No. 586.—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]

	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

	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]	49,790	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	966
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

Source: Report of the Forest Service, Department of Agriculture, on Senate Resolution 311.

[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.

No. 587.—STAND OF SAW TIMBER (ESTIMATED): BY SPECIES AND REGIONS, ABOUT 1920

[Quantities in million board feet, lumber tally]

Species	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	10,319	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	9,088	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	10,174	21,524	36,996		
Eastern softwoods, total	391,048	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

Source: Report of the Forest Service, Department of Agriculture, on Senate Resolution 311.

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

No. 588.—NATIONAL FORESTS: AREA, JUNE 30, 1924, AND AMOUNT OF STANDING TIMBER OF FORESTS, JUNE 30, 1922, IN EACH STATE

[NOTE.—Figures include acreage actually acquired under the Weeks law, see Table 590. Besides national forests and private forests there were in 1923, 6,131,409 acres of State forests, including 579,936 acres of Hawaiian forest reserves; 112,415 acres of State parks; and 3,012,494 acres of other forest lands belonging to States; also 456,134 acres of municipal and county forests]

State	Net area (acres)	Standing timber: Saw timber (million board feet)	Standing timber: Cordwood (1,000 cords)	State	Net area (acres)	Standing timber: Saw timber (million board feet)	Standing timber: Cordwood (1,000 cords)
Total	157,502,793	557,571	93,723	Nevada	4,976,889	169	6,568
				New Hampshire	406,845	856	
Alabama	100,635	94	30	New Mexico	8,520,834	10,263	11,484
Alaska	20,655,352	80,128		North Carolina	361,520	455	2,663
Arizona	11,203,438	14,575	11,427	Oklahoma	61,480		
Arkansas	961,732	1,698		Oregon	13,178,023	136,097	
California	19,137,682	99,592	25,431	Pennsylvania	73,019		
Colorado	13,248,256	21,177	10,659	Porto Rico	12,443		
Florida	337,938	182	1,288	South Carolina	19,522	24	53
Georgia	158,335	260	391	South Dakota	1,057,703	2,642	896
Idaho	19,052,460	54,224	6,017	Tennessee	250,257	295	589
Maine	32,256	68		Utah	7,463,703	5,365	6,670
Michigan	124,082	4	19	Virginia	493,727	310	570
Minnesota	1,048,444	525	1,952	Washington	9,862,610	80,461	
Montana	15,872,456	35,189		West Virginia	198,281	42	44
Nebraska	205,944			Wyoming	8,426,927	12,876	6,972

Source: Forest Service, Department of Agriculture.

No. 589.—NATIONAL FORESTS: AREA OF EACH INDIVIDUAL FOREST AS OF JUNE 30, 1924

[NOTE.—Net area is gross area less area of alienated lands]

State and forest	Net area
	Acres
Aggregate (146 national forests)	157,502,793
Alabama: Alabama	[1] 100,635
Alaska:	
Chugach	5,211,325
Tongass	15,444,027
Arizona:	
Apache	1,190,199
Coconino	1,718,460
Coronado [2]	1,302,768
Crook	886,117
Kaibab	769,894
Prescott	1,165,217
Sitgreaves	639,674
Tonto	2,259,714
Tusayan	1,271,395
Arkansas:	
Arkansas	[1] 662,980
Ozark	[1] 298,752
California:	
Angeles	829,164
California	869,777
Cleveland	549,271
Crater [2]	48,228
Eldorado [2]	552,518
Inyo [2]	1,635,430
Klamath [2]	1,525,257
Lassen	943,366
Modoc	1,462,243
Mono [2]	795,746
Plumas	1,109,523
Santa Barbara	2,022,526
Sequoia	1,450,484
Shasta	852,776
Sierra	1,493,400
Siskiyou [2]	320,384
Stanislaus	810,657
Tahoe [2]	498,895
Trinity	1,410,037
Colorado:	
Arapaho	635,900
Cochetopa	908,665
Colorado	828,082
Grand Mesa	659,264
Gunnison	905,129
Hayden [2]	65,769
Holy Cross	1,124,249
La Sal [2]	26,631
Leadville	927,388
Montezuma	696,981
Pike	1,084,700
Rio Grande	1,135,778
Routt	747,678
San Isabel	598,936
San Juan	1,239,841
Uncompahgre	778,291
White River	884,974
Florida: Florida	337,938
Georgia:	
Cherokee [2]	70,196
Nantahala [2]	88,139
Idaho:	
Boise	1,062,797
Cache [2]	494,161
Caribou [2]	698,255
Challis	1,253,583
Clearwater	785,376
Coeur d'Alene	661,769
Idaho—Continued.	
Idaho	1,856,789
Kaniksu [2]	186,986
Lemhi	1,354,964
Minidoka [2]	521,071
Nezperce	1,659,392
Payette	1,202,153
Pend Oreille	674,579
St. Joe	551,170
Salmon	1,664,160
Sawtooth	1,158,551
Selway	1,889,918
Targhee [2]	1,011,545
Weiser	566,241
Maine: White Mountain [2]	32,256
Michigan: Michigan	124,082
Minnesota:	
Minnesota	190,945
Superior	857,499
Montana:	
Absaroka	841,086
Beartooth	659,720
Beaverhead	1,339,421
Bitterroot	1,047,071
Blackfeet	836,970
Cabinet	829,527
Custer [2]	517,109
Deerlodge	820,503
Flathead	1,721,478
Gallatin	574,687
Helena	680,835
Jefferson	1,040,311
Kootenai	1,332,120
Lewis and Clark	810,731
Lolo	850,677
Madison	930,848
Missoula	1,630,362
Nebraska: Nebraska	205,944
Nevada:	
Dixie [2]	56,324
Eldorado [2]	409
Humboldt	1,322,616
Inyo [2]	60,376
Mono [2]	464,192
Nevada	1,175,262
Tahoe [2]	13,853
Toiyabe	1,833,956
New Hampshire: White Mountain [2]	406,845
New Mexico:	
Carson	1,066,648
Coronado [2]	125,352
Datil	2,641,123
Gila	1,596,191
Lincoln	1,123,631
Manzano	697,519
Santa Fe	1,270,370
North Carolina:	
Cherokee [2]	0
Nantahala [2]	[3] 115,982
Pisgah	[3] 245,538
Unaka [2]	0
Oklahoma: Wichita	61,480
Oregon:	
Cascade	1,022,713
Crater [2]	804,969
Deschutes	1,284,008
Oregon—Continued.	
Fremont	849,236
Klamath [2]	8,723
Malheur	1,048,666
Mount Hood	1,054,459
Ochoco	717,994
Santiam	607,078
Siskiyou [2]	1,031,783
Siuslaw	546,240
Umatilla [2]	915,461
Umpqua	1,010,326
Wallowa	937,240
Whitman	1,319,077
Pennsylvania: Allegheny	73,019
Porto Rico: Luquillo	12,443
South Carolina: Nantahala [2]	19,522
South Dakota:	
Black Hills [2]	476,140
Custer [2]	73,520
Harney	508,037
Tennessee:	
Cherokee [2]	141,028
Pisgah [2]	6,599
Unaka [2]	102,030
Utah:	
Ashley [2]	980,044
Cache [2]	278,049
Dixie [2]	796,215
Fishlake	1,378,780
La Sal [2]	504,372
Manti	722,253
Minidoka [2]	69,872
Powell	1,050,458
Uinta	1,075,994
Wasatch	608,666
Virginia:	
Monongahela [2]	10,414
Natural Bridge	140,853
Shenandoah	297,329
Unaka [2]	45,131
Washington:	
Chelan	1,980,546
Columbia	764,926
Colville	746,203
Kaniksu [2]	257,607
Mount Baker	1,459,491
Olympic	1,535,367
Rainier	1,291,944
Snoqualmie	692,753
Umatilla [2]	313,439
Wenatchee	820,334
West Virginia:	
Monongahela [2]	150,366
Shenandoah [2]	47,915
Wyoming:	
Ashley [2]	6,460
Bighorn	1,125,632
Black Hills [2]	144,416
Caribou [2]	6,315
Hayden [2]	328,124
Medicine Bow	477,835
Shoshone	1,584,306
Targhee [2]	345,569
Teton	1,880,735
Washakie	860,006
Wyoming	1,667,469

Source: Forest Service, Department of Agriculture.

[1] Figures include acreage actually acquired under the Weeks law. See Table 590.
[2] Forest lies in more than one State.
[3] Nantahala includes 3,302 acres and Pisgah, 8,087 acres, transferred from the Treasury Department.

No. 590.—FOREST LANDS ACQUIRED OR APPROVED FOR PURCHASE UNDER WEEKS LAW: BY STATES, JUNE 30, 1924

State and area	Total area approved for purchase	Area acquired	Area approved but not acquired
	Acres	*Acres*	*Acres*
Grand total	2,346,354	2,123,150	223,204
Alabama: Alabama	87,097	82,886	4,211
Arkansas, total	59,750	57,691	2,059
Arkansas	38,658	37,501	1,157
Ozark	21,092	20,190	882
Georgia, total	159,979	158,334	1,645
Georgia	70,196	70,196	
Savannah (part)	89,783	88,138	1,645
Maine: White Mountain (part)	32,256	32,256	
New Hampshire: White Mountain (part)	409,018	406,845	2,173
North Carolina, total	354,423	350,329	4,194
Boone	54,742	52,127	2,615
Mount Mitchell	77,726	76,998	728
Nantahala	75,089	74,687	402
Pisgah	83,302	83,247	55
Unaka (part)	20,097	20,097	
Savannah (part)	38,467	38,173	294
Pennsylvania: Allegheny	166,937	73,019	93,918
South Carolina: Savannah (part)	20,166	19,522	644
Tennessee, total	269,077	250,256	18,821
Cherokee (part)	141,636	141,628	8
Unaka (part)	73,012	54,207	18,805
White Top (part)	54,429	54,421	8
Virginia, total	560,929	493,728	67,201
Massanutten	59,167	59,167	
Monongahela (part)	10,414	10,414	
Natural Bridge	152,048	140,853	11,195
Potomac (part)	42,102	41,817	285
Shenandoah (part)	251,989	196,346	55,643
White Top (part)	45,209	45,131	78
West Virginia, total	226,743	193,281	33,462
Monongahela (part)	163,955	150,367	13,588
Potomac (part)	39,119	34,596	4,523
Shenandoah (part)	23,669	13,318	10,351

Source: Reports of the National Forest Reservation Commission.

[1] Figures do not include land created national forest from public domain in Alabama or Arkansas or the so-called Olmstead lands in North Carolina, transferred from the Treasury Department to the Department of Agriculture by the act of July 6, 1912.

No. 591.—NATIONAL FORESTS: STATISTICS OF OPERATIONS, YEARS ENDED JUNE 30, 1918, TO 1923

	1918	1919	1920	1921	1922	1923
Timber sales:						
Number	13,037	12,592	13,272	[1] 13,690	[1] 12,926	[1] 12,720
Quantity [2] M ft.[3]	1,451,738	798,900	1,326,922	1,276,991	1,878,464	3,146,736
Timber cut under sales do	727,983	704,769	806,131	[1] 687,922	[1] 876,973	[1] 1,055,035
Free timber given:						
Number of users	38,073	34,617	37,336	[1] 40,535	[1] 37,158	[1] 34,032
Timber cut M ft.[3]	96,616	90,798	88,060	123,245	89,510	96,985
Value dolls	127,688	113,117	113,000	117,054	98,843	97,934
Grazing, kinds of stock: [4]						
Cattle No	2,137,854	2,135,527	2,033,800	[1] 1,999,680	[1] 1,882,401	[1] 1,804,274
Goats do	57,968	60,789	53,685	42,574	36,153	31,370
Hogs do	3,371	5,154	4,066	2,453	2,149	1,347
Horses do	102,156	93,251	83,015	78,115	67,856	64,104
Sheep do	8,454,240	7,935,174	7,271,136	6,936,377	6,497,012	6,377,759
Revenue, total dolls	3,574,930	4,358,415	4,793,482	4,151,931	3,421,531	5,385,818
From—						
Timber [5] do	1,630,031	1,534,841	2,044,600	1,769,943	1,813,171	2,721,876
Water power do	93,976	72,322	89,838	85,069	99,657	73,174
Special uses do	119,979	136,134	149,142	158,296	175,182	187,501
Grazing do	1,726,113	2,609,170	2,486,040	2,132,075	1,315,975	2,341,486
All other do	4,826	5,948	23,862	6,548	17,546	11,781

Source: Reports of the Forest Service, Department of Agriculture.

[1] Calendar year.

[2] Amount sold is to be cut over a period of years, hence greater than amount cut in any one year.

[3] Board measure.

[4] Prior to 1922 figures represent the number for which permits were granted; beginning 1922, the number actually grazed.

[5] Includes receipts from timber and turpentine sales, timber settlement and trespass.

