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 Porto Rico, as indicated

No. 703.—FORESTS: Estimated Original and Present Areas, Growing Area, Annual Growth, and Present Stand, by Regions

Note.—Estimates of present area relate to 1922, of stand of timber and annual growth to 1920 or about that year. These data are necessarily approximate. Annual growth relates to acreage specified as growing area, other areas having no growth in excess of decay

Region	Original area (thousand acres)	Present area (thousand acres) [1]					
		Total	Saw timber			Cordwood (growing)	Nonrestocking
			Total	Virgin	Growing		
Total	822,238	469,475	251,916	138,160	113,756	136,359	81,200
New England [2]	38,908	25,708	11,261	2,000	9,261	8,872	5,575
Middle Atlantic [3]	69,610	28,678	11,455	1,896	9,559	10,793	6,430
Lake [4]	103,680	57,100	24,030	10,100	13,930	12,570	20,500
Central [5]	170,560	60,182	31,901	7,600	24,301	26,011	2,270
South Atlantic and East Gulf [6]	170,240	99,000	46,200	18,300	27,900	32,080	20,720
Lower Mississippi [7]	128,400	78,865	41,035	20,835	20,200	24,075	13,755
Rocky Mountain [8]	63,720	60,842	41,059	37,746	3,313	14,533	5,250
Pacific Coast [9]	77,120	59,100	44,975	39,683	5,292	7,425	6,700

Region	Stand of saw timber (millions of board feet)			Annual growth in growing area		
	Total	Hardwood	Softwood	Saw timber (millions of board feet)	Cordwood (millions of cubic feet)	Total (millions of cubic feet)
Total	2,214,893	459,675	1,755,218	9,672	3,877	5,995
New England [2]	49,799	11,319	38,480	609	341	474
Middle Atlantic [3]	44,857	29,504	15,353	714	342	499
Lake [4]	110,110	69,350	40,760	988	251	468
Central [5]	144,470	133,152	11,318	1,458	587	906
South Atlantic and East Gulf [6]	220,577	83,750	136,827	2,428	1,062	1,594
Lower Mississippi [7]	280,908	132,600	148,308	1,752	600	983
Rocky Mountain [8]	223,141	----------	223,141	461	264	365
Pacific Coast [9]	1,141,031	----------	1,141,031	1,262	430	706

[1] Revised October, 1922.
[2] Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.
[3] New York, New Jersey, Pennsylvania, Delaware, and Maryland.
[4] Michigan, Wisconsin, and Minnesota.
[5] Ohio, Indiana, Illinois, West Virginia, Kentucky, Tennessee, Iowa, Missouri, eastern Kansas, and eastern Nebraska.
[6] Virginia, North Carolina, South Carolina, Georgia, Florida, and Alabama.
[7] Mississippi, Arkansas, Louisiana, eastern Texas, and eastern Oklahoma.
[8] Idaho, Montana, Wyoming, Colorado, western South Dakota (Black Hills), New Mexico, Arizona, Utah, and Nevada.
[9] California, Oregon, and Washington.

Source: Forest Service, Department of Agriculture.

No. 704.—STAND OF SAW TIMBER (ESTIMATED): About 1920

[Quantities in millions of board feet]

Specie	Total	New England	Middle Atlantic	Lake	Central	South Atlantic and East Gulf	Lower Mississippi	Rocky Mountain	Pacific coast
Grand total	**2,214,893**	**49,799**	**44,857**	**110,110**	**144,470**	**220,577**	**280,908**	**223,141**	**1,141,031**
Eastern hardwoods, total	**459,675**	**11,319**	**29,504**	**69,350**	**133,152**	**83,750**	**132,600**		
Oak	157,372	1,510	5,500	8,301	64,712	27,889	49,460		
Birch, beech, and maple	90,784	8,143	16,897	36,076	20,505	4,522	4,641		
Red gum	44,222		176		3,728	13,400	26,918		
Chestnut	19,319	960	3,754		7,989	6,616			
Hickory	15,784	40	412	187	6,791	3,183	5,171		
Cottonwood and aspen	10,824	374	13	999	2,131	1,340	5,967		
Ash	9,988	215	513	1,893	2,929	1,256	3,182		
Yellow poplar	9,611		126	7	5,193	4,020	265		
Others	101,771	77	2,113	21,887	19,174	21,524	36,996		
Eastern softwoods, total	**391,046**	**38,480**	**15,353**	**40,760**	**11,318**	**136,827**	**148,308**		
Southern yellow pine	257,691				365	121,442	135,884		
Hemlock	30,896	1,804	5,036	18,301	3,910	1,845			
Spruce and fir	31,572	23,971	2,948	3,772		881			
Cypress	22,921					11,208	11,713		
White and Norway pine	23,457	9,816	4,037	8,000	515	1,089			
Others	24,509	2,889	[1] 3,332	10,687	[1] 6,528	362	711		
Western softwoods, total	**1,364,172**							**223,141**	**1,141,031**
Douglas fir	595,505							36,934	558,571
Western yellow pine and Jeffrey pine	249,578							66,125	183,453
Western hemlock	95,092							1,092	94,000
True firs	91,349							8,870	82,479
Redwood	72,208								72,208
Western white pine and sugar pine	57,071							18,586	38,485
Western red cedar	53,348							4,348	49,000
Lodgepole pine	43,919							39,353	4,566
Spruce	39,822							26,467	13,355
Others	66,280							21,366	44,914

[1] Includes small amounts of spruce, cypress, and various species of yellow pine.

No. 705.—NATIONAL FORESTS: Area and Standing Timber

Note.—Includes acreage actually acquired under the Weeks law, see Table 707. In 1929, there were 12,580,368 acres of State forests, including forest preserves of New York, Hawaiian forest reserves, State parks, and other forest lands belonging to States; also 726,577 acres of municipal and county forests and parks

State	Net area (acres), June 30, 1929	Standing timber, Jan 1, 1926		State	Net area (acres), June 30, 1929	Standing timber, Jan. 1, 1926	
		Saw-timber (million board feet)	Cordwood (1,000 cords)			Saw timber (million board feet)	Cordwood (1,000 cords)
Total	**159,750,520**	**552,339**	**91,142**	Nevada	4,978,198	268	6,613
Cont'l U. S.	**138,392,152**	**467,579**	**91,142**	New Hampshire	460,474	1,027	
Alabama	114,490	124	34	New Jersey		3	(1)
Arizona	11,466,626	14,385	11,427	New Mexico	8,491,831	11,187	13,448
Arkansas	1,049,688	1,799		New York		3	(1)
California	19,026,819	100,599	24,771	North Carolina	381,864	421	2,727
Colorado	13,309,549	22,167	5,694	Oklahoma	61,480		
Florida	343,180	182	1,288	Oregon	13,297,938	138,266	
Georgia	244,952	338	455	Pennsylvania	291,337	17	134
Idaho	19,300,773	46,993	6,017	South Carolina	42,378	73	83
Illinois	10,710			South Dakota	1,067,326	2,508	831
Kentucky		10		Tennessee	372,958	567	719
Maine	33,361	57		Utah	7,475,762	5,225	6,670
Maryland		1	6	Virginia	588,954	320	877
Michigan	264,970	9	37	Washington	9,598,372	77,155	
Minnesota	1,037,756	859	6,349	West Virginia	242,967	75	148
Montana	16,170,658	28,495		Wyoming	8,460,755	14,447	2,813
Nebraska	206,026			Alaska	21,345,925	84,760	
				Porto Rico	12,443		

[1] Less than 500 cords.

Source of Tables 704 and 705: Forest Service, Department of Agriculture.

No. 706.—NATIONAL FORESTS: AREA OF EACH FOREST, 1929

NOTE.—Net area is gross area less area of alienated lands. The aggregate includes national forests in Alaska and Porto Rico

State and forest	Net area
Aggregate (150 national forests)	*Acres* 159,750,520
Alabama: Alabama	[1] 114,490
Alaska	21,345,925
Chugach	4,799,683
Tongass	16,546,242
Arizona	11,466,626
Apache [2]	677,792
Coconino	1,725,316
Coronado [2]	1,356,710
Crook	1,424,389
Kaibab	723,411
Prescott	1,208,029
Sitgreaves	794,424
Tonto	2,262,044
Tusayan	1,294,511
Arkansas	1,049,688
Ouachita	[1] 699,957
Ozark	[1] 349,731
California	19,026,819
Angeles	644,138
California	826,573
Cleveland	380,589
Crater [2]	48,218
Eldorado [2]	559,857
Inyo [2]	1,521,353
Klamath [2]	1,524,873
Lassen	921,653
Modoc	1,494,407
Mono [2]	797,300
Plumas [3]	1,112,852
San Bernardino	597,326
Santa Barbara	1,775,678
Sequoia	1,329,616
Shasta [3]	891,407
Sierra	1,494,682
Siskiyou [2]	329,384
Stanislaus	823,649
Tahoe [2,3]	542,635
Trinity	1,410,629
Colorado	13,309,549
Arapaho [3]	639,906
Cochetopa	908,787
Colorado	826,776
Grand Mesa	659,584
Gunnison	911,629
Hayden [2]	68,635
Holy Cross	1,124,318
La Sal [2]	26,631
Leadville	928,884
Montezuma	727,599
Pike	1,089,603
Rio Grande	1,137,645
Routt	750,650
San Isabel	615,779
San Juan	1,244,593
Uncompahgre	756,830
White River	892,000
Florida	343,180
Choctawhatchee	184,449
Ocala	158,731
Georgia	244,952
Cherokee [2]	148,632
Nantahala [2]	96,320
Idaho	19,300,773
Boise	1,063,314
Cache [2]	494,580
Caribou [2]	706,581
Challis	1,345,128
Idaho—Continued.	
Clearwater	799,459
Coeur d'Alene	674,248
Idaho	1,733,724
Kaniksu [2]	192,790
Lemhi	1,358,839
Minidoka [2]	520,544
Nezperce	1,661,107
Payette	1,308,391
Pend Oreille	676,619
St. Joe	603,211
Salmon	1,707,834
Sawtooth	1,166,729
Selway	1,689,960
Targhee [2]	1,031,330
Weiser	566,385
Illinois: Bellevue-Savanna	10,710
Maine: White Mountain [2]	33,361
Michigan	264,970
Huron	[1] 237,135
Michigan	[1] 27,835
Minnesota	1,037,756
Chippewa	192,350
Superior	[1] 845,406
Montana	16,170,658
Absaroka	853,607
Beartooth	660,384
Beaverhead	1,340,860
Bitterroot	1,051,104
Blackfeet	832,776
Cabinet	834,848
Custer [2]	517,393
Deerlodge	823,199
Flathead	1,718,820
Gallatin	561,583
Helena	934,946
Jefferson	1,040,874
Kootenai [3]	1,361,487
Lewis and Clark	810,731
Lolo [3]	894,181
Madison	956,462
Missoula	977,403
Nebraska: Nebraska	206,026
Nevada	4,978,198
Dixie [2]	56,324
Eldorado [2]	400
Humboldt	1,322,215
Inyo [2]	60,416
Mono [2]	464,502
Nevada	1,175,128
Tahoe [2]	16,373
Toiyabe	1,882,840
New Hampshire: White Mountain [2]	460,474
New Mexico	8,491,831
Apache [2]	887,126
Carson	1,094,371
Coronado [2]	124,988
Datil	1,750,103
Gila	1,596,416
Lincoln	1,114,095
Manzano	679,448
Santa Fe	1,245,284
North Carolina	381,864
Cherokee [2]	5,414
Nantahala [2]	[4] 117,395
Pisgah [2]	[4] 259,055
Oklahoma: Wichita	61,480
Oregon	13,297,938
Oregon—Continued.	
Cascade	1,027,440
Crater [2]	815,507
Deschutes	1,303,113
Fremont	849,286
Klamath [2]	8,723
Malheur	1,051,191
Mount Hood	1,063,936
Ochoco [3]	721,973
Santiam	614,914
Siskiyou [2]	1,033,252
Siuslaw [3]	531,314
Umatilla [2]	939,464
Umpqua	1,015,731
Wallowa	969,618
Whitman [3]	1,352,476
Pennsylvania	
Allegheny	291,337
Porto Rico: Luquillo	12,443
South Carolina: Nantahala [2]	42,378
South Dakota	1,067,326
Black Hills [2]	481,100
Custer [2]	73,686
Harney [3]	512,540
Tennessee	372,958
Cherokee [2]	200,071
Pisgah [2]	30,741
Unaka [2]	142,146
Utah	7,475,762
Ashley [2]	980,329
Cache [2]	282,246
Dixie [2]	796,970
Fishlake	1,387,079
La Sal [2]	504,291
Manti [3]	725,229
Minidoka [2]	70,651
Powell	1,039,996
Uinta	1,078,217
Wasatch	610,754
Virginia	588,954
Monongahela [2]	10,414
Natural Bridge	161,910
Shenandoah [2]	369,760
Unaka [2]	46,870
Washington	9,598,372
Chelan	1,796,324
Columbia	757,492
Colville	747,875
Kaniksu [2]	273,143
Mount Baker	1,460,334
Olympic	1,494,856
Rainier	1,261,509
Snoqualmie [3]	619,451
Umatilla [2]	313,359
Wenatchee [3]	874,029
West Virginia	242,967
Monongahela [2]	182,851
Shenandoah [2]	60,116
Wyoming	8,460,755
Ashley [2]	6,460
Bighorn	1,125,672
Black Hills [2]	147,283
Caribou [2]	6,315
Hayden [2]	327,888
Medicine Bow	556,032
Shoshone	1,599,967
Targhee [2]	345,570
Teton	1,787,615
Washakie	861,185
Wyoming	1,696,768

[1] Figures include acreage actually acquired under the Weeks law. (See Table 707.)
[2] Forest lies in more than one State.
[3] Additions made under the exchange act of Mar. 20, 1922 (42 Stat. 465), and other related acts.
[4] Figures include acreage transferred from the Treasury Department.

Source: Forest Service, Department of Agriculture.

No. 707.—NATIONAL FORESTS: Lands Acquired or Approved for Purchase Under Weeks Law to June 30, 1929

State and area	Total area approved for purchase	Area acquired	Area approved but not acquired
	Acres	*Acres*	*Acres*
Grand total	3,605,184	2,995,915	609,269
Alabama: Alabama	103,971	96,741	7,230
Arkansas, total	258,816	146,378	112,438
Ouachita	131,074	81,600	49,474
Ozark	127,742	64,778	62,964
Florida: Osceola	93,826	----------	93,826
Georgia, total	265,728	244,952	20,776
Cherokee (part)	163,900	148,632	15,268
Nantahala (part)	101,828	96,320	5,508
Louisiana, total	36,256	----------	36,256
Catahoula	11,201	----------	11,201
Kisatchie	25,055	----------	25,055
Maine: White Mountain (part)	33,482	33,361	121
Michigan, total	184,252	72,980	111,272
Huron	71,021	61,879	9,142
Keweenaw	34,569	----------	34,569
Mackinac	49,359	----------	49,359
Marquette	29,303	11,101	18,202
Minnesota: Superior	77,815	31,940	45,875
New Hampshire: White Mountain (part)	482,848	460,474	22,374
North Carolina, total	382,706	370,495	12,211
Cherokee (part)	7,519	5,414	2,105
Nantahala (part)	122,108	114,093	8,015
Pisgah (part)	253,079	250,988	2,091
Pennsylvania: Allegheny	344,607	291,337	53,270
South Carolina: Nantahala (part)	44,884	42,378	2,506
Tennessee, total	381,535	372,958	8,577
Cherokee (part)	202,333	200,071	2,262
Pisgah (part)	30,741	30,741	----------
Unaka (part)	148,461	142,146	6,315
Virginia, total	602,067	588,954	13,113
Monongahela (part)	10,414	10,414	----------
Natural Bridge	163,777	161,910	1,867
Shenandoah (part)	376,284	369,760	6,524
Unaka (part)	51,592	46,870	4,722
West Virginia, total	312,391	242,967	69,424
Monongahela (part)	241,960	182,851	59,109
Shenandoah (part)	70,431	60,116	10,315

Source: Forest Service, Department of Agriculture.

No. 708.—NATIONAL FORESTS: Summary of Operations

Note.—Data for quantity of timber sales, quantity, and value of free timber given, and revenue are for fiscal years ended June 30; all other data are for calendar years. Figures include data for national forests in Alaska.

Item	1923	1924	1925	1926	1927	1928	1929
Timber sales:							
Number	12,720	13,382	12,349	13,199	12,648	13,791	13,864
Quantity [1] ... M ft.[2]	3,146,736	1,333,254	1,771,531	1,489,372	642,698	2,689,916	1,050,892
Timber cut under sales ... do	1,055,035	1,093,278	1,183,167	1,175,273	1,091,621	1,336,614	1,421,186
Free timber given:							
Number of users	34,032	35,568	32,695	34,797	35,068	38,165	42,135
Timber cut ... M ft.[2]	96,985	89,367	78,348	[1] 88,170	81,363	82,442	86,768
Value ... dolls	97,934	93,900	81,902	[1] 97,330	91,346	90,111	97,518
Grazing, kinds of stock: [3]							
Cattle ... No	1,804,274	1,664,087	1,538,942	1,456,858	1,403,191	1,335,903	1,322,465
Goats ... do	31,379	29,068	19,795	15,666	18,046	17,070	15,487
Swine ... do	1,347	1,560	846	1,085	1,002	1,206	853
Horses ... do	64,104	58,184	57,904	57,396	55,629	51,956	48,171
Sheep ... do	6,377,759	6,301,308	6,162,263	6,212,657	6,376,838	6,509,421	6,650,719
Revenue, total ... dolls	5,335,818	5,251,903	5,000,137	5,155,661	5,166,606	5,441,601	6,299,802
From—							
Timber [4] ... do	2,721,876	3,036,396	2,940,393	3,366,685	3,253,243	3,325,079	4,108,595
Water power ... do	73,174	82,916	95,287	94,718	98,749	101,798	113,228
Special uses ... do	187,501	207,637	229,236	259,820	277,612	285,684	287,119
Grazing ... do	2,341,486	1,915,561	1,725,377	1,421,589	1,530,952	1,713,730	1,740,290
All other ... do	11,781	9,393	9,844	12,849	6,650	15,144	50,570

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

Source: Forest Service, Department of Agriculture.

No. 709.—LUMBER: Reported Production, by Species, and Average Value

Note.—For 1889, 1904, 1914, 1921, 1923, 1925, and 1927 custom mills are excluded and beginning with 1910 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. Apart from the specific exclusions mentioned there are other variations in the completeness of the returns

[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)	1917	35,831	6,657	29,174	$20.32
1879	18,091			(1)	1918	31,890	6,223	25,667	24.79
1889	23,842			$11.41	1919	34,552	7,145	27,407	30.21
1899	[2]35,078	8,634	26,146	11.13	1920	33,799	6,989	26,810	38.42
1904	34,127	6,782	27,345	12.76	1921	26,961	4,775	22,186	23.47
1909	44,510	10,613	33,897	15.38	1922	31,569	4,925	26,644	26.15
1910	40,018	8,857	31,161	15.30	1923	37,166	6,262	30,904	31.78
1911	37,003	8,101	28,902	15.05	1924	35,931	6,525	29,406	28.57
1912	39,158	8,632	30,526	15.35	1925	38,339	6,628	31,710	28.02
1913	38,387	8,084	30,303	(1)	1926	36,936	6,467	30,469	27.34
1914	37,346	7,939	29,407	(1)	1927	34,532	6,090	28,442	25.80
1915	37,012	7,527	29,485	14.04	1928	34,142	5,797	28,345	25.61
1916	39,807	8,475	31,332	15.32					

Specie	Production by species								
	1899	1909	1914	1919	1923	1925	1926	1927	1928
Softwoods:									
Yellow pine	9,659	16,277	14,473	13,063	12,949	13,236	11,752	10,891	10,610
Douglas fir	1,737	4,856	4,764	5,902	8,223	8,154	8,807	8,443	8,449
White pine	7,742	3,900	2,633	1,724	1,572	1,521	1,366	1,344	1,367
Hemlock	3,421	3,051	2,166	1,755	1,873	2,140	2,159	2,071	2,222
Western yellow pine	945	1,500	1,327	1,755	2,805	3,127	3,173	2,799	2,976
Spruce	1,442	1,749	1,246	980	758	751	647	529	572
Cypress	496	956	1,013	656	819	903	752	610	501
Redwood	360	522	535	410	592	511	488	570	487
Cedar	233	346	500	332	365	372	368	306	267
Larch	51	421	359	388	351	307	254	288	250
White fir		89	113	223	330	337	350	280	292
Sugar pine	54	97	136	134	228	307	306	282	306
Balsam fir		109	125	68	19	20	18	16	19
Lodgepole pine		24	18	16	16	25	29	13	27
All other softwood	9				4				
Hardwoods:									
Oak	4,438	4,414	3,279	2,708	2,028	2,129	2,191	2,013	1,830
Maple	633	1,107	910	857	842	921	829	774	743
Red gum	285	707	675	851	1,016	1,101	1,133	1,101	968
Yellow poplar	1,115	858	519	329	353	376	322	335	328
Chestnut	207	664	541	546	350	308	298	264	260
Birch	133	452	431	375	351	412	365	327	337
Beech		511	376	359	191	181	175	154	146
Basswood	308	399	265	184	173	180	153	146	140
Elm	457	347	214	194	206	191	182	161	156
Cottonwood	415	266	195	144	158	142	122	104	144
Ash	269	291	189	155	149	179	164	137	130
Hickory	97	334	116	170	96	79	86	52	48
Tupelo		97	124	144	175	220	256	267	316
Walnut	39	46	26	39	49	70	52	65	57
Sycamore	30	57	23	28	25	24	32	29	38
All other hardwood	209	63	56	61	100	115	107	161	156

[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. 710.—LUMBER: Reported Production by Regions and States

Note.—See headnote, Table 709

[In millions of board feet]

Region and State	1889	1899	1909	1914	1919	1923	1925	1927	1928
United States	23,842	35,078	44,510	37,346	34,552	37,166	38,339	34,532	34,142
Northeastern	4,726	5,709	5,197	3,553	2,584	1,632	1,507	1,231	1,210
Maine	597	785	1,112	993	596	376	330	264	267
New Hampshire	277	572	650	483	339	255	261	216	239
Vermont	384	376	352	250	218	120	126	91	107
Massachusetts	212	344	361	143	167	128	109	88	112
Connecticut	49	108	168	82	87	59	42	56	35
New York	925	878	681	486	358	236	198	142	130
New Jersey	34	74	62	49	37	14	10	5	3
Pennsylvania	2,133	2,333	1,463	865	630	361	331	278	239
Maryland	82	184	268	162	113	63	89	67	60
Rhode Island	8	19	25	16	11	4	4	7	5
Delaware	23	36	55	26	27	16	7	17	13
Central	3,130	5,643	5,487	3,621	3,016	2,045	1,969	1,829	1,663
Ohio	565	990	543	286	280	152	141	128	112
Indiana	755	1,037	556	299	282	189	179	148	127
Illinois	222	388	170	66	65	28	30	29	30
Missouri	402	724	660	371	321	179	187	189	142
West Virginia	302	778	1,473	1,118	763	640	583	542	548
Kentucky	423	775	861	596	512	196	207	198	174
Tennessee	460	951	1,224	885	792	661	642	595	530
Lake States	8,251	8,750	5,476	3,918	2,692	2,392	2,445	1,794	1,803
Michigan	4,300	3,018	1,890	1,214	876	833	797	578	572
Minnesota	1,084	2,342	1,562	1,312	700	552	579	397	412
Wisconsin	2,866	3,389	2,025	1,391	1,116	1,070	1,069	819	819
North Carolina Pine States	1,129	2,712	5,177	4,417	3,374	2,937	2,730	2,408	2,390
Virginia	416	959	2,102	1,488	1,098	771	709	536	547
North Carolina	515	1,287	2,178	2,228	1,654	1,096	1,041	1,055	1,021
South Carolina	199	466	898	702	622	1,070	980	817	822
Southern States	3,718	8,404	14,796	13,384	12,704	13,524	14,418	12,068	11,588
Georgia	575	1,312	1,342	1,026	894	1,149	1,365	1,201	1,039
Florida	412	790	1,202	1,074	1,137	1,110	1,064	907	995
Alabama	589	1,101	1,691	1,495	1,799	1,787	2,236	2,172	1,980
Mississippi	454	1,206	2,573	2,281	2,390	2,691	3,128	2,557	2,524
Arkansas	538	1,624	2,111	1,797	1,772	1,538	1,597	1,229	1,130
Louisiana	304	1,115	3,552	3,956	3,164	3,554	3,293	2,386	2,279
Texas	843	1,232	2,099	1,554	1,380	1,559	1,578	1,446	1,447
Oklahoma	3	22	226	201	168	136	157	170	194
Rocky Mountain States	249	556	1,292	1,340	1,299	1,811	1,920	1,748	1,790
Montana	90	256	308	318	287	427	389	396	388
Idaho	28	65	646	764	765	1,073	1,140	924	978
Arizona	5	36	63	79	74	131	146	169	158
New Mexico	26	31	92	57	87	126	152	173	162
Colorado	80	134	142	102	65	38	71	67	72
Utah	14	18	13	9	12	8	6	6	8
Wyoming	6	17	29	12	9	8	16	13	24
Pacific States	2,028	[1] 2,902	6,906	7,067	8,798	[1] 12,762	[1] 13,287	[1] 13,390	[1] 13,630
Washington	1,064	1,429	3,863	3,946	4,961	6,678	7,027	7,326	7,305
Oregon	446	735	1,899	1,818	2,577	3,966	4,217	3,993	4,372
California	518	737	1,114	1,303	1,259	[1] 2,118	[1] 2,043	[1] 2,071	[1] 1,953
All other [2]	612	401	179	46	85	63	63	64	68
Iowa	569	352	132	11	18	10	10	-------	-------
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	9.5	7.5	4.4	3.9	3.6	3.5
Central States	13.1	16.1	12.3	9.7	8.7	5.5	5.1	5.3	4.9
Lake States	34.6	24.9	12.3	10.5	7.8	6.4	6.4	5.2	5.3
North Carolina Pine States	4.7	7.7	11.6	11.8	9.8	7.9	7.1	7.0	7.0
Southern States	15.6	24.0	33.3	35.8	36.8	36.4	37.6	34.9	33.9
Rocky Mountain States	1.1	1.6	2.9	3.6	3.7	4.9	5.0	5.0	5.2
Pacific States	8.5	8.3	15.5	18.9	25.4	34.3	34.7	38.8	40.0
All other	2.6	1.1	.4	.1	.2	.2	.2	.2	.2

[1] Figures include Nevada.

[2] Includes, besides Iowa, the Plains States of Kansas and South Dakota, and in certain years small figures for the District of Columbia, Nebraska, and Nevada.

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

No. 711.—ESTIMATED QUANTITY OF TIMBER REMOVED ANNUALLY FROM FORESTS

NOTE.—Quantities are based mainly upon averages of production within the period 1912–1921. Values are based on prices prevailing in 1919 and include all value added to the material by cutting, transporting, manufacturing, or otherwise preparing for use

Product and waste	Unit of measure	Quantity in thousands	Approximate value or cost	Equivalent in lumber which could have been sawed from same trees		
				Total (M feet, b. m.)	Softwoods (M feet, b. m.)	Hardwoods (M feet, b. m.)
Aggregate			$2,254,015,000	60,193,700	41,057,780	19,135,920
Products, total			2,232,015,000	52,943,700	35,307,780	17,635,920
Lumber, dimension material and sawed ties.	Foot, b. m.	37,700,000	1,138,917,000	37,700,000	28,275,000	9,425,000
Fuel wood	Cord	100,000	475,000,000	5,000,000	1,500,000	3,500,000
Pulpwood	do	5,000	79,750,000	2,340,000	2,145,000	195,000
Ties, hewed	Number	70,000	73,500,000	2,100,000	420,000	1,680,000
Cooperage stock:						
Tight staves	do	350,000	19,250,000	532,000	133,000	399,000
Tight heading	Set	24,000	12,000,000	178,000	36,200	141,800
Slack staves	Number	1,200,000	18,000,000	362,000	121,600	240,400
Slack heading	Set	90,000	10,800,000	333,000	166,500	166,500
Hoops	Number	120,000	1,800,000	21,500		21,500
Shingles	do	9,000,000	37,710,000	900,000	900,000	
Mine timbers	Cubic foot	293,000	56,913,000	879,000	439,500	439,500
Fence posts	Number	900,000	225,000,000	825,000	660,000	165,000
Veneer logs	Foot, l. s.	576,000	25,079,000	691,200	103,680	587,520
Poles	Number	4,250	10,625,000	255,000	200,000	55,000
Vehicle stock, woodenware, handles, furniture, etc.	Board foot.	200,000	7,288,000	200,000	2,300	197,700
Distillation wood	Cord	1,400	9,268,000	185,000		185,000
Piling	Number	1,500	6,000,000	180,000	140,000	40,000
Export logs and hewn timbers	Board foot.	100,000	3,445,000	100,000	50,000	50,000
Tanning extract wood	Cord	1,000	10,250,000	87,000		87,000
Excelsior wood	do	200,000	1,800,000	75,000	15,000	60,000
Lath	Number	2,000,000	9,620,000			
Destroyed by fire	Cubic foot	1,080,000	10,000,000	2,250,000	1,750,000	500,000
Destroyed by insects, disease, and windfall.	do	1,300,000	12,000,000	5,000,000	4,000,000	1,000,000

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

No 712.—LUMBER: Average Mill Value per 1,000 Board Feet

Kind of wood	1899	1904	1909	1919	1921	1923	1924	1925	1926	1927	1928
All kinds [1]	$11.13	$12.76	$15.38	$30.21	$23.47	$31.78	$28.57	$28.02	$27.34	$25.90	$25.61
SOFTWOODS											
Balsam fir	(2)	(2)	13.99	32.23	25.71	27.62	27.66	26.65	25.64	25.92	25.40
Cedar	10.91	14.35	19.95	33.80	38.55	37.56	38.74	38.80	37.28	34.39	38.32
Cypress	13.32	17.50	20.46	38.38	36.88	44.61	42.08	40.90	43.33	39.91	36.18
Douglas fir	8.67	9.51	12.44	24.62	18.04	26.99	22.08	20.94	20.17	19.45	19.02
Hemlock	9.98	11.91	13.95	29.16	20.79	26.21	23.35	21.58	20.23	19.06	18.84
Larch (tamarack)	8.73	11.39	12.68	23.39	15.56	21.98	20.82	18.25	17.77	17.69	18.34
Lodgepole pine	(2)	(2)	16.25	29.98	21.81	21.76	21.07	20.22	19.98	20.82	19.29
Redwood	10.12	12.83	14.80	30.04	40.57	43.08	35.90	33.99	33.80	33.81	31.39
Spruce	11.27	14.03	16.91	30.76	25.73	31.44	30.18	27.98	27.27	26.59	26.50
Sugar pine	12.30	(2)	18.14	35.99	37.83	45.33	40.54	44.79	48.45	43.22	39.06
Yellow pine	8.46	9.96	12.69	28.71	19.42	29.82	26.55	26.46	26.54	23.77	24.62
Western yellow pine	9.70	11.30	15.39	27.75	26.95	33.09	27.73	27.70	26.63	26.04	26.35
White fir	(2)	(2)	13.10	25.66	21.37	23.84	21.69	22.51	20.15	199.2	20.00
White pine	12.69	14.93	18.16	32.83	30.03	34.85	32.66	32.58	31.36	29.90	28.71
HARDWOODS											
Ash	15.84	18.77	24.44	52.69	38.18	50.35	49.54	48.46	48.07	43.82	45.61
Basswood	12.84	16.86	19.50	40.03	33.09	45.60	41.94	39.76	37.07	39.84	39.72
Beech	(2)	(2)	13.25	29.98	26.99	30.22	29.95	29.21	27.84	27.71	28.63
Birch	12.50	15.44	16.95	35.79	31.53	43.33	43.83	41.68	40.80	41.03	40.30
Chestnut	13.37	13.78	16.12	32.30	27.87	29.75	25.07	30.37	29.54	29.35	31.09
Cottonwood	10.37	14.92	18.05	32.24	25.05	30.19	29.43	26.70	34.47	30.92	27.54
Elm	11.47	14.45	17.52	36.39	29.63	43.53	38.63	36.41	37.13	36.22	37.89
Gum, red and sap	9.63	10.87	13.20	32.68	22.46	32.35	30.24	31.39	33.73	31.82	31.91
Hickory	18.78	23.94	30.80	44.37	36.60	46.39	52.24	39.25	51.20	37.08	38.83
Maple	11.83	14.94	15.77	35.56	30.34	41.59	40.36	39.18	37.21	35.35	36.31
Oak	13.78	17.51	20.50	37.87	30.56	39.08	36.13	37.00	35.67	35.72	35.23
Sycamore	11.04	(2)	14.87	30.32	22.55	30.25	29.31	31.11	29.49	29.31	30.06
Tupelo	(2)	(2)	11.87	28.42	18.59	24.90	25.86	24.66	26.71	26.71	25.51
Yellow poplar	14.03	18.99	25.39	41.65	37.31	51.29	44.38	43.44	38.63	38.58	40.90
Walnut	36.49	45.64	43.79	72.13	88.83	109.38	103.66	111.53	113.57	111.64	112.54

[1] Including minor species. [2] No data.

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

No. 713.—VENEERS: Timber Consumed in Manufacturing Veneers

[In thousands of feet, log scale]

State	1909	1923	1925	1927
Total	435,981	645,793	734,599	961,561
Alabama	14,565	43,214	38,561	41,424
Arkansas	26,116	64,117	58,122	57,611
Florida	33,293	49,016	29,999	77,321
Illinois	35,646	13,722	11,967	11,414
Kentucky	19,356	25,020	23,309	24,193
Louisiana	3,164	23,728	34,395	35,012
Mississippi	7,563	45,496	57,268	80,218
New York	24,218	16,382	34,095	27,364
North Carolina	19,984	53,196	64,040	78,171
Oregon	3,291	26,369	29,793	32,091
South Carolina	2,944	20,783	29,669	35,311
Tennessee	30,574	30,983	40,454	25,586
Virginia	21,609	21,179	26,416	33,319
Washington	5,419	53,510	112,484	140,319
Wisconsin	31,737	37,513	34,292	37,864
All other	156,502	121,565	119,135	224,343

Kind of wood	1909	1923	1925	1927
DOMESTIC				
Basswood	13,715	8,771	9,413	11,885
Birch	24,643	43,936	51,490	51,331
Cottonwood	30,842	40,404	39,869	43,456
Douglas fir	1,111	55,123	101,869	101,229
Elm	16,254	9,570	8,503	16,945
Maple	35,444	23,310	23,922	24,706
Red gum	129,930	220,703	237,465	250,247
Tupelo	18,476	36,396	48,311	113,729
Walnut	2,400	15,452	17,573	20,786
Oak	35,403	25,274	20,661	19,502
Yellow pine	48,143	65,100	45,818	92,153
Yellow poplar	28,826	45,376	50,770	56,899
All other	32,905	58,373	65,201	141,134
IMPORTED				
Mahogany	16,057	6,664	7,471	11,954
Spanish cedar	5,140	2,714	5,149	4,829
All other	3,353	961	1,114	785

Source: Bureau of the Census, Department of Commerce.

