042	.984	1.019	.889	21.00	.761
1890	1.046	1.053	1.205	.958	19.75	.809	1919	1.260	1.121	1.383	1.014	18.44	.867
1892	.871	.876	.953	.830	23.72	.674	1920	1.346	1.019	1.379	.604	20.28	.788
1893	.780	.782	.850	.650	26.49	.604	1921	.805	.631	.738	.532	32.76	.488
1894	.635	.640	.700	.595	32.56	.491	1922	.754	.679	.742	.629	30.43	.525
1895	.654	.663	.690	.600	31.60	.506	1923	.700	.652	.690	.629	31.69	.505
1896	.676	.682	.703	.656	30.59	.523	1924	.745	.671	.724	.630	30.80	.519
1897	.604	.608	.661	.528	34.20	.467	1925	.703	.694	.732	.668	29.78	.537
1898	.590	.591	.623	.551	35.03	.456	1926	.629	.624	.689	.518	33.11	.483
1899	.602	.605	.648	.586	34.36	.465	1927	.571	.567	.603	.542	36.47	.438
1900	.620	.621	.658	.598	33.33	.480	1928	.586	.585	.639	.568	35.34	.452
1901	.596	.597	.645	.548	34.68	.461	1929	.536	.533	.578	.468	38.78	.412
1902	.528	.528	.569	.474	39.15	.408	1930	.387	.385	.472	.311	53.74	.298
1903	.543	.542	.624	.475	38.10	.420	1931	.320	.290	.376	.261	71.25	.224
1904	.579	.578	.625	.534	35.70	.448	1932	.391	.282	.313	.246	73.29	.218
1905	.610	.610	.665	.556	33.87	.472	1933	.398	.350	.453	.248	59.06	.271
1906	.677	.674	.724	.631	30.54	.524	1934	.481	.483	.561	.421	72.49	.373
1907	.662	.660	.710	.528	31.24	.512	1935	.639	.646	.813	.501	54.19	.500

Source of tables 734 and 735: Annual Reports of the Director of the Mint, Treasury Department.

No. 736.—COKE: Production, Exports, and Imports

Yearly average or year	Production in thousands of short tons (2,000 pounds)			By-product ovens, per cent of total	Production (value) in thousands of dollars	Exports	Imports[1]
	Total	Beehive ovens	By-product ovens			Thousand of short tons (2,000 pounds)	
1896–1900	16,265	15,741	524	3.2	30,293	265	54
1901–1905	25,673	23,566	2,107	8.2	58,581	519	150
1906–1910	36,848	31,296	5,552	15.1	91,068	904	159
1911–1915	40,394	29,000	11,394	28.2	103,739	897	98
1916–1920	52,429	27,733	24,696	47.1	320,799	1,182	34
1921–1925	42,985	11,026	31,959	74.4	251,967	734	99
1926–1930	53,724	6,687	47,037	87.6	262,212	1,027	171
1931–1935	29,965	927	29,038	96.9	145,035	716	171
1919	44,181	19,043	25,138	56.9	258,340	717	16
1920	51,345	20,511	30,834	60.0	475,981	920	41
1921	25,288	5,538	19,750	78.1	147,673	307	31
1922	37,124	8,573	28,551	76.9	238,313	512	94
1923	56,978	19,380	37,598	66.0	373,497	1,237	85
1924	44,270	10,286	33,984	76.8	244,042	660	83
1925	51,267	11,355	39,912	77.9	262,559	954	202
1926	56,866	12,489	44,377	78.0	307,773	987	285
1927	51,092	7,207	43,885	85.9	262,321	807	169
1928	52,806	4,493	48,313	91.5	252,834	1,098	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

[1] Imports entered for consumption.

No. 737.—COKE: By-Product and Beehive Production, by States

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

	1915	1920	1925	1930	1931	1932	1933	1934	1935
BY-PRODUCT									
Total	14,073	30,834	39,912	45,196	32,356	21,137	26,678	30,793	34,224
Alabama	2,070	3,124	4,582	3,987	2,943	1,401	1,669	2,109	1,994
Colorado	----	517	490	379	226	92	140	171	207
Illinois	1,687	2,137	3,012	3,576	2,479	1,428	1,501	1,650	1,669
Indiana	2,768	4,554	5,142	4,984	2,757	1,435	2,089	2,613	3,768
Maryland	313	682	1,019	1,169	818	500	702	785	930
Massachusetts	504	488	535	863	1,150	987	1,020	1,128	1,006
Michigan	(1)	1,393	1,751	2,604	2,437	2,165	2,341	2,548	2,482
Minnesota	128	675	518	641	440	386	412	417	430
New Jersey	269	726	904	919	931	806	835	910	917
New York	684	1,040	2,220	3,850	3,578	3,130	3,427	4,090	4,099
Ohio	666	5,615	7,105	6,163	3,933	2,347	3,677	4,296	5,101
Pennsylvania	3,092	7,730	9,853	12,529	7,525	4,038	6,170	6,834	8,078
West Virginia	141	447	1,056	1,479	1,265	903	1,074	1,344	1,604
All other States	1,749	1,706	1,725	2,051	1,873	1,520	1,621	1,897	1,939
BEEHIVE									
Total	27,508	20,511	11,355	2,776	1,128	652	911	1,029	917
Pennsylvania	22,531	15,908	9,574	2,011	856	506	670	721	564
Ohio	19	87	156	----	----	----	----	----	----
West Virginia	1,250	1,381	490	422	114	49	113	172	155
Alabama	1,001	890	88	----	----	----	----	----	----
Kentucky	285	273	(1)	----	----	----	----	----	----
Tennessee	234	163	128	25	17	11	12	6	3
Virginia	630	1,028	422	220	99	56	70	78	138
Colorado	671	273	155	79	(1)	24	35	38	49
Utah	(1)	(1)	146	7	(1)	6	10	13	6
All other States	887	509	196	12	43	1	(2)	2	2

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

Source of tables 736 and 737: Bureau of Mines, Department of the Interior.

No. 738.—COAL PRODUCTION: QUANTITY AND VALUE

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 of 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	1913	569,960	91,525	478,435	195,181	565,235
1831–1840	1,032	722	310	1914	513,525	90,822	422,704	188,181	493,309
1841–1850	4,535	2,697	1,837	1915	531,619	88,995	442,624	184,653	502,038
1851–1860	12,513	7,645	4,868						
1861–1865	20,538	11,142	9,396	1916	590,098	87,578	502,520	202,010	665,116
				1917	651,402	99,612	551,791	283,651	1,249,273
1866–1870	31,706	16,281	15,425	1918	678,212	98,826	579,386	336,480	1,491,810
1871–1875	52,179	23,407	28,773	1919[1]	553,952	88,092	465,860	364,927	1,160,616
1876–1880	62,261	25,800	36,461	1920	658,265	89,598	568,667	434,252	2,129,933
1881–1885	107,291	36,198	71,093						
1886–1890	138,398	43,952	94,446	1921[1]	506,395	90,473	415,922	452,305	1,199,984
				1922	476,951	54,683	422,268	273,700	1,274,820
1891–1895	178,822	53,405	125,416	1923	657,904	93,339	564,565	506,787	1,514,621
1896–1900	227,123	55,625	171,498	1924[1]	571,613	87,927	483,687	477,231	1,062,626
1901–1905	339,357	66,854	272,503	1925[1]	581,870	61,817	520,053	327,665	1,060,402
1906–1910	454,555	81,142	373,413						
1911–1915	520,189	89,233	439,955	1926[1]	657,804	84,437	573,367	474,164	1,183,417
				1927[1]	597,859	80,096	517,763	420,942	1,029,652
1916–1920	626,386	92,741	533,645	1928[1]	576,093	75,348	500,745	393,638	933,774
1921–1925	558,947	77,648	481,299	1929[1]	608,817	73,828	534,989	385,643	952,781
1926–1930[1]	595,497	76,619	518,878	1930[1]	536,911	69,385	467,526	354,574	795,483
1908	415,843	83,269	332,574	1931[1]	441,735	59,646	382,089	296,355	588,895
1909	460,815	81,070	379,744	1932[1]	359,565	49,855	309,710	222,375	406,677
1910	501,596	84,485	417,111	1933[1]	383,172	49,541	333,631	206,718	445,788
1911	496,371	90,464	405,907	1934[1]	416,536	57,168	359,368	244,152	628,112
1912	534,467	84,362	450,105	1935[1 2]	420,327	51,003	369,324	207,600	699,900

State	1911–1915	1916–1920	1921–1925	1926–1930[1]	1931[1]	1932[1]	1933[1]	1934[1]	1935[1 2]
Total quantity	520,189	626,386	558,947	595,497	441,735	359,565	383,172	416,536	420,327
Anthracite (Pa.)	89,233	92,741	77,648	76,619	59,646	49,855	49,541	57,168	51,003
Bituminous	439,956	533,645	481,299	518,878	382,089	309,710	333,631	359,368	369,324
Alabama	15,864	17,834	18,097	18,380	11,999	7,856	8,760	9,142	8,412
Arkansas	1,986	1,980	1,261	1,579	1,154	1,033	883	856	[3]
Colorado	9,433	11,595	10,049	9,665	6,604	5,599	5,230	5,211	5,872
Illinois	58,320	78,255	68,523	57,310	44,303	33,475	37,413	41,272	43,845
Indiana	16,060	25,515	21,677	18,467	14,295	13,324	13,761	14,794	15,440
Iowa	7,442	7,571	4,952	3,879	3,388	3,862	3,195	3,367	3,468
Kansas	6,811	6,556	3,827	3,215	1,987	1,953	2,218	2,508	[4]
Kentucky	18,380	30,108	43,743	61,116	39,964	35,300	36,100	38,525	40,478
Maryland	4,549	4,158	2,033	2,700	2,006	1,429	1,531	1,627	1,650
Michigan	1,271	1,301	976	705	359	446	407	622	550
Missouri	4,048	5,086	3,011	3,538	3,621	4,070	3,432	3,352	[4] 6,104
Montana	2,972	4,008	2,881	3,139	2,378	2,125	2,152	2,566	2,990
New Mexico	3,618	3,728	2,772	2,612	1,553	1,263	1,226	1,259	1,382
North Dakota	506	787	1,221	1,622	1,519	1,740	1,782	1,754	[5] 1,910
Ohio	28,553	40,609	31,590	21,111	20,411	13,909	19,589	20,691	20,610
Oklahoma	3,720	4,292	2,741	3,346	1,908	1,255	1,238	1,208	[3] 2,570
Pennsylvania	157,229	168,532	133,721	137,038	97,659	74,776	79,296	89,826	90,795
Tennessee	6,288	6,208	5,078	5,544	4,721	3,538	3,775	4,136	4,110
Texas	2,201	1,980	1,084	1,107	716	637	822	759	760
Utah	2,999	4,693	4,593	4,683	3,350	2,852	2,675	2,406	2,985
Virginia	7,924	10,158	10,648	12,521	9,699	7,692	8,179	9,377	9,915
Washington	3,261	3,576	2,626	2,513	1,846	1,591	1,394	1,383	1,575
West Virginia	69,353	86,369	97,044	136,315	101,473	85,609	94,344	98,134	98,589
Wyoming	6,907	8,555	6,812	6,526	4,994	4,171	4,013	4,368	5,150
Miscellaneous	259	190	239	246	182	204	217	224	164

[1] Exclusive of product of wagon mines.
[2] Preliminary.
[3] Arkansas included with Oklahoma.
[4] Kansas included with Missouri.
[5] Includes South Dakota.

Source: Bureau of Mines, Department of the Interior.