No. 592.—FOREST FIRES: NUMBER, AREA, DAMAGE, AND CAUSES

[NOTE.—Largely based on official national and State records covering in most States all forest areas, in others, specially protected areas only; for certain States, estimates of volunteer reporters only]

Group	Number of fires		Area burned (thousands of acres)				Damage (thousands of dollars)			
			Forest land		Other land		To timber		Other	
	1916–1922 [1]	1923	1916–1922 [1]	1923	1916–1922 [1]	1923	1916–1922 [1]	1923	1916–1922 [1]	1923
Total	36,112	78,829	7,244	21,672	2,710	4,403	10,739	23,742	5,725	3,991
Northeastern	5,201	6,244	139	273	53	61	679	1,329	103	110
Softwoods	1,273	1,733	36	94	21	33	202	427	31	41
Hardwoods	3,928	4,511	104	184	33	28	477	902	72	69
Appalachian	3,446	5,697	439	514	96	272	1,122	1,945	168	251
Southeastern	11,259	39,621	3,405	16,710	1,320	2,414	4,031	14,412	762	1,210
East Mississippi	1,471	4,308	242	504	73	113	415	920	57	254
West Mississippi	4,954	12,789	1,974	2,140	1,177	503	1,328	1,819	174	259
Lake States	1,546	3,577	415	1,260	280	237	1,018	2,323	3,846	567
Prairie	83	28	1	(2)	6	2	2	(2)	4	-------
Rocky Mountain	3,219	1,882	300	42	102	18	1,045	183	16	52
Northern	2,372	1,264	267	20	91	9	1,025	167	16	52
Southern	847	618	33	22	11	9	20	16	(2)	(2)
Pacific	4,933	4,683	329	224	603	843	1,098	811	595	1,288

Number of fires by causes	1916–1922 [1]	1923
Northeastern (Me., N. H., Vt., N. Y., Mass., R. I., Conn., N. J.), total	5,201	6,244
Lightning	31	27
Railroads	1,799	2,208
Camp fires	658	417
Smokers		991
Bush burning	543	572
Incendiary	82	109
Lumbering	33	38
Miscellaneous	520	401
Unknown	1,535	1,481
Appalachian (Pa., Del., Md., Va., W. Va.), total	3,446	5,697
Lightning	17	30
Railroads	873	1,650
Camp fires	425	1,143
Smokers		230
Bush burning	419	600
Incendiary	268	529
Lumbering	186	371
Miscellaneous	185	319
Unknown	1,073	825
Southeastern (N. C., S. C., Ga., Fla., Ala., Miss.), total	11,259	39,621
Lightning	425	685
Railroads	1,028	2,819
Camp fires	1,486	1,950
Smokers		3,707
Bush burning	1,983	7,649
Incendiary	2,689	14,917
Lumbering	994	3,242
Miscellaneous	640	3,029
Unknown	2,014	1,623
East Mississippi (Ohio, Ind., Ill., Ky., Tenn.), total	1,471	4,308
Lightning	118	277
Railroads	251	564
Camp fires	203	576
Smokers		370
Bush burning	267	904
Incendiary	167	942
Lumbering	108	238
Miscellaneous	59	361
Unknown	298	76
West Mississippi (Mo., Ark., Okla., La., Tex.), total	4,954	12,789
Lightning	124	196
Railroads	352	474
Camp fires	764	1,107
Smokers		829
West Mississippi—Continued.		
Bush burning	733	3,338
Incendiary	1,168	3,629
Lumbering	315	527
Miscellaneous	286	2,270
Unknown	1,212	419
Lake States (Mich., Wis., Minn.), total	1,546	3,577
Lightning	11	13
Railroads	341	680
Camp fires	183	487
Smokers		259
Bush burning	268	611
Incendiary	21	37
Lumbering	40	90
Miscellaneous	184	282
Unknown	498	1,118
Prairie (Iowa, N. Dak., S. Dak., Nebr., Kans.), total	83	28
Lightning	44	13
Railroads	6	1
Camp fires	8	1
Smokers		7
Bush burning	5	5
Incendiary	1	1
Lumbering	2	-------
Miscellaneous	5	-------
Unknown	12	-------
Rocky Mountain (Mont., Idaho, Wyo., Colo., Ariz., N. Mex., Nev., Utah), total	3,219	1,882
Lightning	1,312	1,051
Railroads	373	62
Camp fires	620	268
Smokers		249
Bush burning	210	70
Incendiary	123	29
Lumbering	103	58
Miscellaneous	115	42
Unknown	363	53
Pacific (Wash., Oreg., Calif.), total	4,933	4,683
Lightning	1,053	1,313
Railroads	264	208
Camp fires	1,244	570
Smokers		983
Bush burning	437	328
Incendiary	534	303
Lumbering	293	340
Miscellaneous	379	326
Unknown	679	312

Source: Forest Service, Department of Agriculture. [1] Annual average. [2] Less than 500.

No. 593.—LUMBER PRODUCTION: Total and by Species

[Note.—For 1889 and 1904 customs mills are excluded and beginning with 1910 in each year except 1919 custom mills and mills cutting less than 50,000 board feet are excluded. For 1919 custom mills and small mills are included. Custom mills are much less important in recent years than formerly. Apart from the specific exclusions mentioned there is considerable variation in the completeness of the returns]

[All figures in millions of board feet]

Year (calendar)	Production, all species			Year (calendar)	Production, all species		
	Total	Hardwood	Softwood		Total	Hardwood	Softwood
1869	12,756			1912	39,158	8,632	30,526
1879	18,091			1913	38,387	8,084	30,303
1889	23,842			1914	37,346	7,939	29,407
1899	[1] 34,787	8,634	26,153	1915	37,012	7,527	29,485
1904	34,135	6,782	27,353	1916	39,807	8,475	31,332
1905	30,503	5,588	24,915	1917	35,831	6,657	29,174
1906	37,551	7,315	30,236	1918	31,890	6,223	25,667
1907	40,256	9,255	31,001	1919	34,552	7,145	27,407
1908	33,224	7,678	25,546	1920	33,799	6,989	26,810
1909	44,510	10,613	33,897	1921	26,961	4,775	22,186
1910	40,018	8,857	31,161	1922	31,569	4,925	26,644
1911	37,003	8,101	28,902	1923	37,166	6,262	30,904

Species	1899	1909	1914	1919	1921	1922	1923
Softwoods:							
Yellow pine	9,659	16,277	14,473	13,063	10,960	11,501	12,949
Douglas fir	1,737	4,856	4,764	5,902	4,642	6,831	8,223
White pine	7,742	3,960	2,633	1,724	1,274	1,383	1,572
Hemlock	3,421	3,051	2,166	1,755	1,201	1,535	1,873
Western yellow pine	945	1,500	1,327	1,755	1,432	2,081	2,805
Spruce	1,448	1,749	1,246	980	629	731	758
Cypress	496	956	1,013	656	771	869	819
Redwood	360	522	535	410	468	566	592
Cedar	233	346	500	332	235	334	365
Larch	51	421	359	388	213	274	351
White fir		89	113	223	186	298	330
Sugar pine	54	97	136	134	134	194	228
Balsam fir		109	125	68	29	33	19
Lodge pole pine		24	18	16	11	14	16
All other softwood	9						4
Hardwoods:							
Oak	4,438	4,414	3,279	2,708	1,592	1,605	2,028
Maple	633	1,107	910	857	610	640	842
Red gum	285	707	675	851	683	808	1,016
Yellow poplar	1,115	858	519	329	235	274	353
Chestnut	207	664	541	546	312	311	350
Birch	133	452	431	375	319	263	351
Beech		511	376	359	190	163	191
Basswood	308	399	265	184	126	134	173
Elm	457	347	214	194	132	143	206
Cottonwood	415	266	195	144	122	114	158
Ash	269	291	189	155	128	131	149
Hickory	97	334	116	170	74	57	96
Tupelo		97	124	144	135	159	175
Walnut	39	46	26	39	31	39	49
Sycamore	30	57	23	28	18	18	25
All other hardwood	209	63	56	61			100
Unspecified hard and soft woods					67	66	

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

[1] Excludes items reported in M feet b. m. under "Other sawed products." These items are included in Table 594.

No. 594.—LUMBER: PRODUCTION BY REGIONS AND STATES

[NOTE.—See headnote, Table 593]

[In millions of board feet]

	1879	1889	1899	1909	1914	1919	1921	1922	1923
United States	18,091	23,842	35,078	44,510	37,346	34,552	26,961	31,569	37,166
Northeastern	4,643	4,726	5,709	5,197	3,553	2,584	1,797	1,423	1,632
Maine	567	597	785	1,112	993	596	422	362	376
New Hampshire	292	277	572	650	483	339	262	181	255
Vermont	323	384	376	352	250	218	139	96	120
Massachusetts	205	212	344	361	143	167	137	95	128
Connecticut	64	49	108	168	82	87	65	53	59
New York	1,184	925	878	681	486	358	284	222	236
New Jersey	110	34	74	62	49	37	24	10	14
Pennsylvania	1,734	2,133	2,333	1,403	865	630	368	333	361
Maryland	[1] 127	82	184	268	162	113	71	54	63
Rhode Island	8	8	19	25	16	11	5	3	4
Delaware	31	23	36	55	26	27	21	14	16
Central	3,349	3,130	5,643	5,487	3,621	3,016	1,647	1,762	2,045
Ohio	911	565	990	543	286	280	133	137	152
Indiana	916	755	1,037	556	299	282	138	149	189
Illinois	334	222	388	170	66	65	43	24	28
Missouri	400	402	724	660	371	321	158	202	179
West Virginia	180	302	778	1,473	1,118	763	467	554	640
Kentucky	306	423	775	861	596	512	256	210	196
Tennessee	303	460	951	1,224	885	792	452	486	661
Lake States	6,279	8,251	8,750	5,476	3,918	2,692	1,784	1,944	2,392
Michigan	4,173	4,300	3,018	1,890	1,214	876	571	657	833
Minnesota	564	1,084	2,342	1,562	1,312	700	412	512	552
Wisconsin	1,542	2,866	3,380	2,025	1,391	1,116	800	776	1,007
North Carolina Pine States	744	1,129	2,712	5,177	4,417	3,374	2,208	2,408	2,937
Virginia	316	416	959	2,102	1,488	1,098	593	617	771
North Carolina	242	515	1,287	2,178	2,228	1,654	931	936	1,096
South Carolina	186	199	466	898	702	622	684	855	1,070
Southern States	1,755	3,718	8,404	14,796	13,384	12,704	11,322	11,975	13,524
Georgia	452	575	1,312	1,342	1,026	894	793	809	1,149
Florida	248	412	790	1,202	1,074	1,137	922	980	1,110
Alabama	252	589	1,101	1,691	1,495	1,799	1,386	1758	1,787
Mississippi	169	454	1,206	2,573	2,281	2,390	2,082	2,268	2,691
Arkansas	173	538	1,624	2,111	1,797	1,772	1,301	1,382	1,538
Louisiana	133	304	1,115	3,552	3,956	3,164	3,215	3,386	3,554
Texas	329	843	1,232	2,099	1,554	1,380	1,502	1,543	1,559
Oklahoma	-------	3	22	226	201	168	120	149	136
Rocky Mountain States	154	249	556	1,292	1,340	1,299	952	1,430	1,811
Montana	21	90	256	308	318	287	214	303	427
Idaho	18	28	65	646	764	765	543	853	1,073
Arizona	11	5	36	63	70	74	46	89	131
New Mexico	11	26	31	92	57	87	95	126	126
Colorado	64	80	134	142	102	65	41	38	38
Utah	26	14	18	13	9	12	8	7	8
Wyoming	3	6	17	29	12	9	6	8	8
Pacific States	[2] 663	2,028	[2] 2,902	6,906	7,067	8,796	7,204	10,581	[2] 12,762
Washington	160	1,064	1,420	3,863	3,946	4,961	3,832	5,836	6,678
Oregon	177	446	735	1,899	1,818	2,577	2,022	3,024	3,966
California	305	518	737	1,114	1,303	1,259	1,350	1,721	[3] 2,118
All other [4]	505	612	401	179	46	85	46	45	63
Iowa	413	569	352	132	11	18	5	6	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	25.8	19.8	16.3	11.7	9.5	7.5	6.7	4.5	4.4
Central States	18.4	13.1	16.1	12.3	9.7	8.7	6.1	5.6	5.5
Lake States	34.7	34.6	24.9	12.3	10.5	7.8	6.6	6.2	6.4
North Carolina Pine States	4.1	4.7	7.7	11.6	11.8	9.8	8.2	7.6	7.9
Southern States	9.7	15.6	24.0	33.3	35.8	36.8	42.0	37.9	36.4
Rocky Mountain States	0.8	1.1	1.6	2.9	3.6	3.7	3.5	4.6	4.9
Pacific States	3.7	8.5	9.3	15.5	18.9	25.4	26.7	33.5	34.3
All other	2.8	2.6	1.1	.4	.1	.2	.1	.1	0.2

Source: State figures 1879, 1909, 1914, and 1919, Bulletin No. 1119 of the Forest Service, Department of Agriculture; all other figures, Reports of the Bureau of the Census, Department of Commerce.

[1] Includes cut of mills in District of Columbia.
[2] Total includes Nevada.
[3] Includes Nevada.
[4] Includes, besides Iowa, the plains States of Kansas, Nebraska, North and South Dakota, and in certain years small figures for the District of Columbia and Nevada.