No. 714.—LATH AND SHINGLES: PRODUCTION

[All figures in thousands of lath or shingles]

Year (calendar)	Lath	Shingles	Year (calendar)	Lath	Shingles
1899	2,523,998	12,102,017	1921	1,970,696	6,843,187
1904	2,647,847	14,546,551	1922	2,940,714	8,131,242
1909	3,703,195	14,907,371	1923	3,328,013	7,506,869
1915	2,745,134	8,459,378	1924	2,961,200	6,862,385
1917	2,281,738	8,696,513	1925	3,161,137	7,324,027
1918	1,362,187	5,690,182	1926	3,083,130	6,008,346
1919	1,724,078	9,192,704	1927	2,372,333	6,443,868
1920	1,952,983	6,156,416	1928	1,903,887	5,603,690

States	Lath				Shingles			
	1909	1919	1927	1928	1909	1919	1927	1928
Alabama	50,979	42,502	34,084	45,780	245,871	62,241	10,747	9,139
Arkansas	78,362	72,827	31,598	35,412	208,080	98,937		328
California	32,615	43,042	84,941	93,025	574,342	191,831	122,314	85,937
Florida	55,741	76,402	101,217	93,795	283,206	128,286	46,606	29,611
Georgia	58,704	19,718	4,575	8,567	443,260	114,806	7,350	6,204
Idaho	86,740	69,150	108,337	93,060	62,308	22,657	9,464	12,499
Louisiana	377,708	199,018	136,167	103,775	757,868	300,784	72,169	36,111
Maine	337,086	104,223	117,756	66,713	598,131	188,576	50,854	69,571
Michigan	218,308	51,469	30,396	26,901	891,649	144,173	31,538	21,204
Minnesota	478,008	115,741	131,281	89,547	74,818	4,451	110	125
Mississippi	90,926	96,204	144,453	115,808	151,303	34,002	11,754	9,942
Montana	35,430	21,362	19,314	15,416	525	253	68	22
North Carolina	70,724	19,079	14,616	11,543	280,942	92,139	15,588	25,728
Oregon	161,512	122,848	273,066	251,093	293,644	530,066	309,818	236,641
Texas	59,627	35,916	82,015	55,880	137,719	13,581	1,917	3,342
Virginia	127,555	27,073	14,317	10,272	39,172	1,637	50	42
Washington	451,384	339,058	766,109	584,493	8,879,467	7,095,122	5,690,579	5,019,061
West Virginia	150,820	22,005	58,204	53,064	6,829	120		
Wisconsin	299,845	138,936	95,332	87,376	392,863	96,928	54,096	33,635
All other	481,121	107,505	74,555	62,367	585,374	72,114	8,846	4,548

No. 715.—COOPERAGE STOCK: PRODUCTION OF STAVES, HEADING, AND HOOPS

NOTE.—Production of wooden hoops in 1923 was 153,954,000; in 1925, 149,167,000; and in 1927, 134,596,000, nearly all elm

Year and State	Staves (thousands)		Heading (thousand sets)	
	Tight	Slack	Tight	Slack
1909	379,231	2,029,548	20,691	140,234
1919	353,825	1,121,324	24,274	87,381
1921	255,047	893,621	20,505	66,747
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
1927				
Alabama	9,837	32,857	(1)	20,606
Arkansas	65,136	271,861	5,194	(1)
Florida	(1)	23,215	(1)	717
Georgia	8,154	18,272	(1)	7,462
Louisiana	22,118	59,287	2,378	1,484
Maine		8,337	(1)	438
Massachusetts		300		765
Mississippi	11,695	77,953	(1)	(1)
Missouri	7,409	90,942	(1)	(1)
New Hampshire	24,480	1,332	1,838	288
North Carolina	(1)	78,134	(1)	3,486
Tennessee	16,541	30,498	1,712	(1)
Virginia		123,013		3,498
Washington	(1)	13,786	(1)	1,014
All other	158,757	131,995	15,323	19,579

Kind of wood	Staves (thousands)		Heading (thousand sets)	
	Tight	Slack	Tight	Slack
1927				
Oak	139,827	6,985	10,630	28
Gum	22,749	315,270	2,480	10,348
Pine	25,947	236,358	2,136	32,424
Douglas fir	45,299	38,566	3,243	1,607
Hemlock	601	6,492	236	169
Ash	5,315	62,865	421	158
Elm	369	100,065	11	326
Tupelo	220	76,621		2,970
Cottonwood	108	41,595		842
Birch	128	633	7	2,922
Beech		1,386		1,326
Spruce	81,934	35,125	7,142	2,695
Maple	137	192	28	455
Poplar		12,499		242
Basswood	107	899	11	1,323
All other	1,386	26,231	100	1,502

[1] Included in "All other" to avoid disclosing the data reported by individual establishments.

Sources of Tables 714 and 715: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

No. 716.—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: Total (thousand dollars)	Cost: Average per cord	Year	Quantity, all species (cords)	Cost: Total (thousand dollars)	Cost: Average per cord	Year	Quantity, all species (cords)	Cost: Total (thousand dollars)	Cost: Average per cord
1899	1,986,310	9,838	$4.95	1920	6,114,072	116,496	$19.03	1925	6,093,821	94,340	$15.48
1905	3,192,123	17,736	5.56	1921	4,557,179	91,589	20.10	1926	6,766,007	101,229	14.96
1909	4,001,607	34,478	8.62	1922	5,548,842	89,895	16.20	1927	6,750,935	95,452	14.14
1914	4,470,763	39,408	8.81	1923	5,872,870	95,306	16.23	1928	7,160,100	97,024	13.55
1919	5,447,832	87,386	15.95	1924	5,768,082	92,672	16.07				

Kind of wood	Total consumption (cords) 1909	1919	1925	1928	Consumption by processes,[1] 1928 (cords): Mechanical	Sulphite	Soda	Sulphate	Average cost per cord, 1928
Total	4,001,607	5,477,832	6,093,821	7,160,100	1,558,818	3,196,939	928,300	1,435,252	$13.55
Spruce:									
Domestic	1,653,249	2,313,419	2,253,219	2,000,433	870,008	1,070,491	6,020	53,914	17.04
Imported	768,332	873,795	818,143	1,063,348	413,823	610,022	29,529	9,974	19.21
Hemlock:									
Domestic	559,657	795,154	1,013,109	1,158,958	105,190	860,628	4,770	188,370	10.63
Imported			21,705	18,677	3,695	14,982			11.92
Yellow pine (southern)	90,885	234,463	531,157	925,698	7,125	7,205	92,844	818,524	7.68
Poplar:									
Domestic	302,876	180,160	206,982	225,194	21,934	13,087	190,058	115	13.59
Imported	25,622	158,220	195,938	199,871	1	11	193,288	6,571	16.68
Balsam fir:									
Domestic	95,366	288,814	214,600	257,379	56,949	137,810		62,620	13.51
Imported			52,590	102,287	27,094	67,880		7,313	18.12
Yellow poplar	(2)	72,605	145,871	122,738	53		122,685		12.23
Jack pine	(3)	51,581	102,040	175,957	9,553	20	100	151,339	11.20
White fir	37,176	31,138	84,305	105,161	27,494	75,602		2,065	9.83
Tamarack or larch	(4)	44,042	76,585	67,394		327		67,067	12.53
Gum	(4)	30,355	43,386	72,611			70,422		12.69
Other wood	219,467	229,005	177,975	208,789	2,403	2,692	200,386	3,308	10.44
Slabs and mill waste	248,977	175,081	156,216	455,605	13,496	336,182	18,198	64,072	5.49

[1] In addition there were 40,791 cords of semichemical pulpwood consumed.
[2] Included in domestic poplar. [3] Included in yellow pine. [4] Included in "Other wood."

No. 717.—WOOD PULP PRODUCTION: Total and by States and Processes

Note.—In 1928, 1,546,240 tons of mechanical pulp were not steamed and 64,748 tons steamed; of the other chemical pulp (sulphite, soda, and sulphate) 1,572,693 tons were unbleached and 1,249,031 bleached

Year	Tons	Year	Tons	Year	Tons	Year	Tons
1899	1,179,525	1914 [1]	2,893,150	1923 [1]	3,788,672	1926 [1]	4,394,766
1904	1,921,768	1919 [1]	3,517,952	1924	3,723,266	1927 [1]	4,313,403
1909	2,495,523	1921 [1]	2,875,601	1925 [1]	3,962,217	1928 [1]	4,510,800

State and process	1909 [2]	1919	1921	1923	1925	1927 [2]	1928 [2]
Principal States:							
Maine	620,705	916,764	710,329	901,007	917,632	942,162	970,690
New York	679,534	811,958	606,869	760,199	770,777	710,227	633,182
Wisconsin		506,549	488,501	577,993	599,601	690,921	720,781
Pennsylvania		215,686	167,310	236,900	224,399	216,587	218,598
New Hampshire		232,134	152,797	188,323	217,489	200,324	198,587
Michigan		106,194	103,532	138,034	161,063	193,539	196,203
Minnesota		129,560	117,934	170,609	171,536	191,220	194,399
Washington		83,575	95,161	136,943	161,858	268,349	349,107
West Virginia		39,195	27,623	23,072	27,167		
Vermont		85,945	41,945	70,840	46,597	32,562	19,831
California and Oregon		123,990	124,494	162,653	160,736	200,869	213,407
Other States	1,195,284	266,402	239,106	422,099	503,362	666,643	347,012
Process:							
Mechanical	1,179,266	1,518,829	1,267,382	1,580,553	1,612,019	1,610,409	1,610,988
Sulphite	1,017,631	1,419,829	1,166,926	1,448,690	1,403,086	1,552,699	1,558,858
Soda	298,626	411,693	300,533	445,162	472,647	487,478	488,641
Sulphate		120,378	140,760	314,267	409,768	603,253	774,225
Semichemical						11,983	29,967

[1] Total includes screenings. [2] Blank spaces indicate figures not reported separately.

Sources of Tables 716 and 717: Bureau of the Census, Department of Commerce.

No. 718.—PAPER AND WOOD PULP: CENSUS STATISTICS OF PRODUCTION

NOTE.—The total value of products involves duplication due to the use of pulp produced by certain plants as material in other plants. Pulp made and consumed in the same plant is not included

Item	Quantity (thousands of short tons)			Value (thousands of dollars)		
	1914	1925	1927	1914	1925	1927
All products, value				332,147	971,882	[1] 919,891
Total paper	5,270	9,182	10,002	291,588	862,589	872,207
Standard newsprint, in rolls and sheets	1,313	1,563	1,517	52,943	106,083	98,782
Hanging papers	97	105	113	4,589	9,506	9,035
Poster, novel, tablet, lining, etc	8	84	[2] 183	491	7,096	[2] 15,573
Book paper	904	1,343	1,329	70,102	177,292	160,869
Cover paper	22	24	26	2,809	5,806	5,938
Writing paper (fine)	248	474	509	34,055	105,474	105,148
Wrapping paper (other than bag, tag board, etc.)	882	1,147	1,285	49,373	125,967	137,138
Bag paper (all kinds)	([3])	124	199	([3])	14,617	20,143
Tag board, light manila board, and pattern	[4] 29	21	41	[4] 1,935	3,004	5,299
Boards	1,292	3,287	3,774	44,869	192,942	211,264
Tissue paper	115	281	316	11,536	45,735	46,617
Blotting paper	14	13	13	1,458	2,585	2,700
Building and sheathing, felts, and roofing	[5] 244	555	[5] 626	[5] 9,476	44,031	[5] 40,062
Other paper	102	161	71	8,052	22,451	13,639
Wood pulp, for sale or transfer to other mills	912	913	([6])	31,678	55,200	([6])
Other products [7]				8,881	54,093	111,922

[1] Exclusive of $64,236,990, the value of paper and paper boards produced and used as materials in converting plants operated by the companies reporting.
[2] Includes catalogue. [3] Not reported separately. [4] "Tag stock (rope, jute, and sulphite)."
[5] Reported as building, roofing, asbestos, etc., in 1914; as sheathing, felts, and asbestos filled in 1927.
[6] Not available. [7] Largely paper bags, boxes, and containers.

No. 719.—TURPENTINE AND ROSIN PRODUCTION

Year [1]	Turpentine (gallons)			Rosin (barrels of 500 pounds)		
	Total	From gum	From wood	Total	From gum	From wood
1899	37,733,500	37,733,500	([2])	2,434,933	2,434,933	([2])
1904	31,129,236	30,687,051	442,185	1,964,674	1,964,674	([2])
1909	29,714,132	28,988,954	706,868	1,827,760	1,827,760	([2])
1914	27,648,939	26,980,981	575,557	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
1921	24,820,620	24,378,854	441,766	1,690,971	1,661,624	29,347
1923	29,781,944	27,174,580	2,607,364	1,990,865	1,790,087	200,778
1924	29,333,450	26,072,200	3,261,250	2,018,296	1,760,765	257,531
1925	27,261,425	23,922,250	3,339,175	1,903,370	1,618,866	284,504
1926	29,483,055	[3] 25,500,000	[4] 3,983,055	2,105,480	[3] 1,740,000	[4] 365,480
1927	35,882,258	31,549,082	4,333,176	2,524,000	2,071,813	452,187

PRODUCTION FROM CRUDE GUM	Turpentine (gallons)				Rosin (barrels of 500 pounds)			
	1914	1919	1925	1927	1914	1919	1925	1927
Alabama	2,721,777	2,037,005	1,557,200	2,179,710	165,099	120,839	102,775	144,381
Florida	12,363,232	6,992,489	8,649,050	10,275,713	733,772	486,432	570,837	711,852
Georgia	6,228,041	3,997,310	10,301,750	15,060,761	347,931	234,690	679,915	953,923
Mississippi	2,385,054	1,749,812	2,914,250	1,879,418	154,115	115,984	192,339	117,688
Louisiana	2,252,118	1,885,231		1,367,929	150,793	112,900		93,601
Texas	647,160	906,404			41,639	60,179		
North Carolina and South Carolina	383,599	125,590	500,000	795,551	22,294	7,636	33,000	50,368

[1] The figures of turpentine and rosin from crude gum beginning with 1919 and from wood beginning with 1925 refer to the crop year ended Mar. 31 of the year following. All other figures relate to calendar years.
[2] Not reported.
[3] Estimated: Savannah Naval Stores Review, and Bureau of Chemistry, Department of Agriculture.
[4] Compiled by J. E. Lockwood, Hercules Powder Co., and Bureau of Chemistry, Department of Agriculture.

Sources of Tables 718 and 719: Bureau of the Census, Department of Commerce.

30.—FISHERIES

No. 720.—QUANTITY AND VALUE OF THE PRODUCTS OF THE FISHERIES OF SPECIFIED SECTIONS

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
1889	653,170	10,550.6	129,560	2,111.2	4,355	88.5
1898	393,458	9,682.3	123,405	2,654.9	3,021	49.0
1902	534,075	12,406.3	242,390	2,918.8	1,593	50.0
1905	480,284	14,184.2	124,724	2,386.4	1,036	51.9
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
1924	406,822	18,818.1	116,707	4,137.0	447	56.0
1928	603,598	25,619.9	123,326	4,231.1	239	45.5
	Massachusetts		**Rhode Island**		**Connecticut**	
1880	----------	7,959.8	----------	696.8	----------	933.2
1889	299,218	5,858.3	127,365	935.1	39,750	1,557.5
1898	202,258	4,463.7	32,854	955.1	31,920	1,559.6
1902	230,646	6,482.4	21,614	1,155.7	37,832	1,799.4
1905	255,654	7,025.2	23,896	1,546.7	74,973	3,173.9
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
1924	243,363	10,799.6	20,535	1,818.9	25,770	2,006.7
1928	380,169	15,648.8	27,666	2,397.9	72,198	3,296.6

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	408,203	8,489.1	329,453	4,225.7	65,151	3,176.6	1,680	89.1	11,918	997.7
1890	299,104	8,645.1	192,471	4,602.2	88,730	3,447.4	7,849	328.2	10,054	267.3
1897	227,590	7,527.7	109,556	3,391.6	103,783	3,614.4	5,604	269.5	8,648	252.1
1901	357,888	9,104.7	228,092	3,894.3	117,931	4,755.5	6,030	251.5	5,835	203.4
1904	375,412	10,043.1	277,650	6,230.6	90,108	3,385.4	2,046	167.5	5,608	259.6
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
1926	168,012	12,456.3	60,721	5,128.7	73,299	6,254.3	735	43.3	33,258	1,030.0

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
1890	329,188	9,655.5	143,906	6,019.2	185,283	3,636.4
1897	366,582	6,796.8	88,588	3,617.3	277,994	3,179.5
1901	461,159	8,380.8	82,975	3,767.5	378,183	4,613.4
1904	436,445	8,920.9	81,129	3,336.6	355,316	5,584.4
1908	426,311	8,022.0	113,796	3,306.0	312,515	4,716.0
1920	530,750	12,740.4	59,531	4,198.7	471,219	8,541.7
1925	333,206	13,948.1	56,978	4,863.4	276,228	9,084.6

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
1890	67,202	1,573.7	51,799	1,027.7	4,945	202.6	2,994	123.6	7,464	219.9
1897	80,390	1,833.2	64,234	1,316.0	5,280	210.5	4,993	170.6	5,883	136.1
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
1923	228,748	5,086.3	95,192	2,414.5	6,763	284.8	39,896	668.1	86,896	1,719.9
1927	260,669	5,695.9	144,466	2,777.4	8,374	350.4	47,607	697.2	60,222	1,870.9
1928	258,440	6,027.2	141,899	2,629.2	7,432	316.8	42,069	866.3	67,040	2,214.9

No. 720.—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
1890	69,076	2,438.7	27,419	1,064.1	4,777	154.9
1897	65,361	2,271.7	28,255	944.8	4,699	134.4
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
1923	160,324	8,096.7	73,266	4,026.2	7,631	341.6
1927	195,705	9,965.8	73,835	4,351.4	10,076	437.2
1928	191,007	9,866.3	61,121	3,866.5	14,466	586.8

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
1890	8,131	245.7	20,789	660.1	7,959	313.8
1897	7,830	192.3	17,402	713.6	7,175	286.6
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
1923	25,032	985.7	34,835	1,961.1	19,560	782.0
1927	34,503	1,259.4	56,208	2,863.5	21,083	1,054.3
1928	30,701	1,060.1	69,507	3,477.9	15,212	875.0

PACIFIC COAST STATES

Calendar year	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*
1888	71,883	2,993.1	23,400	890.9	25,169	1,010.8	23,313	1,091.4
1892	123,117	4,827.0	36,757	931.6	28,521	872.4	57,838	3,023.0
1899	219,338	6,316.2	121,630	2,884.9	23,246	862.9	74,462	2,568.4
1904	168,600	6,680.9	88,955	2,972.6	27,535	1,185.1	52,110	2,523.1
1908	176,150	6,839.0	100,456	3,513.0	28,217	1,356.0	47,477	1,970.0
1915	286,205	9,300.7	158,983	5,317.1	34,708	1,495.5	92,513	2,488.1
1922	282,968	12,983.6	69,470	4,953.9	22,372	1,255.7	191,127	6,774.0
1923	404,949	19,042.1	111,262	7,800.7	32,883	3,504.4	260,805	7,737.1
1924	477,515	20,416.5	93,042	7,487.7	39,578	3,203.6	344,895	9,725.1
1925	624,022	25,510.4	143,714	10,406.3	40,007	3,442.4	440,301	11,661.7
1926	521,286	18,914.7	89,637	7,942.3	32,998	3,068.0	398,651	7,904.3
1927	651,197	22,306.6	125,655	9,145.4	34,195	3,102.9	491,347	10,058.3
1928	693,484	20,512.8	82,874	7,500.8	27,474	2,686.3	583,136	10,325.7

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
1890	113,899	2,471.8	6,116	221.0	26,434	830.5	10,056	221.1	64,851	1,000.9
1893	96,620	2,270.6	8,097	252.1	30,748	828.6	12,064	306.4	42,968	806.0
1899	113,727	2,611.4	5,430	150.9	34,500	876.7	12,418	308.1	58,394	1,150.9
1903	86,195	2,745.5	13,205	343.7	33,579	1,090.6	14,455	450.3	23,189	780.0
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	103,759	6,298.0	15,447	726.7	35,461	2,270.9	13,363	857.5	38,300	2,330.2
1922	108,732	6,689.6	10,988	484.3	26,128	2,133.8	13,942	945.3	56,338	2,977.1
1926 [2]	72,908	6,444.6	13,436	760.5	20,495	2,077.6	13,132	1,261.0	25,057	2,246.5
1927 [2]	79,188	6,614.8	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

[1] Includes small amounts for Lake Ontario, Lake-of-the-Woods, Namakan Lake, Rainy Lake, Lake St. Clair, and St. Clair and Detroit Rivers not shown separately.

[2] Data collected for the most part by State fishery agencies and compiled by the Bureau of Fisheries. Totals for 1928 do not agree with those in Table 721, which includes certain regions and species not included in the State reports.

No. 720.—Quantity and Value of the Products of the Fisheries of Specified Sections—Continued

MISSISSIPPI RIVER AND TRIBUTARIES

	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
	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

Tributary	1922	
	1,000 pounds	*1,000 dollars*
Arkansas River	2,034	136.3
Atchafalaya River [4]	4,579	254.7
Cumberland River	728	14.7
Illinois River [5]	12,661	617.3
Missouri River [5]	1,232	105.2
Ohio River [5]	7,458	379.1
Red River [5]	6,677	324.5
St. Francis River [5]	3,684	108.9
Tennessee River [5]	4,990	98.3
Wabash River [5]	12,063	357.8
White River (Missouri and Arkansas) [5]	14,662	405.9
Yazoo River	1,022	55.6

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

No. 721.—SUMMARY OF THE FISHERIES OF THE UNITED STATES AND ALASKA

Section	Fishermen	Fishing vessels	Fishing boats	Persons on transporters	Transporting vessels	Products	
						Quantity	Value
	Number	*Number*	*Number*	*Number*	*Number*	*1,000 pounds*	*1,000 dollars*
Total, various years	128,339	4,534	82,694	4,038	1,561	3,089,908	116,384
New England States (1928)	16,659	708	11,648	382	168	603,598	25,620
Middle Atlantic States (1926)	9,971	617	4,504	89	63	168,012	12,456
Chesapeake Bay States (1925)	24,793	574	17,021	985	523	333,206	13,948
South Atlantic States (1928)	11,882	193	7,459	233	112	258,440	6,027
Gulf States (1928) [1]	16,632	518	10,884	85	37	194,684	10,035
Pacific Coast States (1928)	19,733	810	7,817	356	126	[2] 705,111	20,512
Mississippi River States (1922)	12,310	--------	15,538	30	13	105,734	4,504
Lake States (1928) [3]	5,438	380	2,403	162	103	69,700	6,198
Alaska (1929)	10,921	734	5,420	1,716	416	651,423	17,084

[1] Includes Lake Okeechobee not included in totals shown for Gulf States in Table 720.
[2] All salt fish converted to equivalent of fresh fish, while in Table 720 the cod has not been converted.
[3] Transporters and persons on transporters are for 1922.

No. 722.—FISHERY PRODUCTS LANDED AT SEATTLE, WASH., BY AMERICAN FISHING AND COLLECTING VESSELS

Species	Quantity in thousands of pounds				Value in dollars			
	1926	1927	1928	1929	1926	1927	1928	1929
Grand total	32,418	31,515	33,773	39,671	3,598,741	3,620,731	3,147,362	4,029,074
Landed by fishing vessels	13,372	15,733	17,547	16,257	1,896,677	2,009,404	1,755,959	1,996,468
Halibut	10,051	11,795	13,734	12,359	1,738,015	1,786,815	1,594,573	1,791,767
Sablefish	2,083	2,426	2,252	2,251	107,673	159,209	105,486	137,892
Lingcod	821	973	957	1,070	33,356	40,294	33,173	41,352
Rockfishes	399	531	575	577	16,720	22,636	21,292	25,448
Sturgeon	18	8	29	--------	913	450	1,435	--------
Landed by collecting vessels	19,047	15,782	16,226	23,414	1,702,064	1,251,327	1,391,403	2,032,606
Salmon—								
Humpback or pink	47	646	223	3,204	1,022	29,660	7,056	141,638
Chum or keta	2,099	2,361	2,439	5,001	82,326	101,340	122,605	251,000
King or spring	10,631	7,680	7,066	8,174	1,203,100	776,480	860,049	1,071,023
Coho or silver	4,106	3,009	3,578	4,604	317,500	241,920	298,662	420,660
Sockeye or red	97	94	102	133	9,650	9,400	11,190	19,650
Trout, steelhead	110	117	135	89	11,040	11,230	13,980	12,711
Smelt	160	202	219	142	16,870	22,560	26,225	20,003
Sole	281	371	310	287	11,346	14,540	10,376	14,020
Crabs	447	301	273	608	29,245	20,505	19,450	41,105
Miscellaneous	1,069	1,001	1,881	1,172	19,965	23,692	21,810	40,796

Source of Tables 720, 721, and 722: Bureau of Fisheries, Department of Commerce.

No. 723.—FISHERIES: PRODUCTS LANDED AT BOSTON AND GLOUCESTER, MASS., AND PORTLAND, ME., 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:									
1918	205,501	71,824	66,672	5,281	26,561	2,658	1,781	10,158	20,566
1919	196,481	65,374	82,716	4,339	18,752	2,063	2,115	5,713	15,408
1920	178,281	62,266	75,279	4,721	8,561	1,855	3,789	7,294	14,516
1921	150,865	53,515	67,413	4,536	6,945	2,098	5,666	3,384	7,308
1922	159,875	55,180	70,196	5,374	5,097	2,247	5,624	4,727	11,430
1923	174,941	62,655	73,762	6,338	4,804	2,998	4,875	11,565	7,945
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
Boston:									
1927	194,941	40,310	109,860	4,779	3,202	1,680	4,320	20,444	10,346
1928	218,388	39,956	136,840	6,590	3,087	1,573	3,316	15,305	11,721
1929	255,722	38,879	160,699	10,167	4,453	2,703	2,521	21,264	15,036
Gloucester:									
1927	52,552	20,249	11,313	228	3,646	356	43	10,554	6,163
1928	41,904	16,090	9,659	392	4,092	305	4	8,212	3,150
1929	53,880	9,774	18,864	578	5,161	224	47	14,480	4,752
Portland:									
1927	16,357	2,796	7,420	855	815	691	416	532	2,832
1928	17,690	3,256	8,832	1,441	861	480	65	736	2,019
1929	17,494	1,993	7,640	1,307	951	556	128	2,000	2,919
	Value in thousands and tenths of thousands of dollars								
All three ports:									
1918	10,531.5	3,617.2	3,199.3	273.1	962.1	103.0	302.3	1,188.9	885.7
1919	7,548.4	2,583.2	2,793.9	181.1	380.5	62.2	387.2	547.2	613.1
1920	8,227.0	2,637.6	2,740.1	153.9	262.1	48.1	741.8	763.1	880.3
1921	5,722.6	1,730.8	2,046.2	109.6	164.6	37.8	803.1	335.6	494.9
1922	5,465.9	1,635.3	1,809.4	111.3	118.0	34.6	784.1	276.0	696.8
1923	7,051.2	2,184.1	2,423.2	142.4	152.2	61.7	922.7	487.0	677.3
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	9,057.7	2,647.5	3,082.9	146.2	153.7	69.6	671.2	1,406.0	880.1
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
Boston:									
1927	7,371.5	1,458.9	3,149.1	131.3	86.1	44.9	764.1	863.2	874.0
1928	8,806.1	1,506.0	4,574.0	182.0	83.6	43.5	597.0	874.2	946.0
1929	10,736.6	1,508.5	6,016.2	351.1	122.1	81.4	459.8	912.0	1,285.5
Gloucester:									
1927	1,493.9	574.5	188.0	3.3	72.3	4.9	3.5	417.0	230.5
1928	1,477.7	567.4	222.8	7.1	76.0	4.8	0.6	446.8	152.1
1929	1,708.6	386.2	586.8	15.7	104.0	3.7	3.9	417.5	190.8
Portland:									
1927	539.0	113.0	194.7	22.0	13.5	21.6	72.4	15.4	86.6
1928	565.3	125.3	239.7	32.6	14.8	14.4	11.4	34.9	92.1
1929	606.5	88.8	242.3	38.3	17.4	17.8	20.8	52.9	128.2

No. 724 .—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 702 and 806

Product	1922	1923	1924	1925	1926	1927	1928	1929
Total values	71,842	85,151	82,458	95,177	98,326	94,177	110,753	124,833
Salmon	38,421	45,534	42,402	47,370	56,219	45,729	54,638	56,086
California sardines	3,361	4,608	5,446	6,381	7,807	9,269	9,659	11,997
Maine and Massachusetts sardines	5,750	5,289	7,191	6,717	6,727	5,249	8,076	6,898
Tuna and tunalike fishes	4,373	6,915	5,757	8,499	5,282	8,368	8,374	9,873
Shrimps and crabs	3,168	4,429	4,645	3,835	4,147	5,348	5,559	5,559
Clams	1,716	1,711	2,161	1,850	2,005	2,745	2,624	2,548
Oysters	2,424	2,720	2,478	3,721	2,027	2,368	2,761	2,732
Miscellaneous canned products	1,180	1,119	2,085	2,204	1,978	2,308	4,514	5,372
Menhaden—meal, scrap, and oil	6,127	6,411	3,310	5,623	3,442	3,690	3,440	3,630
Miscellaneous by-products	5,322	6,415	6,983	8,978	8,691	9,103	11,441	20,138

Source of Tables 723 and 724: Bureau of Fisheries, Department of Commerce.

No. 725.—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:								
1922	5,234.9	441.7	291.6	4,501.7	38,420.7	4,823.1	3,810.5	29,787.2
1923	6,403.0	975.8	391.5	5,035.7	45,533.6	7,533.4	5,127.1	32,873.0
1924	6,253.6	542.0	416.7	5,294.9	42,401.6	5,062.1	4,332.4	33,007.1
1925	6,018.6	1,132.5	426.2	4,459.9	47,369.5	10,079.5	5,300.4	31,989.5
1926	7,488.6	489.6	346.2	6,652.9	56,219.3	5,428.3	4,711.0	46,080.0
1927	5,076.6	1,091.0	413.5	3,572.1	45,728.8	10,158.2	5,554.3	30,016.3
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
Cobo or silver:								
1927	463.6	136.7	73.8	253.1	4,366.7	1,390.2	822.5	2,154.0
1928	450.8	110.0	42.1	298.7	3,470.1	937.3	407.5	2,125.3
1929	370.7	113.8	85.0	171.9	3,343.5	1,088.7	950.3	1,304.5
Chum or keta:								
1927	653.1	88.7	56.7	507.7	3,629.6	524.3	327.8	2,777.5
1928	1,305.3	193.4	116.2	995.7	7,916.9	1,178.4	702.0	6,036.5
1929	1,126.6	208.8	53.3	864.5	6,039.8	1,123.7	294.8	4,621.3
Humpback or pink:								
1927	2,007.4	586.6	--------	1,420.8	12,204.5	3,865.8	--------	8,338.7
1928	2,793.3	6.1	--------	2,787.2	18,331.0	45.5	--------	18,285.5
1929	3,299.4	727.7	--------	2,571.7	20,455.0	4,876.6	--------	15,579.4
King, chinook, or spring:								
1927	475.7	151.1	254.2	70.4	6,984.0	2,185.3	4,007.1	791.6
1928	337.0	110.6	172.2	54.2	5,248.1	1,748.0	2,897.3	602.8
1929	351.9	96.7	183.1	72.1	5,601.0	1,607.7	3,133.5	859.8
Red or sockeye:								
1927	1,444.0	119.8	4.0	1,320.2	18,124.9	2,089.5	80.9	15,954.5
1928	2,021.3	70.2	3.0	1,948.1	19,409.6	1,015.2	60.6	18,333.8
1929	1,819.1	123.0	6.2	1,689.9	20,315.0	2,099.1	111.5	18,104.4
Steelhead:								
1927	32.8	8.1	24.7	--------	419.1	103.2	315.9	--------
1928	19.1	7.1	12.0	--------	262.4	99.6	162.8	--------
1929	23.0	8.5	14.5	--------	330.4	126.6	203.8	--------

Source: Bureau of Fisheries, Department of Commerce.

No. 726.—ALASKA FISHERY INDUSTRIES: SUMMARY OF PRODUCTS

Product	Quantity in thousands of unit specified						Value in thousands of dollars				
	Unit	1915	1920	1925	1928	1929	1915	1920	1925	1928	1929
Total	--------	--------	--------	--------	--------	--------	21,006	41,492	40,039	54,545	50,796
Salmon:											
Canned	Case	4,500	4,429	4,460	6,084	5,370	18,653	35,603	31,990	45,384	40,469
Fresh and frozen	Pound	3,137	5,165	5,193	7,853	5,606	219	424	395	702	539
Cured, all forms	do	4,929	3,067	6,895	7,071	6,668	341	510	1,297	1,341	1,445
By-products	do	1,922	2,071	1,738	1,740	2,202	40	105	60	61	71
Halibut, fresh and frozen	do	15,718	15,295	10,972	31,567	37,457	812	1,727	884	3,094	4,423
Herring:											
Fresh and frozen	do	--------	--------	--------	542	117	--------	--------	--------	8	5
Cured for food	do	7,195	8,582	35,171	16,872	6,982	114	542	2,323	1,354	553
Bait	do	--------	4,085	7,087	6,553	8,921	--------	41	39	63	95
By-products	do	2,213	11,186	34,806	39,081	50,558	41	720	1,490	1,673	2,141
Cod	do	14,196	12,764	2,854	578	714	390	1,117	129	29	40
Sablefish	do	143	584	1,043	263	472	4	29	45	12	23
Other fish	do	148	110	142	89	143	10	14	10	9	13
Shrimps	do	--------	112	520	504	498	--------	49	207	202	200
Crabs	do	14	8	206	169	211	1	2	53	52	73
Clams	do	--------	222	2,066	367	704	--------	47	492	107	204
Whales:											
Oil	do	7,337	8,317	7,224	6,183	6,251	333	436	556	380	431
Fertilizer	do	2,990	3,190	2,444	2,652	2,622	48	120	57	74	69
All other	do	--------	18	797	--------	52	--------	6	12	--------	2

Source: Bureau of Fisheries, Department of Commerce.