No. 739.—COAL: Exports, Imports, and Bunker Coal Laden on Vessels in Foreign Trade

[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		Bunker coal	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1891–1895[2]	3,028	10,012	1,128	4,929	1,900	5,081	1,237	3,984	-------	-------
1896–1900[2]	4,710	13,300	1,469	6,268	3,241	7,032	1,403	3,831	-------	-------
1901–1905[2]	7,750	24,254	1,846	8,782	5,903	15,472	2,287	6,376	-------	-------
1906–1910[3]	12,018	36,805	2,646	13,034	9,372	23,770	1,727	4,530	[4] 5,638	[4] 18,291
1911–1915	19,132	58,362	3,753	19,624	15,379	38,738	1,437	4,069	7,289	23,890
1916	23,143	68,298	4,166	22,470	18,977	45,828	1,536	4,734	7,826	27,492
1917	26,649	110,413	5,364	30,910	21,285	79,503	1,304	4,842	6,883	31,845
1918	24,392	107,881	4,436	29,216	19,956	78,665	1,334	6,898	5,532	29,868
1919	22,402	120,377	4,443	36,668	17,959	83,709	977	5,473	7,343	48,206
1920	39,215	349,811	4,825	45,538	34,390	304,273	1,140	6,992	9,362	82,462
1921	24,829	168,222	4,176	45,625	20,653	122,597	1,131	7,457	7,548	52,278
1922	13,449	91,242	2,366	25,351	11,083	65,892	4,726	28,250	4,120	27,913
1923	23,700	154,124	4,545	49,577	19,155	104,547	1,949	12,249	4,547	31,470
1924	18,855	111,039	3,587	40,068	15,268	70,971	478	3,019	3,983	22,883
1925	18,429	100,163	2,888	31,761	15,591	68,403	879	5,846	4,344	23,398
1926	35,091	196,905	3,598	41,086	31,493	155,819	1,201	9,301	6,907	38,025
1927	19,051	104,257	2,969	32,928	16,082	71,329	597	3,284	4,076	22,077
1928	17,411	92,121	2,979	32,657	14,433	59,464	831	4,989	3,834	20,258
1929	18,603	98,310	3,041	32,569	15,562	65,742	877	5,486	3,827	19,575
1930	16,455	83,694	2,278	24,509	14,176	59,186	818	5,525	3,122	15,697
1931	12,415	60,457	1,588	17,062	10,827	43,395	754	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	[5] 584	[5] 3,432	1,175	5,241
1934	10,863	51,464	1,159	11,082	9,704	40,382	[5] 587	[5] 4,190	1,179	5,798
1935	10,135	48,424	1,436	13,186	8,699	35,238	[5] 705	[5] 4,350	1,407	7,338

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

No. 740.—COAL: Shipments, Average Value per Ton, and Men Employed

Calendar year	Thousand tons (2,000 pounds)				Average value per ton	Average number of men employed	Average number of days worked	Average tonnage per man—		Per cent mined by machine	Capacity of mines[1] (million tons[2])
	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	[3]	71
1895	52,093	1,315	4,591	-------	1.41	142,917	196	2.07	406	[3]	90
1900	50,710	1,208	5,550	-------	1.49	144,206	166	2.40	398	[3]	105
1905	69,053	1,571	7,036	-------	1.83	165,406	215	2.18	470	[3]	110
1910	73,623	2,021	8,841	-------	1.90	169,497	229	2.17	498	[3]	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	53,708	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
1932	43,862	2,810	3,150	-------	4.46	121,243	162	2.54	411	3.4	94
1933	43,335	3,250	2,956	-------	4.17	104,633	182	2.60	473	3.3	83
1934	50,756	3,286	3,126	-------	4.27	109,050	207	2.53	524	3.5	84
BITUMINOUS											
1890	87,373	7,008	1,607	15,332	.99	192,204	226	2.56	579	[4] 5.3	151
1895	106,287	8,340	2,086	18,404	.86	239,962	194	2.90	563	[5] 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	639,647	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
1932	285,508	20,393	2,781	1,028	1.31	406,380	146	5.22	762	78.8	653
1933	306,280	23,052	2,858	1,441	1.34	418,703	167	4.78	797	80.0	615
1934	328,432	26,113	3,175	1,648	1.75	458,011	178	4.40	785	79.2	622

[1] Calculated at 303.5 working-days in the anthracite field and 308 working-days in the bituminous field.
[2] Of 2,000 pounds. [3] Not available. [4] 1891. [5] 1896.

Sources: Table 397, Bureau of Foreign and Domestic Commerce; table 740, Bureau of Mines, Department of the Interior.

No. 741.—CONSUMPTION OF BITUMINOUS COAL: BY CONSUMING CLASSES

	1889	1899	1909	1919	1929	1932	1933	1934	1935 [1]
Consumption (million net tons of 2,000 lbs.), total	95.8	190.3	370.3	481.7	519.6	306.9	321.7	347.0	357.2
Colliery fuel	1.4	3.1	9.5	11.1	4.7	2.8	2.9	3.2	3.3
Locomotive fuel, all steam roads	26.5	53.4	106.0	124.7	118.6	[2] 66.5	[2] 66.2	[2] 70.5	[2] 71.0
Bunkers, vessels in foreign trade	1.9	3.8	6.8	8.2	4.3	1.4	1.3	1.3	1.6
Coke ovens, beehive and by-product	16.0	30.2	59.4	65.6	86.8	31.9	40.1	46.0	51.0
Electric public utilities [3]	------	7.6	18.7	35.1	44.9	30.3	30.6	33.6	34.8
All other uses [4]	50.0	92.2	169.9	237.0	260.3	174.1	180.7	192.5	195.6
Per cent of total consumption	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Colliery fuel	1.5	1.6	2.6	2.3	.9	.9	.9	.9	.9
Locomotive fuel, all steam roads	27.7	28.1	28.6	25.9	22.8	[2] 21.7	[2] 20.6	[2] 20.3	19.9
Bunkers, vessels in foreign trade	2.0	2.0	1.9	1.7	.8	.4	.4	.4	.4
Coke ovens, beehive and by-product	16.7	15.9	16.0	13.6	16.7	10.4	12.4	13.2	14.3
Electric public utilities	------	4.0	5.0	7.3	8.6	9.9	9.5	9.7	9.7
All other uses	52.1	48.4	45.9	49.2	50.2	56.7	56.2	55.5	54.8

[1] Preliminary data.
[2] Class I roads.
[3] Includes electric central stations and street railways and certain minor plants. Figures include a small amount of anthracite consumed. Data not available for 1889.
[4] Obtained by subtracting known items from total consumption. Includes general manufacturing, domestic, and miscellaneous uses.

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

No. 742.—LABOR STRIKES IN COAL MINES

Year	Men on strike	Man-days lost	Average days lost per man	Year	Men on strike	Man-days lost	Average days lost per man
1911	41,413	983,737	24	1923	197,214	3,868,543	20
1912	311,056	12,527,305	40	1924	129,452	5,362,748	41
1913	135,395	3,049,412	23	1925	186,369	16,433,036	88
1914	161,720	11,013,667	68	1926	174,724	6,707,778	38
1915	67,190	2,467,431	37	1927 [1]	*193,322*	*26,675,109*	*138*
1916	170,633	3,344,586	20	1928	86,870	4,605,086	53
1917	160,240	2,348,399	15	1929	58,052	468,453	8
1918	79,395	508,526	6	1930	41,000	1,102,758	27
1919	453,418	15,761,410	35	1931	110,565	2,127,984	19
1920	282,419	5,914,473	21	1932	97,126	7,841,991	81
1921	151,263	3,106,103	21	1933	176,451	4,413,304	25
1922	603,031	73,497,043	122	1934	131,072	2,155,953	16

State	1931		1932		1933		1934	
	Men on strike	Man-days lost	Men on strike	Man-days lost	Men on strike	Man-days lost	Men on strike	Man-days lost
Grand total	110,565	2,127,984	97,126	7,841,991	176,451	4,413,304	131,072	2,155,953
Anthracite (Pa.)	*65,907*	*570,664*	*34,259*	*289,523*	*50,948*	*686,692*	*38,994*	*774,856*
Total bituminous	44,658	1,557,320	62,867	7,552,468	125,503	3,726,612	92,078	1,381,097
Arkansas	860	21,153	1,964	103,522	1,225	8,241	79	948
Illinois	9,400	397,263	32,961	4,397,006	[2] 3,187	130,197	[2] 2,680	47,639
Indiana	883	14,181	3,820	507,051	3,151	48,210	90	300
Iowa	824	24,500	389	7,503	4,462	186,763	3,007	38,900
Kentucky	2,920	59,240	721	30,725	5,302	69,037	5,665	62,723
Michigan	597	26,185	------	------	562	62,990	------	------
Missouri	679	34,671	301	48,590	463	8,040	1,029	76,806
Montana	------	------	748	28,100	------	------	------	------
Ohio	5,591	138,155	15,290	2,130,292	3,647	45,942	4,062	44,408
Oklahoma	501	19,812	970	46,903	219	1,296	156	8,118
Pennsylvania	12,783	398,932	2,021	113,696	86,832	2,896,545	27,359	309,905
Tennessee	1,133	28,767	550	35,967	375	10,125	500	9,360
Virginia	------	------	*140*	*140*	*3,226*	*56,442*	*3,701*	*30,783*
Washington	------	------	958	42,266	894	87,270	877	17,800
West Virginia	8,441	393,883	1,510	44,307	8,723	50,929	27,539	338,272
Other States	46	578	524	16,400	3,235	64,585	15,334	395,135

[1] Owing to unusual conditions, figures tend to understate extent of the strike and number of idle miners.
[2] Not including men idle through labor factional trouble due to jurisdictional claims of a rival union.

Source: Bureau of Mines, Department of the Interior.

No. 743.—COAL: Retail Prices, for Household Use, as of January 15

[Prices (in dollars) of coal per ton of 2,000 pounds unless otherwise specified]