No. 595.—ESTIMATED QUANTITY OF TIMBER REMOVED ANNUALLY FROM FORESTS OF THE UNITED STATES

[NOTE.—Quantities are based mainly upon averages of production within the period 1912–1921. Values based on prices prevailing in 1919]

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	Sets	24,000	12,000,000	178,000	36,200	141,800
Slack staves	Number	1,200,000	18,000,000	362,000	121,000	240,400
Slack heading	Sets	90,000	10,800,000	333,000	166,500	166,500
Hoops	Number	120,000	1,300,000	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	25,070,000	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	1,090	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

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

No. 596.—LUMBER: COMPOSITE PRICES

[NOTE.—The prices represent a combined weighted average for the respective species of lumber, based on quotations on various grades for each species, and the species weighted according to annual production of the previous year, changing about May of each year, when the new production figures are available. The softwood index is based upon seven species: Yellow pine, Douglas fir, North Carolina pine, white pine, hemlock, spruce, and cypress. The hardwood index is based upon 13 species: Maple, birch, basswood, elm, oak, gum, ash, cottonwood, chestnut, poplar, hickory, and walnut]

[Dollars per 1,000 feet, board measure]

	1921		1922		1923		1924	
	Hardwoods	Softwoods	Hardwoods	Softwoods	Hardwoods	Softwoods	Hardwoods	Softwoods
Year average	41.77	27.63	40.29	30.53	46.80	33.98	43.15	30.96
January	57.54	33.50	38.69	27.39	45.54	34.36	43.51	31.58
February	53.04	30.96	38.52	27.87	46.23	35.12	43.71	32.80
March	47.32	29.05	38.99	27.58	48.52	36.12	45.30	32.36
April	45.86	28.49	37.82	27.59	50.19	36.96	44.40	32.52
May	41.61	26.57	37.82	28.87	49.85	36.62	44.55	32.00
June	39.65	26.19	39.10	30.76	49.26	36.27	43.29	30.59
July	38.26	25.72	40.81	30.52	47.46	34.26	42.20	29.45
August	35.66	25.04	40.93	31.02	45.75	32.25	42.04	29.12
September	34.29	24.63	40.75	33.56	45.02	31.29	41.03	30.74
October	34.05	26.41	42.23	33.26	44.46	31.31	42.44	29.84
November	35.13	27.65	42.53	33.62	43.83	31.71	42.51	29.86
December	38.79	27.40	45.29	34.27	43.52	31.38	42.82	30.01

Source: Department of Commerce, Survey of Current Business, compiled from the Lumber Manufacturer and Dealer.

No. 597.—LUMBER: Average Mill Value per M Feet, Board Measure, by Species, for Specified Years, 1899 to 1923

Kind of wood	1899	1904	1907	1909	1911	1916	1917	1918	1919	1920	1921	1922	1923
All kinds [1]	$11.13	$12.76	$16.56	$15.38	$15.05	$15.32	$20.32	$24.79	$30.21	$38.42	$23.47	$28.15	$31.78
SOFTWOODS													
Balsam fir	(2)	(2)	16.10	13.99	13.42	16.49	20.02	27.27	32.23	34.33	25.71	25.05	27.62
Cedar	10.91	14.35	19.14	19.95	13.36	15.24	19.40	24.86	33.80	38.68	38.55	29.19	37.56
Cypress	13.32	17.50	22.12	20.46	20.54	20.85	23.92	30.56	38.38	51.02	36.88	40.05	44.61
Douglas fir	8.67	9.51	14.12	12.44	11.05	10.78	16.28	18.77	24.62	34.50	18.04	20.93	26.99
Hemlock	9.99	11.91	15.53	13.95	13.59	15.35	20.78	23.97	29.16	32.05	20.79	21.83	26.21
Larch (tamarack)	8.73	11.39	13.90	12.63	11.87	12.49	16.21	19.86	23.39	30.28	15.56	18.54	21.98
Lodgepole pine	(2)	(2)	(2)	16.25	12.41	15.13	18.34	20.95	29.98	30.58	21.81	19.07	21.76
Redwood	10.12	12.83	17.70	14.80	13.99	13.03	21.00	24.30	30.04	46.00	40.57	35.72	43.08
Spruce	11.27	14.03	17.26	16.91	16.14	17.58	24.41	28.65	30.78	38.94	25.73	25.47	31.44
Sugar pine	12.30	(2)	19.84	18.14	17.52	16.77	24.69	28.26	35.99	48.76	37.83	43.78	45.33
Yellow pine	8.46	9.96	14.02	12.69	13.87	14.33	19.00	24.38	28.71	35.80	19.42	23.66	29.82
Western yellow pine	9.70	11.30	15.67	15.39	13.62	14.52	19.59	20.87	27.75	38.73	26.95	27.75	33.09
White fir	(2)	(2)	15.54	13.10	10.64	12.25	17.16	19.61	25.56	30.44	21.37	19.97	23.84
White pine	12.69	14.93	19.41	18.16	18.54	19.16	24.81	30.84	32.83	41.49	30.03	36.37	34.85
HARDWOODS													
Ash	15.84	18.77	25.01	24.44	21.21	23.85	30.01	38.70	52.69	61.28	38.18	42.43	50.35
Basswood	12.84	16.86	20.03	19.50	19.20	21.05	25.96	34.00	40.63	54.28	33.09	35.67	45.60
Beech	(2)	(2)	14.30	13.25	14.09	16.20	19.58	25.06	29.98	36.51	26.99	26.34	30.22
Birch	12.50	15.44	17.37	16.05	16.61	19.59	24.67	29.94	35.79	53.44	31.53	35.84	43.33
Chestnut	13.37	13.78	17.04	16.12	16.63	17.05	21.54	27.31	32.30	42.48	27.87	29.29	29.75
Cottonwood	10.37	14.92	18.42	18.05	18.12	17.42	23.19	26.13	32.24	33.38	25.05	26.95	30.19
Elm	11.47	14.45	18.45	17.52	17.13	19.46	23.39	28.19	36.39	47.23	29.63	33.28	43.53
Gum, red and sap	9.63	10.87	14.10	13.20	12.11	14.64	19.56	23.21	32.68	35.24	22.46	27.07	32.35
Hickory	18.78	23.94	29.50	30.80	22.47	23.84	29.48	37.95	44.37	52.57	36.60	36.20	46.39
Maple	11.83	14.94	16.84	15.77	15.49	18.24	23.16	29.05	35.56	50.16	30.34	33.52	41.59
Oak	13.78	17.51	21.23	20.50	19.14	20.06	24.49	31.11	37.87	46.88	30.56	34.01	39.08
Sycamore	11.04	(2)	14.58	14.87	13.16	14.65	18.68	23.59	30.32	32.12	22.55	25.29	30.25
Tupelo	(2)	(2)	14.48	11.37	12.46	13.00	18.06	22.73	28.42	33.68	18.59	22.86	24.90
Yellow poplar	14.03	18.99	24.91	25.30	25.46	21.80	27.17	35.06	41.65	58.87	37.31	39.18	51.29
Walnut	36.49	45.64	43.31	43.79	31.70	42.38	72.99	77.60	72.13	88.92	88.83	80.08	109.38

Source: Bureau of the Census, in cooperation with Forest Service, Department of Agriculture.
[1] Including minor species. [2] No data.

No. 598.—VENEERS: Timber Consumed in Manufacturing Veneers

[In thousands of feet, log scale]

State	1909	1921	1923	Kind of wood	1909	1921	1923
Total	435,981	400,388	692,172	*Domestic*			
Alabama	14,565	24,482	53,714	Basswood	13,715	5,977	8,771
Arkansas	26,116	52,497	64,336	Birch	24,643	37,070	43,036
Florida	33,293	30,645	49,016	Cottonwood	30,842	27,882	39,373
Illinois	35,646	16,758	20,793	Douglas fir	1,111	16,518	63,524
Kentucky	19,356	23,086	25,020	Elm	16,254	7,698	9,569
						10,619	23,306
Louisiana	3,164	14,635	25,210	Maple	35,444		
Mississippi	7,563	23,212	45,496	Red gum	129,930	146,740	221,311
New York	24,218	14,133	22,358	Tupelo	18,476	21,494	46,896
North Carolina	19,984	24,264	53,946	Walnut	2,400	15,443	25,359
Oregon	3,291	13,182	26,369	White oak	28,742	11,852	13,460
South Carolina	2,944	12,749	20,783	Yellow pine	48,143	42,195	65,100
Tennessee	30,574	23,319	30,963	Yellow poplar	28,826	18,370	45,860
Virginia	21,609	15,582	21,179	All other	32,905	24,757	58,561
Washington	5,419	13,051	62,582				
Wisconsin	31,737	31,131	37,513	*Imported*			
All other	156,502	67,062	122,874				
				Mahogany	16,057	11,452	13,471
				Spanish cedar	5,140	2,202	1,814
				All other	3,353	119	1,861

Source: Bureau of the Census, Department of Commerce.

No. 599.—LATH AND SHINGLES: PRODUCTION, TOTAL, AND BY STATES

[All figures in thousands of lath or shingles]

Year (calendar)	Lath	Shingles	Year (calendar)	Lath	Shingles
United States:			United States—Contd.		
1899	2, 523, 998	12, 102, 017	1915	2, 745, 134	8, 459, 378
1904	2, 647, 847	14, 546, 551	1916	2, 754, 683	9, 371, 333
1906	3, 812, 807	11, 858, 260	1917	2, 281, 738	8, 696, 513
1907	3, 663, 602	11, 824, 475	1918	1, 362, 187	5, 690, 182
1908	2, 986, 684	12, 106, 483	1919	1, 724, 078	9, 192, 704
1909	3, 703, 195	14, 907, 371	1920	1, 952, 983	6, 156, 416
1910	3, 494, 718	12, 976, 362	1921	1, 970, 696	6, 843, 187
1911	2, 971, 110	12, 113, 867	1922	2, 940, 714	8, 131, 242
1912	2, 719, 163	12, 037, 685	1923	3, 328, 013	7, 506, 869

States	Lath				Shingles			
	1909	1919	1922	1923	1909	1919	1922	1923
Alabama	50, 979	42, 502	50, 885	44, 553	245, 871	62, 241	27, 108	27, 970
Arkansas	78, 362	72, 827	75, 172	54, 773	208, 080	98, 937	6, 571	30, 752
California	32, 615	43, 042	[1] 88, 018	136, 803	574, 342	191, 831	184, 009	233, 925
Florida	55, 741	76, 402	153, 329	144, 713	283, 206	128, 286	43, 295	52, 467
Georgia	58, 704	19, 718	57, 784	33, 587	443, 260	114, 806	29, 347	48, 240
Idaho	86, 740	69, 150	99, 420	107, 947	62, 308	22, 657	35, 048	21, 010
Louisiana	377, 708	199, 018	364, 545	308, 674	757, 868	300, 784	208, 604	208, 763
Maine	337, 086	104, 223	188, 706	173, 394	598, 131	188, 576	144, 941	165, 822
Michigan	218, 308	51, 469	81, 834	90, 619	891, 649	144, 173	110, 945	101, 255
Minnesota	478, 008	115, 741	107, 927	276, 361	74, 818	4, 451	11, 170	1, 842
Mississippi	90, 926	96, 204	161, 897	186, 435	151, 303	34, 002	14, 481	40, 015
Montana	35, 430	21, 362	53, 312	59, 892	525	253	202	67
North Carolina	70, 724	19, 079	21, 642	23, 125	280, 942	92, 139	40, 958	71, 086
Oregon	161, 512	122, 848	275, 590	393, 942	293, 644	530, 066	488, 116	414, 629
Texas	59, 627	35, 916	60, 287	82, 631	137, 719	13, 581	5, 592	7, 001
Virginia	127, 555	27, 073	35, 995	23, 832	39, 172	1, 637	2, 096	2, 188
Washington	451, 384	339, 058	618, 102	835, 339	8, 879, 467	7, 095, 122	6, 004, 876	5, 983, 188
West Virginia	159, 820	22, 605	49, 851	45, 023	6, 829	120	----------	524
Wisconsin	299, 845	138, 936	158, 275	157, 167	302, 863	96, 928	74, 852	66, 407
All other	481, 121	107, 505	148, 343	149, 203	585, 374	72, 114	39, 061	29, 718

[1] Includes Nevada.

No. 600.—COOPERAGE STOCK: PRODUCTIONS OF STAVES, HEADING, AND HOOPS

[NOTE.—Production of wooden hoops in 1921 was 137,380,000 and in 1923, 153,954,000, nearly all elm]

Year and State	Staves (thousands)		Heading (thousand sets)	
	Tight	Slack	Tight	Slack
Total: 1909	379, 231	2, 029, 548	20, 691	140, 234
1918	286, 401	1, 009, 971	20, 711	60, 751
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
1923				
Alabama	10, 937	40, 456	144	25, 462
Arkansas	68, 754	214, 685	5, 071	1, 074
Florida	2, 685	13, 865	102	446
Georgia	7, 978	6, 958	572	7, 269
Louisiana	27, 124	52, 836	2, 063	1, 979
Maine	(2)	10, 451	(2)	726
Mississippi	21, 012	65, 457	1, 296	(2)
Missouri	9, 090	114, 649	92	9, 248
New Hampshire	15, 188	23, 545	702	1, 279
North Carolina	(2)	52, 966	(2)	3, 338
South Carolina	--------	29, 603	--------	3, 309
Tennessee	16, 282	41, 964	2, 805	(2)
Virginia	(2)	137, 279	--------	7, 512
Washington	9, 521	(2)	1, 507	(2)
Wisconsin	--------	14, 586	--------	6, 993
All other	33, 936	74, 382	4, 388	11, 842

Kind of wood	Staves (thousands)		Heading (thousand sets)	
	Sawed tight [1]	Slack	Tight	Slack
1923				
Total	221, 625	893, 682	19, 342	80, 477
White oak	86, 183	16, 556	7, 373	1, 163
Red oak	56, 783		3, 167	
Gum	25, 974	321, 133	2, 191	14, 678
Pine	15, 070	203, 369	953	43, 718
Douglas fir	14, 041	27, 351	2, 195	1, 085
Hemlock	9, 091	(2)	1, 064	(2)
Ash	4, 389	54, 234	1, 369	1, 031
Elm	(2)	70, 125	--------	1, 191
Tupelo	(2)	67, 682	--------	1, 931
Cottonwood	(2)	38, 550	(2)	1, 940
Birch	(2)	21, 612	(2)	3, 969
Beech	--------	17, 879	--------	3, 059
Sycamore	(2)	10, 993	--------	(2)
Maple	(2)	(2)	(2)	2, 653
Basswood	--------	(2)	(2)	2, 238
All other	10, 094	44, 198	1, 030	1, 821

Source of Tables 599 and 600: Bureau of the Census, Department of Commerce, in cooperation with the Forest Service, Department of Agriculture.