No. 727.—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
1910–1914	14,885	3,423	129	439	1,040	42	1,771	4.55	2.94	3.14	5.25	5.44
1915	18,653	4,500	124	480	1,876	88	1,932	4.31	2.59	2.78	4.63	5.82
1916	23,269	4,901	261	724	1,738	66	2,111	5.34	3.34	3.64	5.36	6.04
1917	46,304	5,947	193	907	2,297	62	2,488	8.76	6.14	6.44	10.40	9.48
1918	51,042	6,606	219	1,365	2,439	49	2,534	9.15	6.27	6.58	9.85	9.44
1919	43,265	4,584	233	1,366	1,612	96	1,278	11.27	6.82	8.35	13.13	12.98
1920	35,603	4,429	192	1,034	1,593	110	1,501	9.13	4.19	5.47	10.97	13.05
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

No. 728.—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	131.55
1920	4,770,356	630,749	3,872,218	267,388	130.11
1921	4,962,489	1,109,637	3,626,263	226,590	128.06
1922	5,125,101	1,068,981	3,716,688	339,432	120.36
1923	4,314,850	1,463,730	2,586,812	264,316	143.30
1924	5,361,811	1,237,582	3,863,848	260,381	115.25
1925	5,301,862	1,050,393	4,114,514	136,954	135.61
1926	5,232,240	737,135	4,195,939	299,166	142.50
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

Species	1929			Species	1929		
	Eggs	Fry	Fingerlings		Eggs	Fry	Fingerlings
Catfish			888	Brook trout	1,542	2,407	12,906
Buffalo fish	49,369		34	Grayling		1,765	
Common sucker	1,800			Pike and pickerel			34
Carp	24,300	2,500	31	Mackerel		2,778	
Shad		71,351		Crappie			1,898
Glut herring		11,500		Largemouth black bass		696	1,728
Whitefish	3,000	94,295		Smallmouth black bass		664	155
Cisco	9,200	123,000		Rock bass			79
Chinook salmon	14,419	925	39,049	Warmouth bass			6
Chum salmon	765	19,153	49	Sunfish			2,158
Silver salmon	2,101	6,049	1,398	Pike perch	28,600	52,150	
Sockeye salmon	6,432	2,640	54,176	Yellow perch		192,923	188
Humpback salmon	1,852			Striped bass		9,661	
Steelhead salmon	1,979	112	1,428	Cod	2,228,122	274,033	
Atlantic salmon	345		572	Haddock	351,442		
Landlocked salmon	110	15	543	Pollock		358,442	
Rainbow trout	4,685	635	7,399	Winter flounder	109,434	2,809,149	
Golden trout			9	Miscellaneous fish			662
Black-spotted trout	11,842		7,242				
Loch Leven trout	7,713	5	1,496				
Lake trout	2,184	26,100	2,051				

[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 727 and 728: 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, and Porto Rico. Index numbers of mineral production are shown in Table 809, p. 828]

No. 729.—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	Year	Total	Metallic	Nonmetallic	Unspecified
1881–1885	426	191	229	6	1911	1,924	681	1,243	(1)
1886–1890	541	248	292	1	1912	2,238	862	1,375	(1)
1891–1895	592	244	347	1	1913	2,434	879	1,554	(1)
1896–1900	828	366	461	1	1914	2,111	687	1,424	(1)
1901–1905	1,392	578	813	1	1915	2,395	992	1,400	2
1906–1910	1,887	769	1,118	(1)	1916	3,508	1,621	1,884	3
1911–1915	2,220	820	1,399	1	1917	4,992	2,086	2,900	6
1916–1920	5,124	1,796	3,322	5	1918	5,541	2,153	3,381	7
1921–1925	5,155	1,153	3,998	5	1919	4,596	1,360	3,233	3
1901	1,155	493	661	1	1920	6,981	1,762	5,214	5
1902	1,329	605	722	1	1921	4,139	654	3,482	3
1903	1,495	589	906	1	1922	4,647	987	3,656	4
1904	1,359	501	858	(1)	1923	5,987	1,511	4,472	4
1905	1,624	703	921	(1)	1924	5,306	1,232	4,068	6
1906	1,901	886	1,015	(1)	1925	5,678	1,380	4,291	6
1907	2,070	904	1,165	(1)	1926	6,214	1,403	4,803	8
1908	1,592	551	1,041	(1)	1927	5,530	1,218	4,304	8
1909	1,887	755	1,132	(1)	1928	5,385	1,285	4,091	9
1910	1,988	750	1,238	(1)	1929	5,830	1,476	4,343	11

[1] Less than $500,000.

Source: Bureau of Mines, Department of Commerce.

No. 730.—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 (New York)	Antimony (New York)	Quicksilver (New York)	Platinum (New York)
1896–1900	[3] 13.41	3.84	19.54	[4] 4.55	37.15	8.204	42.17	[5] 16.66
1901–1905	13.877	4.330	28.194	[6] 5.284	33.80	7.398	43.17	19.55
1906	19.278	5.657	39.819	6.048	35.75	21.730	40.90	28.04
1907	20.004	5.325	38.166	5.812	45.00	14.840	41.50	30.98
1908	13.208	4.200	29.465	4.578	28.70	8.004	44.84	16.32
1909	12.982	4.273	29.725	5.352	23.18	7.466	46.30	24.87
1910	12.738	4.446	34.123	5.370	22.97	7.386	47.06	32.70
1911	12.376	4.420	42.281	5.608	20.34	7.540	46.54	43.12
1912	16.341	4.471	46.096	6.799	22.52	7.760	42.46	45.55
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	[7] 24.628	7.413	([8])	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

[1] Flasks of 75 pounds prior to 1928; 76 pounds thereafter.

[2] 99 per cent tin, 1896 to 1919; Straits tin, thereafter.

[3] Prices 1895 to 1898 are for Lake copper.

[4] Data are for New York zinc.

[5] Average for 1899 and 1900 only.

[6] Average, 1903–1905; average for New York zinc, 1901–1905, 5.058 cents.

[7] Average of 11 months, no quotations being made in December.

[8] No average computed.

Sources: Review Number and Year Book, Engineering and Mining Journal-Press, except aluminum beginning 1909, which is from the American Metal Market.

No. 731.—MINES AND QUARRIES, PRODUCING AND NONPRODUCING: PRINCIPAL STATISTICS, 1919

	Total	Continental United States	Alaska	Hawaii	Porto Rico
Number of enterprises	22,361	21,997	346	5	13
Number of mines and quarries	14,802	14,417	367	5	13
Number of petroleum and natural gas wells	257,681	257,673	8		
Number of natural-gas gasoline plants	1,115	1,115			
Persons engaged, total	1,088,444	1,084,796	3,267	155	226
Proprietors and firm members, total	22,769	22,155	593	4	17
Salaried employees	75,688	75,457	199	6	26
Wage earners (average number)	989,987	987,184	2,475	145	183
Power used (aggregate horsepower)	6,816,814	6,786,475	29,979	325	35
Capital	$7,225,446,992	$7,108,623,496	$116,626,441	$112,882	$84,173
Principal expenses	2,556,682,424	2,545,925,350	10,493,020	171,850	92,204
Salaries	151,820,643	151,272,451	533,076	5,533	9,583
Wages	1,305,565,597	1,304,409,342	5,010,611	89,365	56,279
Supplies and materials	531,688,470	528,853,639	2,789,755	34,423	10,653
Cost of ore, coal, and natural gas purchased as material or for resale	35,905,352	35,905,352			
Fuel and purchased power	124,610,053	123,509,588	1,080,348	14,560	5,557
Royalties and rents	176,478,995	176,129,858	314,066	26,282	8,789
Taxes	141,878,154	141,567,734	307,390	1,687	1,343
Contract work	82,696,872	82,239,098	457,774		
Value of products	3,174,507,462	3,158,463,966	15,634,801	250,538	158,157

Source: Bureau of the Census, Department of Commerce.

No. 732.—PRODUCING MINES AND QUARRIES: PRINCIPAL STATISTICS, CONTINENTAL UNITED STATES

	1889	1902	1909	1919	Per cent of increase[1] 1909-1919
Number of enterprises	(2)	46,858	21,268	21,280	0.1
Number of mines and quarries	22,084	17,039	18,164	13,844	−23.8
Number of petroleum and natural-gas wells	37,410	123,200	166,320	257,673	54.9
Number of natural-gas gasoline plants				1,115	
Persons engaged			1,041,682	1,077,675	3.5
Proprietors and firm members, total	(2)	(2)	29,922	21,918	−26.7
Number performing manual labor	(2)	(2)	8,861	5,245	−40.8
Salaried employees	6,541	38,128	44,127	74,197	68.1
Wage earners (average number)	536,043	581,728	967,633	981,560	1.4
Wage earners, Dec. 15, or nearest representative day, total	[3] 536,043	[3] 581,728	1,065,283	1,088,189	2.2
Above ground	244,127	221,505	366,962	382,766	4.3
Below ground	291,916	360,223	698,321	705,423	1.0
Power used (aggregate horsepower)	(4)	2,867,562	4,608,253	6,723,786	45.9
Capital	$1,310,535,318	(2)	$3,380,525,841	$6,955,466,831	105.8
Principal expenses:					
Salaries	5,520,600	$39,020,552	53,393,551	149,328,965	179.7
Wages	222,041,887	369,959,960	586,774,079	1,295,936,226	103.8
Supplies and materials	86,075,925	[5] 123,814,967	173,411,438	519,593,676	199.6
Cost of ore, coal, and natural gas purchased as material or for resale			29,318,316	35,905,352	22.5
Fuel and purchased power	(4)	(4)	45,136,550	122,105,930	170.5
Royalties and rents	(4)	34,530,713	63,973,585	175,293,984	174.0
Taxes	(4)	(4)	17,796,763	140,999,626	692.3
Contract work	(4)	20,677,938	28,887,898	79,380,177	174.8
Value of products	438,111,548	796,826,417	1,238,410,322	3,158,463,966	155.0

[1] A minus sign (−) denotes decrease.
[2] Not reported.
[3] Average number.
[4] Comparable figures not available.
[5] Includes cost of fuel.

Source: Bureau of the Census, Department of Commerce.

No. 733.—PRODUCING MINES AND QUARRIES: SIZE OF ENTERPRISES, CONTINENTAL UNITED STATES, 1919

Industry and value of products per enterprise	Number of enterprises	Value of products		Industry and wage earners per enterprise	Enterprises		Wage earners	
		Amount	Per cent		Number	Per cent	Average number	Per cent
All industries	21,280	$3,158,463,966	100.0	**All industries**	21,280	100.0	981,560	100.0
Less than $5,000	6,586	15,228,604	0.5	No wage earners	3,722	17.5		
$5,000 to $20,000	5,539	58,745,473	1.9	1 to 5	7,912	37.2	16,761	1.7
$20,000 to $100,000	4,990	237,600,990	7.5	6 to 20	3,948	18.6	44,506	4.5
$100,000 to $500,000	3,005	686,788,422	21.7	21 to 50	2,309	10.9	76,040	7.7
$500,000 to $1,000,000	684	472,131,636	14.9	51 to 100	1,372	6.4	98,621	10.0
$1,000,000 to $5,000,000	392	754,160,595	23.9	101 to 500	1,743	8.2	377,339	38.4
$5,000,000 and over	84	933,808,246	29.6	501 to 1,000	182	0.9	125,278	12.8
				Over 1,000	92	0.4	243,015	24.8
Anthracite coal	254	364,084,142	100.0	**Anthracite coal**	254	100.0	147,372	100.0
Less than $5,000	37	89,977	(1)	No wage earners	2	0.8		
$5,000 to $20,000	38	440,045	0.1	1 to 5	62	24.4	139	0.1
$20,000 to $100,000	43	1,843,631	0.5	6 to 20	39	15.4	469	0.3
$100,000 to $500,000	39	10,076,964	2.8	21 to 50	20	7.9	629	0.4
$500,000 to $1,000,000	32	24,276,649	6.7	51 to 100	13	5.1	981	0.7
$1,000,000 to $5,000,000	48	83,086,309	22.8	101 to 500	63	24.8	18,240	12.4
$5,000,000 and over	17	244,270,547	67.1	501 to 1,000	33	13.0	21,804	14.8
				Over 1,000	22	8.7	105,110	71.3
Bituminous coal	6,636	1,145,977,565	100.0	**Bituminous coal**	6,636	100.0	545,798	100.0
Less than $5,000	818	2,711,023	0.2	No wage earners	62	0.9		
$5,000 to $20,000	1,618	17,614,491	1.5	1 to 5	1,512	22.8	4,337	0.8
$20,000 to $100,000	2,006	100,379,635	8.8	6 to 20	1,549	23.3	18,074	3.3
$100,000 to $500,000	1,651	386,075,398	33.7	21 to 50	1,238	18.7	41,009	7.5
$500,000 to $1,000,000	377	257,196,333	22.4	51 to 100	888	13.4	64,355	11.8
$1,000,000 to $5,000,000	156	289,392,384	25.3	101 to 500	1,241	18.7	259,288	47.5
$5,000,000 and over	10	92,608,301	8.1	501 to 1,000	101	1.5	68,737	12.6
				Over 1,000	45	0.7	89,998	16.5
Petroleum and natural gas.	9,814	931,793,423	100.0	**Petroleum and natural gas.**	9,814	100.0	93,205	100.0
Less than $5,000	4,348	9,531,235	1.0	No wage earners	3,292	33.5		
$5,000 to $20,000	2,797	28,919,564	3.1	1 to 5	4,925	50.2	8,852	9.5
$20,000 to $100,000	1,696	75,785,417	8.1	6 to 20	1,034	10.5	11,036	11.8
$100,000 to $500,000	684	150,748,376	16.2	21 to 50	296	3.0	9,874	10.6
$500,000 to $1,000,000	156	109,951,280	11.8	51 to 100	133	1.4	9,592	10.3
$1,000,000 to $5,000,000	96	204,187,367	21.9	101 to 500	102	1.0	21,978	23.6
$5,000,000 and over	37	352,670,184	37.8	501 to 1,000	24	0.2	17,358	18.6
				Over 1,000	8	0.1	14,515	15.6
Iron ore	290	218,217,905	100.0	**Iron ore**	290	100.0	45,741	100.0
Less than $5,000	15	36,040	(1)	No wage earners	5	1.7		
$5,000 to $20,000	29	392,775	0.2	1 to 5	21	7.2	63	0.1
$20,000 to $100,000	69	3,774,321	1.7	6 to 20	43	14.8	574	1.3
$100,000 to $500,000	98	26,543,784	12.1	21 to 50	57	19.7	2,180	4.8
$500,000 to $1,000,000	41	28,239,920	12.9	51 to 100	54	18.6	3,822	8.4
$1,000,000 to $5,000,000	35	63,674,560	29.2	101 to 500	102	35.2	31,032	67.8
$5,000,000 and over	3	95,646,505	43.8	501 to 1,000	7	2.4	5,535	12.5
				Over 1,000	1	0.3	2,535	5.1

[1] Less than one-tenth of 1 per cent.

No. 734.—MINES AND QUARRIES: HOURS OF LABOR IN CONTINENTAL UNITED STATES, 1919

Industry	Total wage earners	Wage earners in mines where the prevailing hours of labor per week were—					
		35 and under	36 to 43	44 to 53	54 to 62	63 to 71	72 to 84
All industries	981,560	17,755	19,856	721,899	182,126	26,841	13,083
Coal:							
Anthracite	147,372		315	145,787	807	442	21
Bituminous	545,798	15,978	17,163	485,574	25,222	1,841	20
Petroleum and natural gas	93,205	1,295	327	13,227	44,068	21,726	12,562
Iron ore	45,741	11	219	20,311	24,637	563	
Copper	43,717		7	21,150	21,166	1,394	
Limestone	22,069	57	24	3,774	17,934	280	
Lead and zinc	21,884	115		15,082	6,684		3
Gold and silver; lode mines	15,436		3	3,595	11,586	251	1
Gold, placer mines	1,380			62	1,243	72	3
Granite	8,049	43	1,195	4,829	1,948	34	
Clay	5,453	27	33	2,351	3,033	4	5
Phosphate rock	4,373	5	30	309	3,683		346
Sandstone	4,287		8	483	3,688	108	
Slate	3,513		335	963	2,170	45	
Basalt	3,336	20	3	728	2,585		
Gypsum	2,191		1	830	1,317	43	
Marble	1,732			50	1,667	15	
Sulphur	1,129				1,129		
All other	10,895	204	193	2,794	7,559	23	122

Source of Tables 733 and 734: Bureau of the Census, Department of Commerce

No. 735.—PRODUCING MINES AND QUARRIES: SUMMARY BY INDUSTRIES, CONTINENTAL UNITED STATES

Industry	Number of enterprises [1]		Wage earners (average number)		Power used (aggregate horsepower)		Wages		Value of products	
	1909	1919	1909	1919	1909	1919	1909	1919	1909	1919
							Expressed in thousands of dollars			
All industries [2]	19,915	21,280	967,633	981,560	4,608,253	6,723,786	586,774	1,295,936	1,238,410	3,158,464
FUELS										
Coal:										
Anthracite	192	254	169,367	147,372	676,753	899,783	92,318	210,289	149,180	364,084
Bituminous	3,503	6,636	511,723	545,798	1,227,401	2,155,412	294,196	682,601	427,962	1,145,978
Petroleum and natural gas	7,793	9,814	36,744	93,205	1,221,969	1,821,342	27,092	134,521	185,417	931,793
METALS										
Iron ore	176	290	47,246	45,741	346,534	370,869	29,731	75,713	106,947	218,218
Copper	161	195	51,643	43,717	376,464	523,591	49,383	66,390	134,617	181,258
Gold and silver:										
Lode mines	1,604	740	29,428	15,436	200,966	149,680	30,868	23,818	83,886	58,832
Placer mines	678	112	3,084	1,380	27,278	35,632	2,670	1,914	10,237	9,369
Lead and zinc	977	432	16,807	21,824	110,559	229,541	10,478	30,708	31,363	75,579
Manganese	5	35	60	909	215	5,800	12	1,086	31	2,188
Quicksilver	12	26	544	748	784	2,607	408	328	868	1,803
Rare metals	26	22	531	633	3,237	3,544	(3)	748	9,688	1,726
STONE										
Limestone	1,665	895	30,289	22,069	125,024	213,717	14,082	23,926	29,832	52,944
Granite	707	358	18,744	8,049	61,095	55,674	11,112	8,588	18,998	18,279
Sandstone	1,158	255	9,812	4,287	36,556	33,869	4,761	4,449	9,291	10,685
Basalt	196	163	5,256	3,336	29,211	37,307	2,539	3,991	5,578	9,658
Slate	185	101	8,803	3,513	29,777	20,613	4,089	3,128	6,054	5,721
Marble	77	48	6,166	1,732	21,779	15,628	3,079	1,452	6,239	4,398
MISCELLANEOUS										
Abrasive materials	49	34	403	317	1,344	1,748	(3)	322	----------	722
Asbestos	5	10	54	146	380	420	31	92	65	250
Asphalt	12	9	205	324	828	648	129	295	466	750
Barytes	23	89	240	919	262	3,029	90	769	225	1,592
Bauxite	10	10	563	738	1,565	2,507	198	942	671	2,190
Clay	261	345	3,262	5,453	8,868	21,243	1,362	5,367	2,946	10,086
Feldspar	22	30	247	349	993	1,782	107	264	271	584
Fluorspar	13	54	290	1,124	1,179	7,138	168	1,196	289	3,335
Fuller's earth	16	9	327	824	1,739	2,538	119	541	316	2,019
Graphite	19	21	294	419	2,647	6,410	160	342	344	869
Gypsum	78	47	3,462	2,191	17,685	15,032	1,821	2,478	5,813	6,806
Magnesite	6	11	50	448	126	2,540	32	652	68	2,177
Mica	73	65	272	448	463	803	125	288	207	605
Millstones	14	11	51	37	----------	220	17	48	34	61
Mineral pigments	23	23	151	185	849	1,630	44	174	151	480
Phosphate rock	51	48	7,873	4,373	50,526	49,639	3,216	3,901	10,781	10,300
Pyrite	11	17	1,086	1,172	5,758	7,338	408	1,385	677	2,409
Silica	14	24	158	166	1,219	2,032	82	166	231	372
Sulphur	4	4	366	1,129	3,114	15,291	325	1,682	4,432	17,936
Talc and soapstone	39	28	1,256	958	9,433	7,053	504	835	1,175	2,302

[1] Operators, not enterprises, in 1909.
[2] The totals for all industries include, besides those specified, statistics for the chromite industry in 1919 and for the borax, chromite, grindstone, marl, monazite and zircon, peat, and precious stones industries in 1909, for which comparable figures could not be given. The value of products of these industries did not exceed one-tenth of 1 per cent of the total for all industries in either year.
[3] Figures not available.

Source: Bureau of the Census, Department of Commerce.

No. 736.—PRODUCING MINES AND QUARRIES: SUMMARY BY STATES

Division and State	Number of enterprises [1]		Wage earners (average number)		Power used (aggregate horsepower)		Wages		Value of products	
	1909	1919 [2]	1909	1919	1909	1919	1909	1919	1909	1919
							Expressed in thousands of dollars			
Continental United States	[3] 19,915	21,280	967,633	981,560	4,608,253	6,723,786	586,774	1,295,936	1,238,410	3,158,464
New England	510	302	17,048	7,213	61,259	62,750	9,814	8,036	17,328	18,723
Maine	97	50	2,144	979	8,141	6,277	1,332	1,052	2,056	1,823
New Hampshire	45	30	1,418	682	3,771	4,336	926	826	1,309	1,568
Vermont	137	93	8,145	2,936	25,668	28,119	4,449	3,042	8,221	8,555
Massachusetts	139	74	3,291	1,704	15,031	12,498	1,967	2,069	3,468	4,176
Rhode Island	21	14	665	369	2,350	3,000	410	400	898	952
Connecticut	71	41	1,385	543	6,298	8,520	730	647	1,376	1,649
Middle Atlantic	6,333	6,604	376,633	334,175	1,738,613	2,124,662	204,992	458,109	370,742	853,891
New York	1,351	700	9,305	6,202	101,759	91,339	4,717	7,497	13,335	25,131
New Jersey	131	97	6,315	4,576	18,048	33,901	2,801	5,393	8,347	9,309
Pennsylvania	4,851	5,807	361,013	323,397	1,618,806	1,999,422	197,474	445,219	349,060	819,451
East North Central	4,152	3,772	190,468	190,011	913,857	1,150,153	118,673	237,638	237,533	480,492
Ohio	1,876	2,283	50,567	49,298	294,763	337,611	26,769	58,110	63,767	134,518
Indiana	1,010	503	23,936	26,751	95,039	129,663	14,783	30,193	21,934	52,840
Illinois	915	772	72,086	79,123	225,330	318,231	46,379	94,179	76,659	178,673
Michigan	83	122	39,169	31,292	273,861	337,882	27,661	50,406	67,714	103,870
Wisconsin	268	92	4,710	3,547	24,864	26,766	3,081	4,750	7,459	10,581
West North Central	2,300	1,726	75,196	62,253	370,390	426,242	50,566	84,267	130,252	280,111
Minnesota	153	135	16,586	17,265	151,834	144,199	11,907	29,383	58,665	130,399
Iowa	373	198	16,480	11,274	23,453	32,171	10,870	12,466	13,878	18,474
Missouri	1,021	468	23,420	14,857	109,672	100,160	14,394	16,777	31,667	33,366
North Dakota	53	79	562	774	2,025	2,037	364	1,029	565	1,927
South Dakota	39	23	3,456	1,785	15,648	11,844	3,225	2,497	6,432	5,314
Nebraska	18	9	349	162	815	1,847	170	166	322	293
Kansas	643	814	14,343	16,136	66,943	133,984	9,636	21,949	18,723	90,338
South Atlantic	1,358	2,281	109,210	129,695	536,648	849,169	49,886	149,268	105,716	352,059
Delaware	9	7	493	116	1,480	660	218	136	516	244
Maryland	126	126	7,190	5,628	18,118	18,660	3,339	6,152	5,782	9,699
Virginia	150	202	15,257	14,547	34,630	57,880	5,230	16,108	8,796	29,363
West Virginia	798	1,714	73,410	100,812	416,282	704,279	35,981	119,578	76,288	295,607
North Carolina	118	102	2,215	1,890	6,062	5,039	863	1,489	1,359	2,737
South Carolina	29	20	1,814	933	7,012	4,656	626	680	1,253	1,351
Georgia	92	74	3,383	2,397	10,698	13,026	1,278	2,017	2,875	4,082
Florida	36	36	5,448	3,372	42,366	44,969	2,351	3,108	8,847	8,976
East South Central	830	1,405	62,906	90,612	179,650	351,353	29,444	98,768	49,143	181,645
Kentucky	437	938	18,297	43,563	53,203	148,893	7,827	49,551	12,100	98,487
Tennessee	216	203	16,338	14,470	34,523	56,685	7,359	12,987	12,692	23,292
Alabama	177	264	28,271	32,579	91,924	145,775	14,258	36,230	24,351	59,866
West South Central	1,229	2,821	23,898	60,936	149,602	684,736	15,672	88,445	47,531	490,727
Arkansas	96	126	4,935	3,630	14,080	21,365	3,026	4,573	4,604	8,405
Louisiana-Mississippi [4]	33	137	926	5,228	8,445	86,135	873	7,505	6,547	40,016
Oklahoma	864	1,934	11,658	33,914	95,074	448,173	7,775	46,809	25,638	281,928
Texas	236	624	6,379	18,164	32,003	129,063	3,998	29,558	10,742	160,378
Mountain	1,972	1,508	83,993	81,519	467,184	716,949	82,081	131,192	205,054	321,826
Montana	373	259	18,846	16,129	174,389	143,718	21,361	25,724	54,992	49,924
Idaho	174	82	3,246	2,455	26,278	31,239	4,046	4,202	8,649	11,840
Wyoming	66	106	7,742	9,699	30,338	62,757	6,267	14,576	10,572	41,929
Colorado	672	477	21,483	16,790	98,777	116,351	18,463	25,405	45,680	51,217
New Mexico	98	85	5,107	7,100	16,042	59,876	3,529	10,494	5,588	18,873
Arizona	135	155	12,838	15,268	47,272	166,091	13,503	26,193	34,218	88,478
Utah	188	141	10,089	9,847	47,226	86,131	8,987	17,197	22,083	41,511
Nevada	266	203	4,642	4,231	26,862	50,786	5,925	7,401	23,272	18,054
Pacific	1,538	858	28,281	25,134	191,050	357,675	25,646	40,207	75,111	178,984
Washington	93	83	6,904	5,050	20,742	38,198	5,891	7,466	10,538	13,329
Oregon	116	50	860	740	8,070	6,264	705	993	1,191	1,835
California	1,329	725	20,517	19,344	162,238	313,213	19,050	31,748	63,382	163,770

[1] Operators, not enterprises, in 1909.
[2] The total for the United States includes, besides the States specified, statistics for the District of Columbia for which no statistics were reported for 1909.
[3] Exclusive of duplication, 307 operators having reported in two or more States.
[4] For 1909 statistics are for Louisiana only; nothing reported for Mississippi.

Source: Bureau of the Census, Department of Commerce.

No. 737.—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 1929 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					
	1910	1915	1920	1925	1928	1929	1910	1915	1920	1925	1928	1929
METALLIC												
Aluminum ... 1,000 pounds			138,000	140,000	210,000	225,000	8,956	16,280	41,375	36,430	47,899	51,864
Antimonial lead [1] ... short tons	14,069	23,224	12,535	19,667	33,058	25,669	1,338	3,666	1,963	3,786	3,978	3,267
Antimony [2] ... do	2,229	5,364	2,785	2,624	3,432	3,052	[2] 369	[2] 2,374	[2] 473	[2] 918	[2] 707	[2] 546
Bauxite ... long tons	148,932	297,041	521,308	316,540	375,426	365,777	716	1,515	3,247	1,988	2,274	2,266
Cadmium ... pounds	4,700	91,415	129,283	502,324	1,875,896	2,481,427	3	108	151	277	1,144	2,010
Chromite ... long tons	205	3,281	2,502	108	660	180	3	37	45	2	15	3
Copper, [3] sales value ... 1,000 pounds	1,080,160	1,388,010	1,209,061	1,674,870	1,825,900	2,002,863	137,180	242,902	222,467	237,832	262,930	352,504
Ferro-alloys ... long tons	(4)	388,644	612,808	616,222	794,695	829,324	(4)	17,450	77,519	53,048	66,578	75,506
Gold ... 1,000 troy ounces	4,657	4,888	2,476	2,412	2,233	2,208	96,269	101,036	51,187	49,860	46,165	45,651
Iron:												
Ore [5] ... 1,000 long tons	56,890	55,493	69,281	63,925	63,433	75,603	[5] 140,736	[5] 101,289	[5] 285,006	[5] 160,797	[5] 155,789	[5] 197,149
Pig ... do	26,674	30,384	35,710	36,815	38,304	41,549	412,162	401,410	1,140,904	739,316	661,351	731,858
Lead (refined) [3] sales value ... short tons	375,402	507,026	476,849	654,921	626,202	672,498	33,055	47,660	76,296	113,956	72,639	84,735
Manganese ore (35 per cent or more Mn.) ... long tons	2,258	9,613	94,420	98,324	46,860	60,379	23	113	2,396	1,858	1,215	1,612
Manganiferous ore (5 to 35 per cent Mn.) [6] ... long tons	61,101	195,735	767,664	1,448,054	1,177,632	1,188,258	187	817	2,438	3,752	3,053	3,274
Mercury, metal ... flasks (75 pounds net)	20,601	21,033	13,392	9,174	18,108	23,998	958	1,805	1,067	763	2,207	2,893
Mercury ore ... short tons	124,000	159,000	109,000	65,000	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Nickel (value at New York City) ... do		822	365	272	522	340		538	293	170	292	297
Ores (crude), tailings, etc.:												
Copper ... 1,000 short tons	28,497	43,404	36,765	53,262	62,125	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Copper-lead and copper-lead zinc ... do	20	11	27	229	351	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Dry and siliceous (gold and silver) ... do	9,646	12,687	8,590	8,995	8,095	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Lead ... do	5,781	7,497	7,200	8,560	8,048	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Lead-zinc ... do	12,390	18,176	12,383	17,741	13,379	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Zinc ... do			2,651	3,411	5,855	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Platinum and allied metals (value at New York City) ... troy ounces	733	8,665	41,544	49,643	59,039	47,977	25	479	4,698	5,662	4,693	3,121
Silver ... 1,000 troy ounces	57,138	74,961	55,362	66,155	58,463	61,328	30,855	37,397	60,802	45,912	34,201	32,688
Tin (metallic equivalent) ... short tons		102	22	14	46	39	23	79	22	16	46	36
Titanium ore (ilmenite) ... do				5,566	(8)	(8)				89	(8)	(8)
Titanium ore (rutile) ... do	566	250	277	46	(8)	(8)	44	28	(8)	11	(8)	(8)
Tungsten ore (60 per cent concentrate) ... do	1,821	2,332	216	1,190	1,208	830	833	4,100	102	756	754	654
Uranium and vanadium ores ... do			35,076	13,070	(8)	(8)		694	2,401	331	(8)	(8)
Zinc, [3] sales value ... do	252,479	458,135	450,045	555,631	591,525	611,209	27,268	113,617	72,907	84,456	72,166	80,680
Total metallic products (approximate)							749,879	991,730	1,762,350	1,380,280	1,284,580	1,475,900

NONMETALLIC												
Arsenious oxide ... short tons	1,497	5,498	11,502	12,317	11,767	14,546	52	302	2,021	1,199	735	884
Asbestos ... do	3,693	1,731	1,648	1,258	2,239	3,155	68	77	678	52	351	351
Asphalt:												
Native ... do	260,080	740,254	898,993	584,850	807,860	804,027	3,080	5,242	13,199	4,148	5,175	5,457
Oil ... do				1,206,700	1,741,392	1,725,896				[5] 15,306	[5] 20,425	[5] 19,709
Barite (crude) ... do	42,975	108,547	228,113	228,063	269,544	275,285	122	381	2,142	1,703	1,755	1,852
Borates ... do	42,357	67,003	120,320	113,700	131,000	169,870	1,202	1,677	2,173	3,086	4,000	4,515
Bromine ... 1,000 pounds	245	856	1,161	1,566	2,164	6,415	32	856	745	488	649	1,759
Calcium-magnesium chloride ... short tons	10,971	20,535	27,849	67,870	102,090	114,240	75	131	539	1,387	1,996	2,097
Cement ... 1,000 bbls. (376 lbs. net)	77,785	87,685	97,079	159,047	178,052	172,027	68,752	75,155	195,590	281,076	278,883	255,105
Clay:												
Products							166,827	160,080	373,670	[9] 423,447	[9] 373,551	(10)
Raw ... 1,000 short tons	2,389	2,363	3,116	4,030	4,026	4,347	[5] 3,625	[5] 3,972	[5] 11,614	[5] 12,737	[5] 14,201	[5] 14,851
Coal:												
Bituminous [11] ... do	417,111	442,624	568,667	520,053	500,745	532,352	469,282	502,038	2,129,933	1,060,402	933,774	990,175
Pennsylvania anthracite ... 1,000 long tons	75,433	79,460	79,998	55,194	67,275	68,429	160,275	184,653	434,252	327,665	393,638	393,500
Coke [5] ... 1,000 short tons	41,709	41,581	51,345	51,267	52,806	59,427	[5] 99,743	[5] 105,504	[5] 494,246	[5] 262,559	[5] 252,834	(7)
Diatomite and tripoli ... short tons		35,304	102,155	102,418	[12] 34,043	[12] 38,011	130	167	1,649	1,357	[12] 556	[12] 546
Emery ... do	1,028	3,063	2,327	769	1,341	924	15	31	22	6	17	11
Feldspar (crude) ... long tons	72,413	93,855	135,551	185,706	210,811	197,699	502	489	851	1,316	1,419	1,277
Fluorspar ... short tons	69,427	136,941	186,778	113,669	140,490	146,439	430	764	4,719	2,052	2,657	2,791
Fuller's earth ... do	32,822	47,901	128,487	206,574	287,012	315,983	294	489	2,506	2,924	3,896	4,310
Garnet for abrasive purposes ... do	3,814	4,301	5,476	8,429	6,617	5,961	114	140	434	713	459	435
Gems and precious stones							296	170	265	(13)	(13)	(13)
Graphite:												
Amorphous ... short tons	1,407	1,181	4,694	3,536	2,994	3,555	40	12	50	40	43	47
Crystalline ... 1,000 pounds	5,591	7,074	9,632	2,257	5,233	5,806	296	417	576	57	254	264
Grindstones and pulpstones ... short tons			53,484	37,340	33,238	27,736	796	648	1,707	1,706	1,509	1,242
Gypsum ... 1,000 short tons	2,379	2,448	3,129	5,678	5,102	5,016	6,523	6,597	24,533	47,577	32,036	31,293
Lime ... do	3,508	3,623	3,570	4,581	4,458	4,260	14,088	14,424	37,544	42,609	36,450	33,387
Magnesite (crude) ... short tons	12,443	30,499	303,767	120,660	127,200	187,660	75	274	2,748	1,433	1,099	1,500
Mica:												
Scrap ... do	4,065	3,959	5,723	9,695	7,760	7,500	53	51	167	174	132	128
Sheet ... 1,000 pounds	2,476	554	1,683	1,794	1,682	1,700	284	378	547	322	231	238
Millstones							28	53	63	22	43	31
Mineral paints:												
Natural pigments [14] ... short tons	68,623	57,442	(14)	(14)	(14)	(14)	528	552	(14)	(14)	(14)	(14)
Zinc and lead pigments [15] ... do	75,162	141,383	143,244	199,190	202,363	204,574	6,853	14,962	24,565	28,311	26,018	26,212
Mineral waters ... 1,000 gallons	62,030	52,114	36,218	(13)	(13)	(13)	6,358	5,139	4,861	(13)	(13)	(13)
Natural gas ... 1,000,000 cu. ft.	509,155	628,579	798,210	1,188,571	1,568,139	1,860,000	70,756	101,312	196,194	265,271	36[illegible] 726	419,000
Natural-gas gasoline ... 1,000 gallons		65,365	384,744	1,127,470	1,814,034	2,195,400		5,151	71,788	120,383	158,944	159,400
Oilstones, etc. ... short tons			1,144	970	956	838	229	115	232		228	212
Peat ... do		42,284	73,204	72,436	(13)	(13)	140	289	922		(13)	(13)
Petroleum ... 1,000 barrels (42 gals.)	209,557	281,104	442,929	763,743	901,474	1,005,598	127,900	179,463	1,360,745	1,284,960	1,054,880	1,240,000
Phosphate rock ... 1,000 long tons	2,655	1,836	4,104	3,482	3,501	3,761	10,917	5,413	25,080	11,546	12,443	13,153
Potash (K_2O) ... short tons		1,090	41,444	25,802	60,370	57,540		342	7,463	1,204	3,029	2,988
Pumice ... do	23,271	27,708	41,838	40,380	57,430	60,873	95	63	114	179	279	319
Pyrites ... long tons	241,612	394,124	310,777	170,081	182,049	[16] 333,465	978	1,675	1,597	650	605	[16] 1,250
Salt ... 1,000 short tons	4,243	5,352	6,840	7,398	8,075	8,544	7,900	11,748	29,894	26,162	26,773	27,335

For footnotes see p. 752.