City	Anthracite,[1] chestnut					Bituminous					
	1925	1930	1934	1935	1936	1925	1930	1933	1934	1935	1936
Atlanta, Ga.						7.32	7.80	6.12	7.02	7.02	7.38
Baltimore, Md.	[2] 15.75	13.75	13.00	11.54	11.50	7.38	[3] 7.89	[3] 6.86	[3] 7.64	[3] 7.17	[3] 7.29
Birmingham, Ala.						7.79	7.65	5.07	6.07	6.29	6.36
Boston, Mass.	16.00	15.50	13.50	13.50	12.90						
Bridgeport, Conn.	15.38	15.50	13.75	13.17	13.00						
Buffalo, N. Y.	13.56	13.32	12.64	12.65	12.75						
Butte, Mont.						11.05	11.15	9.72	9.75	9.76	10.00
Charleston, S. C.	[2] 17.10					11.00	9.67	8.67	9.92	10.00	9.33
Chicago, Ill.	16.70	16.40	13.79	13.81	13.79	8.51	[4] 8.53	[4] 7.25	[4] 8.21	[4] 8.32	[4] 8.59
Cincinnati, Ohio						7.21	[4] 6.30	[4] 5.25	[4] 6.10	[4] 6.06	[4] 6.26
Cleveland, Ohio	14.88	14.75	12.13	12.29	13.13	8.37	[4] 7.10	[4] 5.52	[4] 6.20	[4] 6.77	[4] 6.66
Columbus, Ohio						6.68	[4] 6.07	[4] 4.92	[4] 6.11	[4] 6.41	[4] 6.18
Dallas, Tex.	[5] 17.75	[5] 15.50	[5] 14.00	[5] 13.50	[5] 13.00	14.22	12.92	10.75	10.50	10.25	10.29
Denver, Colo.	[6] 16.33	[6] 14.75	[6] 15.58	[6] 15.50	[6] 15.81	9.47	10.45	7.02	8.03	7.75	7.69
Detroit, Mich.	15.38	15.50	12.45	12.19	12.45	8.93	[4] 8.39	[4] 5.80	[4] 6.86	[4] 7.17	[4] 7.36
Fall River, Mass.	15.83	16.25	14.25	14.25	13.50						
Houston, Tex.			[5] 14.50	[5] 14.50	[5] 14.33	12.38	13.60	10.50	11.60	11.75	11.71
Indianapolis, Ind.	16.50					7.15	[4] 6.01	[4] 5.05	[4] 5.99	[4] 6.17	[3] 5.76
Jacksonville, Fla.						12.00	14.00	9.00	11.13	11.13	11.13
Kansas City, Mo.	[5] 15.17	[5] 12.55	[5] 10.50	[5] 10.50	[5] 10.74	8.13	7.18	5.61	5.85	6.03	5.85
Little Rock, Ark.	[5] 15.00	[5] 13.50	[5] 10.50	[5] 10.50	[5] 10.00	11.00	9.95	8.22	8.33	8.17	8.41
Los Angeles, Calif.						10.31	10.50	10.25	17.04	16.78	16.74
Louisville, Ky.						7.37	[4] 7.01	[4] 4.64	[4] 5.46	[4] 6.15	[4] 5.66
Manchester, N. H.	17.00	17.00	15.00	15.50	14.83						
Memphis, Tenn.						8.11	7.85	5.68	7.18	7.19	7.43
Milwaukee, Wis.	16.65	15.85	13.00	13.30	14.00	9.69	[4] 7.68	[4] 6.94	[4] 7.51	[4] 7.98	[4] 8.43
Minneapolis, Minn.	17.95	17.85	15.25	15.55	15.95	10.92	[4] 10.56	[4] 9.56	[4] 9.93	[4] 10.30	[4] 10.68
Mobile, Ala.						10.02	9.63	7.32	8.44	9.01	8.99
Newark, N. J.	13.43	13.46	12.50	11.40	11.40						
New Haven, Conn.	15.20	15.17	13.90	13.65	13.15						
New Orleans, La.						11.19	10.96	8.57	10.10	10.60	10.60
New York, N. Y.	14.33	14.13	12.35	12.14	11.99						
Norfolk, Va.	15.50	14.00	14.00	13.50	13.50	9.27	[4] 7.25	[4] 6.50	[4] 8.00	[4] 8.00	[4] 7.63
Omaha, Nebr.						10.04	9.69	8.35	8.59	8.55	8.62
Peoria, Ill.						6.79	6.75	6.09	6.55	7.00	7.24
Philadelphia, Pa.	[2] 15.32	[2] 14.50	12.00	10.96	10.54						
Pittsburgh, Pa.	16.50	15.00	12.75	12.75	12.75	6.83	5.29	3.26	4.72	4.20	4.40
Portland, Me.	16.56	16.80	14.25	14.25	14.25						
Portland, Oreg.						13.64	13.46	11.52	12.71	11.55	11.97
Providence, R. I.	[7] 16.00	[7] 16.00	[7] 14.50	[7] 14.50	[7] 14.50						
Richmond, Va.	15.50	15.00	14.00	13.00	13.50	8.83	[4] 8.38	[4] 6.83	[4] 7.83	[4] 7.67	[4] 8.08
Rochester, N. Y.	14.15	14.25	12.85	12.73	12.00						
St. Louis, Mo.	16.88	16.45	13.72	13.86	13.86	6.69	6.75	5.44	5.54	5.99	5.38
St. Paul, Minn.	17.95	17.85	15.25	15.55	15.95	11.57	[4] 10.27	[4] 9.40	[4] 9.78	[4] 10.16	[4] 10.49
Salt Lake City, Utah	[8] 18.50	[8] 18.00				8.40	8.37	7.01	7.80	7.17	7.61
San Francisco, Calif.	[8] 26.50	[8] 26.00	[8] 25.63	[8] 25.63	[8] 23.95	17.28	16.98	15.00	16.06	15.21	16.33
Savannah, Ga.	[9] 17.00					[9] 11.50	[9] 10.24	[9] 8.28	[9] 10.04	[9] 10.03	[9] 9.16
Scranton, Pa.	10.62	9.92	8.60	8.44	8.56						
Seattle, Wash.						10.21	10.68	9.79	9.92	9.66	10.16
Springfield, Ill.						4.25	4.34	3.68	4.06	4.54	4.35
Washington, D. C.	[2] 15.67	[2] 15.23	[2] 14.15	[2] 14.00	[2] 13.20	[2,4] 8.88	[2,4] 8.63	[2,4] 8.18	[2,4] 8.64	[2,4] 9.00	[2,4] 9.00

[1] The term "anthracite" signifies Pennsylvania anthracite, except as indicated by notes.
[2] Per ton of 2,240 pounds.
[3] Run of mine, high volatile.
[4] Prepared sizes, high volatile.
[5] Arkansas anthracite, egg or furnace.
[6] Colorado anthracite, furnace, 1 and 2 mixed.
[7] 50 cents per ton additional is charged for binning.
[8] New Mexico anthracite, Cerillos egg.
[9] All coal sold is weighed by the city; charge of 10 cents per ton or half-ton is included in the price.

Source: Bureau of Labor Statistics, Department of Labor.

No. 744.—COAL: AVERAGE AND RELATIVE RETAIL PRICES[1] IN TON LOTS

Year	Anthracite, Chestnut				Anthracite, Stove				Bituminous			
	Average price		Relative price		Average price		Relative price		Average price		Relative price	
1913[2]	Dollars 7.91		100		Dollars 7.73		100		Dollars 5.43		100	
	Jan.	July	Jan.	July	Jan.	July	Jan.	July	Jan.	July	Jan.	July
1920	12.77	14.33	161	181	12.59	14.28	163	185	8.81	10.55	162	194
1923	15.46	15.05	195	190	15.43	15.10	200	196	11.18	10.04	206	185
1924	15.76	15.10	199	191	15.77	15.24	204	197	9.75	8.94	180	165
1925	15.37	14.93	194	189	15.45	15.14	200	196	9.24	8.61	170	159
1926	(3)	15.19	(3)	192	(3)	15.43	(3)	200	9.74	8.70	179	160
1927	15.42	14.81	195	187	15.66	15.15	203	196	9.96	8.91	183	164
1928	15.08	14.63	191	185	15.44	14.91	200	193	9.30	8.69	171	160
1929	15.06	14.63	190	185	15.38	14.94	199	193	9.09	8.62	167	159
1930	15.00	14.53	190	184	15.33	14.84	198	192	9.11	8.65	168	159
1931	14.88	14.59	188	184	15.12	14.61	196	189	8.87	8.09	163	149
1932	14.97	13.16	189	166	15.00	13.37	194	173	8.17	7.50	150	138
1933	13.61	12.26	172	155	13.82	12.47	179	161	7.46	7.64	137	141
1934	13.25	12.60	167	159	13.44	12.79	174	166	8.24	8.23	152	152
1935	13.01	11.86	164	150	13.21	12.06	171	156	8.37	8.12	154	149
1936	12.96	12.43	164	157	13.17	12.57	170	163	8.58	8.13	158	150

[1] Prices represent combined averages for cities shown in table 743.
[2] Average of prices for January and July; this is the base for relative prices. [3] Insufficient data.

No. 745.—NATURAL GAS AND NATURAL GASOLINE

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 la·ge 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				1927	1,445,428	317,930	1,341,248	1,641,144	118,688
1911-1915	575,708	88,492	11,602	30,317	2,481	1928	1,568,139	363,726	1,473,434	1,814,034	138,944
1916-1920	762,681	154,590	412,787	268,038	48,174	1929	1,917,693	413,276	1,959,294	2,233,688	158,410
1921-1925	947,419	229,002	820,445	762,151	82,205	1930	1,943,421	416,090	2,088,778	2,210,494	128,160
1926-1930	1,637,540	362,238	1,613,811	1,852,490	136,123	1931	1,686,436	392,816	1,790,119	1,831,918	63,732
1931-1935	1,688,724	392,873	1,703,502	1,588,623	60,253	1932	1,555,090	384,632	1,499,756	1,523,800	49,244
1924	1,141,521	253,856	1,016,276	933,861	82,233	1933	1,555,474	368,540	1,551,464	1,420,000	54,368
1925	1,188,571	265,271	1,040,390	1,127,470	120,383	1934	1,770,721	395,378	1,776,172	1,535,360	60,523
1926	1,313,019	300,168	1,206,300	1,363,090	136,412	1935[1]	1,875,000	423,000	1,900,000	1,632,036	73,400

State	Natural gas produced and marketed					Natural gas consumed	Natural gasoline produced		
	1920	1925	1930	1933	1934	1934	1933	1934	1935[1]
Total[2]	798,210	1,188,571	1,943,421	1,555,474	1,770,721	1,764,988	1,420,000	1,535,360	1,632,036
Arkansas	19,050	41,878	18,585	8,288	7,024	25,075	15,215	13,033	13,191
California	66,041	187,789	334,789	259,799	268,122	268,122	496,293	506,272	527,420
Illinois	3,013	4,165	2,890	1,631	1,868	45,084	3,673	3,810	(3)
Kansas	33,140	26,917	37,630	41,596	46,909	65,599	24,869	27,891	32,177
Kentucky	15,297	10,770	28,023	31,380	33,124	14,106	4,514	4,171	(3)
Louisiana	46,219	152,620	278,341	197,826	225,713	137,413	36,973	40,558	48,718
Mississippi			179	8,679	8,245	7,219			
Montana	818	1,496	10,060	14,391	14,971	[4] 12,444	1,295	1,237	(3)
New Mexico		(3)	9,497	19,148	24,075	15,625	19,149	21,748	(3)
New York	19,127	[5] 6,210	[5] 9,624	[5] 6,865	[5] 6,278	31,209	96	85	(3)
Ohio	136,872	43,235	63,394	47,929	50,330	94,998	4,662	5,881	(3)
Oklahoma	126,689	249,285	348,116	245,759	254,457	249,721	360,488	355,438	379,428
Penn	161,397	101,632	88,706	[6] 63,579	[6] 86,238	87,474	11,686	10,781	(3)
Texas	49,467	[7] 134,872	[7] 517,880	[7] 475,691	[7] 602,976	501,047	366,515	466,570	504,160
W. Virginia	100,289	180,345	144,180	100,653	109,161	52,353	39,848	41,854	44,468
Wyoming	10,312	45,539	43,219	25,830	23,148	16,844	34,103	34,799	(3)

[1] Preliminary. [2] Includes other States not shown separately. [3] Separate data not available.
[4] Includes 68,000,000 cubic feet piped from Canada.
[5] Includes 68,000,000 cubic feet piped to Canada in 1925, 107,000,000 in 1930, 29,000,000 in 1933, and 24,000,000 in 1934.
[6] Includes 40,000,000 cubic feet piped to Canada in 1933, and 49,000,000 in 1934.
[7] Includes 64,000,000 cubic feet piped to Mexico in 1925, 1,691,000,000 in 1930, 2,089,000,000 in 1933, and 5,728,000,000 in 1934.

Sources: Table 744, Bureau of Labor Statistics, Department of Labor; table 745, Bureau of Mines Department of the Interior.