[1] Classification by kind of wood applies only to sawed tight staves, which, however, are over 99 per cent of all tight staves.

[2] Included in "All other."

No. 601.—PULPWOOD: Consumption by Mills, and Mill Cost

[Note.—Consumption figures include both domestic and imported wood, the source being distinguished only as to spruce and poplar. The cost is f. o. b. 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	1910	4,094,306			1919	5,447,832	87,386	$15.95
1905	3,192,123	17,736	5.56	1911	4,328,052			1920	6,114,072	116,496	19.03
1906	3,661,176	26,412	7.21	1914	4,470,763	39,408	$8.81	1921	4,557,179	91,589	20.10
1907	3,962,660	32,360	8.17	1916	5,228,558	[1]45,786	8.76	1922	5,548,842	89,895	16.20
1908	3,346,953	28,047	8.38	1917	5,480,075	60,815	11.10	1923	5,872,870	95,306	16.23
1909	4,001,607	34,478	8.62	1918	5,250,794	73,167	13.93				

	Total consumption (cords)				Consumption by processes, 1923 (cords)				Average cost per cord, 1923
	1899	1909	1922	1923	Mechanical	Sulphite	Soda	Sulphate	
Total	1,986,310	4,001,607	5,548,842	5,872,870	1,567,812	2,864,525	835,518	605,015	$16.23
Spruce:									
Domestic	1,160,118	1,653,249	2,162,848	2,195,395	1,010,376	1,077,031	9	107,979	18.20
Imported	349,084	768,322	870,042	1,054,273	374,452	636,299	22,708	20,814	20.34
Hemlock	(2)	559,657	893,195	970,102	63,970	884,902	12	21,218	12.81
Yellow pine	(2)	90,885	372,324	419,734	11,687	8,387	118,160	281,500	9.61
Poplar:									
Domestic	236,820	302,876	157,939	152,886	9,051	2,423	141,412		15.67
Imported	20,133	25,622	179,992	181,808	1,141		180,667		17.11
Balsam fir	(2)	95,366	308,261	237,509	63,853	126,668		46,988	15.34
Yellow poplar	(3)	(3)	102,200	102,781			102,781		13.94
Tamarack or larch	(2)	(2)	68,294	56,233	1,491	2,737		52,005	10.66
Gum	(2)	(2)	52,058	43,989			43,989		15.82
Jack pine	(2)	(4)	50,400	68,558	9,851	7		58,700	10.78
White fir	(2)	37,176	45,069	65,783	21,442	44,341			11.01
Basswood	(2)	(2)	12,136	10,650	427		10,223		15.05
All other	220,155	219,467	186,366	209,235	71	240	208,924		13.23
Slabs and other mill waste	(2)	248,977	87,718	103,934		81,490	6,633	15,811	11.32

[1] Not including slabs and other mill waste in Louisiana, Massachusetts, North Carolina, and Virginia.
[2] Included in all other. [3] Included in domestic poplar. [4] Included in yellow pine.

No. 602.—WOOD PULP PRODUCTION: Total and by States and Processes

[Note.—Of the total production in 1923, including screenings, 1,464,081 tons of mechanical pulp were not steamed, and 103,713 tons steamed; of the total chemical pulp (sulphite, soda, and sulphate) 1,163,992 tons were unbleached and 1,004,880 were bleached. Blank spaces indicate figures not reported separately]

Year	Tons	Year	Tons	Year	Tons	Year	Tons	Year	Tons
1899	1,179,525	1908	2,118,947	1911	2,686,134	1918	3,313,861	1921 [1]	2,875,601
1904	1,921,768	1909	2,495,523	1914 [1]	2,893,150	1919 [1]	3,517,952	1922	3,521,644
1907	2,547,879	1910	2,533,976	1917	3,509,939	1920	3,821,704	1923 [1]	3,788,672

	1899	1909	1917	1919	1921	1922	1923
Principal States:							
Maine	231,619	620,705	898,708	916,764	710,329	862,672	901,007
New York	394,635	679,534	798,616	811,958	609,869	675,325	760,199
Wisconsin			456,129	506,549	488,501	564,606	577,993
Pennsylvania			215,060	215,686	167,310	217,115	236,900
New Hampshire			266,645	232,134	152,797	179,135	188,323
Michigan			96,623	106,194	103,532	148,912	138,034
Minnesota			140,353	129,560	117,934	162,220	170,609
Washington			93,576	83,575	95,161	102,349	136,943
West Virginia			54,813	39,195	27,623	19,051	23,072
Vermont			94,975	85,945	41,945	54,668	70,840
Massachusetts			30,802	32,611	22,064	27,797	31,369
California and Oregon			120,237	123,990	124,494	156,218	162,653
All other States	553,271	1,195,284	243,312	233,791	217,042	351,486	390,730
Processes:							
Mechanical	586,374	1,179,266	1,535,953	1,518,829	1,267,382	1,483,787	1,580,553
Sulphite	416,037	1,017,631	1,451,757	1,419,829	1,166,926	1,374,319	1,448,690
Soda	177,114	298,626	437,430	411,603	300,533	419,857	445,162
Sulphate			84,799	120,378	140,760	243,681	314,267

Source of Tables 601 and 602: Bureau of the Census, Department of Commerce, in cooperation with Forest Service, Department of Agriculture.
[1] Total includes screenings as follows: 1914, 47,593 tons; 1919, 47,223; 1921, 35,180; 1923, 52,006.

No. 603.—TURPENTINE AND ROSIN PRODUCTION

Year [1]	Turpentine (gallons)			Rosin (barrels of 500 pounds)		
	Total	From gum	From wood	Total	From gum	From wood
United States:						
1899	37,733,500	37,723,500	(3)	2,434,933	2,434,933	(3)
1904	31,129,236	30,687,051	442,185	1,964,674	1,964,674	(3)
1909	[2] 29,714,132	28,988,954	706,868	1,827,760	1,827,760	(3)
1914	[2] 27,648,939	26,980,981	575,557	[2] 1,649,160	1,615,643	20,022
1918	18,650,000	17,050,000	1,600,000	1,238,000	1,115,000	123,000
1919	19,228,174	17,693,841	1,534,333	1,269,717	1,138,660	131,057
1920	26,200,000	24,450,000	1,750,000	1,757,000	1,577,000	180,000
1921	24,770,620	24,378,854	441,766	1,690,971	1,661,624	29,347
1922	24,252,885	22,394,187	1,858,698	1,651,795	1,499,538	152,257
1923	29,781,944	27,174,580	2,607,364	1,990,865	1,790,087	200,778

	Turpentine (gallons)				Rosin (barrels of 500 pounds)			
	1914	1919	1922	1923	1914	1919	1922	1923
PRODUCTION FROM CRUDE GUM								
Alabama	2,721,777	2,037,605	2,070,931	2,101,661	165,099	120,839	133,702	151,041
Florida	12,363,232	6,902,489	8,253,899	9,746,739	733,772	486,432	555,355	660,609
Georgia	6,228,041	3,997,310	7,131,222	10,050,733	347,931	234,690	407,349	627,305
Louisiana	2,252,118	1,885,231	2,387,745	2,126,646	150,703	112,900	166,912	145,223
Mississippi	2,385,054	1,749,812	2,013,865	2,432,207	154,115	115,984	130,159	162,234
North Carolina and South Carolina	383,590	125,590	354,025	519,286	22,294	7,636	23,701	30,231
Texas	647,160	906,404	171,450	191,308	41,699	60,179	12,360	13,447

Source: Bureau of the Census, Department of Commerce, in cooperation with Forest Service, Department of Agriculture.

[1] The figures showing the productions of turpentine and rosin from crude gum beginning with 1918 refer to the crop year ended March 31 *of the year following*. All other figures relate to calendar years.
[2] Includes small quantities reported by establishments engaged in the manufacture of lumber.
[3] Not reported.

No. 604.—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 for paper made in other plants. Pulp made and consumed in the same plant is not included]

	Quantity (thousands of unit indicated)				Value (thousands of dollars)		
	Unit	1914	1921	1923	1914	1921	1923
All products, total value					332,147	667,436	907,347
Total paper	Tons	5,270	5,431	8,029	291,588	585,755	812,509
Newspaper in rolls and sheets	do	1,313	1,237	1,521	52,943	114,315	110,865
Hanging paper	do	97	57	111	4,489	5,949	10,235
Poster, novel, tablet, lining, etc	do	8	35	65	491	4,173	4,960
Book paper	do	913	807	1,221	70,690	125,493	171,136
Cover paper	do	22	16	21	2,809	4,112	4,979
Fine paper	do	248	231	377	34,055	61,314	89,098
Wrapping paper	do	882	704	1,027	49,373	86,679	120,763
Bag paper (all kinds)	do	(1)	105	124	(1)	13,857	16,579
Tag stock (rope, jute, and sulphite)	do	29	19	34	1,935	2,723	4,190
Boards	do	1,292	1,740	2,793	44,869	104,347	182,867
Tissue paper	do	115	186	251	11,536	33,647	44,144
Blotting paper	do	14	11	16	1,458	2,667	3,776
Building, roofing, asbestos, etc	do	244	217	345	9,476	12,842	23,529
All other paper	do	93	66	135	7,464	13,617	25,344
Wood pulp, for sale or transfer to other mills	do	912	868	1,063	31,078	63,374	65,497
All other products [2]	do				8,881	18,327	29,341

Source: Bureau of the Census, Department of Commerce.
[1] Not reported separately.
[2] Consists largely of paper bags and paper boxes and containers. The value of these in 1923 was: Bags, $6,639,000; boxes and containers, $18,231,000.

FISHERIES

No. 605.—QUANTITY AND VALUE OF THE PRODUCTS OF THE FISHERIES OF SPECIFIED SECTIONS

NEW ENGLAND STATES

Calendar year	Maine		New Hampshire		Massachusetts	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1880	.....	2,742,571	.....	170,634	.....	7,959,760
1887	131,379,591	2,364,906	4,254,727	99,460	299,544,343	6,464,396
1888	132,929,594	2,292,043	3,843,479	90,044	302,045,686	6,355,495
1889	129,559,864	2,111,206	4,354,568	88,511	299,217,669	5,858,274
1898	123,404,561	2,654,919	3,020,715	48,987	202,257,817	4,463,727
1902	242,390,371	2,918,772	1,593,013	50,003	230,645,950	6,482,427
1905	124,723,786	2,386,406	1,036,452	51,944	255,654,475	7,025,249
1908	173,843,000	3,257,000	677,000	53,000	244,313,000	7,095,000
1919	147,956,369	3,889,035	528,730	92,060	246,951,241	10,859,746

Calendar year	Rhode Island		Connecticut		Total	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1880	.....	696,814	.....	933,242	.....	12,503,021
1887	45,284,872	683,495	39,750,008	300,746	520,213,541	9,913,003
1888	91,687,487	825,092	42,401,612	297,337	572,907,858	9,860,011
1889	127,365,475	935,144	92,672,464	1,557,506	653,170,040	10,550,641
1898	32,854,396	955,058	31,920,417	1,559,590	393,457,906	9,682,290
1902	21,613,964	1,155,701	37,832,149	1,799,381	534,075,447	12,406,284
1905	23,896,243	1,546,658	74,972,648	3,173,948	480,283,604	14,184,205
1908	44,254,000	1,752,000	66,942,000	2,982,000	530,029,000	15,139,000
1919	48,250,883	3,296,578	23,652,647	1,700,638	467,339,870	19,838,657

SOUTH ATLANTIC STATES

Calendar year	North Carolina		South Carolina		Georgia	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1880	32,249,488	845,695	6,143,250	212,482	2,272,500	119,993
1887	45,124,956	772,957	4,075,537	157,688	1,882,790	80,745
1888	43,022,855	776,439	4,180,847	163,657	1,957,749	82,910
1889	45,545,643	950,427	4,879,125	200,381	2,643,533	106,727
1890	51,799,142	1,027,059	4,944,840	202,602	2,994,117	123,563
1897	64,234,257	1,316,017	5,280,446	210,456	4,993,100	170,605
1902	67,584,734	1,739,661	8,174,463	263,023	11,102,610	359,081
1908	101,422,000	1,776,000	14,104,000	288,000	14,828,000	701,000
1913	210,501,750	2,978,708	3,746,932	207,690	37,153,953	416,043
1923	95,192,343	2,414,499	6,763,279	284,791	39,896,386	668,129