No. 737.—Mineral Products of the United States: Quantities and Values—Continued

Products	Quantity						Value in thousands of dollars					
	1910	1915	1920	1925	1928	1929	1910	1915	1920	1925	1928	1929
NONMETALLIC—continued												
Sand:												
Glass ... 1,000 short tons	1,461	1,884	2,166	2,335	2,311	2,200	1,517	1,607	4,749	3,836	3,436	3,500
Molding, building, etc., and gravel ... do	67,949	74,719	79,875	169,667	206,808	197,000	19,521	21,515	60,913	103,706	115,772	108,700
Sand-lime brick ... thousands	172,507	179,643	169,761	[9] 315,595	[9] 313,553	([10])	1,169	1,135	2,490	[9] 3,781	[9] 3,655	([10])
Silica (quartz) ... short tons	63,577	112,575	68,190	25,444	22,198	19,121	194	274	320	205	209	170
Slate ... do			468,700	724,600	646,360	669,430	6,237	4,959	8,726	12,575	11,472	11,236
Stone ... 1,000 short tons			78,527	115,851	133,870	138,912	76,521	74,595	133,542	174,217	196,821	199,922
Sulphur ... 1,000 long tons	251	294	1,518	1,858	2,083	2,437	4,522	4,959	30,000	29,000	37,500	43,800
Sulphuric acid (60° Baumé) from copper and zinc smelters ... 1,000 short tons		[17] 905	[17] 1,230	1,007	1,140	1,240		7,621	13,617	7,513	9,008	9,828
Talc and soapstone ... short tons	150,716	186,891	210,635	[18] 182,256	[18] 202,976	[18] 221,839	1,592	1,892	3,035	[18] 2,012	[18] 2,538	[18] 2,645
Total nonmetallic products (approximate)							**1,237,656**	**1,400,484**	**5,214,170**	**4,291,100**	**4,091,120**	**4,343,000**
SUMMARY OF VALUES												
Metallic products							749,879	991,730	1,762,350	1,380,280	1,284,580	1,475,900
Nonmetallic products (exclusive of fuels)							409,455	427,867	1,021,260	1,232,420	1,206,158	1,141,000
Mineral fuels							828,213	972,617	4,192,910	3,058,680	2,884,962	3,202,000
"Unspecified" (metallic and nonmetallic) products partly estimated							309	2,430	4,820	6,250	9,200	11,100
Grand total (approximate)							**1,987,844**	**2,394,644**	**6,981,340**	**5,677,630**	**5,384,900**	**5,830,000**

[1] From both domestic and foreign ores.
[2] Content of antimonial lead. Value excluded from metallic total as the value of the antimony is included in the antimonial lead value. Value for antimony other than that in antimonial lead is included in metallic total. Bureau of Mines not at liberty to publish figures.
[3] Product from domestic ores only.
[4] Included under "Pig iron."
[5] Value not included in total value, since value of product derived therefrom, or of raw material used, is accounted for under other items.
[6] Including ore used for fluxing.
[7] Figures not available. Value of products derived therefrom, or raw materials used, is included elsewhere.
[8] Value included in total value of metallic products. Bureau of Mines not at liberty to publish figures.
[9] Figures obtained through cooperation with Bureau of the Census.
[10] Figures not yet available. Estimate of value included in total value of nonmetallic products.
[11] Includes brown coal and lignite and anthracite mined elsewhere than in Pennsylvania.
[12] Tripoli only. Value of diatomite is included in total value of nonmetallic products. Bureau of Mines not at liberty to publish figures.
[13] No canvass. Estimate of value included in total value of nonmetallic products.
[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 for 1929 include pyrites concentrates from Tennessee and partly desulphurized tailings from zinc operations in Wisconsin; similar output in earlier years was not included.
[17] In 1915 includes 59,189 tons and in 1920, 23,728 tons of stronger acid, not converted to 60° Baumé.
[18] Talc only. Value of soapstone is included in value of nonmetallic products. Bureau of Mines not at liberty to publish figures.

Source: Bureau of Mines, Department of Commerce.

No. 738.—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. For principal mineral products of each State see Table 739

[Values in thousands of dollars]

Division and State	1922	1923	1924	1925	1926	1927	1928
Continental United States	4,115,519	5,158,287	4,658,264	4,965,430	5,485,743	4,888,555	4,707,309
New England	34,570	48,030	48,950	48,452	50,707	48,531	49,053
Maine	5,588	7,566	6,035	5,839	5,786	5,476	5,923
New Hampshire	2,283	3,573	3,378	3,465	4,145	3,447	3,816
Vermont	9,577	13,910	14,549	14,409	14,955	14,703	14,649
Massachusetts	11,005	14,781	15,726	16,832	16,787	16,295	16,234
Rhode Island	771	1,023	1,133	1,152	1,339	1,311	831
Connecticut	5,346	7,177	8,129	6,755	7,695	7,299	7,600
Middle Atlantic	959,072	1,387,613	1,182,337	1,045,993	1,244,848	1,122,074	1,060,351
New York	73,528	89,975	95,435	102,036	112,016	112,210	108,026
New Jersey	62,396	72,602	75,271	76,761	77,066	73,091	70,865
Pennsylvania	823,148	1,225,036	1,011,631	867,196	1,055,766	936,773	881,490
East North Central	705,075	848,897	727,181	732,417	761,391	660,742	642,149
Ohio	236,809	287,869	249,050	247,507	253,884	226,963	211,041
Indiana	108,394	130,886	112,299	111,834	118,692	107,578	98,584
Illinois	244,618	282,761	235,796	231,659	237,242	180,394	188,099
Michigan	101,431	128,291	114,239	122,212	130,861	124,030	123,536
Wisconsin	13,823	19,090	15,797	19,205	20,712	21,777	20,889
West North Central	328,079	424,258	347,234	398,158	423,120	347,534	348,016
Minnesota	111,617	174,105	107,845	110,253	118,361	102,973	108,275
Iowa	36,205	46,175	40,460	38,420	35,972	33,426	35,499
Missouri	62,403	79,201	81,054	92,548	90,004	75,890	74,981
North Dakota	3,693	3,473	2,735	2,662	2,805	2,870	3,083
South Dakota	7,279	7,372	6,926	7,972	7,595	8,464	9,443
Nebraska	2,997	3,302	3,209	3,359	3,322	3,542	3,455
Kansas	103,885	110,630	105,005	142,944	165,061	120,369	113,280
South Atlantic	445,235	523,884	405,881	443,785	519,412	481,112	440,831
Delaware	428	416	512	539	378	493	482
Maryland	14,905	21,190	18,507	21,558	24,067	20,469	18,418
District of Columbia	869	930	814	955	987	1,375	1,031
Virginia	38,551	48,052	37,962	41,038	46,136	41,323	38,770
West Virginia	358,772	412,867	307,314	333,528	395,942	366,643	336,637
North Carolina	7,268	10,021	9,261	9,504	10,993	11,704	11,480
South Carolina	2,414	3,550	3,444	3,608	3,677	4,251	4,046
Georgia	11,120	14,300	14,947	16,504	17,480	16,758	14,740
Florida	10,908	12,558	13,120	16,651	19,752	18,096	15,227
East South Central	257,170	275,067	235,272	249,551	271,658	271,684	243,200
Kentucky	158,701	148,854	120,511	131,371	146,768	152,614	131,970
Tennessee	35,146	41,554	35,355	38,869	39,297	37,875	38,789
Alabama	61,723	82,496	77,316	77,139	83,710	78,641	69,807
Mississippi	1,600	2,163	2,090	2,172	1,883	2,554	2,634
West South Central	725,612	762,415	784,440	1,000,669	1,136,796	1,009,814	967,071
Arkansas	31,419	41,954	61,749	87,186	84,486	59,449	45,010
Louisiana	75,519	61,199	56,931	60,504	62,204	51,267	56,810
Oklahoma	369,070	398,811	393,031	501,767	569,519	524,595	486,634
Texas	249,604	260,451	272,729	351,212	420,587	374,503	378,617
Mountain	352,079	484,407	470,270	519,273	526,261	458,780	493,540
Montana	59,401	74,707	70,632	79,261	79,763	68,265	74,752
Idaho	18,496	27,105	27,832	31,611	31,753	29,184	28,589
Wyoming	58,529	77,665	75,494	78,755	78,988	56,167	52,951
Colorado	54,806	61,379	61,488	63,149	65,597	58,355	58,594
New Mexico	18,038	23,791	23,914	25,549	28,514	28,609	30,427
Arizona	63,738	104,940	100,327	114,203	115,048	100,559	116,000
Utah	60,697	86,221	84,357	100,275	98,985	90,388	97,381
Nevada	18,374	28,599	26,226	26,470	27,613	26,753	34,846
Pacific	308,627	403,716	456,699	527,132	551,550	488,284	463,068
Washington	19,725	22,169	21,159	22,382	21,257	21,966	22,120
Oregon	5,490	6,054	7,364	7,827	6,941	6,821	6,687
California	283,412	375,493	428,176	496,923	523,352	459,497	434,261
Alaska	19,507	20,241	17,362	18,286	17,607	14,402	14,023

Source: Bureau of Mines, Department of Commerce.

No. 739.—PRINCIPAL MINERAL PRODUCTS OF EACH STATE, IN ORDER OF VALUE IN 1928

New England:
Maine—Stone, lime, cement, slate.
New Hampshire—Stone, sand and gravel, clay products, feldspar.
Vermont—Stone, slate, talc, lime.
Massachusetts—Stone, sand and gravel, clay products, lime.
Rhode Island—Stone, sand and gravel, lime, graphite.
Connecticut—Stone, clay products, lime, sand and gravel.

Middle Atlantic:
New York—Clay products, stone, cement, sand and gravel.
New Jersey—Clay products, zinc, cement, stone.
Pennsylvania—Coal, cement, natural gas, clay products.

East North Central:
Ohio—Clay products, natural gas, coal, cement.
Indiana—Coal, stone, cement, clay products.
Illinois—Coal, clay products, cement, sand and gravel.
Michigan—Iron ore, copper, cement, salt.
Wisconsin—Stone, iron ore, sand and gravel, zinc.

West North Central:
Minnesota—Iron ore, stone, cement, manganiferous ore.
Iowa—Cement, coal, gypsum, clay products.
Missouri—Lead, clay products, cement, coal.
North Dakota—Coal, clay products, sand and gravel, natural gas.
South Dakota—Gold, sand and gravel, cement, stone.
Nebraska—Sand and gravel, cement, clay products, stone.
Kansas—Petroleum, natural gas, zinc, cement.

South Atlantic:
Delaware—Clay products, stone, sand and gravel.
Maryland—Coal, clay products, cement, sand and gravel.
District of Columbia—Sand and gravel, clay products, sand-lime brick, stone.
Virginia—Coal, stone, clay products, cement.
West Virginia—Coal, natural gas, clay products, petroleum.

South Atlantic—Continued.
North Carolina—Stone, clay products, copper, sand and gravel.
South Carolina—Stone, clay products, sand and gravel, barite.
Georgia—Stone, clay products, cement, fuller's earth.
Florida—Phosphate rock, stone, fuller's earth, cement.

East South Central:
Kentucky—Coal, petroleum, clay products, natural gas.
Tennessee—Coal, stone, cement, clay products.
Alabama—Coal, iron ore, cement, clay products.
Mississippi—Sand and gravel, clay products, stone, natural gas.

West South Central:
Arkansas—Petroleum, coal, natural gas, natural gasoline.
Louisiana—Petroleum, natural gas, natural gasoline, salt.
Oklahoma—Petroleum, natural gas, natural gasoline, zinc.
Texas—Petroleum, natural gas, sulphur, natural gasoline.

Mountain:
Montana—Copper, zinc, coal, petroleum.
Idaho—Lead, silver, zinc, stone.
Wyoming—Petroleum, coal, natural gas, natural gasoline.
Colorado—Coal, gold, zinc, lead.
New Mexico—Copper, coal, zinc, petroleum.
Arizona—Copper, silver, gold, lead.
Utah—Copper, lead, coal, silver.
Nevada—Copper, gold, silver, gypsum.

Pacific:
Washington—Coal, cement, sand and gravel, clay products.
Oregon—Stone, cement, sand and gravel, clay products.
California—Petroleum, natural gas, natural gasoline cement.
Alaska—Gold, copper, coal, silver.

No. 740.—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 per cent 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
1913	61,980	59,643	1,042	2,595
1914	41,440	39,714	552	1,351
1915	55,526	55,493	708	1,341
1916	75,168	77,871	1,184	1,326
1917	75,289	75,573	1,132	972
1918	69,658	72,021	1,256	787
1919	60,965	56,373	997	476
1920	67,604	69,281	1,145	1,273
1921	29,491	26,653	440	316
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

Production	1926	1927	1928	1929
REGION				
Lake Superior [1]	57,143	51,540	52,517	62,825
Birmingham	6,508	6,295	6,167	6,282
All other	3,971	3,906	3,513	3,921
STATE				
Alabama	6,848	6,445	6,308	6,453
Tennessee	139	122	129	102
Michigan	15,248	15,075	13,677	15,456
Minnesota	40,702	35,461	37,564	45,761
Wisconsin	1,323	1,091	1,285	1,609
Pennsylvania	1,096	1,170	1,024	1,092
New York	639	853	713	822
New Jersey	209	221	250	281
Wyoming	630	603	491	639
All other	790	699	657	812
KIND				
Hematite	[2,3] 64,635	[2,3] 58,506	[3] 59,208	[2,3] 69,849
Brown ore	[2] 811	[2] 743	817	[2] 776
Magnetite	[3] 2,175	[3] 2,490	[3] 2,171	[3] 2,401
Carbonate	2	2	2	2

[1] Includes only those mines in Wisconsin which are in true Lake Superior district.
[2] Some hematite included with brown ore.
[3] Some hematite included with magnetite.

Source of Tables 739 and 740: Bureau of Mines, Department of Commerce.

No. 741.—ANALYSIS OF PIG IRON AND FERRO-ALLOY PRODUCTION

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

	1900	1905	1910	1915	1920	1925	1926	1927	1928	1929
Total pig iron and ferro-alloys	13,789	22,992	27,304	29,916	36,926	36,701	39,373	36,566	38,156	42,614
By States:										
New England	14	16	17	8	10	-------	2,729	2,775	2,563	3,025
New York, New Jersey	463	1,509	2,203	2,105	2,601	2,188				
Pennsylvania	6,366	10,579	11,272	12,791	13,983	12,523	13,588	11,830	12,423	14,453
Maryland	290	332	326	252	524	705	805	857	1,051	1,166
Virginia	491	510	445	251	429	125	103	99		
Alabama	1,184	1,604	1,939	2,049	2,393	2,836	2,953	2,783	2,546	2,710
Ohio	2,471	4,586	5,752	6,913	8,533	8,863	9,359	8,502	9,099	9,796
Illinois	1,363	2,034	2,676	2,447	3,281	3,604	3,660	3,589	3,942	4,358
Indiana, Michigan	164	289	1,250	1,987	2,940	4,120	4,377	4,202	4,583	5,086
Wisconsin, Minnesota	185	351	307	373	711	468	537	456	339	379
All other	798	1,182	1,117	741	1,520	1,267	1,260	1,474	1,610	1,641
By disposition:										
For sale	(1)	(1)	(1)	8,583	10,724	8,991	9,760	9,494	8,304	9,635
For maker's use	(1)	(1)	(1)	21,333	26,202	27,710	29,612	27,072	29,852	32,979
By kinds:										
Basic	1,072	4,105	9,085	13,093	16,738	19,667	21,168	19,357	22,124	24,912
Bessemer	7,979	12,407	11,246	10,523	12,062	9,419	10,042	9,106	9,014	9,877
Foundry (incl. ferrosilicon)	3,376	4,758	5,260	4,844	5,958	5,410	5,753	5,783	4,513	4,787
Malleable	173	635	843	830	1,311	1,554	1,682	1,700	1,9.3	2,313
Forge	793	728	564	316	318	241	216	145	88	168
Ferromanganese, spiegeleisen, and all other	395	359	306	310	539	409	511	476	493	557
Pig iron and ferro-alloys by fuels:										
Coke [2]	11,728	20,965	26,258	29,535	36,300	36,504	39,209	36,401	38,013	42,476
Anthracite	1,677	1,675	649	85	303	-------	-------	-------	-------	-------
Charcoal	384	353	397	296	323	196	164	165	143	138
Materials used:										
Iron ore, briquettes, etc	24,131	41,525	51,739	55,137	66,450	65,450	[3] 68,228	[3] 63,298	[3] 65,352	[3] 73,059
Cinder, scale, etc	1,600	(1)	2,800	4,483	4,986	5,017	[3] 6,386	[3] 6,417	[3] 6,712	[3] 7,434
Coke (1,000 tons of 2,000 pounds) [4]	(1)	(1)	(1)	33,329	42,046	39,296	[3] 39,709	[3] 37,373	[3] 38,365	[3] 42,403
Limestone	7,422	11,627	14,528	14,790	17,825	15,154	[3] 15,364	[3] 14,102	[3] 14,272	[3] 15,603
Total number of furnaces	406	424	473	445	452	395	379	364	334	299
Furnaces in blast Dec. 31	232	313	206	310	216	238	210	178	203	155

[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 prior to 1926.

Source: American Iron and Steel Institute.

No. 742.—PIG IRON: PRODUCTION (INCLUDING FERRO-ALLOYS), 1810–1906

NOTE.—For later years see Table 743. Tons are of 2,240 pounds

Year	Long tons	Year	Long tons	Year	Long tons	Year	Long tons	Year	Long tons
1810	53,908	1871	1,706,793	1880	3,835,191	1889	7,603,642	1898	11,773,934
1820	20,000	1872	2,548,713	1881	4,144,254	1890	9,202,703	1899	13,620,703
1830	165,000	1873	2,560,963	1882	4,623,323	1891	8,279,870	1900	13,789,242
1840	286,903	1874	2,401,262	1883	4,595,510	1892	9,157,000	1901	15,878,354
1850	563,755	1875	2,023,733	1884	4,097,868	1893	7,124,502	1902	17,821,307
1855	700,159	1876	1,868,961	1885	4,044,526	1894	6,657,388	1903	18,009,252
1860	821,223	1877	2,066,594	1886	5,683,329	1895	9,446,308	1904	16,497,033
1865	831,770	1878	2,301,215	1887	6,417,148	1896	8,623,127	1905	22,992,380
1870	1,665,179	1879	2,741,853	1888	6,489,738	1897	9,652,680	1906	25,307,191

Source: American Iron and Steel Institute.

No. 743.—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. All production figures are for calendar years

Yearly average or year	Pig iron			Steel ingots and castings, production	Year	Pig iron			Steel ingots and castings, production
	Production	Exports of domestic	Imports			Production	Exports of domestic	Imports	
1871–1875	2, 248, 293	7, 412	137, 591	[1] 389, 799	1915	29, 916, 213	224, 509	89, 836	32, 151, 036
1876–1880	2, 562, 763	3, 407	276, 600	803, 479	1916	39, 434, 797	607, 236	135, 349	42, 773, 680
1881–1885	4, 301, 096	5, 311	325, 290	1, 652, 268	1917	38, 621, 216	656, 220	76, 786	45, 060, 607
1886–1890	7, 079, 312	12, 407	229, 970	3, 292, 763	1918	39, 054, 644	269, 575	34, 711	44, 452, 432
1891–1895	8, 133, 013	22, 983	54, 778	4, 675, 736	1919	31, 015, 364	321, 261	101, 665	34, 671, 232
1896–1900	11, 491, 937	224, 268	34, 308	8, 439, 938	1920	36, 925, 987	216, 828	185, 944	42, 132, 934
1901–1905	18, 239, 665	45, 465	314, 765	15, 367, 931	1921	16, 688, 126	28, 405	44, 842	19, 783, 797
1906	25, 307, 191	83, 317	379, 828	23, 398, 136	1922	27, 219, 904	33, 332	498, 059	35, 602, 926
1907	25, 781, 361	73, 703	489, 475	23, 362, 594	1923	40, 361, 146	37, 559	474, 723	44, 943, 696
1908	15, 936, 018	46, 696	92, 202	14, 023, 247	1924	31, 405, 700	45, 818	276, 966	37, 931, 939
1909	25, 795, 471	61, 989	176, 442	23, 955, 021	1925	36, 700, 566	39, 907	516, 948	45 393, 524
1910	27, 303, 567	127, 385	237, 233	26, 094, 919	1926	39, 372, 729	28, 606	514, 288	48, 293, 763
1911	23, 649, 547	120, 799	148, 459	23, 676, 106	1927	36, 565, 645	55, 899	175, 529	44, 935, 185
1912	29, 726, 937	272, 676	129, 325	31, 251, 803	1928	38, 155, 714	96, 743	194, 636	51, 544, 180
1913	30, 966, 152	277, 648	156, 450	31, 300, 874	1929	42, 613, 983	53, 749	223, 080	56, 433, 473
1914	23, 332, 244	114, 423	139, 683	23, 513, 030					

[1] 1875 only.

No. 744.—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	1927	1928	1929
Rolled products, total	16, 840	21, 621	24, 393	32, 348	33, 387	32, 879	37, 663	41, 069
Rails	3, 376	3, 636	2, 204	2, 604	2, 785	2, 806	2, 647	2, 722
Bessemer	3, 192	1, 884	327	143	10	2	3	3
Open hearth	183	1, 751	1, 775	2, 334	2, 692	2, 718	2, 580	2, 662
Rerolled			102	127	84	87	64	56
Sheets and plates	3, 532,	4, 955	6, 078	9, 338	9, 808	9, 628	11, 006	12, 436
Universal			955	1, 250	1, 196	1, 257	1, 304	1, 425
Sheared			1, 923	3, 505	2, 557	2, 446	2, 609	3, 597
Black sheets [1]			1, 837	2, 886	4, 097	3, 997	4, 962	5, 255
Black plates for tinning			1, 093	1, 449	1, 632	1, 928	2, 130	2, 159
Other black-plate specialties			270	247	325			
Nail and spike plate	65	45	32	21	22	18	16	10
Wire rods	1, 809	2, 242	3, 096	3, 137	2, 845	2, 770	3, 081	3, 134
Structural shapes	1, 661	[2] 2, 267	2, 437	3, 307	3, 604	3, 742	4, 096	4, 778
Merchant bars	3, 594	3, 786	4, 131	6, 130	5, 659	4, 870	6, 278	6, 471
Skelp	1, 436	1, 828	2, 299	3, 220	3, 230	3, 419	3, 369	3, 517
Hoops	446	262	282	333	205	176	176	204
Bands and cotton ties		425	438	389	356	323	384	385
Splice and tie-plate bars			536	576	823	865	798	925
Rolled forging blooms, billets, etc.	42	460	651	447	345	286	554	527
Bars for reinforced concrete work	881	241	353	572	820	816	952	952
Hot-rolled strips and flats for cold rolling		1, 474	1, 856	2, 273	2, 886	1, 318	2, 162	2, 503
Blanks or pierced billets for seamless tubes						889	1, 191	1, 382
All other rolled products						951	952	1, 122
Miscellaneous products:								
Tin plate (million pounds)		1, 450	2, 202	3, 080	3, 459	3, 513	3, 842	4, 068
Terneplates (million pounds)		168	163	158	255	235	278	341
Galvanized sheets (million pounds)			1, 582	1, 871	2, 539	2, 768	3, 041	3, 084
Galvanized formed products (million pounds)			112	144	178	169	172	178
Wire nails (thousands of kegs [3])	10, 855	12, 705	14, 583	16, 450	15, 454	14, 389	14, 234	13, 101
Cut nails (thousands of kegs [3])	1, 358	1, 005	775	845	736	703	620	534
Wrought pipe, incl. boiler tubes			1, 920	3, 003	3, 031	3, 117	2, 924	3, 019
Boiler tubes			97	119	63	47	59	62
Seamless steel tubes			140	292	568	864	1, 079	1, 303
Cast-iron pipe (1,000 short tons) [4]			1, 215	887	1, 925	1, 970	1, 872	1, 651
Forgings made by rolling mills		320	524	540	388	356	625	586

[1] Rolled on sheet or jobbing mills.
[2] Small structural forms not included.
[3] Of 100 pounds.
[4] Of 2,000 pounds.

Source of Tables 743 and 744: American Iron and Steel Institute.

No. 745.—PRODUCTION, EXPORTS, AND IMPORTS OF FINISHED ROLLED IRON AND STEEL

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

Yearly average or year (calendar year)	Total production, finished rolled products	Rails			Plates and sheets		
		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	[1] 5,278,214	1,710,278	7,275	49,775	[1] 684,914		8,013
1891–1895	5,472,849	1,264,677	13,650	1,047	755,878	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
1906–1910	18,509,490	3,238,486	303,234	3,963	4,054,102	158,591	4,096
1909	19,644,690	3,023,845	299,540	1,542	4,234,346	180,047	4,720
1910	21,621,279	3,636,031	353,180	7,861	4,955,484	274,521	6,152
1911	19,039,171	2,822,790	420,874	3,414	4,488,049	372,373	2,453
1912	24,656,841	3,327,915	446,473	3,780	5,875,080	546,521	3,299
1913	24,791,243	3,502,780	460,553	10,408	5,751,037	463,426	2,893
1914	18,370,196	1,945,095	174,680	22,571	4,719,246	280,095	4,310
1915	24,392,924	2,204,203	391,379	78,525	6,077,694	419,604	1,420
1916	32,380,389	2,854,518	540,828	26,299	7,453,980	515,558	1,730
1917	33,067,700	2,944,161	512,669	9,263	8,267,616	851,529	1,748
1918	31,155,754	2,540,892	453,537	8,705	8,799,135	854,136	1,517
1919	25,101,544	2,203,843	652,443	17,008	7,372,814	1,042,697	1,095
1920	32,347,863	2,604,116	594,628	45,684	9,337,680	1,273,558	1,792
1921	14,774,006	2,178,818	321,822	22,048	4,260,574	607,370	1,976
1922	26,452,004	2,171,776	277,090	26,629	7,968,397	439,417	[2] 1,947
1923	33,277,076	2,904,516	267,409	29,706	9,497,717	386,405	[2] 4,572
1924	28,086,435	2,433,332	208,496	43,358	8,087,883	360,540	[2] 6,066
1925	33,386,960	2,785,257	151,690	36,872	9,807,659	386,912	[2] 4,480
1926	35,495,892	3,217,649	187,557	55,212	10,529,056	517,611	[2] 15,616
1927	32,879,031	2,806,486	177,593	15,455	9,627,734	468,511	[2] 19,760
1928	37,662,916	2,647,493	190,925	14,019	11,006,050	522,657	[2] 30,800
1929	41,069,416	2,722,138	146,060	6,236	12,436,312	540,896	[2] 28,461

Yearly average or year (calendar year)	Nail-plate production	Wire rods			Structural shapes			All other finished rolled production
		Production	Exports	Imports	Production	Exports	Imports	
1891–1895	152,803	633,248		34,804	[3] 429,872			2,322,406
1896–1900	78,328	909,819	[4] 16,182	18,087	689,419	[4] 48,877		3,139,210
1901–1905	66,406	1,590,280	16,345	18,390	904,991	55,651	[5] 12,886	5,220,667
1906–1910	52,205	2,056,732	13,403	15,400	1,936,951	121,086	11,107	7,171,013
1909	63,746	2,335,685	20,142	10,544	2,275,562	90,830	6,146	7,711,506
1910	45,294	2,241,830	22,869	20,374	[6] 2,266,890	146,721	14,897	8,475,750
1911	48,522	2,450,453	22,641	15,483	[6] 1,912,367	223,493	5,343	7,316,990
1912	45,331	2,653,553	64,978	15,069	2,846,487	288,164	3,120	9,908,475
1913	37,503	2,464,807	61,637	16,098	3,004,972	403,264	11,659	10,030,144
1914	38,573	2,431,714	61,856	6,954	2,031,124	182,395	10,145	7,204,444
1915	31,929	3,095,907	165,014	5,317	2,437,003	232,139	1,494	10,546,188
1916	30,088	3,518,746	158,284	4,130	3,029,964	300,594	1,473	15,493,093
1917	22,864	3,137,138	181,941	1,060	3,110,000	294,150	6,216	15,585,921
1918	18,310	2,562,390	148,523	7,677	2,849,969	232,729	3,504	14,385,058
1919	12,832	2,538,476	118,010	342	2,614,036	360,787	1,154	10,359,543
1920	20,577	3,136,907	116,775	5,488	3,306,748	493,633	1,685	13,941,835
1921	14,573	1,564,330	18,953	917	1,272,624	297,022	777	5,483,087
1922	21,969	2,654,741	40,424	1,735	2,718,768	167,585	7,823	10,916,353
1923	22,833	3,075,892	40,868	3,948	3,405,197	199,021	10,674	14,370,921
1924	22,175	2,522,545	18,762	6,851	3,283,708	167,910	43,245	11,736,792
1925	22,038	2,844,656	21,207	7,988	3,604,130	169,252	77,291	14,323,220
1926	17,337	2,722,032	19,646	10,075	3,911,663	233,059	121,100	15,098,155
1927	18,051	2,770,271	16,127	17,988	3,742,445	215,226	161,849	13,914,044
1928	16,200	3,080,816	38,619	19,298	4,096,143	296,885	163,762	16,816,214
1929	9,827	3,134,409	42,250	15,653	4,778,020	399,845	148,223	17,988,710

[1] Average for years 1887–1890.
[2] Includes skelp.
[3] Average for years 1892–1895.
[4] Average for period July 1, 1897, to Dec. 31, 1900.
[5] Average for period July 1, 1903, to Dec. 31, 1905.
[6] Small structural forms not included.

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

No. 746.—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
1905	20,023,947	10,941,375	8,971,376	7,815,728	1,155,648	102,233		8,963
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	
1926	48,293,763	6,934,568	40,691,979	39,653,315	1,038,664	15,493	651,723	
1927	44,935,185	6,191,727	38,068,335	37,144,268	924,067	9,036	666,087	
1928	51,544,180	6,620,195	44,113,956	43,200,483	913,473	7,769	802,260	
1929	56,433,473	7,124,075	48,352,888	47,232,419	1,120,469	5,079	951,431	

Source: American Iron and Steel Institute.

No. 747.—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 given under "Wire" and "Tin and terneplate" include data for products of these departments of steel works and rolling mills and of all other industries producing these commodities. The original census tables contain much fuller detail as to the disposition of semifinished products

Industry and product	Quantity in thousands of tons of 2,240 pounds			Value in thousands of dollars		
	1923	1925	1927	1923	1925	1927
STEEL WORKS AND ROLLING MILLS						
All products, total value				3,154,325	2,946,068	2,779,840
Unrolled steel, total	44,521	45,119	44,757			
Ingots—						
For sale and interplant transfer	551	535	437	18,885	16,360	12,679
Produced and consumed in works	42,850	43,576	43,337			
Direct steel castings—						
For sale and interplant transfer	1,054	938	888	162,611	144,415	145,085
Produced and consumed in works	66	70	95			
Semifinished rolled products, for sale and interplant transfer, total	11,434	11,388	10,307	455,460	405,412	346,051
Blooms, billets, and slabs, except for forging	7,133	6,828	6,161	280,692	243,333	205,828
Rolled blooms and billets for forging	135	153	113	8,522	7,283	4,690
Hammered charcoal blooms, billets, etc	4	3	1	372	272	80
Sheet and tin-plate bars	4,063	4,351	3,985	159,810	151,756	133,094
Muck and scrap bar	99	53	47	6,064	2,768	2,359
Finished rolled products and forgings, total	[1]34,452	32,647	32,154			
Produced and consumed in works	[1]9,075	8,145	8,416			
For sale and interplant transfer	25,377	24,502	23,738	1,545,528	1,373,049	1,251,788
Rails	2,728	2,693	2,703	113,644	114,334	114,565
Rail joints, fastenings, tie plates, etc	768	815	893	43,193	46,724	50,394
Structural shapes (not fabricated)	3,291	3,413	3,502	161,749	154,814	148,339
Concrete reinforcing bars	617	709	783	32,446	35,078	35,410
Merchant bars, mill shafting, etc. [2]—						
Steel	5,076	4,933	4,249	316,517	301,604	240,469
Iron	400	255	202	29,419	16,896	13,582
Bolt and nut rods, spike and chain rods, etc	92	63	95	5,237	3,312	4,381
Wire rods	1,236	1,105	1,024	62,003	54,713	46,059
Plates No. 12 and thicker	4,222	3,862	3,781	220,454	180,668	164,513
Sheets No. 13 and thinner	2,726	2,914	2,982	249,090	234,438	227,683
Skelp	1,383	1,280	1,241	69,215	54,431	50,604
Hoops, bands, strips, and cotton ties [2]	1,315	1,435	1,265	102,597	86,048	66,351
Axles	197	135	119	15,408	11,387	10,737
Armor plate and ordnance	9	1	8	1,921	424	2,613
Car and locomotive wheels	237	147	155	23,345	15,345	15,197
All other rolled and forged products [3]	1,080	742	736	99,290	62,833	60,891
Scrap iron and steel, for sale and interplant transfer	2,218	2,219	2,448	37,100	37,627	35,750
All other (including value added to rolled products by further manufacture)				934,741	969,205	988,487

For footnotes see p. 759.