No. 746.—MANUFACTURED-GAS INDUSTRY: MATERIALS USED AND PRODUCTS

NOTE.—These figures cover establishments engaged primarily in the commercial manufacture of gas to be delivered through mains; they do not cover establishments which merely distribute purchased gas. Blast-furnace gas and, with some exceptions, byproduct coke-oven gas are not included

Material or product	Unit	Quantity (thousands of unit specified)				Value (thousands of dollars)	
		1929	1931 As published; comparable with 1929	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]
Materials used:							
Coal for gas making:							
Anthracite	Long ton [2]	68	42	39	40		
Bituminous	Short ton [3]	8,918	9,055	9,009	7,473		
Oil for gas making	Barrel [4]	4,683	1,607	1,242	935		
Oil for carbureting	do	16,024	13,893	8,887	11,178		
Gas purchased	M cu. ft.	[5] 103,209	[5] 96,226	[5] 96,226	93,854		
Gas and byproducts, total value.						348,984	277,304
Gas sold (from production in industry).	M cu. ft.	[6]	283,382	281,453	226,000	311,548	248,669
Coke for sale	Short ton [3]	3,444	3,599	3,583	3,182	26,573	20,671
Tar for sale	Gallon	163,695	149,891	149,195	113,581	6,597	4,521
Other byproducts						4,266	3,443

[1] For reason of adjustment, see last paragraph of general note, p. 733. [2] 2,240 pounds.
[3] 2,000 pounds. [4] 42 gallons.
[5] Includes 5,281,902 M cu. ft. in 1929 and 6,184,801 M cu. ft. in 1931 purchased from establishments in the gas industry. No similar duplication is included in the corresponding figure for 1933.
[6] Not available.

Source: Bureau of the Census, Department of Commerce.

No. 747.—MANUFACTURED-GAS INDUSTRY: SUMMARY OF STATISTICS

NOTE.—Companies formerly distributing manufactured gas but which were distributing natural gas at the beginning of 1935 have been excluded for all years shown in this table. Companies selling mixed manufactured and natural gas are included with these data

	1929	1930	1931	1932	1933	1934	1935
Population served, Dec. 31 (thousands)	47,190	48,348	49,049	48,803	49,189	49,441	49,514
Miles of main, Dec. 31	83,700	87,200	91,400	91,500	92,800	93,000	94,400
Employees, Dec. 31	74,200	73,800	71,500	65,600	69,200	71,400	70,800
Total gas produced and purchased (million cubic feet)	425,351	423,861	409,233	380,300	365,207	384,547	387,833
Gas produced	306,948	301,866	292,336	259,552	242,393	249,935	248,331
Gas purchased	118,403	121,995	116,897	120,748	122,814	134,612	139,502
Total number of customers, Dec. 31 (thousands)	10,209	10,227	10,149	9,675	9,627	9,819	9,997
Domestic	9,715	9,715	9,611	9,179	9,110	9,259	9,418
House heating	43	53	58	60	80	116	132
Industrial and commercial	444	452	473	427	428	435	438
Miscellaneous	7	7	7	9	9	9	9
Total gas sales to consumers (million cubic feet)	392,653	394,222	382,466	350,564	332,731	345,956	354,357
Domestic	275,131	276,389	270,709	256,893	238,269	231,826	222,763
House heating	14,056	18,094	19,582	19,351	20,293	28,428	35,279
Industrial and commercial	101,305	97,452	90,147	72,075	72,169	83,643	94,182
Miscellaneous	2,161	2,287	2,028	2,245	1,997	2,059	2,133
Total revenue from consumers (thousand dollars)	433,477	435,641	424,444	401,168	370,342	372,816	371,535
Domestic	332,215	333,178	326,950	317,364	291,941	286,859	279,267
House heating	11,878	14,943	15,747	14,884	14,258	18,970	22,764
Industrial and commercial	87,519	85,646	80,177	67,316	62,626	65,514	68,004
Miscellaneous	1,865	1,874	1,570	1,604	1,517	1,473	1,500

Source: American Gas Association.

No. 748.—TOTAL NET MONTHLY BILL AND PRICE PER THERM FOR SPECIFIED AMOUNTS OF GAS: BASED ON RATES AS OF JAN. 15, 1936, BY CITIES

City	Kind of gas	Heating value per cubic foot in British thermal units	Equipment and average monthly consumption for 5-room house							
			Range, 10.6 therms[2]		Range and manual water heater, 19.6 therms[2]		Range and automatic[3] water heater, 30.6 therms[2]		Range, automatic[3] water heater, and refrigerator, 40.6 therms[2]	
			Monthly bill	Price per therm	Monthly bill	Price per therm	Monthly bill	Price per therm	Monthly bill	Price per therm
			Dollars	*Cents*	*Dollars*	*Cents*	*Dollars*	*Cents*	*Dollars*	*Cents*
Atlanta	N	980	1.78	16.8	2.70	13.8	3.77	12.3	4.38	10.8
Baltimore	M	500	1.80	17.0	3.33	17.0	4.78	15.6	6.08	15.0
Birmingham	M	534	1.59	15.0	2.94	15.0	4.58	15.0	6.08	15.0
Boston	M	535	2.48	23.4	4.16	21.2	5.70	18.6	7.19	17.7
	M	535	2.28	21.5	4.21	21.5	5.63	18.4	7.12	17.5
Buffalo	X	900	.77	7.2	1.42	7.2	2.21	7.2	2.93	7.2
Butte	N	850	1.11	10.5	1.59	8.1	2.17	7.1	2.70	6.7
Charleston, S. C.	M	550	2.70	25.5	4.98	25.4	7.19	23.5	9.01	22.2
Chicago	X	800	1.94	18.3	3.33	17.0	4.69	15.3	5.39	13.3
Cincinnati	X	865	.91	8.6	1.63	8.3	2.45	8.0	3.16	7.8
Cleveland	*N*	*1,100*	*[4] .75*	*7.1*	*.89*	*4.5*	*1.43*	*4.7*	*1.93*	*4.8*
Columbus	N	1,050	[4] .75	7.1	1.03	5.3	1.60	5.2	2.13	5.2
	N	1,050	[4] .75	7.1	.90	4.6	1.40	4.6	1.86	4.6
Dallas	N	1,050	1.26	11.9	1.84	9.4	2.54	8.3	3.19	7.9
Denver[5]	N	845	2.14	20.2	3.30	16.9	4.15	13.6	4.78	11.8
Detroit[6]	M	530	1.71	16.1	3.16	16.1	4.93	16.1	6.55	16.1
Fall River	M	528	2.53	23.9	4.06	20.7	5.94	19.4	7.64	18.8
Houston	N	1,000	1.19	11.2	1.77	9.1	2.49	8.1	3.14	7.7
Indianapolis	M	570	1.77	16.7	3.27	16.7	5.10	16.7	6.76	16.7
Jacksonville	M	535	4.03	38.0	6.34	32.4	8.20	26.8	9.88	24.3
Kansas City[7]	N	1,000	1.36	12.8	2.18	11.1	3.12	10.2	3.98	9.8
Little Rock[5]	N	1,000	1.11	10.4	1.61	8.2	2.23	7.3	2.79	6.9
Los Angeles[8]	N	1,100	1.26	11.8	1.82	9.3	2.51	8.2	3.14	7.7
Louisville	X	900	.89	8.4	1.39	7.1	2.00	6.5	2.56	6.3
Manchester	M	525	2.85	26.9	4.82	24.6	5.67	18.5	6.92	17.0
Memphis	N	980	1.51	14.3	2.48	12.7	3.60	11.8	4.21	10.4
Milwaukee	M	520	1.73	16.3	3.03	15.4	4.61	15.1	6.02	14.8
Minneapolis	X	800	1.93	18.2	3.03	15.5	4.37	14.3	5.55	13.7
Mobile	N	960	2.25	21.2	3.43	17.5	4.75	15.5	5.43	13.4
Newark	M	525	2.69	25.4	4.31	22.0	6.06	19.8	7.30	18.0
New Haven	M	528	2.41	22.7	4.11	21.0	6.20	20.3	8.09	19.9
New Orleans	N	950	1.26	11.9	2.10	10.7	3.15	10.3	4.09	10.1
New York:[9]										
Bronx, Manhattan, and Queens	M	540	2.30	21.7	4.26	21.7	6.65	21.7	8.82	21.7
Brooklyn	M	540	2.34	22.1	3.80	19.4	5.25	17.2	6.42	15.8
	M	540	2.44	23.0	4.05	20.7	6.03	19.7	7.82	19.3
	M	540	2.58	24.4	4.37	22.3	6.56	21.4	8.54	21.0
Richmond	M	540	3.10	29.3	5.10	26.0	7.08	23.1	8.87	21.8
Norfolk	M	530	2.40	22.6	4.36	22.2	6.62	21.6	8.51	21.0
Omaha	M	555	1.53	14.4	2.42	12.3	3.51	11.5	4.50	11.1
Peoria	N	1,000	2.12	20.0	3.64	18.6	4.67	15.3	5.57	13.7
Philadelphia	M	530	1.80	17.0	3.25	16.6	5.01	16.4	6.61	16.3
Pittsburgh[5]	N	1,130	[4] 1.00	9.4	1.04	5.3	1.63	5.3	2.15	5.3
	N	1,100	[4] 1.00	9.4	1.07	5.4	1.67	5.5	2.21	5.5
Portland, Maine	*M*	*525*	*3.03*	*28.5*	*5.16*	*26.3*	*6.51*	*21.3*	*8.03*	*19.8*
Portland, Oregon	M	570	2.34	22.0	3.98	20.3	5.96	19.5	7.63	18.8
Providence	M	510	2.57	24.3	4.16	21.2	6.10	19.9	7.86	19.4
Richmond	M	525	2.63	24.8	4.78	24.4	7.43	24.3	9.82	24.2
Rochester	M	537	1.97	18.6	3.65	18.6	5.56	18.2	7.05	17.4
St. Louis[7]	X	800	2.03	19.2	3.31	16.9	4.87	15.9	6.17	15.2
St. Paul	M	550	1.74	16.4	3.20	16.4	5.00	16.4	6.64	16.4
Salt Lake City[5]	N	865	2.12	20.0	3.27	16.7	4.16	13.6	4.86	12.0
San Francisco	N	1,150	1.38	13.0	2.05	10.4	2.86	9.3	3.60	8.9
Savannah	M	575	2.30	21.7	4.26	21.8	6.65	21.7	8.83	21.7
Scranton	M	520	3.10	29.2	4.97	25.4	7.08	23.1	9.01	22.2
Seattle[6]	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	4.66	15.2	5.56	13.7
Washington	X	600	1.53	14.4	2.73	13.9	4.08	13.3	5.25	12.9

[1] M, manufactured; N, natural; X, mixed.
[2] 1 therm equals 100,000 British thermal units.
[3] Automatic storage or instantaneous water heater.
[4] Minimum charge.
[5] Prices include 2-percent sales tax.
[6] Prices include 3-percent sales tax.
[7] Prices include 1-percent sales tax.
[8] Reports from 2 companies with identical rates.
[9] Reports from 3 companies each in the Bronx and Manhattan, and 2 companies in Queens with identical rates.

Source: Bureau of Labor Statistics, Department of Labor.