Calendar year	Florida (east coast only)		Total	
	Pounds	*Dollars*	*Pounds*	*Dollars*
1880	2,296,750	78,408	42,951,988	1,256,578
1887	.....	.....	.....	.....
1888	.....	173,886	.....	1,106,892
1889	5,982,375	199,043	59,050,676	1,455,578
1890	7,463,531	219,870	67,201,630	1,573,704
1897	5,882,662	136,077	80,390,465	1,833,155
1902	19,581,265	477,868	106,446,072	2,839,633
1908	36,521,000	1,269,000	166,875,000	4,034,000
1913	81,211,488	1,746,175	332,614,123	5,348,616
1923	86,895,022	1,719,921	228,747,930	5,086,340

No. 605.—Quantity and Value of the Products of the Fisheries of Specified Sections—Continued

GULF STATES

Calendar year	Florida (west coast only)		Alabama		Mississippi	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1880	8,376,335	534,819	3,541,500	119,275	788,500	22,540
1887	.....	.....	.....	.....	6,548,175	189,716
1888	19,597,084	802,282	1,633,589	75,560	7,883,010	231,712
1889	23,597,240	943,845	4,560,269	146,341	8,933,339	250,834
1890	27,418,562	1,064,139	4,776,968	154,871	8,131,401	245,699
1897	28,255,219	944,793	4,699,381	134,438	7,829,585	192,298
1902	48,120,019	1,462,166	9,351,447	266,682	23,426,965	553,220
1908	37,566,000	2,120,000	10,665,000	387,000	17,302,000	459,000
1918	54,753,639	3,420,363	5,609,219	230,567	20,592,089	762,770

Calendar year	Louisiana		Texas		Total	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1880	6,996,000	392,610	3,858,875	128,300	23,561,210	1,227,544
1887	18,455,489	579,504	6,282,489	256,250	.....	.....
1888	19,121,056	612,820	6,609,161	271,257	54,843,900	1,993,631
1889	20,647,239	621,048	7,357,800	297,258	65,395,887	2,264,876
1890	20,789,203	660,134	7,959,400	313,832	69,075,534	2,438,675
1897	17,401,788	713,587	7,174,550	286,610	65,360,623	2,271,726
1902	24,754,135	858,314	8,044,404	353,814	113,696,976	3,494,196
1908	42,302,000	1,448,000	10,439,000	446,000	118,274,000	4,860,000
1918	24,953,876	1,418,367	25,014,760	677,243	130,923,583	6,510,310

GREAT LAKES

Calendar year	Lake Superior		Lake Michigan		Lake Huron		Lake Erie	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1885	8,825,980	291,523	23,518,143	878,788	11,457,170	276,397	51,456,517	1,109,096
1890	6,115,002	223,968	26,434,236	830,465	10,056,381	221,067	64,850,873	1,000,905
1893	8,096,927	252,107	30,747,755	828,611	12,064,338	306,381	42,968,325	805,979
1899	5,429,654	150,862	34,499,996	876,743	12,418,327	308,078	58,393,864	1,150,895
1903	13,205,013	342,671	33,579,498	1,090,550	14,455,209	450,318	23,188,556	760,015
1908	10,198,000	342,000	40,019,000	1,554,000	12,032,000	486,000	41,022,000	1,280,000
1917	15,447,432	726,674	35,460,628	2,270,859	13,363,207	857,478	38,309,238	2,330,249
1922	10,988,020	484,273	26,128,199	2,133,849	13,942,115	945,259	56,338,298	2,977,064

Calendar year	Lake Ontario		Lake St. Clair, St. Clair and Detroit Rivers[1]		Total	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1885	2,398,466	95,569	2,185,795	49,193	99,842,076	2,631,866
1890	3,446,448	124,786	2,994,571	73,577	113,898,531	2,471,753
1893	928,015	31,510	1,814,311	48,030	96,619,671	2,270,618
1899	2,406,332	100,997	579,067	23,864	113,727,240	2,611,430
1903	1,244,600	59,353	521,941	21,594	86,194,817	2,745,501
1908	823,000	74,000	737,000	32,000	106,631,000	3,768,000
1917	1,054,388	100,857	133,330	11,352	103,759,223	6,297,969
1922	1,625,799	131,801	310,012	17,365	108,732,443	6,089,611

PACIFIC COAST STATES

Calendar year	Washington		Oregon		California		Total	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1888	23,400,292	890,880	25,169,266	1,010,843	23,313,324	1,091,398	71,882,882	2,993,101
1892	36,757,287	931,556	28,521,105	872,405	57,838,466	3,022,991	123,116,858	4,826,964
1895	59,079,527	1,401,433	38,141,632	1,282,036	50,010,020	1,786,483	147,231,179	4,469,952
1899	121,630,226	2,884,938	23,245,501	862,880	74,462,089	2,568,383	219,337,816	6,316,171
1904	88,054,790	2,972,633	27,535,232	1,185,092	52,109,654	2,523,141	168,599,676	6,680,866
1908	100,456,000	3,513,000	28,217,000	1,356,000	47,477,000	1,970,000	176,150,000	6,839,000
1915	158,083,478	5,317,080	34,707,623	1,495,494	92,513,457	2,488,098	286,204,558	9,300,672
1922	89,469,805	4,953,913	22,371,764	1,255,689	191,126,852	6,778,981	282,968,421	12,988,583

[1] The decline in the fisheries of Lake St. Clair, St. Clair and Detroit Rivers is due largely to legal restrictions.

No. 605.—QUANTITY AND VALUE OF THE PRODUCTS OF THE FISHERIES OF SPECIFIED SECTIONS—Continued

MIDDLE ATLANTIC STATES

Calendar year	New York		New Jersey		Pennsylvania		Delaware	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1880	329, 452, 813	4, 225, 695	65, 151, 486	3, 176, 589	1, 680, 000	89, 100	11, 918, 203	997, 695
1887	127, 329, 718	3, 273, 286	65, 246, 231	4, 168, 124	7, 894, 734	333, 056	10, 396, 059	211, 099
1888	189, 666, 490	3, 347, 851	61, 115, 662	4, 198, 550	12, 900, 670	344, 004	10, 225, 941	209, 553
1889	175, 936, 098	4, 181, 794	82, 361, 635	3, 170, 376	7, 165, 777	324, 530	9, 859, 163	256, 980
1890	192, 470, 691	4, 602, 157	88, 730, 048	3, 447, 351	7, 849, 206	328, 199	10, 053, 823	267, 346
1891	170, 885, 022	4, 817, 369	79, 116, 380	3, 520, 057	7, 583, 657	322, 021	7, 697, 649	255, 423
1892	(1)	(1)	73, 267, 434	3, 646, 382	6, 324, 508	284, 031	7, 194, 688	250, 853
1897	109, 555, 566	3, 391, 595	103, 782, 517	3, 614, 434	5, 604, 263	269, 507	8, 647, 897	252, 123
1898	210, 497, 376	3, 545, 189	90, 297, 118	3, 563, 766	(1)	(1)	(1)	(1)
1901	228, 092, 285	3, 894, 270	117, 930, 964	4, 755, 522	6, 029, 538	251, 491	5, 835, 186	203, 372
1904	277, 649, 747	6, 230, 558	90, 108, 068	3, 385, 415	2, 046, 294	167, 499	5, 608, 289	259, 590
1908	71, 474, 000	4, 390, 000	74, 827, 000	3, 069, 000	4, 380, 000	280, 000	70, 769, 000	541, 000
1920	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921	210, 377, 152	4, 986, 018	96, 936, 784	5, 983, 406	594, 613	44, 621	25, 023, 193	652, 448

Calendar year	Maryland		Virginia		Total	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1880	95, 712, 570	5, 221, 715	158, 874, 609	3, 124, 444	662, 789, 681	16, 835, 238
1887	107, 981, 976	3, 514, 182	97, 635, 402	1, 606, 811	416, 484, 120	13, 106, 558
1888	114, 788, 113	3, 813, 199	101, 318, 814	1, 836, 155	490, 015, 690	13, 749, 312
1889	(1)	(1)	(1)	(1)		
1890	143, 905, 576	6, 019, 165	185, 282, 705	3, 636, 351	628, 292, 049	18, 300, 569
1891	141, 177, 827	6, 460, 759	183, 993, 834	3, 647, 845	590, 454, 369	19, 023, 474
1892	(1)	(1)	(1)	(1)		
1897	88, 538, 018	3, 617, 306	277, 993, 949	3, 179, 498	594, 172, 210	14, 324, 463
1898	(1)	(1)	(1)	(1)		
1901	82, 975, 245	3, 767, 461	378, 183, 358	4, 613, 384	819, 046, 576	17, 485, 500
1904	81, 128, 866	3, 336, 560	355, 315, 798	5, 584, 354	811, 857, 062	18, 963, 976
1908	113, 796, 000	3, 306, 000	312, 515, 000	4, 716, 000	647, 761, 000	16, 302, 000
1920	59, 530, 795	4, 198, 668	471, 219, 089	8, 541, 724		
1921	(1)	(1)	(1)	(1)		

MISSISSIPPI RIVER AND TRIBUTARIES [2]

Calendar year	Arkansas River		Atchafalaya River [3]		Cumberland River		Illinois River and tributaries		Mississippi River and minor tributaries	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1894	593, 493	22, 812	4, 567, 859	126, 622	193, 761	9, 989	6, 290, 803	174, 254	21, 241, 565	587, 760
1899	450, 950	13, 247			245, 047	16, 661	14, 581, 392	386, 284	68, 604, 277	822, 984
1903	490, 930	19, 810			81, 410	7, 564	14, 770, 212	286, 212	53, 851, 316	1, 157, 390
1922	2, 033, 684	136, 289	4, 579, 220	254, 651	728, 450	14, 677	12, 660, 512	617, 254	33, 944, 550	1, 645, 272

Calendar year	Missouri River and tributaries		Ohio River and minor tributaries		Red River and tributaries		St. Francis River and tributaries		Tennessee River and tributaries	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1894	1, 770, 466	74, 387	4, 508, 862	184, 906	1, 220, 259	35, 254	1, 624, 675	40, 427	789, 538	42, 863
1899	1, 704, 522	78, 477	2, 552, 858	140, 912	989, 156	28, 046	3, 820, 958	134, 863	1, 255, 526	62, 951
1903	1, 497, 980	80, 360	1, 498, 875	77, 080	669, 333	27, 387	485, 380	19, 133	420, 315	22, 760
1922	1, 231, 542	105, 224	7, 458, 157	379, 089	6, 676, 627	324, 542	3, 684, 040	108, 902	4, 990, 470	98, 300

Calendar year	Wabash River and tributaries		White River (Mo. and Ark.) and tributaries		Yazoo River		Total	
	Pounds	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*	*Pounds*	*Dollars*
1894	985, 561	57, 449	656, 111	25, 313	101, 875	2, 538	44, 544, 828	1, 384, 574
1899	344, 506	27, 664	1, 013, 625	49, 730	1, 234, 620	19, 210	96, 797, 437	1, 781, 029
1903	315, 380	14, 015	18, 857, 112	117, 521	435, 916	11, 936	93, 374, 159	1, 841, 168
1922	12, 062, 550	357, 833	14, 662, 413	405, 860	1, 021, 519	55, 628	105, 733, 734	4, 503, 521

Source: 1908, data published by the Bureau of the Census; other years, reports of the Bureau of Fisheries, Department of Commerce.

[1] Statistics not available.

[2] The fishery products of the Mississippi River and tributaries in 1908, as given in the report of the Bureau of the Census, "Fisheries of the United States, 1908," amounted to 148,284,000 pounds, valued at $3,125,000.

[3] Statistics of the fisheries of the Atchafalaya River were *not* included with those of the Mississippi River and tributaries prior to 1922. Statistics for the Atchafalaya for 1894 were obtained in connection with a canvass of interior waters for that year.

No. 606.—FISHERIES: Persons Engaged, Vessels and Boats, Capital, and Products, by Sections

Section	Persons engaged	Vessels employed	Boats employed	Capital invested	Products	
					Quantity	Value
				Dollars	*Pounds*	*Dollars*
Total, various years	191,997	5,519	72,047	202,637,224	2,505,245,071	90,030,829
New England States (1919)	30,767	978	10,364	40,597,097	467,339,870	19,838,657
Middle Atlantic States (1920 and 1921)[1]	55,244	1,898	20,596	38,774,431	863,681,626	24,407,785
South Atlantic States (1923)	16,208	280	6,016	8,505,223	228,747,930	5,087,340
Gulf States (1918)	14,888	533	6,642	6,537,859	130,923,583	6,510,310
Pacific Coast States (1922)	22,270	698	5,214	28,651,490	282,968,421	12,983,583
Mississippi River division (1922)	19,122	13	15,538	7,345,034	105,733,734	4,503,521
Great Lakes (1922)	8,039	606	3,661	12,046,458	108,732,443	6,699,611
Lake of the Woods and Rainy Lake (1922)	123	1	95	139,955	1,677,999	110,022
Alaska (1923)[2]	25,246	512	4,011	60,039,677	315,439,465	10,700,000

[1] Statistics for Maryland and Virginia are for 1920; for New York, New Jersey, Pennsylvania, and Delaware for 1921.