No. 747.—Products of Steel Works and Rolling Mills, and of the Wire, Tin-Plate, and Cast-Iron Pipe Industries—Continued

Industry and product	Quantity in thousands of unit specified				Value in thousands of dollars		
	Unit	1923	1925	1927	1923	1925	1927
WIRE AND WIRE PRODUCTS (ALL METALS)							
All industries, total value					691,909	702,039	697,684
Iron and steel wire:							
Plain wire, total [4]	Ton [5]	3,125	2,963	2,865			
For sale and interplant transfer	do	912	906	907	73,999	71,842	67,618
Produced and consumed in works	do	2,213	2,057	1,958			
Galvanized wire: For sale and interplant transfer.	do	331	249	250	23,011	17,246	17,035
Other coated wire: For sale and interplant transfer.	do	54	42	45	6,383	5,198	6,368
Cold-rolled flat wire: For sale and interplant transfer.	do	140	151	150	19,693	18,859	18,543
Copper wire:							
For sale and interplant transfer	Lb	487,400	504,429	491,819	84,786	85,507	77,090
Produced and consumed in works	do	(6)	(6)	294,745			
Brass wire:							
For sale and interplant transfer	do	68,038	64,138	60,844	16,460	12,228	11,693
Produced and consumed in works	do	(6)	(6)	3,086			
Other metal wire:							
For sale and interplant transfer	do	29,461	45,589	34,117	9,904	13,683	12,009
Produced and consumed in works	do	(6)	(6)	7,209			
Fabricated wire products for sale:							
Iron and steel—							
Nails and spikes	Keg [7]	18,161	15,977	14,819	64,880	53,623	48,002
Brads and tacks [8]	Lb	3,967	7,350	7,135	428	809	690
Staples	do	63,644	53,427	49,379	2,373	1,853	1,596
Barbed wire	Ton [5]	256	248	202	19,276	16,659	12,973
Rope, cable, and strand		(9)	(9)	(9)	44,217	46,684	46,916
Woven-wire fence and poultry netting, plain and coated.		(9)	(9)	(9)	50,728	41,969	43,786
Wire cloth		(6)	(6)	(9)	28,832	24,189	14,225
Other woven wire		(6)	(6)	(9)			5,395
Bale ties		(6)	(6)	(9)	45,688	57,753	4,580
Wire springs		(6)	(6)	(9)			32,187
Other fabricated iron and steel wire products.		(6)	(6)	(6)			41,868
Copper-wire products—							
Wire cloth		(6)	(6)	(9)	6,740	8,942	2,213
Other fabricated copper wire products, except insulated.		(6)	(6)	(6)			10,970
Brass-wire products; not including wire cloth.		(6)	(6)	(9)	10,039	14,378	3,629
Other (bronze and other alloys except brass) wire products, not including wire cloth.		(6)	(6)	(6)			224
Wire cloth of brass, bronze, and other alloys.		(6)	(6)	(9)			6,583
Not distributed by class							1,436
Insulated wire and cable		(6)	(6)	(6)	184,472	210,617	210,048
TIN PLATE AND TERNEPLATE							
All products, total value					165,587	190,918	193,894
Tin plate	Lb	3,159,251	3,480,401	3,560,417	154,636	179,382	180,410
Terneplate	do	137,301	181,436	193,056	7,840	9,229	10,016
All other products	do				3,111	2,307	3,468
CAST-IRON PIPE INDUSTRY							
All products, total value					92,674	[10] 103,003	[10] 95,283
Gas and water pipe and fittings	Ton [5]	1,140	1,434	1,505	63,916	70,952	65,549
Soil and plumbers' pipe and fittings	do	425	524	489	24,033	26,434	25,688
Castings, other	do	23	26	24	2,810	2,891	1,960
All other					1,915	2,726	2,086

[1] Not strictly comparable with figures for 1925 and 1927 because of duplication in reports of some establishments, which reported the tonnage "Produced and consumed in works" in two forms; for example, as bars, and as rail joints and fastenings; also because of the fact that the 1923 figure includes the tonnage of iron castings produced and consumed in works.

[2] Includes a considerable tonnage of cold rolled steel for years 1923 and 1925, but none for 1927.

[3] Includes "nail and tack plate" not shown separately to avoid disclosing the individual operations.

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

[5] Of 2,000 pounds. [6] No comparable data. [7] Of 100 pounds.

[8] Not including value of brads and tacks made from tack plate.

[9] Complete data not available; see original census reports.

[10] Includes cast-iron pipe made as a secondary product in other industries. Figures for 1923 do not include such products.

Source: Bureau of the Census, Department of Commerce.

No. 748.—BLAST FURNACES AND STEEL MILLS: CENSUS STATISTICS

NOTE.—The scope of the industry "Steel works and rolling mills" is indicated by Table 747.

Year	Number of establishments	Wage earners (average number)	Wages	Value of products [1]	Value added by manufacture [2]	Primary horsepower
			Thousands of dollars			
1879	792	[3] 140,798	[3] 55,451	296,558	105,287	([4])
1889	719	171,181	89,273	478,688	151,415	784,358
1899	668	222,490	120,820	803,968	281,569	1,598,073
1904	605	242,640	141,427	905,788	285,642	2,422,577
1909	654	278,505	187,807	1,377,152	399,013	3,274,400
1914	587	278,072	210,923	1,236,319	380,913	[5] 3,925,869
1919	695	416,748	711,407	3,623,369	1,321,507	[5] 5,399,574
1921	628	254,213	354,357	1,901,431	535,256	([4])
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
Blast furnaces:						
1925	122	29,188	45,312	765,286	147,869	1,380,394
1927	116	27,958	44,258	708,904	129,349	([6])
Steel works and rolling mills:						
1925	473	370,726	614,985	2,946,068	1,134,107	4,763,533
1927	486	361,312	601,275	2,779,840	1,090,185	[5] 6,781,058

[1] Includes much duplication.
[2] Value of products less cost of materials.
[3] Returns were not secured for number of salaried employees and it is probable that "wages" included amounts paid for salaries, and "wage earners" may have included some salaried employees.
[4] No data.
[5] This total differs slightly from the corresponding one published in previous reports because of the exclusion here and the inclusion in previous reports of data for rented power other than electric.
[6] Blast furnace data are included with steel works and rolling mills.

Source: Bureau of the Census, Department of Commerce.

No. 749.—AGGREGATE DOMESTIC EXPORTS OF HEAVY IRON AND STEEL [1]

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

[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	----------	1910	1,538	63,436	1922	1,995	136,334
1895	89	----------	1911	2,188	86,599	1923	2,010	167,247
1900	1,154	42,518	1912	2,948	112,535	1924	1,806	150,494
1901	701	29,050	1913	2,746	108,875	1925	1,763	144,262
1902	372	15,889	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	200,253
1906	1,326	52,215	1918	5,375	558,279			
1907	1,302	60,046	1919	4,400	410,164			
1908	964	43,397	1920	4,935	458,376			
1909	1,244	50,777	1921	2,213	214,830			

[1] Beginning with 1922 the small item "steam and hot water heating boilers and radiators" is omitted.

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

No. 750.—EXPORTS OF HEAVY IRON AND STEEL PRODUCTS

NOTE.—This and Tables 749 and 751 exclude the highly elaborated manufactures of iron and steel

Articles	Quantity in long tons (2,240 pounds)				Value in thousands of dollars			
	1926	1927	1928	1929	1926	1927	1928	1929
Total	2,166,650	2,183,091	2,865,103	3,037,857	174,145	160,609	179,881	200,253
Pig iron, not including ferro-alloys	25,208	50,992	84,682	46,357	524	1,028	1,367	830
Ferromanganese and spiegeleisen	693	1,641	9,440	1,574	44	62	233	59
Scrap	104,838	239,159	516,139	557,044	1,794	3,765	6,615	7,753
Ingots, blooms, billets, sheet bars, and skelp	100,954	98,613	161,855	173,665	4,555	4,344	6,617	7,007
Iron bars	5,171	3,872	6,229	5,074	445	345	492	333
Steel bars	137,771	111,126	158,475	183,394	8,935	6,938	9,114	10,170
Alloy steel bars	4,945	6,149	14,079	15,743	923	917	1,487	1,660
Wire rods	19,646	16,128	38,617	42,251	1,086	883	1,734	2,012
Galvanized sheets	178,635	152,181	152,280	151,510	18,392	15,498	14,664	14,759
Plates, iron and steel	138,260	139,632	166,269	193,695	7,602	7,024	8,400	10,018
Black steel sheets	175,740	152,525	179,286	173,602	14,195	12,188	13,567	14,307
Black iron sheets	19,253	17,147	16,289	15,855	2,024	1,663	1,634	1,597
Hoop, band, and strip steel	46,914	43,159	58,080	70,864	3,453	3,061	3,979	5,136
Tin plate, terneplate, etc	250,782	253,890	249,642	258,965	28,766	29,062	26,346	28,566
Structural shapes, plain material	157,121	148,176	202,804	288,513	7,655	6,554	8,754	12,684
Structural materials, fabricated	77,285	69,423	92,758	112,099	6,952	5,912	8,112	9,072
Metal lath	4,376	4,666	5,358	5,452	729	779	830	816
Steel rails	187,557	177,586	190,905	146,060	7,643	6,783	6,926	5,332
Rail fastenings, switches, frogs, etc	41,771	34,372	41,995	32,597	3,344	3,155	3,483	3,223
Boiler tubes and welded pipe	275,452	248,473	248,895	278,276	26,522	23,299	23,326	27,622
Cast-iron pipe and fittings	34,111	27,975	33,979	46,919	4,094	3,436	3,350	5,075
Malleable-iron screwed pipe fittings	12,367	10,061	10,034	12,534	3,434	3,086	2,857	3,928
Barbed-wire and woven-wire fencing	50,721	52,393	74,335	64,478	3,719	3,762	5,015	4,445
Plain wire	31,312	35,435	46,177	45,505	2,710	2,843	3,467	3,654
Wire cloth and screening	1,989	2,255	1,884	1,667	746	827	626	669
Wire rope	4,779	4,547	5,367	6,958	1,446	1,342	1,578	1,907
Insulated wire and cable	738	491	640	1,076	276	191	217	397
Wire, other, and manufactures thereof	8,983	9,558	9,812	10,382	1,983	1,894	2,145	2,446
Wire nails	11,743	9,990	14,547	12,987	885	763	956	864
Nails other than wire, including tacks	7,925	8,429	9,892	10,256	1,635	1,655	1,684	1,784
Horseshoes	660	563	468	441	102	91	73	69
Bolts, nuts, rivets, and washers [1]	13,221	12,228	13,278	16,236	2,409	2,196	2,537	3,145
Car wheels and axles	16,679	16,661	17,139	21,459	1,487	1,273	1,309	1,560
Iron castings	8,839	11,724	12,061	10,976	1,276	1,353	1,518	1,573
Steel castings	7,566	7,003	9,710	10,824	1,829	1,808	2,551	2,975
Forgings	2,645	4,868	11,703	12,070	533	827	2,308	2,207

[1] Except track.

No. 751.—IRON AND STEEL: EXPORTS BY DESTINATIONS

NOTE.—All figures in long tons (2,240 pounds). Products covered are those listed in Table 750

Country	1927	1928	1929	Country	1927	1928	1929
Belgium	6,609	14,079	2,689	Colombia	59,080	64,843	41,016
France	4,586	9,115	18,104	Ecuador	1,829	3,296	3,844
Germany	10,794	22,628	21,991	Peru	32,207	26,543	35,674
Italy	41,833	90,011	111,857	Uruguay	11,393	9,038	11,112
Netherlands	12,099	2,332	3,094	Venezuela	45,667	80,499	67,851
Norway	4,167	4,378	5,293	India and Ceylon	28,497	25,509	21,661
Spain	3,578	1,483	13,948	British Malaya	8,444	6,457	8,174
United Kingdom	66,915	54,069	66,371	China	53,843	92,837	69,246
Canada	832,218	1,178,063	1,234,861	Netherland East Indies	35,258	40,726	61,115
Central America	45,361	43,852	52,943	Hong Kong	3,951	5,515	7,131
Mexico	81,747	83,116	104,913	Japan	278,206	411,754	426,974
British West Indies	12,384	7,651	18,049	Kwantung	19,293	14,021	11,709
Cuba	92,486	65,205	67,882	Philippine Islands	63,343	84,217	103,180
Dominican Republic	9,930	6,722	4,887	Australia	26,670	19,633	22,101
Argentina	82,380	98,443	94,280	New Zealand	1,291	2,305	5,271
Brazil	70,633	83,900	71,864	British South Africa	10,403	7,419	8,131
Chile	44,641	69,875	67,941	All other	81,355	135,569	172,700

Source of Tables 750 and 751: Bureau of Foreign and Domestic Commerce, Department of Commerce.

No. 752.—IRON AND STEEL: Average Annual Prices

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

Year	Pig iron				Rails at mills in Pennsylvania [2]	Bessemer steel billets, Pittsburgh	Soft-steel bars, Pittsburgh	Iron bars, Pittsburgh [3]	Tank plates, Pittsburgh	Beams, Pittsburgh	Composite finished steel
	Bessemer, Pittsburgh	Basic, The Valleys	Southern, No. 2, Cincinnati	Local, No. 2, Chicago [1]							
1891–1895	13.46	--------	11.74	12.80	27.27	20.89	--------	1.46	--------	--------	--------
1896–1900	14.22	--------	12.56	14.30	24.96	21.08	[4] 1.46	1.50	1.61	[4] 1.63	--------
1901	15.93	--------	13.61	15.38	27.33	24.13	1.42	1.80	1.55	1.58	--------
1902	20.67	--------	20.00	20.86	28.00	30.57	1.58	1.94	1.70	1.81	--------
1903	18.98	--------	17.08	19.25	28.00	27.91	1.56	1.77	1.61	1.62	--------
1904	13.76	--------	12.73	14.37	28.00	22.18	1.33	1.48	1.54	1.54	1.71
1905	16.36	15.25	15.57	17.65	28.00	24.03	1.48	1.87	1.58	1.62	1.76
1906	19.54	18.10	18.37	20.43	28.00	27.45	1.51	1.93	1.61	1.70	1.77
1907	22.84	20.87	23.10	24.50	28.00	29.25	1.60	1.94	1.70	1.70	1.92
1908	17.07	15.16	15.54	17.57	28.00	26.31	1.49	1.60	1.64	1.64	1.86
1909	17.41	15.48	16.12	17.49	28.00	24.62	1.33	1.62	1.42	1.42	1.63
1910	17.19	14.76	15.16	17.09	28.00	25.38	1.44	1.65	1.47	1.45	1.66
1911	15.71	13.07	13.67	14.83	28.00	21.46	1.26	1.41	1.31	1.32	1.54
1912	15.94	13.92	14.93	15.32	28.00	22.38	1.29	1.44	1.33	1.32	1.53
1913	17.13	14.71	14.90	15.85	28.00	25.79	1.55	1.69	1.50	1.50	1.66
1914	14.89	12.87	13.41	13.60	30.00	20.09	1.15	1.32	1.14	1.15	1.43
1915	15.78	13.74	13.57	14.01	30.00	22.44	1.31	1.48	1.31	1.30	1.53
1916	23.86	19.76	18.67	20.26	34.00	43.95	2.67	2.13	3.53	2.55	2.67
1917	43.64	38.90	38.95	41.31	40.00	70.96	3.64	3.83	5.88	3.67	4.19
1918	36.67	32.50	36.56	33.25	57.00	47.33	2.89	4.31	3.24	2.99	3.54
1919	31.12	27.65	32.16	29.16	49.29	40.51	2.50	4.10	2.72	2.53	3.12
1920	44.44	42.21	44.47	42.53	54.42	56.22	3.22	4.75	3.28	2.95	3.68
1921	25.34	21.74	26.68	22.93	45.69	34.46	1.87	4.47	1.93	1.94	2.53
1922	27.58	24.20	23.93	24.85	40.75	33.95	1.72	3.35	1.72	1.71	2.22
1923	28.97	25.81	27.87	28.16	43.00	41.70	2.36	3.50	2.43	2.43	2.74
1924	23.29	20.24	23.92	22.11	43.00	37.99	2.20	4.00	2.12	2.19	2.61
1925	22.33	19.59	23.74	22.09	43.00	35.23	2.02	4.52	1.91	1.99	2.47
1926	21.33	18.55	24.71	21.64	43.00	36.00	2.00	4.62	1.88	1.95	2.44
1927	20.46	17.70	21.16	19.68	43.00	33.27	1.84	4.68	1.82	1.83	2.36
1928	19.22	16.66	19.70	18.54	43.00	32.67	1.87	4.64	1.87	1.87	2.35
1929	20.54	18.19	18.51	20.00	43.00	34.66	1.92	4.13	1.93	[5] 1.92	2.39

[1] At furnace after 1907.
[2] Bessemer rails to end of 1913; open-hearth thereafter. The extra $2 per gross ton charged for many years on open-hearth rails was annulled, Oct. 22, 1921.
[3] All muck iron for 1890; subsequently, best refined.
[4] Average for years 1898–1900.
[5] Structural shapes from March 19, 1929.

No. 753.—ALUMINUM AND BAUXITE: Production, Exports, and Imports

	1913	1920	1925	1926	1927	1928	1929
BAUXITE							
Quantities, long tons, (2,240 pounds):							
Production	210,241	521,308	316,540	392,250	320,940	375,426	365,777
Georgia, Alabama, and Tennessee	40,370	40,029	20,220	20,680	17,110	14,190	14,723
Arkansas	169,871	481,279	296,320	371,570	303,830	361,236	351,054
Imports for consumption	21,456	42,895	353,696	281,644	356,580	350,111	380,812
Exports	(1)	22,257	78,633	87,770	121,858	112,984	133,551
Value of production [2] (1,000 dollars)	998	3,247	1,988	2,415	1,989	2,274	2,266
ALUMINUM							
Value, 1,000 dollars:							
Production—							
Primary metal	9,450	41,375	36,430	37,583	39,266	47,899	51,864
Secondary metal	2,199	9,489	24,816	24,868	23,470	22,848	(1)
Imports for consumption, total	4,784	13,077	10,107	16,779	14,202	8,873	10,860
Crude and semicrude	4,388	12,184	9,806	16,422	13,317	8,057	9,935
Manufactures	396	893	301	357	885	816	925
Exports, total	966	5,631	6,057	4,452	6,307	6,801	7,971
Crude and semicrude	--------	3,068	3,366	2,135	3,479	3,759	4,150
Manufactures	--------	2,563	2,691	2,317	2,829	3,133	3,822
Quantities, 1,000 pounds:							
Imports (crude and semicrude)	25,095	39,299	41,997	71,392	62,575	38,847	50,881
Exports (crude and semicrude)	(1)	9,408	12,642	7,634	14,523	15,728	17,032

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

Sources: Table 752, Iron Age and American Iron and Steel Institute; Table 753, Bureau of Mines, Department of Commerce.

No. 754.—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	1915	1920	1925	1926	1927	1928	1929
UNREFINED COPPER								
Ore produced (million short tons) [1]	28.5	43.4	36.8	53.1	57.2	56.7	62.1	(2)
Average copper yield, per cent	1.88	1.66	1.63	1.54	1.46	1.41	1.41	(2)
Smelter output from domestic ore	1,080.2	1,388.0	1,209.1	1,674.9	1,739.6	1,684.0	1,825.9	2,002.9
Mine production	1,088.2	1,488.1	1,224.6	1,678.1	1,725.2	1,650.0	1,809.8	(2)
Imports, unrefined:								
Ore (copper content)	64.2	92.1	52.0	107.6	106.7	99.3	106.2	124.6
Concentrates (copper content)	21.0	22.3	46.8	54.0	44.8	68.2	39.5	53.7
Matte and regulus (copper content)			17.6	1.7	2.1	1.4	2.6	2.1
Black, in bars, pigs, etc	[3] 259.2	[3] 193.8	244.7	379.3	443.8	438.6	543.2	646.2
REFINED COPPER PRODUCTION								
Total new and old copper	1,611.0	2,027.0	2,151.0	3,045.0	3,282.0	3,306.0	3,560.0	(2)
New copper (primary)	1,422.0	1,634.2	1,526.2	2,204.6	2,322.5	2,325.8	2,487.6	2,740.1
Domestic	1,071.9	1,387.7	1,182.4	1,682.9	1,731.3	1,719.0	1,791.8	1,982.7
Foreign	350.1	246.5	343.7	521.7	591.2	606.8	695.8	757.4
Electrolytic	1,128.3	1,360.8	1,351.7	2,050.6	2,142.0	2,125.8	2,300.9	2,542.3
Lake	221.5	236.8	153.5	138.0	172.4	195.1	179.1	185.3
Casting and best select [4]	72.3	36.6	21.0	15.9	8.1	4.8	7.6	12.5
Old copper rerefined (secondary)	189.0	392.4	624.9	840.4	959.6	980.4	1,072.8	(2)
REFINED COPPER CONSUMPTION								
New copper produced (refinery)	1,422.0	1,634.2	1,526.2	2,204.6	2,322.5	2,325.8	2,487.6	2,740.1
Refined copper imported	(3)	(3)	108.7	99.8	170.6	103.3	84.7	134.0
Refined copper exported [5]	708.3	588.8	553.1	1,022.3	900.9	981.1	1,020.8	903.5
Stocks, Dec. 31 (refined)	122.8	82.4	659.0	124.0	146.0	171.0	114.0	306.0
Withdrawn on domestic account:								
New refined copper	732.4	1,136.6	1,053.8	1,401.0	1,570.1	1,423.0	1,608.5	1,778.6
New and old copper [6]	921.0	1,529.0	1,679.0	2,241.0	2,530.0	2,403.0	2,681.3	(2)

[1] 2,000 pounds.
[2] Not available.
[3] Imports of refined copper in ingots, bars, or other forms included in imports of unrefined.
[4] Includes pig for years 1915 and 1920.
[5] Includes small exports of unrefined black blister and converter copper (bars, pigs, etc.) prior to 1925.
[6] Total from preceding line plus production of secondary copper as given above.

No. 755.—COPPER: Smelter Production by State of Origin of Ore Smelted

[Quantities in thousands of pounds]

State of origin	1900	1910	1915	1920	1925	1927	1928	1929
Total	606,117	1,080,160	1,388,010	1,209,061	1,674,870	1,684,04	1,825,900	2,002,863
Alaska	----------	4,311	70,695	66,094	72,204	56,489	40,542	39,868
Arizona	118,318	297,251	432,468	552,989	722,653	681,168	735,632	829,207
California	28,511	45,760	37,658	11,822	46,944	25,803	24,708	33,084
Colorado	7,827	9,307	7,272	4,283	3,163	8,007	10,262	10,520
Idaho	290	6,878	6,218	1,922	3,144	1,811	2,337	6,268
Michigan	145,461	221,463	238,956	153,484	138,030	195,135	179,104	185,301
Missouri	----------	----------	306	533	12	5	1	2
Montana	270,754	283,079	268,263	177,744	270,605	225,209	251,046	299,895
Nevada	408	64,495	67,757	55,580	77,138	118,298	159,333	138,990
New Mexico	4,169	3,785	62,817	52,160	76,467	79,761	92,777	100,165
Oregon	----------	22	797	2,529	126	485	375	739
Pennsylvania	----------	741	----------	618	562	2,149	5,014	3,581
Tennessee	----------	16,692	18,205	16,728	19,789	14,499	16,374	(1)
Utah	18,355	125,185	175,178	110,358	242,731	267,706	298,375	325,965
Washington	----------	65	904	2,126	1,185	1,767	1,197	1,569
Undistributed	12,024	1,127	514	92	117	5,749	8,821	27,709

[1] Included under "Undistributed."

Source of Tables 754 and 755: Bureau of Mines, Department of Commerce.

No. 756.—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 754

[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	1908	943	124,419	1,138	943	195	--------
1860	16	3,709	1909	1,093	142,084	1,391	1,093	298	--------
1870	28	5,997	1910	1,080	137,180	1,422	1,072	350	189
1871–1875	34	8,895	1911	1,097	137,154	1,434	1,097	337	214
1876–1880	50	9,679	1912	1,243	205,139	1,568	1,243	325	273
1881–1885	118	17,236	1913	1,224	189,795	1,615	1,237	378	276
1886–1890	226	30,345	1914	1,150	152,968	1,534	1,150	384	252
1891–1895	339	37,266	1915	1,388	242,902	1,634	1,388	247	395
1896–1900	531	74,424	1916	1,928	474,288	2,259	1,928	331	700
1901–1905	732	103,859	1917	1,886	514,911	2,428	1,886	542	767
1906–1910	980	150,924	1918	1,909	471,408	2,432	1,883	549	705
1911–1915	1,221	185,592	1919	1,286	239,274	1,805	1,433	372	574
1916–1920	1,644	395,270	1920	1,209	222,467	1,526	1,182	344	625
1921–1925	1,240	171,275	1921	506	65,221	951	609	341	435
			1922	950	128,289	1,256	905	351	672
1901	602	100,546	1923	1,435	210,945	1,980	1,464	516	822
1902	660	80,460	1924	1,634	214,087	2,260	1,674	586	777
1903	698	95,632	1925	1,675	237,832	2,205	1,683	522	840
1904	813	104,005	1926	1,740	243,547	2,322	1,731	591	960
1905	889	138,650	1927	1,684	220,609	2,326	1,719	607	980
			1928	1,826	262,930	2,488	1,792	696	1,073
1906	918	177,136	1929	2,003	352,504	2,740	1,983	757	(2)
1907	869	173,799							

[1] Includes refined copper imported from 1908 to 1919, inclusive.
[2] Not available.

Source: Bureau of Mines, Department of Commerce.

No. 757.—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	1921	314,402	97,898	175,236	45,785
1896–1900 [1]	137,684	36,745	24,634	5,866	1922	368,428	103,874	270,507	66,829
1901–1905 [1]	190,451	54,942	83,237	22,611	1923	412,375	129,220	338,236	95,988
1906–1910 [1]	289,445	92,334	130,111	38,026	1924	556,106	156,646	384,408	96,184
1911–1915 [1]	416,840	123,655	176,635	46,129	1925	540,376	161,166	326,486	84,270
1916–1920 [2]	376,877	208,909	244,948	103,805	1926	482,843	141,204	389,721	99,742
1921–1925	438,337	129,761	298,975	77,811	1927	538,365	150,214	359,161	84,963
1919	258,314	130,790	214,694	86,271	1928	562,510	169,831	393,537	98,187
1920	312,027	141,717	242,835	90,019	1929	499,237	183,367	487,156	153,710

[1] Fiscal years ended June 30.
[2] Average for period July 1, 1915, to Dec. 31, 1920.

Source: Bureau of Foreign and Domestic Commerce.

No. 758.—REFINED PRIMARY LEAD AND SECONDARY LEAD

NOTE.—Production in short tons (2,000 pounds); values except price per pound in thousands of dollars. This table, except the column for secondary lead, relates to new (primary) lead only; the totals include lead derived from both domestic (including Alaska) and foreign ore. General production figures and production of desilverized lead do not include antimonial lead, shown in next to the last column. This table represents exclusively refined lead, while in Table 759 part of the lead from domestic ore is unrefined

Year	Production	Value	Year	Production	Value	Year	Production	Value
1830	8,000	608	1896	257,487	15,449	1913	462,460	40,696
1840	17,000	1,666	1897	282,169	20,316	1914	542,122	42,286
1850	22,000	2,112	1898	302,148	22,963	1915	550,055	51,705
1860	15,600	1,778	1899	298,047	26,824	1916	571,134	78,817
1870	17,830	2,247	1900	367,773	32,364	1917	610,769	105,052
1880	95,725	9,573	1901	371,032	30,909	1918	640,195	90,908
1885	126,192	10,095	1902	367,892	30,167	1919	482,220	51,115
1886	132,189	12,161	1903	368,930	30,991	1920	529,657	84,745
1887	156,630	14,097	1904	393,452	33,837	1921	448,589	40,373
1888	176,015	15,489	1905	388,307	36,501	1922	532,662	58,593
1889	178,357	13,912	1906	404,746	46,141	1923	618,322	86,565
1890	157,844	14,206	1907	413,389	43,819	1924	690,493	110,479
1891	198,363	17,059	1908	396,564	33,311	1925	766,969	133,453
1892	208,223	17,074	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

Year	Class		Source			Average value per pound	Antimonial lead, total production	Secondary lead recovered, total
	Desilverized [1]	Soft	Domestic ores and bullion [2]	Foreign ores	Foreign base bullion			
1870		17,830	17,830			$0.063		
1880	68,035	27,690	95,725			.050	2,100	
1885	104,217	21,975	126,192			.040	3,220	
1890	126,493	31,351	139,720	18,124		.045	3,910	
1895	195,932	39,890	159,649	76,173		.032	6,060	
1900	319,752	48,021	260,918	106,855		.044	9,906	
1905	302,852	85,455	307,514	80,793		.047	10,995	
1910	328,954	141,318	375,402	18,065	76,805	.044	14,069	55,422
1915	388,594	161,461	507,026	9,581	33,448	.047	23,224	78,900
1920	339,803	189,854	476,849	8,414	44,394	.080	12,535	124,650
1925	506,409	260,560	654,921	47,024	65,024	.087	19,667	226,880
1927	562,586	233,944	668,320	32,369	95,841	.063	24,347	276,000
1928	556,068	225,003	626,202	26,632	128,237	.058	33,058	308,600
1929	539,288	235,345	672,498	29,675	72,460	.063	25,669	(3)

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

No. 759.—SOURCES OF PRIMARY LEAD SMELTED OR REFINED IN THE UNITED STATES

[Production in short tons (2,000 pounds). See note to Table 758]

Source of ore	1910	1915	1920	1925	1926	1927	1928	1929
Total	494,081	580,041	547,155	798,499	814,086	812,545	797,566	788,127
From domestic ore	389,211	537,012	494,347	686,451	695,830	684,165	642,697	685,992
Arizona	948	6,953	5,987	10,281	10,646	7,918	8,144	8,153
Colorado	38,542	32,352	17,752	31,855	37,553	37,040	28,683	23,675
Idaho	109,951	160,680	117,191	123,363	132,564	150,618	141,748	147,595
Kansas	1,308	1,320	8,421	15,001	20,884	[1] 25,463	[1] 27,014	[1] 27,652
Missouri	161,659	195,634	171,999	208,547	218,083	210,366	192,789	211,345
Montana	1,943	4,853	13,231	22,008	26,350	23,041	20,470	26,795
Nevada	2,246	7,664	8,650	10,978	11,379	8,680	6,823	13,256
Oklahoma	1,805	4,346	68,494	78,487	70,004	[1] 47,857	[1] 46,692	[1] 44,105
Utah	60,605	106,105	64,006	166,844	151,127	155,199	151,724	157,085
Wisconsin	3,909	2,632	3,841	2,889	2,052	2,067	1,812	1,729
Undistributed	4,058	9,911	10,409	14,657	14,683	14,011	16,696	22,699
Zinc residues	2,237	4,562	4,366	1,541	505	1,905	102	1,903
From foreign ore [2]	18,065	9,581	8,414	47,024	48,210	32,539	26,632	29,675
Africa	3,310		1,171		6	12		
Canada	25	1,174	1,186	10,676	5,385	4,138	10,123	9,499
Mexico	11,704	5,437	2,729	31,107	32,693	22,844	14,839	16,807
South America	2,996	2,829	2,747	4,496	9,893	5,506	1,568	3,285
From foreign base bullion [2]	76,805	33,448	44,394	65,024	70,046	95,841	128,237	72,460
Mexico	76,805	33,173	42,421	65,024	70,046	95,841	117,193	51,295
Peru							11,044	21,165

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

Source of Tables 758 and 759: Bureau of Mines, Department of Commerce.

No. 760.—SUPPLY AND DISTRIBUTION OF REFINED PRIMARY LEAD

NOTE.—All data in short tons (2,000 pounds). Apparent consumption is only approximate, as no account is taken of changes in stocks outside of bonded warehouses

	1910	1915	1920	1925	1926	1927	1928	1929
Supply, total	473,836	550,467	565,610	779,035	818,255	809,708	791,197	780,430
Stock in bonded warehouses Jan. 1	79	2	234	5,045	8,162	10,711	9,464	4,139
Imports of pigs, bars, and old	3,485	410	35,719	7,021	11,152	2,467	662	1,658
Production from domestic and foreign ore	470,272	550,055	529,657	766,969	798,941	796,530	781,071	774,633
Deductions, total	78,661	130,907	27,590	123,380	100,602	146,735	133,632	87,665
Exports of foreign lead:								
From warehouses [1]	69,786	38,618	17,363	98,564	67,660	122,734	102,067	53,993
In manufactures with benefit of drawback	8,800	3,983	6,175	11,699	17,955	12,004	13,224	13,086
Exports of domestic lead	----------	88,306	2,730	4,955	4,276	2,533	14,202	19,258
Stock in bonded warehouses Dec. 31	75	----------	1,322	8,162	10,711	9,464	4,139	1,328
Apparent consumption	395,175	419,560	538,020	655,655	717,653	662,973	667,565	692,765

[1] Includes exports of pigs, bars, etc., produced from foreign ore and reexports of foreign lead imported in the form of pigs and bars.

Source: Bureau of Mines, Department of Commerce.

No. 761.—MANUFACTURES OF NONFERROUS METALS AND ALLOYS,[1] 1927

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: Babbitt metal, type metal, and solder; brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper, not specifically classified; lead bar, pipe, and sheet; and smelting and refining, metals other than gold silver, or platinum, not from the ore

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

Kind	1927	
	Quantity	Value
Ingots and pigs:		
Copper (secondary)	33,674	4,254
Lead (secondary)	217,925	14,774
Zinc (secondary)	99,627	5,980
Brass and bronze	249,664	29,504
Babbitt	77,091	17,467
Solders, of all kinds	97,700	29,858
Type metal	74,269	7,341
Plates and sheets:		
Brass and bronze	329,573	60,768
Copper	185,205	39,232
Lead	52,591	4,807
Nickel and nickel alloys	----------	12,583
Rods and bars:		
Brass and bronze	183,361	28,241
Copper	220,110	32,476
Nickel and nickel alloys	----------	3,985
Tubing (seamless) and pipe:		
Brass and bronze	124,589	25,910
Copper	72,329	17,852
Lead	87,669	8,292
Nickel and nickel alloys	----------	545
Tubing, brazed (practically all brass)	12,297	3,354
Wire, bare: [2]		
Brass and bronze	64,759	13,283
Copper	159,765	25,366

Kind	1927	
	Quantity	Value
Castings, rough:		
Brass and bronze—		
Weight reported	307,704	59,330
Weight not reported	----------	6,952
Copper	4,511	1,313
Nickel and nickel alloys	----------	1,772
Finished products:		
Castings, finished, brass and bronze	----------	16,321
Bearings and bushings, brass and bronze (including Babbitt-lined bearings)	----------	18,513
Die castings, total	----------	20,060
Aluminum and zinc base alloys	----------	19,266
Brass and bronze	----------	794
Extruded shapes, total	----------	2,788
Brass and bronze	----------	2,611
Copper	----------	177
Forgings and hot-pressed parts, brass	----------	4,214
Ornamental grilles and railings, brass and bronze	----------	6,813
Bells	----------	820

[1] This table does not include data for establishments engaged in smelting and refining ores containing copper, lead, zinc, and other nonferrous metals.
[2] Does not include wire made by establishments engaged primarily in the drawing of wire.

Source: Bureau of the Census, Department of Commerce.