No. 749.—PRODUCTION OF CRUDE PETROLEUM

[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	1907	166,095	120,107	1922	557,531	895,111
1866–1870	4,013	15,795	1908	178,527	129,079	1923	732,407	978,430
1871–1875	8,221	16,430	1909	183,171	128,329	1924	713,940	1,022,683
1876–1880	16,816	22,926	1910	209,557	127,900	1925	763,743	1,284,960
1881–1885	25,508	22,933	1911	220,449	134,045	1926	770,874	1,447,760
1886–1890	32,900	23,830	1912	222,935	164,213	1927	901,129	1,172,830
1891–1895	51,095	35,708	1913	248,446	237,121	1928	901,474	1,054,880
1896–1900	59,498	56,836	1914	265,763	214,125	1929	1,007,323	1,280,417
1901–1905	102,083	83,524	1915	281,104	179,463	1930	898,011	1,070,200
1906–1910	172,769	119,572	1916	300,767	330,900	1931	851,081	550,630
1911–1915	247,739	185,793	1917	335,316	522,635	1932	785,159	680,460
1916–1920	362,661	735,698	1918	355,928	703,944	1933	905,656	608,000
1921–1925	647,961	999,186	1919	378,367	760,266	1934	908,065	904,825
1926–1930	895,762	1,205,217	1920	442,929	1,360,745	1935 (prel.)	993,942	994,000
1931–1935	888,781	747,583	1921	472,183	814,745			

Source: Bureau of Mines, Department of the Interior.

No. 750.—PETROLEUM PRODUCTION, IMPORTS, EXPORTS, AND BUNKER OIL LADEN ON VESSELS IN FOREIGN TRADE

NOTE.—Exports of refined oils include residuum prior to 1913 and exclude it thereafter. Exports exclude reexports of imported oils. Imports are imports for consumption beginning with 1933; general imports in earlier years

Period	Quantity (thousands of barrels of 42 gallons)						Value (millions of dollars)				
	Production, crude oil	Imports		Exports		Bunker oil	Imports		Exports		Bunker oil
		Crude oil	Refined oils	Crude oil	Refined oils		Crude oil	Refined oils	Crude oil	Refined oils	
1871–1880	12,519	[1]	[1]	528	6,026	[1]	[1]	[1]	2.4	37.7	[1]
1881–1890	20,249	[1]	[1]	1,719	12,084	[1]	[1]	[1]	5.1	43.7	[1]
1891–1895	51,095	[1]	[1]	2,606	16,751	[1]	[1]	[1]	5.0	40.8	[1]
1896–1900	59,498	[1]	[1]	2,907	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	888,781	38,395	23,902	36,413	[3] 70,892	34,868	27.3	22.3	38.2	[3] 164.3	31.3
1919	378,367	52,822	1,340	5,924	52,641	14,031	26.4	5.0	14.8	327.0	29.4
1920	442,929	106,175	2,619	8,045	65,278	26,335	55.8	10.1	29.0	519.3	66.7
1921	472,183	125,364	3,412	8,865	57,534	27,076	66.5	10.8	20.2	363.5	57.2
1922	557,531	127,308	8,639	9,995	59,592	31,692	70.4	17.8	18.3	312.6	43.7
1923	732,407	82,015	17,592	17,061	77,893	37,582	53.9	24.3	23.1	327.0	52.2
1924	713,940	77,775	16,760	17,605	93,411	43,328	73.8	26.9	26.5	392.3	58.0
1925	763,743	61,824	16,324	13,125	93,843	42,827	75.4	31.3	24.3	422.6	68.2
1926	770,874	60,382	20,902	15,406	108,398	46,662	79.3	44.6	28.5	497.2	71.0
1927	901,129	58,383	13,281	15,843	115,399	50,051	78.6	33.6	25.9	429.7	73.0
1928	901,474	79,767	11,701	18,961	126,159	51,226	90.5	40.9	26.8	465.2	59.4
1929	1,007,323	78,933	29,632	26,394	126,377	52,278	79.9	61.0	37.8	493.4	54.7
1930	898,011	62,129	43,381	23,704	122,167	50,773	64.9	78.7	32.2	438.2	53.6
1931	851,081	47,250	38,702	25,535	91,009	43,714	39.2	52.1	20.8	232.3	38.8
1932	785,159	44,700	30,228	27,391	[3] 69,348	38,152	30.4	29.2	27.1	[3] 168.1	29.4
1933	905,656	31,908	13,257	36,584	[3] 61,419	32,272	17.7	7.1	32.0	[3] 151.3	27.1
1934	908,065	35,772	14,952	41,127	[3] 64,750	29,899	25.9	9.6	49.8	[3] 159.5	31.3
1935	993,942	32,345	22,369	51,430	[3] 67,932	30,304	23.4	13.4	61.2	[3] 169.9	29.9

[1] Data are not available.
[2] Average for years 1908–1910 for total mineral oils.
[3] Not including natural gasoline (308,000 barrels valued at $533,000 in 1932, 1,657,000 barrels at $3,395,000 in 1933, 1,495,000 barrels at $2,729,000 in 1934, and 1,645,000 barrels at $3,335,000 in 1935), included with refined oils prior to 1932.

Sources: Bureau of Mines, Department of the Interior, and Bureau of Foreign and Domestic Commerce, Department of Commerce.

No. 751.—PETROLEUM, CRUDE: PRODUCTION BY REGIONS AND STATES, AND APPROXIMATE WORLD PRODUCTION

[In thousands of barrels of 42 gallons]

Section	1901–1910 (average)	1911–1915 (average)	1916–1920 (average)	1921–1925 (average)	1926–1930 (average)	1931–1935 (average)	1933	1934	1935 (preliminary)
World total [1]	236,615	384,345	541,733	944,777	1,316,390	1,458,056	1,442,112	1,522,230	1,642,605
United States [2]	137,428	247,739	362,661	647,961	895,762	888,781	905,656	908,065	993,942
Percent of total	*58.1*	*64.5*	*66.9*	*68.6*	*68.0*	*61.0*	*62.8*	*59.7*	*60.5*
Regions:									
Appalachian	28,943	24,594	27,161	28,504	31,603	30,081	27,436	30,505	32,398
Lima—N. E. Ind. [3]—Mich	17,253	5,052	3,468	2,208	3,603	9,940	8,988	11,603	16,163
Illinois—S. W. Indiana [3]	12,659	24,955	13,918	9,585	7,495	5,323	4,967	5,293	5,062
Mid-continent	25,088	87,656	184,616	343,545	527,944	566,060	601,147	584,732	607,649
Gulf	17,436	12,357	24,273	33,688	54,140	75,191	76,308	83,949	104,640
Rocky Mountain	402	2,605	11,830	35,258	29,468	17,965	14,800	17,678	20,198
California	35,641	90,512	97,384	195,074	241,509	184,221	172,010	174,305	207,832
States:									
Arkansas				36,644	35,010	12,137	11,686	11,182	10,973
California	35,641	90,512	97,384	195,074	241,509	184,221	172,010	174,305	207,832
Colorado	381	211	139	302	2,477	1,258	919	1,139	1,549
Illinois	12,659	24,955	13,918	8,815	6,654	4,548	4,244	4,479	4,305
Indiana	6,527	1,167	865	1,011	937	796	737	838	757
Kansas [4]	4,603	2,235	32,556	32,733	41,123	43,022	41,976	46,482	54,787
Kentucky [5]	696	484	5,335	8,044	7,103	5,493	4,608	4,860	5,255
Louisiana	4,310	12,997	19,117	25,759	22,338	30,303	25,168	32,869	49,869
Michigan				1	1,913	8,900	7,942	10,603	15,256
Montana			129	2,729	4,826	3,151	2,273	3,603	4,594
New Mexico [6]				[7] 554	3,171	15,850	14,116	16,864	20,586
New York	1,153	920	864	1,274	2,765	3,619	3,181	3,804	4,237
Ohio	15,677	8,580	7,583	7,045	7,022	4,502	4,235	4,234	4,070
Oklahoma [4]	19,076	68,624	102,209	155,088	235,663	176,305	182,251	180,107	185,348
Pennsylvania	10,538	8,002	7,662	7,607	10,613	13,447	12,624	14,478	15,830
Texas	14,534	16,256	55,008	127,009	245,792	304,027	402,609	381,516	391,097
West Virginia	11,605	10,487	8,311	6,575	5,655	4,032	3,815	4,095	3,903
Wyoming	21	2,394	11,562	31,901	21,145	13,137	11,227	12,556	13,650

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

No. 752.—STOCKS OF CRUDE AND REFINED MINERAL OILS ON DECEMBER 31

[In thousands of barrels of 42 gallons]

	1920	1925	1930	1932	1933	1934	1935
Crude petroleum, total [1]	149,448	345,863	408,809 [2] 411,882	339,715 [2] 339,875	355,312 [2] 354,223	337,254	314,631
At refineries [3]	28,703	[4] 29,607	[4] 41,136	55,513 [2] 61,769	66,049	64,099	59,148
Pipe line and tank farm [5]	117,159	[4] 308,696	[4] 361,065 [2 4] 364,138	276,189 [2] 270,093	281,132 [2] 280,043	264,625	245,178
Producers' [5]	3,586	7,560	6,608	8,013	8,131	8,530	10,305
Natural gasoline	(6)	[7] 326	2,377 [2] 3,100	3,203	3,317 [2] 3,680	3,740 [2 4] 4,216	3,698
Refined products, total [1 8]	60,397	206,275	254,311 [2] 251,680	247,188 [2] 249,116	244,578 [2] 244,295	223,356 [2] 222,678	223,371
Gasoline	11,009	38,918	40,541 [2] 40,098	50,602 [2] 51,107	52,616 [2] 56,255	48,205 [2] 47,531	50,647
Kerosene	9,359	7,121	6,883	4,974 [2] 5,033	6,558	6,398	7,915
Gas oil and fuel oil [1]	19,938	110,464	140,428 [2] 137,790	129,881 [2] 130,753	123,500 [2] 123,004	110,397	103,984
Lubricants	3,822	7,253	10,971	8,465 [2] 8,694	7,100	7,331	7,025
Grand total stocks all oils	209,845	552,464	665,497 [2] 666,662	590,106 [2] 592,194	603,207 [2] 602,198	564,350 [2] 564,148	541,700

[1] California heavy crude and fuel oil included in refined products as residual fuel oil beginning 1925.
[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 1932.
[6] Not available. [7] At plants only. [8] Includes wax, coke, and asphalt.

Source of tables 751 and 752: Bureau of Mines, Department of the Interior.

No. 753.—SUPPLY AND DEMAND OF CRUDE AND REFINED OILS

[In thousands of barrels of 42 gallons]

	1929	1930	1931	1932	1933	1934	1935 (preliminary)
Total new supply of all oils	1,171,359	1,058,949	982,611	896,965	986,228	996,823	1,087,353
Domestic production, total	1,062,649	953,331	896,524	822,471	940,834	946,329	1,034,677
Crude petroleum	1,007,323	898,011	851,081	785,159	905,656	908,065	993,942
Natural gasoline	52,271	52,631	43,617	36,281	33,810	36,556	38,858
Benzol	3,055	2,689	1,826	1,031	1,368	1,708	1,877
Imports—							
Crude	78,933	62,129	47,250	44,682	31,893	35,558	32,239
Refined [1]	29,777	43,489	38,837	29,812	13,501	14,936	20,437
Change in stocks [2]	+68,156	−24,000	−44,989	−41,792	+11,013	−37,848	−22,448
Total demand	1,103,203	1,082,949	1,027,600	938,757	975,215	1,034,671	1,109,801
Exports [3]—							
Crude	26,401	23,705	25,535	27,393	36,584	41,127	51,378
Refined [1]	136,719	132,794	98,859	75,882	70,143	73,380	76,774
Domestic [4]	940,083	926,450	903,206	835,482	868,488	920,164	981,649

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

Source: Bureau of Mines, Department of the Interior.