[2] The value given for the fishery products of Alaska is the estimated value of the fish to the fishermen. The value of the fishery products of Alaska in 1923 as prepared for market was $38,678,825.

No. 607.—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:									
1915	171,596	45,056	57,944	14,890	13,196	6,331	3,871	10,918	19,390
1917	175,431	56,447	53,555	7,915	14,508	3,549	1,766	17,442	20,249
1918	205,501	71,824	66,672	5,281	26,561	2,658	1,781	10,168	20,596
1919	196,481	65,374	82,716	4,330	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	11,505	7,945
1924	182,948	61,149	79,902	7,285	5,085	3,406	4,422	9,758	11,643
Boston:									
1922	106,190	31,120	52,863	3,520	3,416	1,197	3,948	2,936	7,191
1923	124,215	38,042	60,543	4,501	3,077	1,540	3,560	6,708	6,184
1924	130,966	36,046	68,142	5,700	2,145	1,861	3,935	6,319	6,820
Gloucester:									
1922	37,751	19,983	12,585	861	1,108	519	58	745	1,892
1923	35,030	10,868	7,854	588	1,159	328	108	3,809	1,315
1924	35,846	21,035	5,142	271	2,301	747	11	2,941	3,398
Portland:									
1922	15,934	4,078	4,748	994	573	532	1,618	1,045	2,347
1923	15,697	4,745	5,365	1,248	569	1,131	1,206	988	445
1924	16,136	4,368	6,617	1,314	640	798	476	498	1,425
	Value in dollars								
All three ports:									
1915	4,737,917	1,272,960	1,307,813	282,477	253,258	98,350	323,296	614,079	585,694
1917	8,361,312	2,370,814	2,516,702	341,385	579,268	119,114	219,232	1,464,119	760,678
1918	10,531,548	3,617,205	3,199,276	273,085	962,085	103,031	302,280	1,188,924	885,662
1919	7,548,383	2,583,181	2,793,938	181,053	380,515	62,169	387,191	547,242	613,094
1920	8,227,013	2,637,637	2,740,052	153,876	262,128	48,070	741,821	763,094	880,335
1921	5,722,629	1,730,767	2,046,170	109,603	164,642	37,829	803,074	335,626	494,918
1922	5,465,932	1,635,279	1,809,400	111,331	118,006	34,552	784,057	276,499	696,808
1923	7,051,154	2,184,141	2,423,177	142,367	152,189	61,728	922,654	487,637	677,261
1924	6,992,952	2,138,306	2,308,605	185,101	159,438	68,114	789,609	541,784	800,995
Boston:									
1922	4,020,105	1,011,840	1,505,425	71,473	78,662	18,417	550,735	186,071	507,482
1923	5,433,731	1,446,683	2,142,882	98,027	104,125	32,098	679,259	329,208	601,389
1924	5,401,590	1,399,161	2,037,661	148,491	84,287	33,443	711,946	347,016	633,085
Gloucester:									
1922	813,353	469,537	165,665	20,898	28,113	5,894	7,696	59,195	56,355
1923	910,739	569,421	100,003	9,031	36,156	4,288	22,221	124,258	45,301
1924	1,041,476	584,651	89,702	5,144	60,854	12,318	1,012	171,487	116,308
Portland:									
1922	632,474	153,902	138,310	18,960	11,231	10,241	225,626	31,233	42,971
1923	706,684	168,037	180,292	35,249	11,908	25,342	221,174	34,171	30,511
1924	549,886	154,494	181,242	32,466	14,297	17,353	76,651	22,381	51,002

Source of Tables 606 and 607: Bureau of Fisheries, Department of Commerce.

No. 608.—FISHERY PRODUCTS LANDED AT SEATTLE, WASH., BY AMERICAN FISHING AND COLLECTING VESSELS

Species	Quantity in thousands of pounds				Value in dollars			
	1921	1922	1923	1924	1921	1922	1923	1924
Grand total	26,095	26,415	27,625	28,233	2,202,181	2,214,654	2,630,318	2,719,222
Landed by fishing vessels, total	13,667	11,332	10,238	10,066	1,423,303	1,249,922	1,321,587	1,339,957
Halibut	11,481	9,938	7,805	7,363	1,335,658	1,196,390	1,188,878	1,197,229
Sablefish	1,519	1,014	2,109	2,030	63,685	46,652	123,514	110,971
Lingcod	463	258	194	466	16,391	4,509	4,355	14,403
Rockfishes	203	122	130	207	7,569	2,271	4,840	7,354
Landed by collecting vessels, total	12,429	15,083	17,387	18,167	776,878	964,832	1,308,731	1,339,265
Sturgeon		1	5	23		130	500	2,198
Herring	560	262	218	317	4,340	3,158	1,900	2,871
Salmon:								
Humpback or pink	1,899	242	1,746	80	54,620	6,620	69,356	2,536
Chum or keta	1,602	2,097	1,618	1,725	41,789	49,789	61,442	64,433
King or spring	4,188	5,367	7,364	8,999	434,050	534,850	789,494	913,561
Coho or silver	2,457	5,858	4,891	5,391	131,787	286,902	280,665	299,093
Sockeye or red	162	52	92	118	11,975	4,320	8,398	10,470
Miscellaneous	43				4,950			
Trout, steelhead	90	123	185	89	10,353	12,542	15,020	8,886
Smelt	371	192	230	319	24,081	16,795	22,284	24,622
Perch	60	31	61	70	3,476	2,114	4,113	4,902
Rockfishes	147	115	89	129	9,712	6,720	4,694	8,044
Lingcod	32	8	47	51	1,650	160	2,998	1,678
Flounders	107	94	71	96	2,086	1,683	1,556	1,921
Sole	207	164	232	255	6,724	5,679	8,443	9,560
Crabs	[1] 504	[2] 478	[3] 530	506	37,295	33,370	37,368	34,490

Source: Bureau of Fisheries, Department of Commerce.

[1] 22,880 dozen. [2] 21,590 dozen. [3] 23,450 dozen.

No. 609.—PRODUCTS OF FISHERIES OF CALIFORNIA

[Expressed in thousands of pounds; that is, 000 omitted]

Species	1920	1921	1922	1923
Total	212,635	127,729	468,970	230,831
Albacore and tuna	36,144	19,832	17,920	16,562
Barracuda	4,584	4,589	4,711	5,136
Bonito or skipjack	8,615	1,377	10,999	5,058
Flounders	7,793	8,430	11,341	10,485
Mackerel	2,997	2,915	3,467	3,554
Pilchard	118,518	59,332	93,400	159,197
Rockfishes	5,503	4,641	4,238	4,932
Salmon	11,077	7,991	7,235	7,090
Sea bass or white squeteague	2,376	2,070	2,196	1,732
Yellowtail	2,475	2,140	3,111	2,969
Other species	12,552	14,414	11,351	14,065
Mexican fishery products imported into California	8,121	6,700	12,146	23,957

Source: Bureau of Fisheries, Department of Commerce.

No. 610.—VALUE OF CANNED FISHERY PRODUCTS AND BY-PRODUCTS OF THE UNITED STATES AND ALASKA

[NOTE.—Owing to the variable size of cans and cases, the quantity measure of output expressed in these terms is not comparable. See also census statistics of fish canning, Tables 585 and 691]

[Values in thousands of dollars; that is, 000 omitted]

Product	1921	1922	1923	1924
Total value	54, 987	71, 842	85, 151	72, 166
Salmon	28, 867	38, 421	45, 534	42, 402
California sardines	2, 346	3, 361	4, 608	5, 446
Maine sardines	3, 961	5, 750	5, 289	7, 191
Tuna and tuna-like fishes	3, 086	4, 373	6, 915	5, 757
Shrimps and crabs	3, 921	3, 168	4, 429	4, 645
Clams	1, 167	1, 716	1, 711	2, 161
Oysters	2, 179	2, 424	2, 720	2, 478
Miscellaneous canned products	1, 039	1, 180	1, 119	2, 085
Menhaden—meal, scrap, and oil	4, 006	6, 127	6, 411	3, 310
Miscellaneous by-products	4, 415	5, 322	6, 415	6, 983

Source: Bureau of Fisheries, Department of Commerce.

No. 611.—CANNED SALMON OUTPUT, UNITED STATES AND ALASKA

[NOTE.—Salmon is packed in pound and half-pound cans and in cases of different numbers of cans, but all of the pack is reduced to the basis of cases of 48 pounds of fish. In 1923 the quantity packed in 1-pound tall cans was 5,451,842 cases of 48 cans; in 1-pound flat cans, 380,004 cases of 48 cans; in one-half-pound flat cans equivalent to 414,218 cases of 48 1-pound cans; in 1-pound oval cans, 6,909 cases of 48 cans; in one-half-pound oval cans equivalent to 604 cases of 48 1-pound cans]

[All figures expressed in thousands and tenths of thousands; thus, 5,234.9=5,234,000]

Species	Quantity in thousands of 48-pound cases					Value in thousands of dollars				
	Grand total	United States			Alaska	Grand total	United States			Alaska
		Total	Washington	Oregon and California			Total	Washington	Oregon and California	
Total, all species:										
1922	5, 234. 9	733. 2	441. 7	291. 6	4, 501. 7	38, 420. 7	8, 633. 5	4, 823. 1	3, 810. 5	29, 787. 2
1923	6, 403. 0	1, 367. 3	975. 8	391. 5	5, 035. 7	45, 533. 6	12, 660. 6	7, 533. 4	5, 127. 1	32, 873. 0
1924	6, 253. 6	958. 7	542. 0	416. 7	5, 294. 9	42, 401. 6	9, 394. 5	5, 062. 1	4, 332. 4	33, 007. 1
Coho or silver:										
1922	380. 3	204. 3	143. 5	60. 8	176. 0	2, 496. 0	1, 533. 2	1, 079. 7	453. 5	962. 8
1923	409. 7	245. 5	155. 8	89. 7	164. 1	2, 551. 9	1, 608. 6	1, 000. 7	607. 9	943. 3
1924	414. 7	231. 1	117. 7	113. 4	183. 6	3, 028. 6	1, 774. 1	906. 4	867. 7	1, 254. 6
Chum or keta:										
1922	653. 5	87. 6	83. 1	4. 5	565. 9	2, 616. 8	365. 3	345. 6	19. 7	2, 251. 5
1923	680. 0	154. 3	140. 9	13. 4	525. 6	3, 217. 5	769. 8	688. 4	81. 5	2, 447. 7
1924	1, 276. 3	247. 9	189. 0	58. 9	1, 028. 5	6, 004. 5	1, 192. 2	898. 0	294. 1	4, 812. 3
Humpback or pink:										
1922	1, 662. 0	3. 6	3. 6	--------	1, 658. 4	7, 208. 0	18. 5	18. 5	--------	7, 189. 5
1923	2, 893. 3	445. 2	443. 1	2. 1	2, 448. 1	14, 111. 7	2, 211. 7	2, 200. 6	11. 2	11, 900. 0
1924	2, 614. 1	12. 8	8. 8	4. 0	2, 601. 3	12, 916. 8	79. 4	57. 6	21. 8	12, 837. 3
King, Chinook, or spring:										
1922	344. 8	314. 1	119. 7	194. 4	30. 7	4, 820. 3	4, 572. 6	1, 696. 0	2, 876. 6	247. 7
1923	423. 0	384. 7	147. 8	236. 9	38. 3	6, 118. 7	5, 790. 4	2, 104. 4	3, 686. 0	328. 3
1924	382. 7	349. 0	134. 6	214. 4	33. 6	4, 898. 8	4, 599. 8	1, 723. 0	2, 876. 8	299. 0
Red or sockeye:										
1922	2, 168. 6	97. 9	84. 6	13. 3	2, 070. 7	20, 952. 6	1, 816. 9	1, 580. 7	236. 2	19, 135. 7
1923	1, 964. 8	105. 8	77. 0	28. 3	1, 859. 5	19, 209. 3	1, 955. 5	1, 423. 0	532. 5	17, 253. 8
1924	1, 533. 7	85. 8	80. 6	5. 2	1, 447. 9	15, 282. 6	1, 478. 7	1, 384. 8	93. 9	13, 803. 9
Steelhead:										
1922	25. 8	25. 8	7. 2	18. 6	--------	327. 0	327. 0	102. 6	224. 4	--------
1923	32. 2	32. 2	11. 2	21. 0	--------	324. 4	324. 4	116. 4	208. 0	--------
1924	32. 1	32. 1	11. 3	20. 8	--------	270. 3	270. 3	92. 3	178. 1	--------

Source: Bureau of Fisheries, Department of Commerce.