No. 762.—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	1915	1920	1925	1926	1927	1928	1929 [1]
Mine production (recoverable zinc content of ore)	327,618	587,595	587,524	710,847	774,563	718,541	695,170	731,300
Colorado	38,545	52,297	24,395	30,811	32,500	35,865	35,731	29,700
Idaho	2,802	35,077	13,966	15,619	26,307	26,778	31,263	45,675
Kansas	13,229	14,365	61,073	118,778	126,307	109,427	107,251	109,850
Missouri	128,589	136,300	24,509	14,794	26,018	18,737	12,974	11,017
Montana	15,819	93,573	92,169	57,658	73,701	80,231	82,830	84,800
Nevada	1,354	12,188	5,349	7,411	5,409	3,172	3,398	8,465
New Jersey	68,584	117,722	78,511	89,261	80,629	95,695	99,871	103,740
New Mexico	9,044	12,702	5,007	9,246	12,052	29,802	31,203	34,000
New York	--------	2,455	5,654	5,158	5,041	3,750	11,257	10,250
Oklahoma	6,394	14,314	219,727	283,371	272,567	206,611	180,252	192,042
Tennessee	966	16,461	19,217	16,256	12,098	10,400	[2] 32,917	[2] 40,558
Utah	8,184	12,146	4,079	26,306	47,590	49,593	46,929	50,200
Wisconsin	25,927	41,403	27,285	20,230	26,800	32,841	18,417	16,986
Other States	8,181	26,592	6,583	15,948	27,544	15,639	877	--------
Smelter production	310,407	542,419	506,227	634,376	682,992	657,316	673,281	--------
Primary zinc	269,184	489,519	463,377	572,946	618,422	592,516	602,581	624,520
From domestic ore	252,479	458,135	450,045	555,631	611,991	576,960	591,525	611,209
From foreign ore	16,705	31,384	13,332	17,315	6,431	15,556	11,056	13,311
Secondary zinc	41,223	52,900	42,850	61,430	64,570	64,800	70,700	--------
Redistilled	12,784	29,764	21,371	39,181	40,799	42,784	48,666	47,343
Remelted	28,439	23,136	21,479	22,249	23,771	22,016	22,034	--------
Value of primary product from domestic ore ($1,000)	27,268	113,617	72,907	84,456	91,799	73,851	72,166	80,680
Primary zinc consumed:								
Supply, total	282,350	510,518	508,347	593,724	631,524	619,512	656,106	673,178
Stock, Jan. 1	11,206	20,095	36,793	20,754	13,080	26,937	53,522	48,432
Produced	269,184	489,519	463,377	572,946	618,422	592,516	602,581	624,520
Imported	1,960	904	8,177	24	22	59	3	226
Deductions:								
Exports, total	13,234	131,410	114,267	80,547	47,561	49,617	29,614	19,676
Stock, Dec. 31	23,232	14,253	71,037	13,080	26,937	53,522	48,432	89,453
Apparent domestic consumption	245,884	364,855	323,043	500,097	557,026	516,373	578,060	564,049

[1] Total mine production figures and data for some States are preliminary; data for other States are not yet available.
[2] Includes Virginia.

Source: Bureau of Mines, Department of Commerce.

No. 763.—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	1920	450,045	72,907
1880 [3]	23,239	2,277	1911	271,621	30,965	1921	198,232	19,823
1885	40,688	3,540	1912	323,907	44,699	1922	353,274	40,273
1886–1890	54,285	5,219	1913	337,252	37,772	1923	508,335	69,134
1891–1895	82,396	6,787	1914	343,418	35,029	1924	515,831	67,058
1896–1900	109,963	10,180	1915	458,135	113,617	1925	555,631	84,456
1901–1905	169,504	17,067	1916	564,338	151,243	1926	611,991	91,799
1906–1910	219,378	24,165	1917	584,597	119,258	1927	576,960	73,851
1911–1915	346,867	52,416	1918	492,405	89,618	1928	591,525	72,166
1916–1920	508,731	99,812	1919	452,272	66,032	1929	611,209	80,680

[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 Commerce.

No. 764.—GOLD AND SILVER: PRODUCTION FROM MINES IN CONTINENTAL UNITED STATES, ALASKA, AND PHILIPPINE ISLANDS

NOTE.—The value of gold, in terms of money, being unchanging at $20.67+ per fine ounce, is not shown in the table. The value of silver given is commercial value (Pittman Act value for 1921 to June, 1923), which at times 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 or period	Gold, 1,000 fine ounces	Silver, 1,000 fine ounces	Silver, value, 1,000 dollars
1792–1847	1,187	310	405	1901	3,806	55,214	33,128
1848–1850	4,838	116	152	1902	3,870	55,500	29,415
1851–1855	14,271	194	259	1903	3,560	54,300	29,322
1856–1860	12,384	309	418	1904	3,892	57,683	33,456
1861–1865	10,716	28,811	38,674	1905	4,266	56,102	34,222
1866–1870	12,226	49,113	65,261	1906	4,565	56,518	38,256
1871–1875	8,826	121,083	156,270	1907	4,375	56,515	37,300
1876–1880	10,301	157,681	182,506	1908	4,574	52,441	28,051
1881–1885	7,730	182,841	202,807	1909	4,822	54,722	28,455
1886–1890	8,078	231,819	227,495	1910	4,657	57,138	30,855
1891–1895	9,107	287,057	227,960	1911	4,687	60,399	32,616
1896–1900	15,729	279,544	172,689	1912	4,521	63,767	39,198
1901–1905	19,394	278,798	159,543	1913	4,300	66,802	40,348
1906–1910	22,993	277,333	162,916	1914	4,573	72,455	40,068
1911–1915	22,968	338,384	189,626	1915	4,888	74,961	37,397
1916–1920	17,246	326,009	298,852	1916	4,479	74,415	48,953
1921–1925	12,194	313,757	258,862	1917	4,051	71,740	59,078
1886	1,687	39,694	39,482	1918	3,321	67,810	66,485
1887	1,603	41,722	40,887	1919	2,919	56,682	63,534
1888	1,604	45,793	43,045	1920	2,476	55,362	60,802
1889	1,595	50,095	46,838	1921	2,422	53,052	[1] 53,052
1890	1,589	54,516	57,242	1922	2,363	56,240	[1] 56,240
1891	1,605	58,330	57,630	1923	2,503	73,335	[1] 60,135
1892	1,597	63,500	55,663	1924	2,529	65,407	43,823
1893	1,739	60,000	46,800	1925	2,412	66,155	45,912
1894	1,911	49,500	31,422	1926	2,335	62,719	39,136
1895	2,255	55,727	36,446	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]	2,128	60,938	32,541
1898	3,118	54,438	32,118				
1899	3,437	54,765	32,859				
1900	3,830	57,647	35,741				

State or Territory	Gold, 1,000 fine ounces					Silver, 1,000 fine ounces					Silver, value, 1929, [2] 1,000 dollars
	1910	1920	1925	1928	1929 [2]	1910	1920	1925	1928	1929 [2]	
Total	4,657	2,476	2,412	2,233	2,128	57,138	55,362	66,155	58,463	60,938	32,541
Alaska	787	413	301	331	377	154	822	766	487	459	245
Arizona	165	240	204	190	153	2,656	5,432	7,371	6,565	6,037	3,224
California	989	716	642	513	402	1,792	1,655	3,240	1,467	1,049	560
Colorado	993	363	357	259	216	8,523	5,167	4,435	4,384	4,359	2,328
Idaho	50	23	20	20	20	7,027	7,365	7,663	8,950	9,394	5,016
Michigan	-----	-----	-----	-----	-----	262	512	136	19	18	10
Montana	180	92	84	60	55	12,283	13,263	12,597	10,681	12,650	6,755
Nevada	913	175	180	178	158	12,366	7,482	6,847	5,313	4,530	2,419
New Mexico	23	22	30	35	33	779	700	800	925	999	533
Oregon	33	50	19	12	17	44	102	35	32	36	19
South Dakota	260	210	288	318	309	121	88	98	92	84	45
Texas	(3)	(3)	-----	1	1	364	523	555	1,395	1,053	562
Utah	209	103	181	211	243	10,446	11,755	21,241	17,749	19,908	10,631
Washington	39	7	11	16	4	205	178	166	104	45	24
Philippine Islands	7	62	92	89	139	2	22	49	37	88	47
Other	8	(3)	3	2	2	115	296	156	263	229	122

[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] Preliminary estimate.
[3] Less than 500 ounces.

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

No. 765.—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	9,398	12,898	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	3,500	31,198	34,698	8,106	42,803	77	23,438	23,516	6,928	30,444
1916-1920	3,500	40,292	43,792	19,026	62,818	77	22,011	22,089	9,126	31,214
1921-1925	3,500	31,192	34,692	27,631	62,323	77	28,538	28,616	8,189	36,805
1920	3,500	50,510	54,010	28,205	82,215	77	19,203	19,280	8,694	27,975
1921	3,500	19,550	23,050	27,624	50,674	77	28,766	28,844	7,024	35,868
1922	3,500	32,822	36,322	23,484	59,806	77	31,209	31,287	6,624	37,910
1923	3,500	36,513	40,013	29,279	69,292	77	28,278	28,355	8,470	36,825
1924	3,500	34,413	37,913	27,975	65,888	77	24,587	24,664	8,931	33,595
1925	3,500	32,662	36,162	29,792	65,954	77	29,852	29,929	9,897	39,827
1926	3,500	39,768	43,268	31,065	74,334	77	29,330	29,408	10,001	39,408
1927	3,500	29,357	32,857	26,461	59,319	77	28,416	28,493	10,155	38,649
1928	3,500	28,070	31,570	27,511	59,081	77	24,854	24,931	10,616	35,548

[1] Estimated.

No. 766.—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 throughout at par of exchange, notwithstanding the fact that from 1918 to 1924, inclusive, the pound sterling was depreciated as compared to the dollar. During this period of depreciation the commercial ratio and the value of the silver (371¼ grains) in the dollar are computed on the basis of the New York average price; for other years they are computed on the basis of the London quotations, which were at all times close to the New York quotations

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				15.89		1901	0.596	0.597	0.645	0.548	34.68	0.461
1840	1.323				15.62	1.023	1902	.528	.528	.569	.474	39.15	.408
1845	1.298				15.92	1.004	1903	.543	.542	.624	.475	38.10	.420
1850	1.316				15.70	1.018	1904	.579	.578	.625	.534	35.70	.448
1855	1.344				15.38	1.039	1905	.610	.610	.665	.556	33.87	.472
1860	1.352				15.29	1.045	1906	677	.674	.724	.631	30.54	.524
1865	1.338				15.44	1.035	1907	.662	.660	.710	.528	31.24	.512
1870	1.328				15.57	1.027	1908	.535	.535	.589	.483	38.64	.414
1875	1.242	1.239	1.261	1.210	16.64	.961	1909	.520	.522	.545	.508	39.74	.402
1880	1.145	1.139	1.150	1.113	18.05	.886	1910	.541	.542	.576	.508	38.22	.418
1883	1.109	1.087	1.118	1.095	18.64	.858	1911	.539	.540	.575	.521	38.33	.417
1884	1.111	1.112	1.133	1.080	18.61	.859	1912	.615	.620	.656	.553	33.62	.475
1885	1.065	1.064	1.095	1.028	19.41	.824	1913	.605	.612	.651	.580	34.19	.468
1886	.995	.999	1.035	.925	20.78	.769	1914	.553	.563	.609	.490	37.37	.428
1887	.979	.979	1.035	.950	21.10	.758	1915	.519	.511	.580	.478	39.84	.401
1888	.940	.943	.978	.920	22.00	.727	1916	.686	.672	.791	.573	30.11	.531
1889	.935	.936	.973	.925	22.10	.723	1917	.895	.840	1.165	.731	23.09	.692
1890	1.046	1.053	1.205	.958	19.75	.809	1918	1.042	.984	1.025	.894	21.00	.761
1891	.988	.990	1.075	.948	20.92	.764	1919	1.250	1.121	1.388	1.018	18.44	.867
1892	.871	.876	.953	.830	23.72	.674	1920	1.346	1.019	1.368	.608	20.27	.788
1893	.780	.782	.850	.650	26.49	.604	1921	.805	.631	.738	.532	32.75	.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	29.38	.537
1898	.590	.591	.623	.551	35.03	.456	1926	.629	.624	.689	.518	32.88	.483
1899	.602	.605	.648	.586	34.36	.465	1927	.571	.567	.603	.542	36.22	.438
1900	.620	.621	.658	.598	33.33	.480	1928	.586	.585	.639	.568	35.26	.452

Source: Tables 765 and 766: Annual Reports of the Director of the Mint, Treasury Department.

No. 767.—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	1908	415,843	33,269	382,574	158,179	374,135
1831–1840	1,032	722	310	1909	460,815	81,070	379,744	149,182	406,487
1841–1850	4,535	2,697	1,837	1910	501,596	84,485	417,111	160,275	469,282
1851–1860	12,513	7,645	4,868	1911	496,371	90,464	405,907	175,189	451,376
1861–1865	20,538	11,142	9,396	1912	534,467	84,362	450,105	177,623	517,983
1866–1870	31,706	16,281	15,425	1913	569,960	91,525	478,435	195,181	565,235
1871–1875	52,179	23,407	28,773	1914	513,525	90,822	422,704	188,181	493,309
1876–1880	62,261	25,800	36,461	1915	531,619	88,995	442,624	184,653	502,038
1881–1885	107,291	36,198	71,093	1916	590,098	87,578	502,520	202,010	665,116
1886–1890	138,398	43,952	94,446	1917	651,402	99,612	551,791	283,651	1,249,273
1891–1895	178,822	53,405	125,416	1918	678,212	98,826	579,386	336,480	1,491,810
1896–1900	227,123	55,625	171,498	1919 [1]	553,952	88,092	465,860	364,927	1,160,616
1901–1905	339,357	66,854	272,503	1920	658,265	89,598	568,667	434,252	2,129,933
1906–1910	454,555	81,142	373,413	1921 [1]	506,395	90,473	415,922	452,305	1,199,984
1911–1915	529,189	89,233	439,955	1922	476,951	54,683	422,268	273,700	1,274,820
1916–1920	626,386	92,741	533,645	1923	657,904	93,339	564,565	506,787	1,514,621
1921–1925	558,947	77,648	481,299	1924 [1]	571,613	87,927	483,687	477,231	1,062,626
1903	357,356	74,607	282,749	1925 [1]	581,870	61,817	520,053	327,665	1,060,402
1904	351,816	73,157	278,660	1926 [1]	657,804	84,437	573,367	474,164	1,183,412
1905	392,723	77,660	315,063	1927 [1]	597,859	80,096	517,763	420,942	1,029,657
1906	414,157	71,282	342,875	1928 [1]	576,093	75,348	500,745	393,638	933,774
1907	480,363	85,604	394,759	1929 [2]	608,992	76,640	532,352	393,500	990,175

State	1890	1900	1911–1915	1916–1920	1921–1925	1926 [1]	1927 [1]	1928 [1]	1929 [2]
Total quantity	157,771	269,684	529,189	626,386	558,947	657,804	597,859	576,093	608,992
Anthracite (Pa.)	46,469	57,368	89,233	92,741	77,648	84,837	80,096	75,348	76,640
Bituminous	111,302	212,316	439,956	533,645	481,299	573,367	517,763	500,745	532,352
Alabama	4,090	8,394	15,864	17,834	18,097	21,001	19,766	17,621	17,690
Arkansas	400	1,448	1,986	1,980	1,261	1,459	1,549	1,661	1,860
Colorado	3,077	5,244	9,433	11,595	10,049	10,637	9,724	9,348	9,890
Illinois	15,292	25,768	58,320	78,255	68,523	69,367	46,848	55,948	60,035
Indiana	3,306	6,484	16,060	25,515	21,677	23,186	17,936	16,379	17,970
Iowa	4,022	5,203	7,442	7,571	4,952	4,625	2,950	3,684	4,130
Kansas	2,260	4,468	6,811	6,556	3,827	4,416	3,444	2,810	3,640
Kentucky	2,701	5,329	18,380	30,108	43,743	62,924	69,124	61,860	60,575
Maryland	3,358	4,025	4,549	4,158	2,033	3,078	2,815	2,687	2,660
Michigan	75	849	1,271	1,301	976	687	757	617	770
Missouri	2,735	3,540	4,048	5,086	3,011	3,008	3,064	3,733	3,860
Montana	517	1,662	2,972	4,008	2,881	2,798	3,144	3,324	3,183
New Mexico	376	1,299	3,618	3,728	2,772	2,818	2,936	2,712	2,640
North Dakota	30	130	506	787	1,221	1,370	1,528	1,650	1,960
Ohio	11,495	18,988	28,553	40,609	31,590	27,872	15,800	15,641	23,712
Oklahoma	869	1,922	3,720	4,292	2,741	2,843	3,818	3,501	3,484
Pennsylvania	42,302	79,842	157,229	168,532	133,721	153,042	132,965	131,202	142,400
Tennessee	2,170	3,510	6,288	6,208	5,078	5,789	5,783	5,611	5,750
Texas	184	968	2,201	1,980	1,084	1,091	1,326	1,182	1,060
Utah	318	1,147	2,999	4,693	4,593	4,374	4,781	4,843	5,250
Virginia	784	2,394	7,924	10,158	10,648	14,133	12,916	11,901	13,138
Washington	1,264	2,474	3,261	3,576	2,626	2,587	2,635	2,520	2,530
West Virginia	7,395	22,647	69,353	86,369	97,044	143,509	145,122	132,952	138,015
Wyoming	1,870	4,015	6,907	8,555	6,812	6,512	6,754	6,572	6,600
Miscellaneous	412	565	259	190	239	239	279	286	170

[1] Exclusive of product of wagon mines. [2] Preliminary.

Source: Bureau of Mines, Department of Commerce.

No. 768.—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 [2]	9,126	28,216	1,970	9,722	7,156	18,494	1,857	4,431	[3] 5,110	[3] 16,111
1907 [2]	11,294	34,728	2,482	12,155	8,812	22,573	1,713	4,263	[3] 4,460	[3] 14,179
1908 [2]	12,723	39,356	2,838	13,837	9,885	25,518	2,006	5,231	[3] 5,887	[3] 19,979
1909 [2]	11,889	37,317	2,870	14,275	9,019	23,041	1,232	3,519	6,004	19,672
1910	13,806	41,471	3,022	14,785	10,784	26,685	1,992	5,381	[2] 6,336	[2] 20,350
1911	17,433	52,593	3,554	18,093	13,879	34,500	1,241	3,623	[2] 6,507	[2] 20,974
1912	18,149	56.243	3,689	19,425	14,460	36,818	1,610	4,518	[2] 7,092	[2] 22,804
1913	22,141	67,410	4,154	21,960	17,987	45,450	1,415	3,803	[2] 7,350	[2] 23,690
1914	17,632	54,316	3,830	20,211	13,802	34,105	1,395	3,928	[2] 7,812	[2] 25,571
1915	20,305	61,246	3,540	18,429	16,765	42,817	1,524	4,413	[2] 7,063	[2] 23,084
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	2,838	31,761	15,591	68,403	879	5,846	4,344	23,398
1926	35,091	196,905	3,598	41,086	31,493	155,819	1,201	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	3,941	32,569	15,562	65,742	877	5,486	3,827	19,575

[1] Does not include fuel or bunker coal laden on vessels engaged in the foreign trade.
[2] Fiscal years ended June 30. [3] Figures do not include coal laden on vessels on the Great Lakes.

No. 769.—COAL: Shipments, Average Value per Ton, and Men Employed

Calendar year	Thousand tons (2,000 pounds)				Average value per ton	Men employed	Average number of days worked	Average tonnage per man—		Per cent mined by machine	Calculated capacity, at 280 days (million tons [1])
	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	(2)	(2)
1895	52,093	1,315	4,591	--------	1.41	142,917	196	2.07	406	(2)	(2)
1900	50,710	1,208	5,550	--------	1.49	144,206	166	2.40	398	(2)	(2)
1905	60,053	1,571	7,036	--------	1.83	165,406	215	2.18	470	(2)	(2)
1910	73,623	2,021	8,841	--------	1.90	169,497	229	2.17	498	(2)	(2)
1915	76,906	2,092	9,997	--------	2.07	176,552	230	2.19	504	1.5	(2)
1920	76,844	2,897	9,858	--------	4.85	145,074	271	2.28	618	1.1	(2)
1924	77,247	3,044	7,635	--------	5.43	160,009	274	2.00	550	1.7	(2)
1925	53,768	2,885	5,164	--------	5.30	160,312	182	2.12	386	1.6	(2)
1926	75,319	2,687	6,431	--------	5.62	165,386	244	2.09	511	1.1	(2)
1927	70,495	3,047	6,554	--------	5.26	165,259	225	2.15	485	1.5	(2)
1928	66,488	3,185	5,676	--------	5.22	160,681	217	2.17	469	1.8	(2)
BITUMINOUS											
1890	87,373	7,008	1,607	15,332	.99	192,204	226	2.56	579	[3] 5.3	137
1895	106,287	8,340	2,086	18,404	.86	230,962	194	2.90	563	[4] 11.9	196
1900	173,072	7,868	3,740	27,635	1.04	304,375	234	2.98	697	24.9	255
1905	255,201	10,639	7,007	42,412	1.06	460,629	211	3.24	684	32.3	417
1910	342,969	12,287	9,668	52,187	1.12	555,533	217	3.46	751	41.7	538
1915	379,877	12,354	9,799	40,595	1.13	557,456	203	3.91	794	55.0	610
1920	504,873	21,289	11,896	30,608	3.75	639,547	220	4.00	881	59.8	725
1924	441,566	21,111	6,618	14,392	2.20	619,604	171	4.56	780	69.5	792
1925	477,173	21,351	5,776	15,753	2.04	588,493	195	4.52	884	70.6	748
1926	526,286	23,602	5,728	17,751	2.06	593,647	215	4.50	966	71.7	747
1927	480,223	21,890	4,930	10,720	1.99	593,918	191	4.55	872	72.2	759
1928	467,348	21,990	4,602	6,805	1.86	522,150	203	4.73	959	73.8	691

[1] Of 2,000 pounds. [2] Not available. [3] 1891. [4] 1896.

Sources: Table 768, Bureau of Foreign and Domestic Commerce; Table 769, Bureau of Mines, Department of Commerce.

No. 770.—CONSUMPTION OF BITUMINOUS COAL: By the Principal Classes of Consumers in the United States, 1889–1927

Note.—Data are partly estimated and subject to revision; complete data for 1928 are not yet available

	1889	1899	1904	1909	1914	1919	1923	1927	1928
Consumption (million net tons),[1] total	95.8	190.3	273.2	370.3	408.3	481.6	519.0	499.8	------
(a) Colliery fuel	1.4	3.1	6.3	9.5	10.4	11.1	8.8	4.9	4.6
(b) Local sales at mines, not shipped [2]	6.4	7.8	9.6	12.6	13.0	18.1	22.1	21.9	22.0
(c) Locomotive fuel, all steam roads	26.5	53.4	81.0	106.0	117.0	124.7	137.0	121.0	116.4
(d) Bunkers, vessels in foreign trade	1.9	3.8	5.5	6.8	8.2	8.2	5.0	4.6	4.3
(e) Coke ovens, beehive and by-product	16.0	30.2	36.5	59.4	51.6	65.6	84.4	74.4	77.2
(f) Iron and steel works (gas coal and steam coal)[3]	5.1	11.8	13.8	20.9	22.2	28.2	30.2	25.3	------
(g) Coal and water gas plants [4]	1.9	2.3	3.5	3.8	4.4	4.4	4.9	5.3	------
(h) Electric public utilities [5]	------	7.6	13.5	18.7	24.6	32.0	35.5	39.8	41.4
(i) General manufacturing industries [6]	36.6	70.3	103.5	78.5	88.3	104.8	107.2	104.2	------
(j) Domestic and all other [7]				54.7	69.1	84.5	83.9	98.4	------
Per cent of total consumption	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	------
(a) Colliery fuel	1.5	1.6	2.3	2.6	2.6	2.3	1.7	1.0	------
(b) Local sales at mines, not shipped	6.7	4.1	3.5	3.2	3.2	3.8	4.3	4.4	------
(c) Locomotive fuel, all steam roads	27.7	28.1	29.7	28.6	28.6	25.9	26.4	24.2	------
(d) Bunkers, vessels in foreign trade	2.0	2.0	2.0	1.9	2.0	1.7	1.0	.9	------
(e) Coke ovens, beehive and by-product	16.7	15.9	13.4	16.0	12.6	13.6	16.3	14.9	------
(f) Iron and steel works (gas coal and steam coal)	5.3	6.2	5.0	5.7	5.4	5.8	5.8	5.1	------
(g) Coal and water gas plants	2.1	1.2	1.3	1.0	1.1	.9	.9	1.1	------
(h) Electric public utilities	------	4.0	4.9	5.0	6.0	6.7	6.8	7.9	------
(i) General manufacturing industries	38.0	36.9	37.9	21.2	21.6	21.8	20.6	20.8	------
(j) Domestic and all other				14.8	16.9	17.5	16.2	19.7	------

[1] Of 2,000 pounds.
[2] Item (b) includes coal used by mine employees and sold for domestic purposes in the vicinity of the mine. It also includes an unknown amount taken by locomotive tenders at the tipple or sold to a near-by factory or power plant. It therefore involves an unknown amount of overlapping with items (c), (h), and (i). Double counting in the total is avoided by an adjustment in item (j), which is obtained by subtracting the sum of all other items from the known total.
[3] Figures include all coal used except that charged in coke ovens.
[4] Includes coal for gas making only. Excludes coal charged in by-product coke ovens operated by city gas companies, which is included under item (e).
[5] Includes electric central stations and street railways. Data not available for 1889.
[6] Excludes coal consumed in coke ovens, iron and steel works, and for gas making at coal and water-gas plants; includes consumption of railroad-car shops.
[7] Includes heating of large buildings other than factories, and also some nondomestic uses not covered elsewhere. Obtained by subtraction; see item (b) and note 2. Because of this it is affected by any errors in the other items, and there is evidence that the figure for 1919 (84.5 million tons) is too high and the figure for 1923 (83.9 million tons) too low.

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

No. 771.—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	
	Dollars		100		*Dollars*		100		*Dollars*		100	
1913[2]	7.91				7.73				5.43			
	Jan.	July	Jan.	July	Jan.	July	Jan.	July	Jan.	July	Jan.	July
1917	9.40	9.16	119	116	9.29	9.08	120	118	6.96	7.21	128	133
1918	10.03	10.07	127	127	9.88	9.96	128	129	7.68	7.92	141	146
1919	11.61	12.17	147	154	11.51	12.14	149	157	7.90	8.10	145	149
1920	12.77	14.33	161	181	12.59	14.28	163	185	8.81	10.55	162	194
1921	16.13	14.95	204	189	15.99	14.90	207	193	11.82	10.47	218	193
1922	15.02	14.92	190	189	14.98	14.87	194	192	9.89	9.49	182	175
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	------	190	------	15.33	------	198	------	9.11	------	168	------

[1] Prices represent combined averages for cities shown in Table 772.
[2] Average of prices for January and July, 1913. This is used as a base in working relative prices.
[3] Insufficient data.

Source: Bureau of Labor Statistics, Department of Labor.

No. 772.—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	1927	1928	1929	1930	1925	1926	1927	1928	1929	1930
Atlanta, Ga	------	------	------	------	------	7.32	8.47	8.67	7.93	7.97	7.80
Baltimore, Md	[2]15.75	[2]15.50	[2]15.25	[2]15.50	13.75	7.38	8.00	8.32	8.07	8.00	7.89
Birmingham, Ala	------	------	------	------	------	7.79	7.62	8.09	7.72	7.66	7.65
Boston, Mass	16.00	16.25	16.00	16.00	15.50	------	------	------	------	------	------
Bridgeport, Conn	15.38	16.00	14.88	15.00	15.50	------	------	------	------	------	------
Buffalo, N. Y	13.56	13.37	13.61	13.53	13.32	------	------	------	------	------	------
Butte, Mont	------	------	------	------	------	11.05	11.04	11.02	10.89	10.93	11.15
Charleston, S. C	[2]17.10	------	------	------	------	11.00	11.00	11.00	11.00	9.67	9.67
Chicago, Ill	16.70	16.80	16.46	16.45	16.40	8.51	9.48	9.85	9.21	[3]8.20	[3]8.53
Cincinnati, Ohio	------	------	------	------	------	7.21	7.77	7.89	7.08	[3]5.54	[3]6.30
Cleveland, Ohio	14.88	15.05	14.80	14.97	14.85	8.37	9.47	9.73	9.00	[3]7.43	[3]7.15
Columbus, Ohio	------	------	------	------	------	6.68	7.69	7.75	7.21	[3]6.09	[3]6.07
Dallas, Tex	[4]17.75	[4]16.00	[4]15.75	[4]15.50	[4]15.50	14.22	13.83	13.22	12.70	13.17	12.92
Denver, Colo	[5]16.33	[5]16.00	[5]16.00	[5]16.00	[5]14.75	9.47	10.68	10.73	10.50	10.52	10.45
Detroit, Mich	15.38	15.75	15.50	15.50	15.50	8.93	10.59	10.34	9.31	[3]8.33	[3]8.39
Fall River, Mass	15.83	16.25	16.25	16.25	16.25	------	------	------	------	------	------
Houston, Tex	------	------	------	------	------	12.38	12.75	13.50	12.80	13.20	13.60
Indianapolis, Ind	16.50	------	------	------	------	7.15	7.53	7.67	7.27	[3]6.28	[3]6.01
Jacksonville, Fla	------	------	------	------	------	12.00	14.00	14.00	14.00	12.00	14.00
Kansas City, Mo	[4]15.17	[4]14.50	[4]14.10	[4]12.60	[4]12.55	8.13	7.98	7.81	7.50	7.33	7.18
Little Rock, Ark	[4]15.00	[4]14.00	[4]13.50	[4]13.50	[4]13.50	11.00	11.27	10.80	10.60	10.25	9.95
Los Angeles, Calif	------	------	------	------	------	16.31	15.94	16.50	16.50	16.25	16.50
Louisville, Ky	------	------	------	------	------	7.37	7.43	8.42	7.46	[3]7.16	[3]7.01
Manchester, N. H	17.00	17.50	17.25	17.00	17.00	------	------	------	------	------	------
Memphis, Tenn	------	------	------	------	------	8.11	7.84	8.80	8.33	7.37	7.85
Milwaukee, Wis	16.65	16.65	16.20	15.90	15.85	9.69	11.42	11.32	9.48	[3]7.80	[3]7.68
Minneapolis, Minn	17.95	17.75	17.70	17.90	17.85	10.92	11.35	11.75	11.72	[3]10.90	[3]10.56
Mobile, Ala	------	------	------	------	------	10.02	9.62	10.12	9.54	9.57	9.63
Newark, N. J	13.43	13.50	13.50	13.50	13.46	------	------	------	------	------	------
New Haven, Conn	15.20	15.40	15.10	14.90	15.17	------	------	------	------	------	------
New Orleans, La	------	------	------	------	------	11.19	11.14	11.29	11.29	11.29	10.96
New York, N. Y	14.33	14.50	14.42	14.33	14.13	------	------	------	------	------	------
Norfolk, Va	15.50	16.00	15.00	15.00	14.00	9.27	10.52	9.68	9.05	[3]7.88	[3]7.25
Omaha, Nebr	------	------	------	------	------	10.04	10.33	10.19	10.26	9.50	9.69
Peoria, Ill	------	------	------	------	------	6.79	7.11	7.29	7.10	6.90	6.75
Philadelphia, Pa	[2]15.32	[2]15.54	[2]14.43	[2]14.11	[2]14.50	------	------	------	------	------	------
Pittsburgh, Pa	16.50	15.88	14.88	15.00	15.00	6.83	6.13	6.24	5.65	5.25	5.29
Portland, Me	16.56	16.80	16.80	16.80	16.80	------	------	------	------	------	------
Portland, Oreg	------	------	------	------	------	13.64	13.24	13.34	13.32	13.07	13.40
Providence, R. I	[6]16.00	[6]16.50	[6]16.00	[6]16.00	[6]16.00	------	------	------	------	------	------
Richmond, Va	15.50	16.50	15.50	15.00	15.00	8.83	11.39	11.66	9.70	[3]8.38	[3]8.38
Rochester, N. Y	14.15	14.15	14.15	14.25	14.25	------	------	------	------	------	------
St. Louis, Mo	16.88	17.20	16.45	16.45	16.40	6.69	6.62	7.50	7.02	6.40	6.69
St. Paul, Minn	17.95	17.75	17.70	17.90	17.85	11.57	11.66	12.16	11.98	[3]10.68	[3]10.27
Salt Lake City, Utah	[5]18.50	[5]18.00	[5]18.00	[5]18.00	[5]18.00	8.40	8.43	8.47	8.34	7.86	8.43
San Francisco, Calif	[7]26.50	[7]26.50	[7]26.50	[7]26.00	[7]26.00	17.28	17.06	17.11	17.25	16.75	16.98
Savannah, Ga	[8]17.00	------	------	------	------	[8]11.50	[8]12.75	[8]13.25	[8]11.13	[8]10.53	[8]10.24
Scranton, Pa	10.62	10.67	10.50	10.33	9.92	------	------	------	------	------	------
Seattle, Wash	------	------	------	------	------	10.21	9.96	10.47	10.18	10.48	10.68
Springfield, Ill	------	------	------	------	------	4.25	4.38	4.38	4.44	4.24	4.34
Washington, D. C	[2]15.67	[2]15.54	[2]15.01	[2]15.13	[2]15.23	[2,3]8.88	[2,3]9.88	[2,3]9.75	[2,3]8.75	[2,3]8.75	[2,3]8.63

[1] The term "anthracite" signifies Pennsylvania anthracite, except as indicated by notes. Data for 1926 are omitted as being insufficient.
[2] Per ton of 2,240 pounds.
[3] Prepared sizes, high volatile.
[4] Arkansas anthracite, egg or furnace.
[5] Colorado anthracite, furnace, 1 and 2 mixed.
[6] 50 cents per ton additional is charged for binning.
[7] New Mexico anthracite.
[8] 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. 773.—LABOR STRIKES IN COAL MINES

Year	Men on strike	Working days lost	Average days lost per man	Year	Men on strike	Working days lost	Average days lost per man
1907[1]	32, 540	462, 392	14	1918	79, 395	508, 526	6
1908[1]	145, 145	5, 449, 938	38	1919	453, 418	15, 761, 410	35
1909	24, 763	723, 634	29	1920	282, 419	5, 914, 473	21
1910	218, 493	19, 250, 524	88	1921	151, 263	3, 106, 103	21
1911	41, 413	983, 737	24	1922	603, 031	73, 497, 043	122
1912	311, 056	12, 527, 305	40	1923	197, 214	3, 868, 543	20
1913	135, 395	3, 049, 412	23	1924	129, 452	5, 362, 748	41
1914	161, 720	11, 013, 667	68	1925	186, 369	16, 433, 036	88
1915	67, 190	2, 467, 431	37	1926	174, 724	6, 707, 778	38
1916	170, 633	3, 344, 586	20	1927[2]	193, 322	26, 675, 109	138
1917	160, 240	2, 348, 399	15	1928	86, 870	4, 605, 086	53

State	1925		1926		1927		1928	
	Men on strike	Days lost	Men on strike	Days lost	Men on strike	Days lost	Men on strike	Days lost
Grand total	**186, 369**	**16, 433, 036**	**174, 724**	**6, 707, 778**	**193, 322**	**26, 675, 109**	**86, 870**	**4, 605, 086**
Anthracite (Pa.)	**147, 928**	**15, 269, 506**	**145, 376**	**5, 990, 477**	**20, 478**	**159, 242**	**36, 128**	**400, 682**
Total bituminous	**38, 441**	**1, 163, 530**	**29, 348**	**717, 301**	**172, 844**	**26, 515, 867**	**50, 742**	**4, 204, 404**
Arkansas	560	41, 928	205	1, 635	389	41, 810		
Colorado	595	6, 943			5, 429	267, 210	1, 594	57, 184
Illinois	4, 870	25, 180	987	12, 609	66, 992	10, 018, 566	21, 815	1, 463, 409
Indiana	7, 919	96, 963	10, 450	179, 375	17, 303	2, 345, 279	3, 216	91, 842
Iowa	1, 267	3, 740	932	19, 510	5, 624	815, 764	1, 986	68, 623
Kansas	530	8, 080	118	1, 560	3, 014	390, 711	1, 525	168, 766
Kentucky	1, 954	162, 534	688	3, 170	1, 824	24, 756	1, 130	14, 124
Maryland			603	13, 289				
Michigan	725	5, 575	225	225	470	1, 510	430	6, 320
Missouri	110	1, 287	64	760	2, 662	336, 972	941	67, 585
Montana			225	450			1, 219	9, 178
Ohio	6, 572	170, 208	6, 857	85, 118	26, 250	5, 605, 443	9, 222	1, 576, 960
Oklahoma	352	16, 773	20	20	163	25, 428		
Pennsylvania[1]	7, 414	234, 389	4, 922	272, 918	41, 692	6, 591, 870	5, 999	658, 111
Tennessee	250	2, 350	300	300	50	3, 000	265	795
Texas	87	261						
Utah	280	10, 920						
Washington								
West Virginia	4, 956	376, 399	2, 692	126, 242	982	47, 548	210	18, 650
Other States			60	120			1, 190	3, 057

[1] Bituminous mines only.
[2] Owing to unusual conditions, figures tend to understate extent of the strike and number of idle miners.