No. 754.—PETROLEUM REFINING: REFINERY PRODUCTS

Product	Quantity (thousands of gallons unless otherwise specified)				Value (thousands of dollars)	
	1929	1931 As published; comparable with 1929	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]	1931 Comparable with 1933 [1]	1933 Reported on standard schedule [1]
Refinery products, total value					1,502,259	1,357,997
Light products of distillation (except tops)	18,251,372	17,595,043	17,432,723	16,354,818	846,254	773,182
Gasoline	17,538,789	17,100,621	16,949,078	16,094,531	824,300	759,183
Naphtha	662,642	461,174	450,397	228,516	20,146	12,251
Benzine	49,941	33,247	33,247	31,771	1,808	1,747
Illuminating oils	2,338,929	1,745,447	1,732,908	1,949,863	72,285	78,128
Fuel oils	16,390,954	14,209,692	13,999,089	13,295,107	267,881	253,237
Distillates	1,024,304	1,055,597	1,013,171	1,598,816	27,116	49,648
Gas oils	2,882,959	2,562,148	2,525,230	1,977,443	67,837	53,931
Residual fuel oils	12,483,631	10,591,948	10,460,689	9,718,848	172,928	149,658
Partially refined oils sold for rerunning	1,466,861	1,313,270	1,311,126	1,130,068	28,418	23,734
Above fuel oil	869,056	891,280	890,944	760,697		
Fuel oil	567,533	383,803	382,937	345,215		
Below fuel oil	30,273	38,187	37,245	24,156		
Lubricating oils	1,553,711	1,147,767	1,145,431	1,047,212	197,093	142,444
Black, cylinder, red, neutral, pale, and paraffin	(2)	(2)	(2)	650,475	(2)	74,178
All other lubricating oils, including compounded (except cylinder) oils	(2)	(2)	(2)	396,736	(2)	68,266
Liquid asphaltic road oils	323,002	377,748	375,116	300,243	10,352	8,343
Greases	52,017	45,816	45,211	41,923	12,225	9,251
Petroleum, mineral jelly, etc.	13,664	16,959	16,353	14,711	2,071	1,855
Lubricating greases, including axle grease	38,354	28,858	28,858	27,212	10,153	7,396
Paraffin wax	84,639	79,483	79,377	72,852	13,340	12,211
Acid oil	34,767	84,560	84,560	85,627	1,119	1,015
Asphalt other than liquid asphalt [3]	3,115	2,462	2,462	1,790	21,751	17,932
Petroleum coke [3]	1,265	2,029	2,025	1,751	7,173	5,582
Other refinery products, value					24,368	32,940

[1] For reason of adjustment, see last paragraph of general note, p. 733.
[2] No comparable data.
[3] Thousands of tons of 2,000 pounds.

Source: Bureau of the Census, Department of Commerce.

No. 755.—PETROLEUM PRODUCTS: Oils Run to Stills, Output of Refineries, Stocks, Exports, and Apparent Consumption of Products

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 kerosene and lubricants take into account imports not shown separately

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

Item	1918	1920	1925	1930	1932	1933	1934	1935 (prel.)
Crude oil run to stills	326,025	433,915	739,920	927,447	819,997	861,254	895,636	966,243
Domestic	324,618	372,779	698,582	866,615	777,696	825,786	860,776	934,112
Foreign	1,407	61,136	41,338	60,832	42,301	35,468	34,860	32,131
Natural gasoline run to stills or blended at refineries	2,451	3,153	[1] 19,636	[1] 43,170	[1] 26,332	[1] 25,346	[1] 28,162	[1] 30,599
Stocks of crude oil, end of year	15,750	21,261	[2] 29,200	[2] 41,136	[2] 47,816	66,049	64,099	59,148
Motor fuel:								
Production	86,280	118,022	262,252	440,728	399,712	407,932	423,801	465,514
Exports (gasoline and benzol)	13,650	15,678	31,684	65,575	35,438	29,321	24,686	30,380
Imports (gasoline)	307	964	3,813	16,927	8,205	15	1	20
Stocks, end of year	7,080	11,009	38,918	40,098	[3] 54,310	[3] 59,935	[3] 51,945	[3] 54,345
Apparent consumption	75,672	102,937	226,329	394,800	373,900	377,003	407,106	432,556
Kerosene:								
Production	43,461	55,240	59,689	49,208	43,836	48,977	53,855	55,813
Exports	11,820	20,878	21,212	16,884	11,044	8,959	9,781	6,644
Stocks, end of year	9,050	9,359	7,121	6,883	5,033	6,558	6,398	7,915
Apparent consumption	34,442	33,082	39,969	34,736	33,221	38,493	44,234	47,652
Gas oil and fuel oil:								
Production	174,319	210,987	364,991	372,498	[4] 301,353	[4] 316,439	335,353	355,125
Exports	29,637	22,080	36,088	36,460	19,994	20,563	28,605	28,489
Stocks, end of year	15,691	19,938	[2] 24,681	[5] 137,790	[5] 129,881	[5] 123,004	[5] 110,397	[5] 103,984
Lubricants:								
Production	20,035	24,938	31,055	34,201	22,433	23,775	26,373	27,771
Exports	6,165	9,643	9,678	9,935	6,851	8,218	7,660	8,480
Stocks, end of year	3,306	3,822	7,253	10,971	8,694	7,100	7,331	7,025
Apparent consumption	13,823	14,742	20,581	21,589	16,614	17,152	18,484	19,598
Wax—production, 1,000 lbs	505,144	541,204	590,577	547,680	458,920	469,560	468,720	460,240
Stocks, end of year, do	199,658	195,368	116,391	232,592	163,935	69,117	136,136	114,675
Coke—production, 1,000 tons [6]	560	577	991	1,940	1,789	1,580	1,300	1,458
Stocks, end of year, do	23	32	238	1,069	1,330	727	405	389
Asphalt—production 1,000 tons [6]	608	1,291	2,677	3,308	2,475	2,320	2,841	3,247
Stocks, end of year, do	77	81	159	308	276	255	339	405
Other finished products			8,044	13,179	[7] 49,522	[7] 52,181	[7] 52,473	[7] 50,328
Losses	14,557	18,743	22,914	37,003	[7] 20,652	[7] 16,756	[7] 16,073	[7] 12,453

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

No. 756.—PETROLEUM PRODUCTS: Crude Oil Run to Stills and Output of Refineries, 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, 1935				
	1934	1935	1934	1935	Gasoline	Kerosene	Gas oil and fuel oil	Lubricants	Wax
Total	895,636	966,243	28,162	30,599	457,692	55,813	355,125	27,771	460,240
East coast	171,733	170,277	1,307	1,443	72,466	9,696	61,216	7,709	204,120
Appalachian	35,809	38,454	284	312	19,016	2,977	7,622	5,370	83,160
Indiana, Illinois, Kentucky, etc	119,166	129,958	2,348	3,111	76,442	4,764	30,115	2,686	34,720
Oklahoma, Kansas, and Missouri	95,006	107,752	5,874	6,298	62,439	7,651	29,733	3,389	34,440
Texas	241,359	262,493	6,349	6,682	123,423	19,439	98,293	5,698	50,960
Louisiana and Arkansas	60,191	60,431	769	735	23,880	5,603	22,534	825	20,440
Rocky Mountain	16,037	19,029	803	840	10,705	654	5,041	273	22,400
California	156,335	177,849	10,428	11,178	69,321	5,029	100,571	1,821	

Source of tables 755 and 756: Bureau of Mines, Department of the Interior.

No. 757.—PETROLEUM PIPE LINES: SUMMARY FOR COMPANIES REPORTING TO THE INTERSTATE COMMERCE COMMISSION

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

Year	Miles of line operated	Investment in pipe lines	Other investments	Pipeline operating revenues	Pipeline operating expenses	Pipeline operating income	Net income
1924	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
1926	72,846	539,410	111,891	173,075	83,098	76,523	80,401
1927	76,070	609,439	105,927	195,561	90,287	92,719	93,239
1928	81,676	659,093	106,688	222,073	96,478	112,221	117,206
1929	85,796	741,010	104,445	251,411	102,101	135,421	142,216
1930	88,727	772,711	96,184	237,910	99,363	121,816	123,741
1931	93,090	845,050	90,505	222,944	96,237	116,767	120,738
1932	92,783	763,942	41,754	211,789	86,003	110,019	112,362
1933	93,724	766,251	47,947	217,192	85,374	107,811	105,943
1934	93,070	758,172	57,275	199,166	86,884	84,865	84,143
1935	92,037	763,009	119,071	197,368	89,364	79,586	78,249

Source: Interstate Commerce Commission.

No. 758.—PETROLEUM: PRICES OF CRUDE AND REFINED PRODUCTS

NOTE.—Prices of crude and fuel oil in dollars per barrel of 42 gallons, others in cents per gallon. Compiled by Joseph E. Pogue. The weighted average prices cover five principal grades of crude oil at wells, five markets for kerosene, gasoline at service stations in 50 cities (exclusive of all taxes), five refining locations for fuel oil, and lubricating oil at refineries.

Year	Crude	Gasoline	Kerosene	Fuel oil	Lubricating oil	Month, 1935	Crude	Gasoline	Kerosene	Fuel oil	Lubricating oil
	Dolls.	*Cents*	*Cents*	*Dolls.*	*Cents*		*Dolls.*	*Cents*	*Cents*	*Dolls.*	*Cents*
1921	1.86	------	12.9	1.30	-------	January	1.17	13.0	9.0	0.87	14.1
1925	1.96	19.9	12.3	1.46	24.3	February	1.19	13.1	9.1	.87	14.3
1926	2.03	20.8	14.7	1.47	23.3	March	1.19	13.1	9.2	.90	14.0
1927	1.55	18.0	12.9	1.14	21.2	April	1.19	13.3	8.9	.91	13.5
1928	1.54	17.7	12.9	.91	20.7	May	1.18	13.8	8.9	.93	13.8
1929	1.67	17.7	13.4	.89	26.3	June	1.16	13.7	9.3	.92	14.5
1930	1.39	16.4	12.1	.78	19.8	July	1.14	13.6	9.3	.90	14.5
1931	.91	12.9	10.3	.57	14.7	August	1.13	13.8	9.1	.89	14.5
1932	1.02	13.2	9.4	.62	14.5	September	1.13	13.5	8.6	.89	14.5
1933	.87	12.8	9.2	.67	14.7	October	1.13	13.4	8.4	.86	14.9
1934	1.21	13.5	9.5	.84	18.5	November	1.18	13.5	8.3	.87	15.2
1935	1.17	13.4	8.9	.89	14.4	December	1.20	13.6	8.3	.89	15.2

No. 759.—ASPHALT: SUPPLY, DISTRIBUTION, AND SALES

	1929	1930	1931	1932	1933	1934	1935
Total supply (1,000 tons of 2,000 pounds)	5,011	4,260	3,841	3,140	3,090	3,573	4,028
Native asphalt and related bitumens:							
Produced	804	703	503	340	313	441	347
Imported (chiefly lake asphalt)	121	53	74	20	22	16	54
Petroleum asphalt (excluding road oil):							
Produced at refineries from—							
Domestic petroleum	1,583	1,404	1,275	1,116	1,237	1,445	1,802
Foreign petroleum	2,247	1,824	1,701	1,359	1,219	1,396	1,485
Stocks, Jan. 1	255	277	288	305	299	276	339
Total distribution (1,000 tons of 2,000 pounds)	5,011	4,260	3,841	3,140	3,090	3,573	4,028
Native asphalt and related bitumens:							
Indicated domestic demand	757	680	484	328	299	426	328
Exports (unmanufactured)	47	23	19	12	14	15	19
Petroleum asphalt (excluding road oil):							
Indicated domestic demand (incl. lake asphalt)	3,451	2,859	2,745	2,295	2,296	2,569	3,028
Exports	479	410	288	206	204	224	223
Stocks, Dec. 31	277	288	305	299	276	339	430
VALUE (1,000 DOLLARS)							
Native asphalt and related bitumens:							
Sales	5,470	4,463	2,930	1,943	1,705	2,366	2,149
Imports (chiefly lake asphalt)	956	457	726	251	278	222	545
Exports (unmanufactured)	1,133	629	531	449	554	581	710
Petroleum asphalt (excluding road oil):							
Sales	43,557	34,622	24,861	18,605	23,543	29,895	31,355
Exports	8,543	7,277	4,941	3,168	2,861	3,383	3,371

Source: Bureau of Mines, Department of the Interior.