No. 612.—CANNED SALMON: Output and Prices of Alaska Product

Calendar year	Total value of pack (dollars)	Output, equivalent in cases of forty-eight 1-pound cans					
		Total	Coho or silver	Chum or keta	Humpback or pink	King or spring	Red or sockeye
1910	11,086,322	2,438,777	114,189	254,218	557,508	40,275	1,472,587
1911	14,593,237	2,823,817	133,908	323,795	1,005,278	45,518	1,315,318
1912	16,291,927	4,054,641	166,198	664,633	1,280,138	43,317	1,900,355
1913	13,531,604	3,739,185	75,779	290,918	1,372,881	34,370	1,965,237
1914	18,920,589	4,056,653	157,063	663,859	986,049	48,039	2,201,643
1915	18,653,015	4,500,293	124,268	479,946	1,875,516	88,251	1,932,312
1916	23,269,429	4,900,627	261,909	724,115	1,737,793	65,873	2,110,937
1917	46,304,090	5,947,286	193,231	906,747	2,296,976	61,951	2,488,381
1918	51,041,949	6,605,835	218,958	1,364,960	2,438,954	49,226	2,533,737
1919	43,265,349	4,583,688	232,870	1,305,563	1,611,608	95,986	1,277,661
1920	35,602,800	4,429,463	192,085	1,033,517	1,593,120	110,003	1,500,738
1921	19,632,744	2,596,826	106,555	255,495	423,984	44,994	1,765,798
1922	29,787,193	4,501,652	175,993	565,918	1,658,423	30,660	2,070,658
1923	32,873,007	5,035,697	164,107	525,622	2,448,129	38,343	1,859,496
1924	33,007,135	5,294,915	183,001	1,028,488	2,601,283	33,648	1,447,895

AVERAGE ANNUAL PRICE IN DOLLARS PER CASE OF FORTY-EIGHT 1-POUND CANS

Calendar year	Coho or silver	Chum or keta	Humpback or pink	King or spring	Red or sockeye	Calendar year	Coho or silver	Chum or keta	Humpback or pink	King or spring	Red or sockeye
1910	4.89	3.04	3.15	5.34	5.30	1918	9.15	6.27	6.58	9.85	9.44
1911	5.67	3.72	3.94	6.48	6.33	1919	11.27	6.82	8.35	13.13	12.98
1912	4.44	2.37	2.55	5.37	5.45	1920	9.13	4.19	5.47	10.97	13.05
1913	3.45	2.21	2.58	4.04	4.54	1921	5.63	3.68	4.21	10.22	8.96
1914	4.30	3.37	3.50	5.01	5.58	1922	5.47	3.98	4.34	8.08	9.24
1915	4.31	2.59	2.78	4.63	5.82	1923	5.74	4.65	4.86	8.56	9.24
1916	5.34	3.34	3.64	5.36	6.04	1924	6.83	4.68	4.93	8.89	9.53
1917	8.76	6.14	6.44	10.40	9.48						

Source: Bureau of Fisheries, Department of Commerce.

No. 613.—ALASKA FISHERIES: Summary of Products

Product	Quantity in thousands of unit specified						Value in thousands of dollars				
	Unit	1910	1915	1920	1923	1924	1910	1915	1920	1923	1924
Total							12,670	21,006	41,492	38,675	40,290
Salmon:											
Canned	Cases	2,439	4,500	4,429	5,036	5,295	11,086	18,653	35,603	32,873	33,007
Fresh and frozen	Pounds	1,320	3,137	5,165	4,692	4,495	59	219	424	377	369
Cured, all forms	do	7,744	4,929	3,067	6,484	8,184	355	341	510	952	1,352
By-products	do		1,922	2,071	1,106	2,127		40	105	35	65
Halibut, fresh and frozen	do	21,630	15,718	15,295	12,153	15,038	810	812	1,727	1,254	1,619
Herring:											
Cured for food	do	839	7,195	8,582	13,615	19,912	15	114	542	1,000	1,697
Bait	do	1,107		4,085	5,235	3,599	10		41	44	35
By-products	do	4,694	2,213	11,186	13,028	17,945	95	41	720	559	727
Cod	do	3,029	14,196	12,764	5,748	1,580	63	390	1,117	407	101
Sable fish	do	97	143	584	850	227	2	4	29	49	10
Trout	do	111	42	99	44	61	5	3	14	4	7
Other fish	do	117	106	11	15	33	6	7		1	3
Shrimps	do			112	461	528			49	178	228
Crabs	do	149	14	8	41	122	7	1	2	14	49
Clams	do	10		222	1,855	2,341			47	541	629
Whales:											
Oil	do	2,744	7,337	8,317	4,914	4,749	117	333	436	317	336
Fertilizer	do	1,664	2,990	3,190	2,314	2,189	25	48	120	59	48
All other	do	172		18	133	202	15		6	11	8

Source: Bureau of Fisheries, Department of Commerce.

No. 614.—FISH PROPAGATION: Summary of Output of Fish Eggs, Fry, and Fingerlings, by United States Bureau of Fisheries

[All quantities expressed in thousands; that is, 000 omitted]

Year ended June 30—	Total	Eggs	Fry	Fingerlings	Cost per million [1]
1895	619,916	55,408	561,894	2,613	$292.64
1900	1,164,337	88,682	1,070,757	4,898	250.00
1914	4,047,643	530,214	3,494,992	32,438	134.80
1915	4,288,758	536,260	3,694,282	58,216	131.55
1916	4,847,263	425,701	4,339,300	92,261	117.86
1917	5,158,963	318,939	4,757,909	82,115	114.46
1918	4,098,105	147,048	3,782,092	168,965	147.98
1919	5,876,985	1,177,871	4,547,340	151,774	106.67
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	128.03
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

Species	Year ended June 30, 1923				Year ended June 30, 1924			
	Total	Eggs	Fry	Fingerlings	Total	Eggs	Fry	Fingerlings
Total	4,314,850	1,463,730	2,586,812	264,316	5,361,811	1,237,582	3,863,848	260,331
Catfish	37,093			37,093	30,246			30,246
Carp	158,226	29,000	115,000	14,226	79,069	13,560	28,875	36,694
Buffalo fish	178,524	163,169	5,925	9,430	305,435	281,729		23,706
Shad	16,971		16,971		15,033		15,033	
Glut herring	150,000		150,000		95,000		95,000	
Whitefish	356,719	148,041	208,675	3	372,780	73,560	299,220	
Cisco	49,000	10,000	39,000		138,360	10,000	128,360	
Silver salmon	14,331	100	8,371	5,911	22,850		11,420	11,430
Chinook salmon	33,890	4,205	720	28,965	56,113	12,785	1,801	41,526
Sockeye salmon	93,209	10,678	31,582	50,949	42,308	3,320	8,820	30,169
Chum salmon	23,272		8,275	14,998	24,278		23,512	766
Humpback salmon	2,312		397	1,915	1,272		1,260	12
Steelhead salmon	7,358	1,744	275	5,339	7,491	2,180	384	4,927
Atlantic salmon	491		451	40	501		494	7
Landlocked salmon	897	77	728	93	998	91	752	155
Rainbow trout	6,852	2,690	754	3,408	5,697	1,361	1,261	3,076
Black-spotted trout	13,779	10,127	2,160	1,493	22,357	13,332	6,315	2,710
Loch Leven trout	44			44	4,274	2,178		2,096
Lake trout	42,233	7,253	34,748	232	36,440	1,840	34,287	313
Brook trout	12,043	725	2,841	8,477	12,639	18	3,052	9,569
Smelt	44,280	16,280	28,000		17,300	8,000	9,300	
Pike and pickerel	905			905	8,176		7,392	784
Fresh-water drum	49			49	231			231
Crappie	35,603			35,603	22,576			22,576
Largemouth black bass	2,148		806	1,342	2,387		711	1,676
Smallmouth black bass	528		449	79	666		596	70
Rock bass	64			64	101			101
Sunfish	26,854			26,854	27,553			27,553
Pike perch	100,640	37,275	63,365		168,255	97,005	71,250	
Yellow perch	140,941	3,680	136,325	936	212,640		212,009	630
White bass	40			40	714			714
Striped bass	16,341		16,341					
Cod	1,027,793	650,980	376,813		873,778	481,355	392,423	
Pollock	310,058	33,960	276,098		263,440		263,440	
Haddock	107,360	104,400	2,960		237,920	235,330	2,590	
Winter flounder	1,288,126	229,345	1,058,781		2,244,290		2,244,290	
Miscellaneous fishes	15,827			15,827	8,646			8,646

Source: Reports of the Bureau of Fisheries, Department of Commerce.

[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.

MINING AND MINERAL PRODUCTS

[NOTE.—For index numbers of mineral production see Table 695, p. 764]

No. 615.—TOTAL VALUE OF MINERAL PRODUCTS OF THE UNITED STATES

[All figures in millions of dollars]

Yearly average and year	Total	Metallic	Nonmetallic	Unspecified	Year	Total	Metallic	Nonmetallic	Unspecified
1881-1885	426	191	229	6	1909	1,887	755	1,132	(1)
1886-1890	541	248	292	1	1910	1,988	750	1,238	(1)
1891-1895	592	244	347	1	1911	1,924	681	1,243	(1)
1896-1900	828	366	461	1	1912	2,238	862	1,375	(1)
1901-1905	1,392	578	813	1	1913	2,434	879	1,554	(1)
1906-1910	1,887	769	1,118	(1)	1914	2,111	687	1,424	(1)
1911-1915	2,220	820	1,399	1	1915	2,395	992	1,400	2
1916-1920	5,124	1,796	3,322	5	1916	3,508	1,621	1,884	3
1901	1,155	493	661	1	1917	4,992	2,086	2,900	6
1902	1,328	605	722	1	1918	5,541	2,153	3,381	7
1903	1,495	589	905	1	1919	4,596	1,360	3,233	3
1904	1,359	501	858	(1)	1920	6,981	1,762	5,214	5
1905	1,624	703	921	(1)	1921	4,139	654	3,482	3
1906	1,901	886	1,015	(1)	1922	4,647	987	3,656	4
1907	2,070	904	1,165	(1)	1923	5,999	1,511	4,484	4
1908	1,592	551	1,041	(1)	1924	5,318	1,232	4,081	6

Source: Bureau of Mines, Department of Commerce.

[1] Less than $500,000.

No. 616.—YEARLY AVERAGE PRICES OF NONFERROUS METALS

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

Year	Copper, electrolytic (New York)	Lead (New York)	Tin [1] (New York)	Zinc (New York)	Zinc (St. Louis)	Antimony (New York)	Quicksilver (New York)	Platinum (New York)
1895	[2] 10.76	3.23	14.05	3.63	----------	7.560	39.58	----------
1897	[2] 11.29	3.58	13.67	4.12	----------	6.750	38.50	----------
1898	[2] 12.03	3.78	15.70	4.57	----------	8.690	40.70	----------
1899	16.67	4.47	25.12	5.75	----------	9.430	43.63	15.22
1900	16.19	4.37	29.90	4.39	----------	9.500	51.00	18.09
1901	16.11	4.33	26.74	4.07	----------	8.250	47.00	20.00
1902	11.626	4.069	26.79	4.84	----------	6.120	48.03	19.00
1903	13.235	4.237	28.09	5.40	5.191	6.000	41.32	18.91
1904	12.823	4.309	27.99	5.100	4.931	6.371	41.00	19.50
1905	15.590	4.707	31.358	5.882	5.730	10.250	38.50	20.34
1906	19.278	5.657	39.819	6.198	6.048	21.730	40.90	28.04
1907	20.604	5.325	38.166	5.962	5.812	14.840	41.50	30.98
1908	13.208	4.200	29.465	4.726	4.578	8.004	44.84	16.32
1909	12.982	4.273	29.725	5.503	5.352	7.466	46.30	24.87
1910	12.738	4.446	34.123	5.520	5.370	7.386	47.06	32.70
1911	12.376	4.420	42.281	5.758	5.608	7.540	46.54	43.12
1912	16.341	4.471	46.006	6.943	6.799	7.760	42.46	45.55
1913	15.269	4.370	44.252	5.648	5.504	7.520	39.54	44.88
1914	13.602	3.862	34.301	5.213	5.061	8.763	48.31	45.14
1915	17.275	4.673	38.590	13.230	13.054	30.280	87.01	47.13
1916	27.202	6.858	43.480	12.804	12.634	25.370	125.49	83.40
1917	27.180	8.787	61.802	8.901	8.730	20.690	106.30	102.82
1918	[3] 24.628	7.413	(4)	8.159	7.890	12.581	123.47	105.95
1919	18.691	5.750	63.328	7.338	6.988	8.190	92.15	114.61
1920	17.456	7.957	48.273	(4)	7.671	8.485	81.12	110.90
1921	12.502	4.545	28.576	(4)	4.655	4.957	45.46	75.03
1922	13.382	5.734	31.831	(4)	5.716	5.471	58.94	97.61
1923	14.421	7.267	41.799	(4)	6.607	7.807	66.50	116.53
1924	13.024	8.097	49.674	(4)	6.344	10.836	69.76	118.81

Source: Review Number and Year Book, Engineering and Mining Journal-Press.

[1] 99 per cent tin.

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

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

[4] No average computed.

No. 617.—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, 309, 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, 378, 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. 618.—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, 208	21, 280	0. 1
Number of mines and quarries	22, 084	17, 030	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, 985	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

Source: Bureau of the Census, Department of Commerce.