Source: Bureau of Mines, Department of Commerce.

No. 774.—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	397	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
1914	34,556	23,336	11,220	32.5	88,334	664	133
1915	41,581	27,508	14,073	33.8	105,504	896	53
1916	54,534	35,464	19,069	35.0	170,841	1,175	55
1917	55,607	33,168	22,439	40.4	298,243	1,409	25
1918	56,478	30,481	25,998	46.0	382,324	1,688	30
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	56,806	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

[1] Imports entered for consumption, prior to 1925.

Source: Bureau of Mines, Department of Commerce.

No. 775.—COKE: By-Product and Beehive Production, by States

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

	1915	1920	1922	1923	1924	1925	1927	1928	1929[1]
BY-PRODUCT									
Total	14,073	30,834	28,551	37,598	33,984	39,912	43,885	48,313	53,476
Alabama	2,070	3,124	3,494	4,385	4,386	4,582	4,364	4,327	4,739
Colorado	-------	517	365	448	523	490	594	606	570
Illinois	1,687	2,137	1,983	3,187	2,355	3,012	3,014	3,241	4,179
Indiana	2,768	4,554	3,996	5,043	4,272	5,142	5,550	6,094	6,393
Maryland	313	682	590	862	810	1,019	1,077	1,186	1,393
Massachusetts	504	488	407	554	398	535	744	687	839
Michigan	(2)	1,393	1,142	1,649	1,771	1,751	1,920	2,400	2,710
Minnesota	128	675	462	696	515	518	633	623	747
New Jersey	269	726	791	898	869	904	906	903	903
New York	684	1,040	1,495	1,784	1,601	2,220	3,603	3,803	4,202
Ohio	666	5,615	4,912	6,324	5,723	7,105	7,214	7,786	8,430
Pennsylvania	3,092	7,730	7,152	9,186	8,426	9,853	11,061	13,475	14,655
West Virginia	141	447	502	941	999	1,056	1,396	1,368	1,433
All other States	1,749	1,706	1,261	1,642	1,335	1,725	1,808	1,814	2,228
BEEHIVE									
Total	27,508	20,511	8,573	19,380	10,286	11,355	7,207	4,493	6,015
Pennsylvania	22,531	15,908	6,840	16,439	8,501	9,574	5,716	3,442	5,439
Ohio	19	87	99	150	110	156	(2)	(2)	
West Virginia	1,250	1,381	418	822	330	490	527	431	
Alabama	1,001	890	306	269	155	88	-------	-------	-------
Kentucky	285	273	31	126	79	(2)	(2)	(2)	-------
Tennessee	234	163	86	180	132	128	105	104	383
Virginia	630	1,028	379	775	485	422	317	248	
Colorado	671	273	119	200	212	155	194	144	193
Utah	(2)	(2)	172	233	160	146	85	28	
All other States	887	509	123	188	123	196	263	46	

[1] Figures are preliminary. [2] Included under "all other States."

Source: Bureau of Mines, Department of Commerce.

No. 776.—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. Gas produced and consumed within the same establishment, blast-furnace gas, and gas resulting from by-product coke-oven operation are not included

Material or product	Unit	Quantity (thousands of unit specified)			Cost or value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
Materials used, total cost					76,779	178,423	211,786
Coal for gas making	Short ton [1]	6,117			20,873		
Anthracite	Long ton [2]		619	113			
Bituminous	Short ton [1]		6,871	8,102			
Oil for gas making	Gallon	715,419	212,211	230,729	24,721		
Oil for carbureting	do		679,378	683,048			
Gas purchased	M. cu. ft.	28,351	64,569	96,618	8,883		
Products, total value					220,238	455,460	516,705
Commercial plants					218,481	448,218	509,277
Municipal plants					1,757	7,242	7,428
Gas for sale, total	M. cu. ft.	203,639	359,402	412,236	175,066	395,969	446,245
Coal gas	do	10,510	7,411	(3)	10,727	12,481	(3)
Carbureted water gas	do	90,018	112,186	(3)	74,517	136,624	(3)
Mixed coal and water gas	do	86,281	210,743	(3)	72,012	213,918	(3)
Oil gas	do	16,512	24,289	(3)	15,044	29,040	(3)
Other gas	do	318	4,774	(3)	2,766	3,904	(3)
Coke for sale	Short ton [1]	2,282	2,398	2,977	8,720	20,721	25,514
Tar for sale:							
Coal gas	Gallon	125,939	63,803	78,691	3,253	3,547	4,449
Water gas and oil gas	do		61,471	83,479		2,594	3,768
All other products					33,199	32,631	36,729

[1] 2,000 pounds. [2] 2,240 pounds. [3] Not called for on schedule.

Source: Bureau of the Census, Department of Commerce.

No. 777.—PRODUCTION, PURCHASE, AND SALE OF GAS BY COMPANIES ENGAGED IN THE MANUFACTURED-GAS INDUSTRY

[In millions of cubic feet]

Year	Gas sold	Year	Gas sold	Year	Total gas produced and purchased	Produced	Purchased		Gas sold
							Coke-oven gas	Natural gas	
1904	113,930	1913	188,286	1921	360,392	295,162	37,393	27,837	326,950
1905	112,444	1914	198,839	1922	389,000	300,682	52,883	35,435	350,000
1906	122,850	1915	204,310	1923	418,000	313,718	65,872	38,410	384,722
1907	132,012	1916	231,381	1924	441,381	324,765	63,350	53,266	405,206
1908	138,570	1917	264,493	1925	457,100	324,400	76,600	56,100	421,406
1909	143,118	1918	271,593	1926	492,042	353,886	83,640	54,516	455,631
1910	149,431	1919	300,000	1927	508,322	354,456	91,270	62,597	471,000
1911	159,101	1920	319,888	1928	537,164	362,860	96,931	77,373	494,800
1912	178,229			1929 [1]	586,600	348,300	125,500	112,800	535,000

[1] Preliminary.

Source: American Gas Association.

No. 778.—AVERAGE NET PRICE OF MANUFACTURED GAS

NOTE.—Net prices for the first 1,000 cubic feet for household use in cities specified in the first section of Table 779

Date	Actual	Relative	Date	Actual	Relative	Date	Actual	Relative
Apr. 15, 1913	$0.95	100	Apr. 15, 1919	$1.04	110	Dec. 15, 1924	$1.24	131
Apr. 15, 1914	.94	99	Apr. 15, 1920	1.09	115	Dec. 15, 1925	1.23	130
Apr. 15, 1915	.93	98	May 15, 1921	1.32	139	Dec. 15, 1926	1.22	128
Apr. 15, 1916	.92	97	Mar. 15, 1922	1.29	136	Dec. 15, 1927	1.22	128
Apr. 15, 1917	.91	96	Mar. 15, 1923	1.25	132	Dec. 15, 1928	1.22	128
Apr. 15, 1918	.95	100	Mar. 15, 1924	1.24	131	Dec. 15, 1929	1.21	127

Source: Bureau of Labor Statistics, Department of Labor.

No. 779.—RETAIL PRICES OF GAS IN PRINCIPAL CITIES

NOTE.—Prices are net per 1,000 cubic feet of gas for household use. Prices for manufactured gas are based on a family consumption of 3,000 cubic feet per month. In cities where a service charge or a sliding scale is in operation families using less than 3,000 cubic feet per month pay a somewhat higher rate than shown, while those consuming more than this amount pay a lower rate. The figures represent quite closely the actual monthly cost of gas per 1,000 cubic feet to the average wage-earner's family. Prices for natural gas and for manufactured and natural mixed gas are based on a family consumption of 5,000 cubic feet per month

City	Apr. 15, 1913	Apr. 15, 1915	Apr. 15, 1917	Apr. 15, 1918	Apr. 15, 1919	Apr. 15, 1920	May 15, 1921	June 15, 1922	June 15, 1923	June 15, 1924	June 15, 1925	June 15, 1926	June 15, 1927	June 15, 1928	June 15, 1929	Dec. 15 1929
	MANUFACTURED GAS															
Atlanta	$1.00	$1.00	$1.00	$1.00	$1.15	$1.15	$1.90	$1.65	$1.65	$1.55	$1.55	$1.55	$1.55	$1.55	$1.43	$1.43
Baltimore	.90	.80	.75	.75	.75	.75	.75	.92	.92	.85	.85	.85	.85	.85	.85	.85
Birmingham	1.00	.95	.95	.95	.95	.95	.88	.88	.80	.80	.80	.80	.80	.80	.80	.80
Boston	.81	.80	.80	.86	1.05	1.08	1.40	1.32	1.25	1.20	1.18	1.18	1.18	1.18	1.18	1.16
Bridgeport	1.00	1.00	1.00	1.00	1.10	1.10	1.47	1.50	1.50	1.45	1.45	1.45	1.45	1.45	-----	-----
Butte	1.49	1.49	1.49	1.49	1.49	1.49	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
Charleston, S. C.	1.10	1.10	1.00	1.10	1.10	1.25	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
Chicago	.80	.80	.80	.72	.90	.87	1.20	1.07	1.07	1.02	1.02	1.02	1.02	.98	.98	.98
Cleveland	.80	.80	.80	.80	.80	.80	.80	.80	.80	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Denver	.85	.80	.80	.85	.95	.95	.95	.95	.95	.95	.95	.95	.90	.90	-----	-----
Detroit	.75	.75	.75	.75	.79	.79	.85	.79	.79	.82	.82	.79	.79	.79	.79	.79
Fall River	.80	.80	.80	.95	.95	1.05	1.25	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.14
Houston	1.00	1.00	1.00	1.00	1.00	1.09	1.09	1.09	1.09	1.09	1.05	-----	-----	-----	-----	-----
Indianapolis	.60	.55	.55	.55	.60	.60	.90	1.20	1.15	1.15	1.10	1.05	1.05	.95	.95	.95
Jacksonville	1.20	1.15	1.15	1.25	1.25	1.50	1.75	1.65	.165	1.97	1.97	1.97	1.92	1.92	1.92	1.92
Manchester	1.10	1.00	1.00	1.00	1.18	1.18	1.58	1.48	1.48	1.38	1.38	1.38	1.38	1.34	1.34	1.34
Memphis	1.00	1.00	.93	.93	.93	1.27	1.35	1.20	1.20	1.20	1.20	1.20	1.20	1.20	-----	-----
Milwaukee	.75	.75	.75	.75	.75	.75	.90	.90	.85	.82	.82	.82	.82	.82	.82	.82
Minneapolis	.85	.80	.77	.77	.95	.95	1.28	1.02	1.05	1.01	.95	.97	.96	.94	.89	.89
Mobile	1.10	1.10	1.10	1.10	1.35	1.35	1.80	1.80	1.80	1.80	1.80	1.80	1.76	1.76	1.76	1.76
Newark	1.00	.90	.90	.97	.97	1.15	1.40	1.25	1.25	1.20	1.20	1.20	1.20	1.20	1.20	1.21
New Haven	.90	.90	.90	1.00	1.10	1.10	1.27	1.18	1.18	1.18	1.13	1.13	1.13	1.13	1.13	1.13
New Orleans	1.10	1.00	1.00	1.00	1.30	1.30	1.30	1.45	1.30	1.30	1.30	1.30	1.30	1.30	-----	-----
New York	.84	.83	.83	.83	.85	.87	1.40	1.31	1.23	1.23	1.23	1.23	1.24	1.25	1.25	1.24
Norfolk	1.00	1.00	1.00	1.20	1.20	1.60	1.40	1.40	1.40	1.40	1.40	1.33	1.33	1.33	1.33	1.32
Omaha	1.15	1.15	1.00	1.15	1.15	1.15	1.47	1.18	1.13	1.18	1.08	1.08	1.08	1.00	1.00	1.00
Peoria	.90	.90	.85	.85	.85	.85	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Philadelphia	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Portland, Me.	1.10	1.00	1.00	1.00	1.00	1.40	1.85	1.65	1.55	1.55	1.55	1.50	1.42	1.42	1.42	1.42
Portland, Oreg.	.95	.95	.95	.95	.95	.95	1.38	1.25	1.16	1.16	1.16	1.19	1.17	1.17	1.17	1.17
Providence	.85	.85	.85	1.00	1.30	1.30	1.42	1.42	1.22	1.22	1.17	1.17	1.13	1.13	1.13	1.13
Richmond	.90	.90	.80	.80	1.00	1.00	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.29
Rochester	.95	.95	.95	.95	.95	.95	1.18	1.10	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00
St. Louis	.80	.80	.75	.75	.75	.85	1.05	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.11	1.11
St. Paul	.95	.90	.85	.85	.85	.85	1.00	1.00	.85	.85	.85	.90	.90	.90	.90	.90
Salt Lake City	.87	.87	.87	.87	1.15	1.35	1.57	1.57	1.57	1.57	1.54	1.53	1.52	1.51	1.51	-----
San Francisco	.75	.85	.85	.85	.95	.95	1.06	1.02	.92	1.00	1.05	.95	.95	.94	.90	.90
Savannah	-----	-----	-----	-----	-----	1.25	1.60	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Scranton	.95	.95	.95	1.15	1.30	1.30	1.70	1.60	1.60	1.50	1.50	1.50	1.40	1.40	1.40	1.40
Seattle	1.00	1.00	1.00	1.20	1.20	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Springfield, Ill.	1.00	1.00	1.00	1.00	1.10	1.10	1.40	1.40	1.35	1.35	1.35	1.25	1.25	1.25	1.25	1.25
Washington	.93	.93	.80	.90	.95	.95	1.25	1.05	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NATURAL GAS															
Cincinnati	$0.30	$0.30	$0.35	$0.35	$0.35	$0.35	$0.35	$0.50	$0.50	$0.50	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75
Cleveland	.30	.30	.30	.30	.35	.35	.35	.40	.55	.55	.55	.60	.60	.60	.60	.60
Columbus	.30	.30	.30	.30	.30	.30	.30	.45	.45	.45	.55	.55	.48	.48	.48	.48
Dallas	.45	.45	.45	.45	.45	.45	.68	.68	.68	.68	.74	.74	.79	.79	.79	.79
Denver	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.99	.99
Houston	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.75	.75	.75	.65	.65
Kansas City	.27	.27	.30	.60	.80	.80	.90	.90	.95	.95	.95	.95	.95	.95	.95	.95
Little Rock	.40	.40	.40	.40	.45	.45	.45	.45	.45	.65	.65	.65	.65	.65	.65	.65
Los Angeles	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.91	.91	.84	.84
Louisville	-----	.45	.45	.45	.45	.45	.45	.45	.45	.45	45	.45	.45	.45	.45	.45
New Orleans	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.95	.95
Pittsburgh	.28	.28	.28	.28	.35	.35	.45	.50	.50	.53	.60	.60	.60	.60	.60	.60
Salt Lake City	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.99
Memphis	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.97	.97
	MANUFACTURED AND NATURAL GAS MIXED															
Buffalo	-----	-----	-----	-----	-----	-----	-----	-----	-----	$0.62	$0.62	$0.60	$0.65	$0.65	$0.65	$0.65
Los Angeles	-----	$0.68	$0.68	$0.68	$0.68	$0.68	$0.75	$0.75	$0.75	$0.73	.68	.68	.68	.68	-----	-----

Source: Bureau of Labor Statistics, Department of Labor.

No. 780.—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 large quantities are wasted or lost. Values given are at the point of consumption. Consumption figures by States differ greatly from production figures by reason of interstate transportation

Yearly average or year	Natural gas produced and marketed		Natural gasoline			Year	Natural gas produced and marketed		Natural gasoline		
	Quantity	Value	Gas treated	Production	Value		Quantity	Value	Gas treated	Production	Value
1906–1910	437,057	57,940	-------	-------	-------	1921	662,052	174,617	465,097	449,934	61,815
1911–1915	575,708	88,492	11,602	30,317	2,481	1922	762,546	221,535	545,139	505,832	72,711
1916–1920	762,651	154,590	472,787	268,038	48,174	1923	1,006,976	240,001	875,711	816,226	77,268
1921–1925	947,419	229,002	820,445	762,151	82,205	1924	1,141,521	253,856	1,016,276	933,861	82,233
1916	753,170	120,227	208,705	103,493	14,331	1925	1,188,571	265,271	1,040,390	1,127,470	120,383
1917	795,110	142,089	429,288	217,884	40,189	1926	1,313,019	300,168	1,206,300	1,363,090	136,412
1918	721,001	153,554	449,109	282,536	50,364	1927	1,445,428	317,930	1,341,248	1,641,144	118,688
1919	745,916	160,888	430,404	351,535	64,197	1928	1,568,139	363,726	1,473,434	1,814,034	138,944
1920	798,210	196,194	496,431	384,744	71,788	1929 [1]	1,860,000	419,000	1,800,000	2,195,400	159,400

State	Natural gas produced and marketed					Natural gas consumed	Natural gasoline produced.		
	1915	1920	1925	1927	1928	1928	1927	1928	1929 [1]
Total	628,579	798,210	1,188,571	1,445,428	1,568,139	1,567,979	1,641,144	1,814,034	2,195,400
Arkansas	[2] 992	19,050	41,878	30,450	20,235	37,763	37,498	32,677	32,300
California	21,891	66,041	187,789	212,364	246,215	246,215	498,020	584,111	804,200
Illinois	2,690	3,013	4,165	3,741	3,051	3,051	8,853	7,817	7,000
Indiana	2,261	4,435	1,168	1,124	1,290	2,259	-------	-------	-------
Kansas	27,046	33,140	26,917	42,646	45,644	72,671	36,095	36,765	33,800
Kentucky	1,667	15,297	10,770	10,206	15,383	15,802	7,480	7,267	6,800
Louisiana	25,540	46,219	152,620	186,961	227,821	188,755	44,844	55,022	63,400
New York	7,977	19,127	[3] 6,210	[3] 5,908	[3] 7,224	17,918	449	392	400
Ohio	79,510	136,872	43,235	51,381	56,341	122,484	12,167	13,174	11,400
Oklahoma	87,517	126,689	249,285	326,864	320,861	285,333	548,109	619,691	676,500
Pennsylvania	113,682	161,397	101,632	105,710	99,466	116,150	16,744	16,571	19,100
Texas	13,324	49,467	[4] 134,872	[4] 254,063	[4] 301,490	318,718	320,723	324,516	422,300
West Virginia	244,004	100,289	180,345	162,375	163,018	67,272	64,192	69,729	70,700
Wyoming	[5] 342	10,312	45,539	43,582	47,490	46,549	43,212	42,861	44,700
All other	126	6,862	2,146	8,054	12,110	27,039	2,758	3,441	2,800

[1] Preliminary.
[2] Includes gas piped from Oklahoma and consumed in Arkansas.
[3] Includes 68,000,000 cubic feet piped to Canada in 1925, 71,000,000 in 1927, and 84,000,000 in 1928.
[4] Includes 64,000,000 cubic feet piped to Mexico in 1925, 113,000,000 in 1927, and 76,000,000 in 1928.
[5] Includes Colorado.

No. 781.—ASPHALT: PRODUCTION, EXPORTS, AND IMPORTS

Quantity and value	1910	1915	1920	1925	1926	1929 [1]
QUANTITY, TONS OF 2,000 POUNDS						
Asphalt produced and sold	260,080	1,128,572	1,944,772	3,763,220	4,513,369	5,526,262
From domestic petroleum	161,187	664,503	700,496	1,206,700	1,741,392	1,726,483
From foreign petroleum	-------	388,318	1,045,779	1,971,670	2,264,137	2,997,852
Native asphalt [2]	98,803	75,751	198,497	584,850	807,860	804,027
Asphalt and related bitumen imported	186,311	139,662	130,599	125,250	125,039	125,931
Asphalt exported, unmanufactured [3]	-------	38,203	51,706	121,849	518,625	526,366
VALUE, THOUSANDS OF DOLLARS						
Asphalt produced and sold	3,080	8,973	27,472	43,974	55,288	57,037
From domestic petroleum	2,226	4,716	11,935	15,306	20,425	19,717
From Mexican petroleum	-------	3,730	14,273	27,520	29,688	31,863
Native asphalt	854	526	1,214	4,148	5,175	5,457
Asphalt and related bitumen imported	786	919	1,647	1,270	1,459	1,614
Asphalt exported:						
Unmanufactured [3]	-------	736	1,356	2,588	10,472	9,676
Manufactured	-------	439	842	2,526	2,022	2,392

[1] Preliminary. [2] Native asphalt and related bitumen. [3] Includes petroleum asphalt, beginning 1925.
Source: Tables 780 and 781, Bureau of Mines, Department of Commerce.

No. 782.—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	1906	126,494	92,445	1919	378,367	760,266
1866–1870	4,013	15,795	1907	166,095	120,107	1920	442,929	1,360,745
1871–1875	8,221	16,430	1908	178,527	129,079			
1876–1880	16,816	22,926	1909	183,171	128,329	1921	472,183	814,745
			1910	209,557	127,900	1922	557,531	895,111
1881–1885	25,508	22,938				1923	732,407	978,430
1886–1890	32,990	23,830	1911	220,449	134,045	1924	713,940	1,022,683
1891–1895	51,095	35,708	1912	222,935	164,213	1925	763,743	1,284,960
1896–1900	59,498	56,836	1913	248,446	237,121			
			1914	265,763	214,125	1926	770,874	1,447,760
1901–1905	102,083	83,524	1915	281,104	179,463	1927	901,129	1,172,830
1906–1910	172,769	119,572				1928	901,474	1,054,880
1911–1915	247,739	185,793	1916	300,767	330,900	1929[1]	1,005,598	1,240,006
1916–1920	362,661	735,698	1917	335,316	522,635			
1921–1925	647,961	999,186	1918	355,928	703,944			

[1] Preliminary.

Source: Bureau of Mines, Department of Commerce.

No. 783.—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.

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 oils	Refined oils	
1871–1880	12,519	(1)	(1)	528	6,026	(1)	(1)	(1)	2.4	37.7	(1)
1881–1890	29,249	(1)	(1)	1,719	12,034	(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	12,680	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	303.6	55.9
1912	222,935	6,909	466	4,493	40,352	(1)	4.7	1.4	6.8	117.4	(1)
1913	248,446	16,979	435	4,633	44,622	(1)	10.9	2.1	8.4	139.7	(1)
1914	265,763	16,913	336	2,970	48,716	[3] 1,302	10.0	1.5	5.0	133.7	[3] 1.1
1915	281,104	18,139	44	3,768	51,377	3,566	10.4	.2	4.3	138.3	3.2
1916	300,767	20,797	414	4,096	57,833	5,530	12.6	1.3	7.0	194.5	5.6
1917	335,316	30,127	1,401	4,098	58,999	5,908	16.3	4.3	7.7	245.2	7.4
1918	355,928	37,736	1,207	4,901	59,727	6,603	21.3	4.4	12.1	332.2	11.7
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	50,592	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	1,005,598	78,933	20,632	26,394	127,156	52,278	79.9	61.0	37.8	493.4	54.7

[1] Data are not available.
[2] Average for years 1908–1910 for total mineral oils.
[3] July to December. Reports for July and August did not include San Francisco.

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

No. 784.—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	1927	1928	1929 (preliminary)	Production since 1857
World total [1]	236,795	384,345	541,733	944,768	1,096,823	1,262,582	1,324,734	1,488,604	18,635,385
United States [2]	137,426	247,739	362,661	647,961	770,874	901,129	901,474	[3] 1,005,598	12,248,747
Per cent of total	*58.0*	*64.4*	*66.8*	*68.6*	*70.3*	*71.4*	*68.1*	*67.6*	*65.7*
Regions:									
Appalachian	28,943	24,594	27,161	28,504	28,572	30,454	31,059	33,757	1,550,662
Lima-Indiana [4]	17,253	5,052	3,468	2,297	2,030	1,835	1,670	1,549	473,639
Michigan				1	94	439	594	4,354	5,485
Illinois [4]	12,659	24,955	13,918	9,585	8,418	7,720	7,425	7,216	399,662
Mid-continent	25,088	87,656	184,616	343,545	423,867	547,003	553,125	584,751	5,441,356
Gulf	17,436	12,357	24,273	33,688	45,275	52,053	46,591	55,574	725,443
Rocky Mountain	402	2,605	11,830	35,258	37,945	30,429	29,199	26,360	382,438
California	35,641	90,512	97,384	195,074	224,673	231,196	231,811	292,037	3,269,869
States:									
Arkansas				36,644	58,332	40,005	32,096	25,076	338,730
California	35,641	90,512	97,384	195,074	224,673	231,196	231,811	292,037	3,269,869
Colorado	381	211	139	392	2,768	2,831	2,774	2,298	24,184
Illinois	12,659	24,955	13,918	8,815	7,760	6,994	6,462	6,304	392,556
Indiana	6,527	1,167	865	1,011	808	852	1,052	977	116,764
Kansas [5]	4,603	2,235	32,556	32,733	41,498	41,09	38,596	42,875	548,206
Kentucky [6]	696	484	5,335	8,044	6,274	6,719	7,359	7,776	104,557
Louisiana	4,310	12,997	19,117	25,759	23,201	22,818	21,847	20,229	420,561
Michigan				1	94	439	594	4,354	5,485
Montana			129	2,729	7,727	5,058	4,015	3,183	34,273
New Mexico [7]				[8] 554	1,666	1,226	943	1,689	6,682
New York	1,153	920	864	1,274	1,956	2,242	2,603	3,346	71,724
Ohio	15,677	8,586	7,583	7,045	7,272	7,593	7,015	6,708	542,315
Oklahoma [5]	19,076	68,624	102,209	155,088	179,195	277,775	249,857	253,704	2,780,408
Pennsylvania	10,538	8,002	7,662	7,607	8,961	9,526	9,956	11,805	828,614
Texas	14,534	16,256	55,008	127,009	166,916	217,389	257,320	298,441	2,078,893
West Virginia	11,605	10,487	8,311	6,575	5,946	6,023	5,661	5,587	367,152
Wyoming	21	2,394	11,562	31,901	25,776	21,307	21,461	19,190	317,261

[1] Estimated. [2] Includes for certain years small quantities not distributed by regions and States.
[3] Does not include petroleum consumed on leases or remaining on producing properties.
[4] Southwestern Indiana reported with Illinois beginning 1921; previously with Lima-Indiana region.
[5] Kansas includes report for Oklahoma in 1905 and 1906.
[6] Kentucky includes report for Tennessee from 1891 to 1907. [7] Not shown separately prior to 1924.
[8] Average for years 1924 and 1925.

No. 785.—STOCKS OF CRUDE AND REFINED MINERAL OILS ON DECEMBER 31

[In thousands of barrels of 42 gallons]

	1923	1924	1925	1926	1927	1928	1929
Stocks of crude petroleum, total [1]	373,244	417,619	[3] 431,646	[3] 403,338	473,379	491,847	540,576
Stocks east of California [2]	301,232	312,725	[3] 293,852	278,264	352,038	368,353	381,391
Light				225,404	303,539	319,928	342,049
Heavy				52,860	48,499	48,425	39,342
Pipe line and tank-farm stocks by field of origin, total	267,858	280,807	264,245	242,180	312,637	327,565	335,084
Appalachian	9,210	9,286	8,493	7,790	7,334	5,515	5,249
Lima-Indiana	975	1,221	971	666	1,134	1,162	544
Illinois and southwestern Indiana	11,091	10,870	10,582	11,770	12,170	11,367	10,411
Mid-continent	202,904	210,558	195,941	173,848	246,839	265,748	274,072
Gulf coast	23,974	20,200	19,263	20,031	17,922	18,272	20,129
Rocky Mountain	19,704	28,672	28,995	23,075	27,238	25,501	24,679
Refinery stocks	[4] 31,991	31,184	[3] 29,200	35,475	39,317	40,529	46,195
Foreign petroleum held by importers	1,383	734	407	609	84	259	112
Producers' stocks (at wells)	9,850	8,389	7,560	5,904	7,536	6,521	6,050
Stocks in California [1]	[4] 62,162	96,505	[3] 130,234	[3] 119,170	113,805	116,973	153,135
Light		40,541	44,451	30,861	20,086	17,755	41,049
Heavy [1]		55,964	[3] 85,783	[3] 88,309	93,719	99,218	112,086
Natural-gas gasoline at plants		302	326	455	734	607	604
Stocks of refined oils [5]		102,366	120,449	123,247	123,030	128,530	146,939
Grand total stocks all oils		520,287	[3] 552,421	[3] 527,040	597,143	619,925	682,069

[1] Fuel oil held in California is included beginning 1924. [2] Exclusive of producers' stocks. [3] Revised.
[4] Refinery stocks in California are included with refinery stocks east of California prior to 1924.
[5] Includes wax, coke, asphalt, and residuum in barrels.

Source of Tables 784 and 785: Bureau of Mines, Department of Commerce.

No. 786.—SUPPLY AND DEMAND OF CRUDE AND REFINED OILS

[In thousands of barrels of 42 gallons]

	1924	1925	1926	1927	1928	1929
Total new supply of all oils	830, 756	870, 107	886, 611	1, 014, 084	1, 038, 186	1, 169, 633
Domestic production, total	736, 175	791, 907	805, 291	942, 348	946, 609	1, 060, 924
Crude petroleum	713, 940	763, 743	770, 874	901, 129	901, 474	1, 005, 598
Natural gasoline	22, 235	26, 307	32, 305	38, 657	42, 326	52, 271
Benzol		1, 857	2, 112	2, 562	2, 809	3, 055
Imports—						
Crude	77, 775	61, 824	60, 382	58, 383	79, 767	78, 915
Refined [1]	16, 806	16, 376	20, 938	13, 353	11, 790	29, 794
Change in stocks [2]	+29, 349	+80, 120	−24, 764	+70, 103	22, 782	67, 606
Total demand	801, 407	839, 987	911, 375	943, 981	1, 015, 384	1, 102, 027
Exports [3]—						
Crude	18, 239	13, 337	15, 407	15, 844	18, 966	26, 374
Refined [1]	98, 728	100, 216	116, 087	125, 191	135, 483	135, 883
Domestic demand [4]	684, 440	726, 434	779, 881	802, 946	860, 935	939, 770
Bunker oil	43, 328	42, 827	46, 662	50, 051	51, 226	52, 308

[1] Includes wax, coke, asphalt, and residuum in barrels
[2] Data include crude petroleum (exclusive of producers' stocks east of California), fuel oil in California, refined products, and, except in 1924, 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 Commerce.

No. 787.—PETROLEUM REFINING: MATERIALS AND PRODUCTS

Material or product	Quantity (thousands of unit specified)				Cost or value (thousands of dollars)		
	Unit	1914	1925	1927	1914	1925	1927
Materials used, total cost					325, 265	1, 889, 678	1, 752, 997
Crude petroleum	Barrel [1]	191, 263	739, 489	831, 332	249, 728	(2)	(2)
Partially refined oils, etc., purchased and rerun	do	9, 455	57, 845	33, 939	24, 395	(2)	(2)
Natural gasoline	do	(2)	23, 223	26, 383	(2)	(2)	(2)
Soda ash	Ton [3]	(2)	21	21	(2)	(2)	(2)
Caustic soda	do	11	60	95	361	(2)	(2)
Sulphuric acid	do	329	820	873	(2)	(2)	(2)
Sulphuric acid, reclaimed and reused.	do	(2)	345	344	(2)	(2)	(2)
All other					51, 142	(2)	(2)
All products, total value					396, 361	2, 376, 657	2, 142, 649
Gasoline	Gallon	1, 195, 422	10, 726, 262	12, 491, 833	106, 140	1, 218, 236	1, 022, 012
Naphtha	do	[4] 264, 626	294, 947	689, 047	[4] 15, 779	29, 938	68, 943
Benzine	do		41, 714	50, 556		4, 993	4, 625
Tops	do	(2)	215, 948	159, 904	(2)	12, 117	6, 574
Illuminating oils	do	1, 935, 275	2, 365, 302	2, 217, 591	96, 806	161, 881	147, 925
Fuel oils:							
Distillates	do	457, 492	1, 204, 937	976, 670	15, 999	51, 743	44, 287
Gas oils	do	755, 558	1, 812, 645	2, 576, 591	22, 805	79, 602	99, 328
Residual fuel oil	do	2, 521, 042	11, 586, 456	11, 862, 599	45, 213	357, 613	313, 344
Partially refined oils sold for rerunning.	do	(2)	1, 497, 879	1, 583, 727	(2)	65, 305	62, 210
Lubricating oils:							
Pale or paraffin	do	93, 422	270, 345	227, 198	8, 085	38, 763	30, 617
Red or neutral	do	116, 352	528, 756	531, 627	12, 426	92, 404	87, 243
Cylinder oils	do	102, 949	206, 884	219, 673	13, 704	47, 226	43, 036
All other lubricating oils	do	205, 115	355, 087	403, 403	21, 598	73, 712	83, 733
Liquid asphaltic road oils	do	134, 844	274, 317	204, 799	4, 018	12, 512	9, 308
Residuum or tar	do		125, 115	118, 467		5, 582	5, 118
Greases	do	14, 006	45, 820	63, 039	3, 536	13, 921	12, 961
Paraffin wax	do	57, 539	89, 762	94, 257	8, 897	30, 590	23, 432
Asphalt, other than liquid	Ton [3]	465	2, 276	2, 642	4, 867	30, 461	37, 884
Coke, petroleum	do	214	924	1, 244	819	6, 438	7, 170
Other special products					9, 000	31, 034	24, 173
All other products					6, 669	12, 587	8, 726

[1] 42 gallons.
[2] No data.
[3] Of 2,000 pounds.
[4] Includes data for light products, other than gasoline, naphtha, and benzine, for later years included in "Other special products."

Source: Bureau of the Census, Department of Commerce.