No. 760.—PORTLAND CEMENT: PRODUCTION, SHIPMENTS, AND IMPORTS

NOTE.—Imports are "Imports for consumption" and include all kinds of hydraulic cement, most of which is Portland. "Shipments" include exports made directly by manufacturers and shipments made by them to noncontiguous territories (see table 761). Data for 1935 are preliminary

State	1910	1920	1925	1930	1932	1933	1934	1935
	Thousands of barrels of 376 pounds							
Production, total	76,550	100,023	161,659	161,197	76,741	63,473	77,748	76,751
Alabama	[1] 1,481	1,132	6,288	4,821	1,453	1,969	2,208	2,493
California	[2] 6,386	7,098	13,098	10,124	5,482	7,165	8,772	7,974
Illinois	4,459	5,539	7,101	7,935	5,481	3,974	4,125	3,368
Iowa	[3] 2,010	4,849	4,648	7,088	4,271	3,044	3,181	3,520
Kansas	5,656	4,341	6,511	6,012	2,296	2,201	2,498	2,337
Michigan	3,688	4,891	10,936	11,511	4,296	3,633	4,104	4,579
Missouri	4,456	6,018	8,332	7,809	4,238	3,799	4,034	3,392
New York	3,296	5,885	8,770	10,373	6,014	4,205	4,761	4,285
Ohio	1,528	1,780	5,715	8,632	4,002	2,781	4,046	3,886
Pennsylvania	26,676	28,269	42,347	37,844	15,799	12,294	15,323	15,502
Tennessee	[4]	[4]	[4]	3,875	1,547	1,348	2,481	2,703
Texas	[5] 2,287	2,562	4,858	6,782	3,748	2,970	3,538	3,787
Other States	14,627	27,659	43,055	38,393	18,115	14,091	18,728	18,925
Shipments	[6]	96,312	157,295	159,059	80,843	64,283	75,901	75,239
Imports	307	525	3,667	985	468	477	266	619
Stocks at mills (Dec. 31)	[6]	8,833	18,336	25,899	20,351	19,605	21,466	22,978

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

No. 761.—PORTLAND CEMENT: SHIPMENTS BY DESTINATIONS

[In thousands of barrels of 376 pounds]

State	1932	1933	1934	1935 [1]	State	1932	1933	1934	1935 [1]
Shipped from cement plants	80,843	64,283	75,901	75,239	Shipments to States—Con.				
Shipments to States	80,184	63,305	74,872	74,332	South Atlantic—Continued.				
New England	4,176	3,207	3,992	3,410	West Virginia	861	643	1,066	1,093
Maine	410	312	261	245	North Carolina	434	484	764	828
New Hampshire	267	262	345	237	South Carolina	368	217	327	364
Vermont	260	140	241	192	Georgia	1,129	729	938	1,166
Massachusetts	2,126	1,474	1,962	1,573	Florida	428	598	906	854
Rhode Island	305	282	326	329	East South Central	3,341	3,815	4,382	4,558
Connecticut	808	737	857	834	Kentucky	1,306	1,245	1,234	1,052
Middle Atlantic	18,624	13,333	15,256	14,079	Tennessee	1,176	957	1,534	1,777
New York	11,057	7,178	8,052	7,770	Alabama	392	926	942	1,212
New Jersey	2,855	2,027	2,339	2,242	Mississippi	467	687	672	517
Pennsylvania	4,712	4,128	4,865	4,067	West South Central	6,758	6,056	6,243	6,653
East North Central	20,081	14,321	16,195	16,156	Arkansas	270	673	699	537
Ohio	4,813	2,738	3,594	3,437	Louisiana	1,288	756	991	1,030
Indiana	3,015	1,987	2,246	2,340	Oklahoma	1,238	1,416	1,290	1,446
Illinois	5,826	5,295	5,008	4,933	Texas	3,962	3,211	3,263	3,640
Michigan	3,476	2,465	2,967	3,381	Mountain	1,974	2,791	5,046	3,189
Wisconsin	2,951	1,836	2,380	2,065	Montana	150	162	326	685
West North Central	11,521	7,867	9,288	9,222	Idaho	103	119	216	222
Minnesota	3,148	1,469	1,636	1,719	Wyoming	82	82	161	195
Iowa	2,592	1,503	2,220	1,919	Colorado	492	430	546	597
Missouri	3,455	2,549	2,227	2,122	New Mexico	174	194	305	301
North Dakota	176	133	242	264	Arizona	161	126	267	313
South Dakota	334	241	399	419	Utah	164	243	350	330
Nebraska	771	1,026	1,157	1,341	Nevada	648	1,435	2,875	546
Kansas	1,045	946	1,407	1,438	Pacific	6,496	5,984	6,745	8,945
South Atlantic	7,051	5,622	7,673	7,531	Washington	1,289	687	1,117	1,290
Delaware	298	252	308	171	Oregon	523	330	556	882
Maryland	1,557	835	1,283	983	California	4,684	4,967	5,072	6,773
District of Columbia	1,070	943	828	832	Unspecified	159	309	55	589
Virginia	906	921	1,258	1,240	Exports direct by manufacturers [2]	660	977	1,029	907

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

Source of tables 760 and 761: Bureau of Mines, Department of the Interior.

No. 762.—CEMENT PRODUCTION: QUANTITY, BY KINDS, AND TOTAL VALUE

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

Year	Production in thousands of barrels			Total value in thousands of dollars	Year	Production in thousands of barrels			Total value in thousands of dollars
	Total	Portland	Masonry, natural, and puzzolan			Total	Portland	Masonry, natural, and puzzolan	
1890	7,777	336	7,441	4,527	1921	99,381	98,842	539	187,708
1895	8,731	990	7,741	5,482	1922	115,679	114,790	889	203,324
1900	17,231	8,482	8,749	13,284	1923	138,732	137,460	1,272	263,122
1905	40,102	35,247	4,855	35,932	1924	150,777	149,358	1,418	272,345
1909	66,690	64,991	1,698	53,611	1925	163,388	161,659	1,729	[1] 281,076
1910	77,785	76,550	1,235	68,752	1926	166,635	164,530	2,105	[1] 280,786
1911	79,548	78,529	1,019	66,705	1927	175,330	173,207	2,124	[1] 281,736
1912	83,351	82,438	913	67,462	1928	178,509	176,299	2,210	[1] 278,883
1913	92,949	92,097	852	93,001	1929	172,856	170,646	2,209	[1] 255,105
1914	89,050	88,230	820	82,204	1930	162,989	161,197	1,792	[1] 231,249
1915	86,708	85,915	794	74,285	1931	126,671	125,429	1,242	[1] 142,580
1916	92,363	91,521	842	101,379	1932	77,198	76,741	457	[1] 82,718
1917	93,454	92,814	639	126,106	1933	63,940	63,473	467	[1] 86,172
1918	71,515	71,082	433	114,132	1934	78,419	77,748	672	[1] 117,882
1919	81,307	80,778	529	138,714	1935 [2]	77,757	76,751	1,006	[1] 114,942
1920	100,791	100,023	767	203,198					

[1] Value of shipments. [2] Preliminary.

Source: Bureau of Mines, Department of the Interior.

No. 763.—STONE: PRODUCTION (SALES), BY VARIETIES AND USES

Variety and use	Quantity sold, thousands of short tons (2,000 pounds)[1]							Value, 1,000 dollars	
	1929	1930	1931	1932	1933	1934	1935 [2]	1934	1935 [2]
Total	**141,110**	**126,996**	**97,933**	**70,644**	**70,282**	**92,064**	**78,379**	**98,980**	**82,490**
Granite	10,827	10,047	8,068	5,119	4,422	6,792	6,190	14,889	14,248
Basalt and related rocks	14,872	14,532	12,553	9,329	7,394	11,643	8,828	11,270	8,234
Sandstone	5,790	4,594	4,582	2,973	2,800	3,605	2,831	4,714	3,896
Marble	554	477	350	343	225	177	122	3,371	3,020
Limestone	100,687	88,741	66,751	46,914	45,922	57,502	53,606	53,791	47,255
All other	8,380	8,604	5,629	5,968	9,459	12,345	6,802	10,945	5,837
Building stone	2,647	2,322	1,669	1,296	870	711	774	8,539	7,012
Monumental	366	291	237	168	166	187	185	6,227	6,391
Paving blocks	300	295	197	72	60	64	77	618	849
Curbing	336	262	171	80	56	79	71	885	833
Flagging	88	82	50	26	14	23	23	190	232
Rubble	908	1,067	432	179	142	293	286	318	369
Riprap	4,213	4,202	4,223	3,462	3,255	6,053	5,324	5,894	5,007
Crushed stone	92,721	87,111	72,624	51,995	45,491	60,568	51,076	56,467	45,758
Furnace flux (limestone and marble)	24,394	17,091	9,727	3,991	7,985	9,231	11,110	6,298	7,364
Refractory stone	1,558	1,198	611	197	501	677	780	863	1,043
Manufacturing industries (limestone and marble)	7,431	6,021	4,501	4,369	5,638	5,373	8,673	4,494	7,632
Agricultural limestone and other	6,147	6,967	3,490	4,808	6,045	8,804		8,188	

[1] Quantities of stones not sold by the short ton are expressed in the approximate equivalent in short tons; expressed in their selling units the quantities are as follows for 1935: Building stone, 9,914,000 cubic feet; monumental stone, 2,284,000 cubic feet; paving blocks, 9,270,000; curbing, 875,000 cubic feet; and flagging, 280,000 cubic feet.
[2] Preliminary.

Source: Bureau of Mines, Department of the Interior.

No. 764.—CLAY PRODUCTS: PRODUCTION

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1929	1931	1933	1929	1931	1933
CLAY PRODUCTS (EXCEPT POTTERY) AND NONCLAY REFRACTORIES							
Total value					294,488	127,468	64,841
Brick:							
Common	Number	5,505,359	2,314,664	1,019,810	58,733	21,652	8,816
Vitrified	do	367,650	207,386	63,111	7,504	4,266	1,224
Face	do	2,139,408	903,226	270,323	36,120	13,271	3,807
Enameled	do	17,137	8,605	4,292	1,259	484	172
Drain tile	Ton[1]	859	253	168	6,516	1,667	1,127
Sewer pipe	do	1,675	823	451	21,330	9,448	4,911
Architectural terra cotta	do	134	55	26	13,921	5,492	1,831
Hollow building tile or block	do	4,164	1,928	608	30,142	11,172	2,836
Tile (not drain):							
Roofing	Squares	371	285	103	3,944	3,125	911
Floor (including plain, vitreous, encaustic, quarry, etc.)	Sq. ft	15,887	12,181	5,793	3,773	2,052	887
Ceramic mosaic (vitreous and semivitreous)	do	18,052	8,744	4,229	3,738	1,781	699
Faience (including art, enameled, and hand-decorated)	do	19,357	21,431	8,401	10,136	7,749	2,386
Wall (thin, white glazed, etc.)	do	30,443	17,716	9,930	11,254	4,993	1,552
Stove lining	Ton[1]	17	9	6	468	317	224
Fire-clay products (shaped):							
Brick, block, etc.[2]	Number	962,129	423,061	382,076	38,284	16,419	13,834
Special shapes	Ton[1]	182	127	107	4,092	3,068	2,293
All other clay products					14,068	6,344	5,260
Silica brick	Number	294,402	103,557	110,889	15,165	5,132	4,655
Other nonclay refractories					14,041	9,036	7,415
POTTERY							
Total value					112,019	66,583	44,024
Red earthenware (flower pots, etc.)					2,798	2,034	1,207
Stoneware (except chemical) and yellow and Rockingham ware					4,144	3,300	2,222
White ware, cream color, white granite, semiporcelain, and semivitreous porcelain					32,067	20,108	15,005
Hotel china					10,476	6,595	5,008
Vitreous china plumbing fixtures					24,992	12,894	7,709
Porcelain electrical supplies					22,136	13,154	7,056
Sagger					1,308	645	326
All other products					14,098	7,853	5,491

[1] Of 2,000 pounds.
[2] Brick, block, or tile for locomotive and other fire-box lining, etc. (9-inch equivalent); and high alumina brick.