No. 788.—PETROLEUM PRODUCTS: Oils Run to Stills, Output of Refineries, Stocks, Exports, and Apparent Consumption of Products

Note.—Stocks are those in the hands of refiners only. Hence "apparent consumption" represents deliveries by refiners to dealers and consumers. Exports include shipments to noncontiguous territories. Consumption figures for kerosene, gas oil and fuel oil, and lubricating oil for 1923 to 1929 take into account imports not shown separately, and for which no data were available prior to October, 1922. In 1929 these imports were as follows: Kerosene, 208,000 barrels; gas and fuel oil, 20,510,000 barrels; lubricants, 39,000 barrels

[In thousands of barrels of 42 gallons, except wax (thousand pounds), and coke and asphalt (thousand short tons of 2,000 pounds)]

Item	1918	1922	1924	1925	1926	1927	1928	1929
Crude oil run to stills	326,025	500,706	643,719	739,920	779,264	828,835	913,295	987,708
Domestic		425,823	597,954	698,582	734,301	778,729	835,711	912,191
Foreign		74,883	45,765	41,338	44,963	50,106	77,584	75,517
Natural gasoline run to stills or blended at refineries	2,451	3,662	12,671	[1] 19,636	[1] 27,696	[1] 32,162	[1] 35,223	[1] 45,463
Stocks of crude oil, end of year	15,750	33,805	40,995	[2] 29,200	[2] 35,475	[2] 39,317	[2] 40,529	[2] 46,195
Gasoline:								
Produced	85,007	147,672	213,326	259,601	299,734	330,435	376,945	434,241
Exported	13,545	14,156	28,967	31,497	43,313	44,337	52,904	61,208
Imported	307	1,479	3,453	3,813	5,540	5,002	4,198	8,668
Stocks, end of year	7,079	21,043	30,823	38,875	39,023	33,316	33,066	43,115
Apparent consumption	74,506	127,906	185,003	223,865	261,813	296,807	328,489	371,852
Kerosene:								
Produced	43,461	54,913	60,026	59,689	61,768	56,113	59,353	57,154
Exported	11,820	21,489	21,961	21,212	22,248	19,537	22,034	20,018
Stocks, end of year	9,050	6,692	8,594	7,121	8,575	7,715	9,001	9,039
Apparent consumption	34,442	34,854	36,712	39,969	38,140	37,491	36,235	37,306
Gas oil and fuel oil:								
Produced	174,319	254,910	320,476	364,991	365,195	393,066	427,237	447,894
Exported	29,637	18,479	37,249	36,088	38,351	47,391	44,427	39,073
Stocks, end of year	15,691	31,065	[2] 19,556	[2] 24,681	[2] 24,808	[2] 34,022	[2] 34,926	[2] 34,425
Apparent consumption	142,751	240,010	292,452	(3)	(3)	(3)	(3)	(3)
Lubricants:								
Produced	20,035	23,304	27,498	31,055	32,293	31,721	34,658	34,359
Exported	6,165	7,941	9,103	9,678	9,435	9,776	11,023	10,965
Stocks, end of year	3,306	5,613	6,420	7,253	7,576	7,860	8,340	8,269
Apparent consumption	13,823	15,528	18,124	20,581	22,568	21,669	23,168	23,504
Wax—production ... 1,000 lbs.	505,144	462,003	516,491	590,577	645,815	584,347	630,144	630,074
Stocks, end of year ... do	199,658	204,891	89,706	116,391	185,331	[4] 150,638	110,344	187,990
Coke—production ... 1,000 tons	560	707	761	991	995	1,145	1,427	1,807
Stocks, end of year ... do	23	36	98	238	291	345	437	692
Asphalt—production ... 1,000 tons	608	1,895	2,546	2,677	2,923	3,418	3,297	3,469
Stocks, end of year ... do	77	120	97	159	193	221	236	240
Other finished products		4,527	8,252	8,044	8,030	7,405	9,402	9,924
Losses	14,557	18,562	19,590	22,914	26,928	28,396	29,040	35,064

[1] Includes natural gasoline run through pipe lines in California. [2] Stocks east of California only.
[3] Not available. [4] 1927 data revised for comparison with 1928; earlier years not strictly comparable.

No. 789.—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, 1929				
	1928	1929	1928	1929	Gasoline	Kerosene	Gas oil and fuel oil	Lubricants	Wax
Total	913,295	987,708	35,283	45,463	434,241	57,154	447,894	34,359	630,074
East coast	170,503	172,434	2,204	2,473	57,851	8,091	91,011	10,874	260,156
Appalachian	33,643	33,802	732	642	16,061	3,671	7,165	5,243	96,117
Indiana, Illinois, Kentucky, etc	98,905	110,349	2,226	2,636	65,102	5,384	36,296	3,901	59,482
Oklahoma, Kansas and Missouri	111,342	115,449	4,632	4,248	62,432	10,052	38,439	2,678	40,618
Texas	186,076	211,693	6,963	9,749	93,589	13,336	92,448	7,727	67,165
Louisiana and Arkansas	75,540	75,428	5,082	6,731	31,093	5,501	32,114	968	65,266
Rocky Mountain	26,061	25,443	1,384	1,492	16,431	1,530	6,950	580	41,270
California	211,222	243,110	12,000	17,492	91,682	9,639	143,471	2,388	--------

Source: Tables 788 and 789, Bureau of Mines, Department of Commerce.

No. 790.—PETROLEUM PIPE LINES

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

Company and State or field served	Miles of line operated	Investment in pipe lines	Other investments	Pipe line operating revenues	Pipe line operating expenses	Pipe line operating income	Net income
ALL REPORTING COMPANIES							
1920	43,712	340,328	267,362	103,600	66,452	26,026	58,949
1921	55,260	365,024	287,114	115,950	62,370	25,580	34,400
1922	57,349	382,280	264,344	128,059	64,539	52,720	58,568
1923	64,760	432,065	305,841	131,213	69,234	52,678	62,639
1924	68,185	496,187	282,504	146,921	74,656	63,176	72,234
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	195,927	195,561	99,287	92,719	93,239
1928	81,676	659,093	106,688	222,073	96,478	112,221	117,206
COMPANIES REPORTING OPERATING REVENUES OF OVER $500,000 IN 1928							
Buckeye Pipe Line Co	7,258	20,122	3,579	4,445	3,064	873	1,105
Cumberland Pipe Line Co	1,230	4,632	1,111	688	586	36	148
Empire Pipe Line Co	310	8,516	----------	2,353	1,245	992	1,121
Eureka Pipe Line Co	4,851	11,424	2,223	2,264	2,196	27	65
Gulf Pipe Line Co	3,657	47,386	2,347	15,827	6,502	8,993	8,070
Gulf Pipe Line Co. of Oklahoma	1,519	11,746	----------	5,606	1,876	3,577	3,942
Humble Pipe Line Co	5,724	74,964	----------	34,691	12,615	21,721	22,398
Illinois Pipe Line Co	4,657	37,299	2,313	9,920	4,886	3,951	4,316
Indiana Pipe Line Co	915	5,101	3,120	1,452	649	593	795
Imperial Pipe Line Co. (Ltd.)	179	1,228	----------	514	268	198	241
Magnolia Pipe Line Co	5,495	61,181	----------	19,249	7,369	11,491	12,224
Maryland Pipe Line Co	632	6,370	211	1,464	1,518	114	119
National Transit Co	3,663	8,746	6,384	1,698	1,629	49	280
Northern Pipe Line Co	626	3,158	779	502	294	156	306
Oklahoma Pipe Line Co	2,230	24,227	1	10,587	3,597	6,055	6,093
Pierce Pipe Line Co	224	2,370	2,203	623	439	159	1,217
Prairie Pipe Line Co	12,335	95,110	70,457	34,946	14,752	16,562	19,137
Pure Oil Pipe Co. (Ohio)	349	1,923	133	767	294	459	477
Pure Oil Pipe Line Co. of Texas	797	7,229	205	1,860	1,154	554	649
Shell Pipe Line Corporation	2,685	41,013	----------	15,850	5,591	10,160	9,499
Shreveport-El Dorado Pipe Line Co. (Inc.)	211	2,202	275	1,113	641	459	90
Sinclair Pipe Line Co	6,750	78,017	6,295	22,880	11,861	9,116	8,385
South West Pennsylvania Pipe Lines	2,010	4,436	1,496	1,016	702	251	303
Standard Pipe Line Co. (Inc.)	3,439	29,161	32	13,179	4,470	7,664	7,657
Texas Pipe Line Co. of Texas	4,153	37,155	----------	11,440	4,140	6,195	6,156
Texas Pipe Line Co. of Oklahoma	1,455	7,281	142	3,445	1,256	1,869	1,819
Tide-Water Pipe Co. (Ltd.)	1,964	10,855	31	2,611	1,412	952	1,073

Source: Interstate Commerce Commission.

No. 791.—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 C. Pogue. The weighted average prices are computed from five principal grades of crude oil at wells, from five markets each for kerosene and gasoline from tank wagon, from five refining locations for fuel oil, and for five grades of lubricating oil

Year	Crude	Gasoline	Kerosene	Fuel oil	Lubricating oil	Month, 1929	Crude	Gasoline	Kerosene	Fuel oil	Lubricating oil
	Dolls.	*Cents*	*Cents*	*Dolls.*	*Cents*		*Dolls.*	*Cents*	*Cents*	*Dolls.*	*Cents*
1918	2.22	21.7	10.2	2.01	30.9	January	1.70	14.9	13.2	0.897	26.1
1919	2.25	22.2	12.7	1.59	32.2	February	1.64	13.8	13.2	.889	26.1
1920	3.44	26.5	17.1	2.79	49.0	March	1.64	13.1	13.2	.908	26.1
1921	1.86	22.3	12.9	1.30	27.6	April	1.64	13.6	13.4	.924	26.1
1922	1.78	21.7	12.4	1.24	20.4	May	1.72	13.9	13.4	.907	26.1
1923	1.71	17.5	12.8	1.20	19.4	June	1.78	14.4	13.4	.894	26.1
1924	1.84	15.9	12.7	1.35	23.0	July	1.76	14.6	13.4	.875	26.1
1925	1.96	16.6	12.3	1.46	26.1	August	1.67	14.3	13.4	.841	26.1
1926	2.03	17.5	14.7	1.47	26.1	September	1.65	13.8	13.4	.847	24.3
1927	1.55	15.0	12.9	1.14	25.3	October	1.58	13.6	13.4	.882	23.6
1928	1.54	14.7	12.9	.91	24.3	November	1.60	13.3	13.4	.908	23.6
1929	1.67	13.9	13.4	.89	25.3	December	1.61	13.1	13.4	.922	23.6

No. 792.—PORTLAND CEMENT: Production, Shipments, Exports, 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 793.)

State	1910	1915	1920	1925	1926	1927	1928	1929
	Thousands of barrels of 376 pounds							
Production, total	76,550	85,915	100,023	161,659	164,530	173,207	176,299	170,646
Alabama	[1] 1,481	(2)	1,132	6,288	6,710	7,565	6,749	5,006
California	[3] 6,386	4,503	7,098	13,098	13,842	14,581	13,556	13,092
Illinois	4,459	5,157	5,539	7,101	6,747	7,017	7,335	8,243
Iowa	[4] 2,010	4,560	4,849	4,648	4,926	5,415	7,070	6,373
Kansas	5,656	3,580	4,341	6,511	6,358	6,180	6,574	6,740
Michigan	3,688	4,765	4,891	10,936	12,037	13,965	13,849	13,749
Missouri	4,456	4,627	6,018	8,332	7,653	6,778	7,881	8,113
New York	3,296	5,044	5,885	8,770	8,796	10,775	10,960	10,761
Ohio	1,528	1,949	1,780	5,715	7,556	8,854	9,233	9,427
Pennsylvania	26,676	28,649	28,269	42,347	42,866	43,732	41,522	39,355
Texas	[5] 2,287	1,939	2,562	4,868	5,007	5,656	6,346	7,374
Washington	(3)	1,496	1,799	2,482	(2)	(2)	(2)	(2)
Other States	14,627	19,646	25,860	40,573	42,031	42,688	45,224	42,413
Shipments	(6)	86,892	96,312	157,295	162,187	171,865	175,838	169,868
Imports	307	42	525	3,667	3,244	2,066	2,302	1,745
Stocks, end of year	(6)	11,463	8,833	18,336	20,740	22,457	22,760	23,538

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

No. 793.—PORTLAND CEMENT: Shipments by Destinations

[In thousands of barrels of 376 pounds]

State	1926	1927	1928	1929
Shipped from cement plants	162,187	171,865	175,838	169,868
Shipments to States	160,940	170,737	174,681	168,754
New England	6,733	6,942	7,604	7,733
Maine	548	506	522	600
New Hampshire	438	460	515	666
Vermont	272	393	606	929
Massachusetts	2,983	2,820	2,916	2,908
Rhode Island	635	701	761	721
Connecticut	1,857	2,062	2,284	1,909
Middle Atlantic	41,181	45,259	43,758	42,190
New York	20,225	23,003	22,325	21,040
New Jersey	7,116	8,419	8,437	8,015
Pennsylvania	13,840	13,837	12,996	13,135
East North Central	44,332	48,043	51,156	46,404
Ohio	9,684	10,342	11,018	10,033
Indiana	5,175	5,739	5,297	5,675
Illinois	14,067	14,833	17,683	13,491
Michigan	10,784	11,576	11,776	11,687
Wisconsin	4,622	5,553	5,382	5,518
West North Central	16,271	15,890	17,606	19,347
Minnesota	3,573	3,380	3,055	3,213
Iowa	2,827	3,708	5,349	5,463
Missouri	5,202	4,207	4,719	5,621
North Dakota	403	393	455	445
South Dakota	424	410	491	530
Nebraska	1,555	1,360	1,196	1,470
Kansas	2,287	2,432	2,341	2,605
South Atlantic	17,576	15,925	13,818	12,641
Delaware	360	343	349	365
Maryland	2,319	2,652	2,243	2,426
District of Columbia	907	982	890	1,127
Virginia	1,734	1,799	1,996	1,765
Shipments to States—Con.				
South Atlantic—Continued.				
West Virginia	1,680	1,562	1,361	1,415
North Carolina	3,732	3,213	2,402	1,753
South Carolina	639	986	1,508	1,190
Georgia	1,831	1,905	1,743	1,423
Florida	4,374	2,483	1,326	1,177
East South Central	6,377	7,463	8,518	7,498
Kentucky	1,659	1,954	1,740	1,576
Tennessee	1,933	2,263	2,699	2,935
Alabama	1,981	2,265	2,950	1,958
Mississippi	804	981	1,129	1,029
West South Central	9,178	10,904	11,847	14,149
Arkansas	770	855	1,251	1,556
Louisiana	1,187	1,491	1,276	1,657
Oklahoma	2,343	3,120	3,126	3,352
Texas	4,878	5,438	6,194	7,584
Mountain	3,204	3,159	3,659	3,495
Montana	258	308	461	552
Idaho	444	311	295	261
Wyoming	189	181	198	193
Colorado	1,138	1,002	1,065	892
New Mexico	193	279	333	286
Arizona	426	562	693	657
Utah	461	428	508	521
Nevada	95	87	106	133
Pacific	16,031	17,102	16,685	15,297
Washington	2,022	2,574	2,974	2,478
Oregon	1,318	1,399	1,257	1,017
California	12,691	13,129	12,454	11,802
Unspecified	60	52	30	0
Exports direct by manufacturers[1]	1,247	1,128	1,158	1,114

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

Source of Tables 792 and 793: Bureau of Mines, Department of Commerce.

No. 794.—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	1916	92,363	91,521	842	101,379
1895	8,731	990	7,741	5,482	1917	93,454	92,814	639	126,106
1900	17,231	8,482	8,749	13,284	1918	71,515	71,082	433	114,132
1905	40,102	35,247	4,855	35,932	1919	81,307	80,778	529	138,714
1906	51,000	46,463	4,537	55,302	1920	100,791	100,023	767	203,198
1907	52,230	48,785	3,445	55,904	1921	99,381	98,842	539	187,768
1908	52,911	51,073	1,838	44,478	1922	115,679	114,790	889	203,324
1909	66,690	64,991	1,698	53,611	1923	138,732	137,460	1,272	263,122
1910	77,785	76,550	1,235	68,752	1924	150,777	149,358	1,418	272,345
1911	79,548	78,529	1,019	66,705	1925	163,388	161,659	1,729	[1] 231,076
1912	83,351	82,438	913	67,462	1926	166,635	164,530	2,105	[1] 280,786
1913	92,949	92,097	852	93,001	1927	175,330	173,207	2,124	[1] 231,736
1914	89,050	88,230	820	82,204	1928	178,509	176,299	2,210	[1] 278,883
1915	86,708	85,915	794	74,285	1929	172,855	170,646	2,209	[1] 255,105

[1] Value of shipments.

Source: Bureau of Mines, Department of Commerce.

No. 795.—STONE: Production (Sales), by Varieties and Uses

Variety and use	Quantity sold, thousands of short tons (2,000 pounds)[1]							Value 1,000 dollars	
	1923	1924	1925	1926	1927	1928	1929	1928	1929
Total	103,319	103,184	115,851	124,496	136,345	133,870	138,912	196,821	199,922
Granite	7,300	6,884	8,074	9,330	10,707	9,556	(2)	33,995	(2)
Basalt and related rocks	10,674	11,672	11,842	12,978	13,211	15,328	14,663	19,694	18,565
Sandstone	4,349	3,895	4,499	4,979	5,051	4,717	(2)	10,498	(2)
Marble	563	516	564	563	600	579	552	16,403	16,535
Limestone	76,701	75,894	85,649	91,888	99,662	96,865	(2)	110,232	(2)
All other	3,731	4,324	5,242	4,759	7,115	6,825	7,012	5,999	6,945
Building stone	2,059	2,212	2,392	2,609	2,485	2,453	2,643	42,770	43,570
Monumental	424	394	363	360	358	348	365	14,966	15,350
Paving blocks	462	376	381	66	367	349	308	3,114	3,018
Curbing	252	296	393	346	378	383	346	4,698	3,760
Flagging	44	60	56	66	55	75	104	717	703
Rubble	882	865	1,197	540	809	908	855	1,250	1,280
Riprap	3,186	3,265	3,079	4,060	4,618	3,993	4,460	3,866	4,900
Crushed stone	62,323	68,198	75,673	82,516	94,949	91,265	92,136	94,186	94,017
Furnace flux (limestone and marble)	25,602	19,690	22,861	23,850	21,666	23,124	24,460	16,957	18,100
Refractory stone	1,152	1,094	1,261	1,531	1,363	1,348	1,585	1,745	1,814
Manufacturing industries (limestone and marble)	4,668	4,734	5,172	4,954	5,352	5,640	11,650	4,724	13,410
Other uses [3]	2,264	2,000	3,023	3,289	3,944	3,983		7,827	

[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 1929: Building stone, 32,650,000 cubic feet; monumental stone, 4,410,000 cubic feet; paving blocks, 32,555,000; curbing, 3,975,000 cubic feet; and flagging, 1,215,000 cubic feet.
[2] Figures not yet available.
[3] Chiefly agricultural limestone.

Source: Bureau of Mines, Department of Commerce.

No. 796.—CLAY AND GLASS PRODUCTS: PRODUCTION

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
BRICK, TILE, AND TERRA COTTA, FIRE-CLAY, AND OTHER CLAY PRODUCTS, AND NONCLAY REFRACTORIES [1]							
All products, total value					129,583	335,670	320,201
Brick:							
Common	Number	7,145,809	7,561,501	7,060,984	43,764	88,551	78,408
Vitrified	do	931,324	539,101	503,400	12,501	11,876	10,764
Face	do	810,395	2,474,690	2,412,903	9,290	45,428	41,521
Enameled	do	(2)	16,931	18,097	(2)	1,508	1,375
Drain tile	Ton [3]	(2)	661	734	8,522	4,960	5,511
Sewer pipe	do	(2)	2,139	2,116	14,015	30,421	29,426
Architectural terra cotta	do	(2)	152	156	6,088	19,139	16,628
Hollow building tile or block	do	(2)	4,225	4,114	8,385	29,264	26,499
Tile (not drain):							
Roofing	Squares	(2)	290	368		5,155	5,349
Floor (including plain, vitreous, encaustic, quarry, etc.).	Sq. ft	(2)	19,244	20,434		4,361	4,586
Ceramic mosaic (vitreous and semivitreous).	do	(2)	20,331	20,506	5,705	4,092	4,552
Faience (including art, enameled, and hand-decorated).	do	(2)	4,916	10,157		3,295	5,776
Wall (thin, white glazed, etc.)	do	(2)	30,366	39,537		10,220	12,503
Stove lining	Ton [3]	(2)	26	14	521	656	503
Fire brick [4]	Number	816,784	995,079	[5] 877,748	16,428	41,164	38,174
All other clay products					4,364	14,905	14,587
Silica brick	Number	(2)	235,877	245,881	(2)	11,280	12,757
Other nonclay refractories						9,085	10,791
All other products						310	491
POTTERY [1]							
All products, total value					35,398	112,019	111,614
Red earthenware (flower pots, etc.).		(2)	(2)	(2)	1,060	2,632	2,850
Stoneware (except chemical) and yellow and Rockingham ware.		(2)	(2)	(2)	3,349	4,349	4,503
White ware, cream color, white granite, semiporcelain, and semivitreous porcelain.		(2)	(2)	(2)	14,968	32,816	31,692
Porcelain china, bone china, delft, and Belleek ware.		(2)	(2)	(2)	2,385	967	(6)
Hotel china			(2)	(2)	(7)	9,867	10,020
Vitreous china, plumbing fixtures.		(2)	(2)	(2)	(6)	25,036	23,628
Porcelain electrical supplies		(2)	(2)	(2)	4,130	21,827	22,861
Saggers		(2)	(2)	(2)	(7)	1,764	1,916
All other products					9,506	12,761	14,144
GLASS [8]							
All products, total value					123,085	295,959	233,028
Building glass					36,824	107,962	80,972
Window glass	Sq. ft	400,999	567,151	481,021	17,496	37,525	26,814
Obscured glass, including cathedral and skylight.	do	43,040	53,951	41,545	2,417	6,916	5,093
Plate glass, total cast	do	75,770					
Polished	do	60,384	117,369	118,124	14,774	57,207	44,258
Rough, for sale as such	do	132	4,215	3,081	26	504	430
Wire glass—							
Polished	do	1,708	4,165	3,320	534	2,264	1,631
Rough, for sale as such	do	13,981	28,743	25,795	1,057	3,546	2,746
All other building glass					520	(6)	(6)
Pressed and blown glass [9]					30,279	72,086	76,657
Bottles and jars [10]					51,959	100,301	114,381
All other products					4,023	15,610	11,018

[1] From reports of Bureau of Mines, Department of Commerce.
[2] No data.
[3] Of 2,000 pounds.
[4] Clay brick, including refractory block or tile, boiler and locomotive tile, tank blocks, and other refractory clay products—9-inch equivalent.
[5] Bricks only, of 9-inch equivalent; in addition there were 133,000 tons of special shapes produced.
[6] Not shown separately. Included in "All other products."
[7] Not reported separately.
[8] In addition considerable quantities of electric-light shades, globes, etc., were made in 1914 by establishments engaged primarily in the manufacture of electrical goods.
[9] Including jelly glasses, tumblers, and goblets, but not including bottles, etc.
[10] Including demijohns and carboys.

Source: Bureau of the Census, Department of Commerce.

No. 797.—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					
1914	7,147	931	810	43,770	12,501	9,290	6,088	8,385	5,706	14,015	13,476
1915	6,851	953	856	42,145	12,231	9,536	4,796	7,801	5,186	11,259	15,800
1916	7,394	942	1,003	49,357	12,237	11,465	6,466	9,943	6,475	13,577	24,437
1917	5,865	707	758	47,936	10,665	10,391	6,174	13,255	6,821	17,307	42,502
1918	3,557	403	356	38,782	7,145	6,095	2,659	13,037	5,082	15,334	51,648
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	82,215	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	23,969	37,392

[1] Vitrified brick or block.

Sources: Bureau of the Census and Bureau of Mines, Department of Commerce.

No. 798.—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 Porto Rico

Year	Production	Exports	Imports	Year	Production	Exports	Imports
1880	834,548	1,642	509,703	1919	6,882,902	119,416	59,514
1885	985,411	2,108	440,290	1920	6,840,029	139,272	137,654
1890	1,242,779	2,464	257,323	1921	4,981,154	109,563	93,095
1895	1,913,751	3,602	279,576	1922	6,792,849	134,989	113,922
1900	2,921,708	7,511	199,909	1923	7,130,713	125,529	88,750
1905	3,635,257	34,238	161,159	1924	6,803,115	144,945	88,938
1910	4,242,792	49,013	137,103	1925	7,397,500	155,079	85,788
1915	5,352,409	80,474	122,326	1926	7,371,600	158,908	55,964
1916	6,362,906	84,065	122,079	1927	7,568,690	153,832	44,968
1917	6,978,177	113,993	64,922	1928	8,074,700	145,396	42,856
1918	7,238,744	136,783	40,290	1929	8,543,560	109,222	36,450

State or kind	1900	1910	1915	1920	1925	1928	1929
Production, total	2,921,708	4,242,792	5,352,409	6,480,029	7,397,500	8,074,700	8,543,560
By States:							
Michigan	1,009,487	1,323,283	1,762,430	2,262,915	2,172,600	2,405,240	2,650,220
New York	1,105,590	[1] 1,570,446	1,570,446	1,903,101	2,053,970	2,085,230	2,194,590
Ohio	199,540	514,339	823,234	1,057,802	1,173,590	1,308,110	1,449,360
Kansas	312,743	393,603	527,123	783,655	812,540	821,950	840,370
Louisiana	----------	(1)	(2)	265,085	500,350	630,780	525,840
California	87,060	131,252	146,784	212,008	292,480	383,730	410,300
Texas	(2)	53,503	62,297	91,103	(2)	(2)	(2)
Utah	34,878	34,997	55,279	75,259	88,150	85,000	84,940
West Virginia	34,142	21,788	32,513	29,802	25,870	18,700	20,290
Porto Rico	----------	(2)	(2)	----------	12,060	----------	(2)
Undistributed	138,268	140,093	372,303	159,299	265,890	335,160	367,650
By kinds:							
Manufactured (evaporated)	1,725,394	1,953,069	2,335,823	2,409,924	2,235,170	2,430,050	2,546,390
In brine	779,949	1,314,492	1,851,199	2,819,916	2,819,690	3,426,870	3,884,160
Rock salt	416,365	975,231	1,165,387	1,610,189	2,342,640	2,217,780	2,113,010
Total value (dollars)	6,944,603	7,900,344	11,747,686	29,894,075	26,162,361	26,772,568	27,334,695

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

Source: Bureau of Mines, Department of Commerce.

No. 799.—ACCIDENT RATES IN ALL BRANCHES OF THE MINERAL INDUSTRY, 1920 TO 1929, AND IN THE SEVERAL BRANCHES, 1928

Branch of mineral industry	Average days active	Men employed		Man shifts	Number killed	Number injured	Number killed or injured per thousand 300-day workers	
		Actual number	Equivalent in 300-day workers				Killed	Injured
1920	249	1,095,063	908,419	272,525,550	2,984	56,057	3.3	[1] 182.5
1921	188	1,044,001	653,414	196,024,209	2,381	35,416	3.6	[1] 198.0
1922	174	1,092,863	635,299	190,589,710	2,529	46,307	4.0	[1] 201.1
1923	222	1,153,894	852,145	255,643,525	3,071	59,570	3.6	[1] 203.9
1924	220	1,073,630	787,065	236,119,757	3,031	57,766	3.9	[1] 201.1
1925	222	1,049,579	777,896	233,368,875	2,826	58,704	3.6	[1] 197.2
1926	242	1,058,843	855,632	256,689,813	3,201	52,752	3.7	[1] 178.1
1927	225	1,044,537	782,635	234,790,290	2,797	45,618	3.6	[1] 163.2
1928	231	951,449	733,728	220,118,341	2,629	38,717	3.6	[1] 146.1
1928								
Coal mines	**206**	**682,831**	**468,680**	**140,604,141**	**2,176**	(2)	**4.64**	-------
All metal mines [3]	**288**	**113,866**	**109,345**	**32,803,610**	**273**	**22,483**	**2.50**	**205.61**
Copper mines	324	30,561	33,002	9,900,647	100	7,293	3.03	220.99
Gold, silver, and miscellaneous metal mines	289	31,622	30,441	9,132,215	79	8,180	2.60	268.72
Iron mines	267	29,145	25,956	7,786,884	56	2,547	2.16	98.13
Lead and zinc mines (Mississippi Valley)	251	10,334	8,659	2,597,581	14	2,560	1.62	295.65
Nonmetallic mineral mines	277	12,204	11,287	3,386,283	24	1,903	2.13	168.60
All quarries (including outside works)	272	89,667	81,325	24,397,377	119	10,568	1.46	129.95
Cement-rock quarries	320	22,315	23,809	7,142,679	25	1,161	1.05	48.76
Granite quarries	250	11,314	9,439	2,831,810	11	1,713	1.17	181.48
Limestone quarries	258	37,830	32,522	9,756,499	60	5,399	1.84	166.02
Marble quarries	288	6,777	6,505	1,951,383	7	718	1.08	110.38
Sandstone and bluestone quarries	230	3,849	2,949	884,536	3	473	1.02	160.50
Slate quarries	264	3,674	3,229	968,813	4	513	1.24	158.87
Trap-rock quarries	220	3,908	2,872	861,657	9	591	3.13	205.78
All quarries (excluding outside works)	249	46,758	38,760	11,628,064	77	6,297	1.99	162.46
All quarries (outside works only)	298	42,909	42,565	12,769,313	42	4,271	.99	100.34
Metallurgical plants	348	45,695	52,668	15,800,284	44	4,654	.84	88.36
Ore-dressing plants	315	11,758	12,357	3,706,996	15	1,437	1.21	116.21
Smelters	358	20,393	24,310	7,293,096	18	1,906	.74	78.40
Auxiliary works	354	13,544	16,001	4,800,192	11	1,311	.69	81.93
All coke ovens	336	19,390	21,710	6,512,929	17	1,012	.78	46.61
Beehive coke ovens	216	3,161	2,279	683,794	3	160	1.32	70.21
By-product coke ovens	359	16,229	19,431	5,829,135	14	852	.72	43.85

[1] Excluding coal mines.
[2] Not available.
[3] Includes mines producing nonmetallic minerals other than coal.

No. 800.—FATAL ACCIDENTS IN MINERAL INDUSTRIES: BY CAUSES

Class of plants and cause	1922	1923	1924	1925	1926	1927	1928	1929
Coal mines	**1,984**	**2,462**	**2,402**	**2,234**	**2,518**	**2,231**	**2,176**	**2,187**
Falls of roof (coal, rock, etc.)	788	1,058	941	977	1,093	1,015	918	990
Falls of face or pillar coal	120	109	121	103	121	134	150	192
Mine cars and locomotives	373	449	404	385	463	386	385	441
Explosions of gas or coal dust	311	372	536	345	422	247	376	195
Explosives [1]	93	115	99	102	96	110	74	88
Electricity (shock or burns)	83	83	96	100	112	114	93	94
Mining machines and machinery	41	49	38	44	35	38	39	41
Mine fires (burned, suffocated, etc.)	-------	-------	2	10	1	4	1	1
Shaft fatalities	41	46	29	34	35	29	25	29
Railway cars and locomotives	22	24	20	16	20	15	17	13
Other causes	112	157	116	118	120	139	98	103

[1] Includes premature blasts, explosion of misfires, suffocation by gas from explosives, flying pieces from blasts, etc.

No. 800.—Fatal Accidents in Mineral Industries: By Causes—Contd.

Class of plants and cause	1922	1923	1924	1925	1926	1927	1928	1929
Metal mines[1]	**344**	**367**	**418**	**371**	**430**	**352**	**273**	(2)
Falls or slides of rock or ore	105	111	131	116	126	103	88	-------
Rock or ore (underground loading)	3	2	8	4	6	6	8	-------
Explosives	30	42	52	52	49	37	21	-------
Haulage	37	62	58	56	39	41	32	-------
Falls of persons	48	50	44	45	49	53	34	-------
Run or fall of ore (chute, pocket, or bins)	7	6	4	8	9	6	7	-------
Machinery, other than locomotives	11	11	9	7	5	14	8	-------
Electricity	7	12	13	20	21	10	10	-------
Mine fires and suffocation from natural gases	48	7	7	7	5	17	4	-------
Shaft fatalities, other than falls of persons	28	31	16	24	26	31	31	-------
Other causes	20	33	76	32	95	34	30	-------
Quarries	**132**	**143**	**138**	**149**	**154**	**135**	**119**	(2)
Falls or slides of rock or overburden	25	31	26	34	32	38	29	-------
Explosives	36	12	16	20	23	18	9	-------
Haulage	15	28	23	22	23	19	16	-------
Falls of persons	7	16	16	15	9	12	19	-------
Machinery	24	21	20	26	20	19	19	-------
Drilling and channeling	1	-------	1	1	-------	1	2	-------
Other causes	24	35	36	31	47	28	25	-------
Smelting plants	16	17	16	19	20	22	18	-------
Ore-dressing plants	12	24	20	17	13	17	15	-------
Coke ovens	29	45	24	28	51	25	17	-------

[1] Includes mines producing nonmetallic minerals other than coal. [2] Not yet available.

No. 801.—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
1919	145,262	134,871	468	31,178	328
1920	136,583	134,540	425	32,205	357
1921	93,929	74,510	230	18,424	180
1922	105,697	97,138	344	25,840	240
1923	123,279	121,866	367	33,129	434
1924	123,128	119,113	418	32,706	412
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
Quarries:					
1915	100,740	82,447	148	9,148	523
1919	75,505	63,794	123	8,951	248
1920	86,488	77,089	178	10,880	337
1921	77,185	59,958	120	10,126	339
1922	79,081	68,861	132	11,442	397
1923	92,455	85,153	143	14,547	443
1924	94,242	84,426	138	14,307	470
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
Metallurgical plants:					
1916	80,201	88,596	83	14,863	217
1919	61,120	64,358	64	8,053	73
1920	59,232	65,587	61	8,714	149
1921	33,430	30,549	27	4,456	38
1922	44,000	46,008	45	6,600	78
1923	53,871	59,499	58	8,260	164
1924	56,196	62,948	55	8,132	94
Metallurgical Plants—Con.					
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
Coke ovens:					
1916	31,603	34,119	45	5,154	83
1919	28,741	27,674	53	3,908	123
1920	28,139	29,921	49	3,336	79
1921	16,204	13,868	17	1,829	24
1922	19,278	18,236	29	1,674	36
1923	23,729	25,627	45	2,517	76
1924	20,451	20,681	24	1,607	38
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
Coal mines:					
1911	728,348	534,122	2,656	(1)	(1)
1915	734,008	511,598	2,269	(1)	(1)
1916	720,971	565,766	2,226	(1)	(1)
1919	776,569	542,217	2,323	(1)	(1)
1920	784,621	601,283	2,272	(1)	(1)
1921	823,253	474,529	1,995	(1)	(1)
1922	844,807	405,056	1,984	(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	(1)	(1)	2,181	(1)	(1)

[1] Not available.

Source of Tables 800 and 801: Bureau of Mines, Department of Commerce.