No. 765.—GLASS AND GLASSWARE: PRODUCTION

Product	Quantity (thousands of square feet)				Value (thousands of dollars)	
	1929	1931 As published; comparable with 1929	1931 Comparable with 1933[1]	1933 Reported on standard schedule[1]	1931 Comparable with 1933[1]	1933 Reported on standard schedule[1]
Total value					208,604	184,509
Window glass	402,559	266,772	258,217	249,442	9,998	10,457
Obscured glass, including cathedral and skylight glass and opalescent sheet glass	34,294	17,796	15,659	19,858	2,137	2,591
Wire glass, rough and polished	42,817	15,664	14,802		1,713	
Pressed and blown glass (except containers)					54,319	45,398
Containers					105,118	99,362
Plate glass, polished					25,765	26,702
Other glass products					9,555	

[1] For reason of adjustment, see last paragraph of general note, p. 733.

Source of tables 764 and 765: Bureau of the Census, Department of Commerce.

No. 766.—PRODUCTION OF PRINCIPAL BURNED-CLAY BUILDING MATERIALS

Year	Brick (millions)			Value (thousands of dollars)							
				Brick			Architectural terra cotta	Hollow building tile	Tile (not drain)	Sewer pipe	Fire brick
	Common	Vitrified [1]	Face	Common	Vitrified [1]	Face					
1915	6,851	953	856	42,145	12,231	9,536	4,796	7,801	5,186	11,259	15,800
1919	4,752	489	791	63,585	11,615	16,033	3,988	17,965	8,137	16,755	38,016
1920	4,852	468	787	82,216	12,679	19,441	10,852	27,112	12,470	25,371	53,416
1921	4,448	562	873	57,096	12,870	18,128	9,068	14,841	12,560	22,155	24,833
1922	5,899	517	1,417	72,613	10,816	28,234	12,410	19,708	16,597	23,600	31,357
1923	7,282	699	1,931	94,473	15,570	38,892	16,486	28,275	23,804	29,103	46,677
1924	7,159	554	2,030	86,692	12,974	39,931	16,446	24,998	24,842	32,400	40,621
1925	7,562	539	2,475	88,551	11,876	45,428	19,139	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	32,766	29,426	38,174
1928	6,413	378	2,412	69,333	7,800	40,034	13,642	25,792	31,523	28,969	37,392
1929	5,505	368	2,139	58,733	7,504	36,120	13,921	30,142	32,846	21,330	42,376
1930	3,631	300	1,482	37,433	6,247	24,615	10,016	22,219	23,934	15,964	36,054
1931	2,315	207	903	21,652	4,266	13,271	5,492	11,172	19,700	9,448	19,487
1932	1,013	133	384	8,705	2,642	5,273	2,317	4,269	8,108	3,745	9,924
1933	1,020	63	270	8,816	1,224	3,807	1,831	2,836	6,435	4,911	16,127
1934	1,099	114	305	11,419	2,434	4,749	1,128	3,904	6,705	7,913	19,243

[1] Vitrified brick or block.

Sources: Bureau of the Census and Bureau of Mines, Departments of Commerce and the Interior.

No. 767.—SALT: PRODUCTION, BY STATES AND KINDS; EXPORTS AND IMPORTS

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	1925	7,397,500	155,079	85,788
1885	985,411	2,108	440,290	1926	7,371,600	158,908	55,964
1890	1,242,779	2,464	257,323	1927	7,568,690	153,832	44,968
1895	1,913,751	3,602	279,576	1928	8,074,700	145,396	42,856
1900	2,921,708	7,511	199,909	1929	8,543,560	109,222	36,450
1905	3,635,257	34,238	161,159	1930	8,054,440	70,478	54,021
1910	4,242,792	49,013	137,103	1931	7,358,070	98,710	33,216
1915	5,352,409	80,474	122,326	1932	6,407,973	63,581	28,018
1920	6,840,029	139,272	137,654	1933	7,604,972	105,178	30,132
1923	7,130,713	125,529	88,750	1934	7,612,074	105,365	53,124
1924	6,803,115	144,945	88,938	1935	7,926,897	112,212	51,245

State or kind	1910	1915	1920	1925	1930	1934	1935
Production, total	4,242,792	5,352,409	6,840,029	7,397,500	8,054,440	7,612,074	7,926,897
By States:							
Michigan	1,323,283	1,762,430	2,262,915	2,172,600	2,558,290	2,012,370	2,128,171
New York	[1] 1,629,953	1,570,446	1,903,101	2,053,970	2,009,280	1,866,280	1,927,822
Ohio	514,339	823,234	1,057,802	1,173,590	1,311,440	1,432,292	1,487,315
Kansas	393,603	527,123	783,655	812,540	759,800	768,133	608,204
Louisiana	(1)	(2)	265,085	500,350	535,250	567,289	702,990
California	131,252	146,784	212,008	292,480	350,370	341,893	356,222
Texas	53,503	62,297	91,103	(2)	(2)	208,979	268,809
Utah	34,979	55,279	75,259	88,150	85,240	(2)	57,625
West Virginia	21,788	32,513	29,802	25,870	28,670	66,766	65,968
Undistributed	140,093	372,303	159,299	277,950	416,100	348,072	323,771
By kinds:							
Manufactured (evaporated)	1,953,069	2,335,823	2,409,924	2,235,170	2,358,610	2,281,453	2,330,042
In brine	1,314,492	1,851,199	2,819,916	2,819,690	3,718,460	3,417,439	3,837,613
Rock salt	975,231	1,165,387	1,610,189	2,342,640	1,977,370	1,913,182	1,759,242
Total value (dollars)	7,900,344	11,747,686	29,894,075	26,162,361	25,009,480	22,850,797	21,088,641

[1] Louisiana is included with New York. [2] Included in "Undistributed."

Source: Bureau of Mines, Department of the Interior.

No. 768.—ACCIDENT RATES IN ALL BRANCHES OF THE MINERAL INDUSTRY, 1921 TO 1934

Year	Average days active	Men employed		Man shifts	Number killed	Number injured[1]	Number killed or injured per thousand 300-day workers	
		Actual number	Equivalent in 300-day workers				Killed	Injured[1]
1921	188	1,044,001	653,414	196,024,209	2,381	35,416	3.6	198.0
1922	174	1,092,863	635,299	190,589,710	2,529	46,307	4.0	201.1
1923	222	1,153,894	852,145	255,643,525	3,071	59,570	3.6	203.9
1924	220	1,073,630	787,065	236,119,757	3,031	57,766	3.9	201.1
1925	222	1,049,579	777,896	233,368,875	2,826	58,704	3.6	197.2
1926	242	1,058,843	855,632	256,689,813	3,201	52,752	3.7	178.1
1927	225	1,044,537	782,635	234,790,290	2,797	45,618	3.6	163.2
1928	231	951,449	733,728	220,118,341	2,629	38,717	3.6	146.1
1929	243	928,648	752,809	225,842,583	2,728	38,806	3.6	143.1
1930	217	888,514	641,749	192,524,971	2,492	130,580	3.9	203.5
1931	188	784,347	492,009	147,602,799	1,707	96,412	3.5	196.0
1932	165	671,343	368,852	110,655,616	1,368	68,717	3.7	186.3
1933	181	677,722	409,292	122,787,658	1,242	72,342	3.0	176.7
1934	195	739,817	481,886	144,566,133	1,371	81,660	2.8	169.5

[1] Excluding coal mines prior to 1930. Data excluding coal mines are: Number injured, 1930, 26,759; 1931, 16,063; 1932, 9,745; 1933, 11,029; 1934, 13,652; number injured per thousand 300-day workers, 1930, 117.0; 1931, 99.7; 1932, 91.6; 1933, 98.6; 1934, 100.8.

Source: Bureau of Mines, Department of the Interior.

No. 769.—ACCIDENTS IN MINERAL INDUSTRIES: BY GROUPS OF INDUSTRIES

NOTE.—Figures for metal mines include mines producing nonmetallic minerals other than coal

Year	Number employed		Killed	Injured	
	Actual number	Equivalent in 300-day workers		Temporary	Permanent
Metal mines:					
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
1926	127,823	123,870	430	29,773	577
1927	119,699	113,447	352	24,605	528
1928	113,866	109,345	273	21,914	569
1929	118,735	115,394	350	22,615	477
1930	103,233	92,990	271	15,091	503
1931	80,940	62,405	158	8,402	307
1932	53,288	36,984	107	4,837	177
1933	57,016	38,807	95	5,793	132
1934	66,645	49,077	116	7,699	193
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
1926	91,146	82,361	154	12,770	431
1927	91,517	82,609	135	13,094	365
1928	89,667	81,325	119	10,207	361
1929	85,561	76,559	126	9,510	300
1930	80,633	68,531	105	7,152	265
1931	69,200	51,755	61	5,222	205
1932	56,866	37,047	32	3,464	110
1933	61,927	37,874	59	3,526	111
1934	64,331	43,694	60	3,807	117
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
1926	57,726	65,687	48	7,052	227
1927	53,477	60,291	54	5,533	208
1928	45,695	52,668	44	4,473	181
1929	47,399	53,587	43	4,368	206
1930	40,787	44,403	25	2,570	156
Metallurgical plants—Con.					
1931	28,938	28,806	16	1,304	89
1932	21,564	18,474	8	778	59
1933	21,999	19,583	13	1,018	61
1934	26,932	24,552	13	1,243	77
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
1926	23,115	24,288	51	1,874	48
1927	20,667	23,223	25	1,232	53
1928	19,390	21,710	17	979	33
1929	22,459	25,724	22	1,293	36
1930	19,855	22,936	28	990	32
1931	15,564	18,163	9	499	35
1932	12,002	13,862	14	298	22
1933	13,598	15,609	11	366	22
1934	15,483	18,096	14	490	26
Coal mines:					
1911	728,348	534,122	2,656	(1)	(1)
1915	734,008	511,598	2,269	(1)	(1)
1920	784,621	601,283	2,272	(1)	(1)
1923	862,536	560,000	2,462	(1)	(1)
1924	779,613	499,896	2,402	(1)	(1)
1925	748,805	480,227	2,234	(1)	(1)
1926	759,033	559,426	2,518	(1)	(1)
1927	759,177	503,065	2,231	(1)	(1)
1928	682,831	468,680	2,176	(1)	(1)
1929	654,494	481,545	2,187	(1)	(1)
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	346,467	1,226	66,304	1,704
1935	(1)	(1)	1,168	(1)	(1)

[1] Not available.

Source: Bureau of Mines, Department of the Interior.