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

No. 619.—SIZE OF PRODUCING ESTABLISHMENTS, MINES AND QUARRIES: BY VALUE OF PRODUCTS AND BY AVERAGE NUMBER OF WAGE EARNERS FOR ALL INDUSTRIES AND FOR FOUR PRINCIPAL INDIVIDUAL INDUSTRIES, 1919

Industry and value of products per enterprise	Number	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	6,580	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	12.1
				Over 1,000	1	0.3	2,535	5.5

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

No. 620.—HOURS OF LABOR IN MINES AND QUARRIES, 1919

Industry	Total wage earners	Number 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	3,505	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 619 and 620: Bureau of the Census, Department of Commerce.

No. 621.—PRODUCING MINES AND QUARRIES: SUMMARY BY INDUSTRIES

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	931,560	4,608,253	6,723,786	526,774	1,295,936	1,238,410	3,158,464
FUELS										
Coal—										
Anthracite	192	254	160,367	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	7,792	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	30,863	23,818	83,886	58,832
Placer mines	678	112	3,684	1,380	27,278	35,632	2,670	1,914	10,237	9,369
Lead and zinc	977	432	16,807	21,884	110,559	229,541	10,478	30,708	31,363	75,579
Manganese	5	35	60	959	215	5,800	12	1,085	31	2,188
Quicksilver	12	20	544	748	784	2,607	408	823	808	1,803
Rare metals	20	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	353	18,744	8,049	61,095	55,674	11,112	8,588	18,908	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	3,901	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	328	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	2,940	10,086
Feldspar	22	30	247	349	993	1,782	107	264	271	534
Fluorspar	13	54	290	1,124	1,179	7,138	168	1,190	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	343	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	2,170
Mica	73	65	272	448	463	803	125	288	207	607
Millstones	14	11	51	37	----------	220	17	48	34	65
Mineral pigments	23	23	151	185	849	1,030	44	174	151	481
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	30	28	1,256	958	9,433	7,053	504	835	1,175	2,302

Source: Bureau of the Census, Department of Commerce.

[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 was less than one-tenth of 1 per cent of the total for all industries in 1919 and one-tenth of 1 per cent in 1909.

[3] Figures not available.

No. 622.—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			
United States	[3] 19,915	21,280	967,638	931,560	4,608,258	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	9,614	8,036	17,328	18,723
Maine	97	50	2,144	979	8,141	6,277	1,352	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	23,119	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	3,060	410	400	898	952
Connecticut	71	41	1,385	543	6,298	8,520	730	647	1,376	1,649
Middle Atlantic	6,339	6,204	376,633	334,175	1,738,613	2,124,662	204,992	458,109	376,742	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	5,303	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	237,038	237,533	430,482
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	76,650	178,673
Michigan	83	122	39,169	31,292	273,861	337,382	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	193	16,489	11,274	23,453	32,171	10,870	12,466	13,878	18,474
Missouri	1,021	468	23,426	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	1,020	565	1,027
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	160	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	2,261	109,210	129,695	536,648	849,169	49,836	149,268	105,718	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	57,850	5,230	16,108	8,796	29,363
West Virginia	798	1,714	73,410	100,812	416,252	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	3,333	2,307	10,608	13,026	1,278	2,017	2,875	4,092
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	62,908	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	56,686	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	23,893	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	920	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	1,568	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	22,033	41,511
Nevada	266	203	4,642	4,231	26,862	50,786	5,925	7,401	23,272	18,054
Pacific	1,539	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	10,528	13,329
Oregon	116	50	860	740	8,070	6,264	705	993	1,191	1,885
California	1,329	725	20,517	19,344	162,238	313,213	19,050	31,748	63,382	163,770

Source: Bureau of the Census, Department of Commerce.

[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.

No. 623.—MINERAL PRODUCTS OF THE UNITED STATES: QUANTITIES AND VALUES

Product	Quantity						Value in thousands of dollars					
	1910	1915	1920	1922	1923	1924	1910	1915	1920	1922	1923	1924
METALLIC												
Aluminum							8,956	16,280	41,375	13,622	28,305	37,607
Antimonial lead [1] ... short tons	14,069	23,224	12,535	8,075	14,190	20,787	1,338	3,666	1,963	845	1,950	3,377
Antimony [2] ... do	2,229	5,364	2,785	1,441	2,170	2,763	[2] 369	[2] 2,374	[2] 473	[2] 156	[2] 339	[2] 597
Bauxite ... long tons	148,932	297,041	521,308	309,600	522,690	347,570	716	1,515	3,247	2,012	3,157	2,138
Cadmium ... pounds	4,700	91,415	129,283	131,590	183,816	129,328	3	108	151	143	162	78
Chromite ... long tons	205	3,281	2,502	355	227	288	3	37	45	7	4	1
Copper, [3] sales value ... 1,000 pounds	1,080,160	1,388,010	1,209,061	950,286	1,435,000	1,634,249	137,180	242,902	222,467	128,289	210,945	214,087
Ferro-alloys ... long tons	(4)	388,644	612,808	423,280	579,817	498,218	(4)	17,450	77,519	28,259	49,877	43,250
Gold ... 1,000 troy ounces	4,657	4,888	2,476	2,363	2,503	2,511	96,269	101,036	51,187	48,849	51,734	51,912
Iron:												
Ore [5] ... 1,000 long tons	56,890	55,493	69,281	50,613	69,811	52,083	[5] 140,736	[5] 101,289	[5] 285,006	[5] 157,809	[5] 240,739	[5] 151,307
Pig ... do	26,674	30,384	36,710	27,671	38,361	31,064	412,162	401,410	1,140,904	608,145	946,799	665,079
Lead (refined), [3] sales value ... short tons	375,402	507,026	476,849	468,746	543,841	566,407	33,055	47,660	76,296	51,562	76,138	90,625
Manganese ore (35 per cent or more MN.) [6] ... long tons	2,258	9,613	94,420	15,682	32,269	58,348	23	113	2,396	473	880	1,319
Manganiferous ore (5 to 35 per cent MN.) [6] ... long tons	61,101	195,735	767,664	625,659	1,433,897	898,468	187	817	2,438	1,766	4,888	2,739
Nickel (value at New York City) ... short tons		822	365	208	100	191		538	293	133	72	115
Ores (crude):												
Copper ... 1,000 short tons	28,497	43,404	36,765	26,893	45,573	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Copper-lead and copper-lead zinc ... do	20	11	27	52	162	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Dry and siliceous (gold and silver) ... do	9,646	12,687	8,590	8,728	9,122	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Lead ... do	5,781	7,497	7,200	7,288	7,613	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Lead-zinc ... do	12,390	18,176	12,383	8,555	10,987	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Zinc ... do			2,651	2,667	4,064	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Platinum and allied metals (value at New York City) ... troy ounces	733	8,665	41,544	57,718	49,797	66,007	25	479	4,698	5,933	5,762	7,611
Quicksilver (value, San Francisco) ... flasks (75 pounds net)	20,601	21,033	13,392	6,375	7,937	10,061	958	1,805	1,067	368	521	691
Quicksilver ore ... short tons	124,000	159,000	109,000	43,000	51,000	70,000	(7)	(7)	(7)	(7)	(7)	(7)
Silver ... 1,000 troy ounces	57,138	74,961	55,362	56,240	73,335	64,792	30,855	37,397	60,802	56,240	69,135	43,540
Tin (metallic equivalent) ... short tons		102	22	1	2	7	23	79	22		2	7
Titanium ore (rutile) ... do	566	250	277	310	270		44	28	(8)	(8)	(8)	
Tungsten ore (60 per cent concentrate) ... do	1,821	2,332	216		241	374	833	4,100	102		145	200
Uranium and vanadium ores ... do			35,076	929	2,025	(8)		694	2,401	166	150	(8)
Zinc, [3] sales value ... do	252,479	458,135	430,045	353,274	508,335	515,831	27,268	113,617	72,907	40,273	69,134	67,058
Total value of metallic products (approximate)							749,879	991,730	1,762,350	987,180	1,510,800	1,231,500

NONMETALLIC												
Arsenious oxide ... short tons	1,497	5,493	11,502	10,027	14,271	14,453	52	302	2,021	1,475	2,809	2,655
Asbestos ... do	3,693	1,731	1,648	67	227	300	68	77	678	10	10	43
Asphalt ... do	260,080	740,254	898,993	1,132,937	1,395,890	1,729,321	3,080	5,242	13,199	12,639	15,946	18,293
Barytes (crude) ... do	42,975	168,547	228,113	155,040	214,183	201,000	122	381	2,142	1,124	1,664	1,503
Borates ... do	42,357	67,003	120,320	85,220	136,650	116,110	1,202	1,677	2,173	2,705	3,995	3,184
Bromine ... 1,000 pounds	245	356	1,161	1,005	842	2,034	32	856	745	151	146	595
Calcium-magnesium chloride ... short tons	10,971	20,535	27,849	33,067	44,961	58,791	75	131	539	571	663	1,165
Cement ... 1,000 bbls. (376 lbs. net)	77,785	87,685	97,079	118,591	137,184	147,165	68,752	75,155	195,590	208,464	259,632	269,326
Clay:												
Products							166,827	160,080	373,670	[9] 321,494	[9] 424,583	([10])
Raw ... 1,000 short tons	2,389	2,363	3,116	2,648	3,435	3,677	[5] 3,625	[5] 3,972	[5] 11,614	[5] 8,331	[5] 11,189	[5] 11,479
Coal:												
Bituminous [11] ... do	417,111	442,624	568,667	422,268	564,157	483,280	469,282	502,038	2,129,933	1,274,820	1,513,327	([10])
Pennsylvania anthracite ... 1,000 long tons	75,433	79,460	79,998	48,824	83,338	80,548	160,275	184,653	434,252	273,700	506,787	([10])
Coke [5] ... 1,000 short tons	41,709	41,581	51,345	37,124	56,978	43,652	[5] 99,743	[5] 105,504	[5] 494,246	[5] 238,313	[5] 373,497	([5], [17])
Diatomaceous (infusorial earth and tripoli ... short tons		35,304	102,155	74,966	92,915	91,639	130	167	1,649	703	1,082	1,083
Emery ... do	1,028	3,063	2,327	1,468	2,286	2,195	15	31	22	18	29	20
Feldspar (crude) ... long tons	72,413	93,855	135,551	117,127	145,004	204,772	502	489	851	845	1,058	1,509
Fluorspar ... short tons	69,427	136,941	186,778	141,596	121,188	124,979	430	764	4,719	2,531	2,506	2,451
Fuller's earth ... do	32,822	47,901	128,487	138,944	149,134	177,994	294	489	2,506	2,290	2,248	2,632
Garnet for abrasive purposes ... do	3,814	4,301	5,476	7,054	9,006	8,290	114	140	434	567	688	674
Gems and precious stones							296	170	265	71	65	([15])
Graphite:												
Amorphous ... short tons	1,407	1,181	4,694	2,200	4,056	4,071	40	12	50	([6])	40	39
Crystalline ... 1,000 pounds	5,591	7,074	9,632	1,850	3,965	1,800	296	417	576	85	151	49
Grindstones and pulpstones ... short tons			53,484	26,524	46,570	38,184	796	648	1,707	1,020	1,689	1,667
Gypsum ... 1,000 short tons	2,379	2,448	3,129	3,780	4,753	5,043	6,523	6,597	24,533	29,361	34,888	42,725
Lime ... do	3,508	3,623	3,570	3,640	4,076	4,022	14,088	14,424	37,544	33,255	39,994	38,670
Magnesite (crude) ... short tons	12,443	30,499	303,767	55,790	147,250	120,100	75	274	2,748	572	1,104	1,041
Mica:												
Scrap ... do	4,065	3,959	5,723	6,641	8,054	4,000	53	51	167	114	130	80
Sheet ... 1,000 pounds	2,476	554	1,683	1,078	2,063	2,075	284	378	547	194	311	313
Millstones							28	53	63	21	22	30
Mineral paints:												
Natural pigments [12] ... short tons	68,623	57,442	([12])	([12])	([12])	([12])	528	552	([12])	([12])	([12])	([12])
Zinc and lead pigments [13] ... do	75,162	141,383	143,244	162,815	163,240	173,859	6,853	14,962	24,565	22,205	23,660	25,711
Mineral waters ... 1,000 gallons	62,030	52,114	36,218	38,493	44,431	([14])	6,358	5,139	4,861	5,498	6,493	([14])
Natural gas ... 1,000,000 cu. ft.	509,155	628,579	798,210	762,546	1,008,135	1,095,000	70,756	101,312	196,194	221,535	239,966	254,000
Natural-gas gasoline ... 1,000 gallons		65,365	384,744	505,832	816,226	894,000		5,151	71,788	72,711	77,268	77,500
Oilstones, etc ... short tons			1,144	1,016	1,223	1,056	229	115	232	197	232	259
Peat ... do		42,284	73,204	60,680	61,355	55,469	140	289	922	398	377	395
Petroleum ... 1,000 barrels (42 gals.)	209,557	281,104	442,929	557,531	732,407	707,265	127,900	179,463	1,360,745	895,111	978,430	986,000
Phosphate rock ... 1,000 long tons	2,655	1,836	4,104	2,418	3,007	2,868	10,917	5,413	25,080	10,483	11,576	10,252
Potash (K_2O) ... short tons		1,090	41,444	11,313	19,281	21,880		342	7,463	464	785	843
Pumice ... do	23,271	27,708	41,838	45,262	56,575	43,651	95	63	114	176	214	190
Pyrites ... long tons	241,612	394,124	310,777	169,043	181,628	160,096	978	1,675	1,597	671	661	645
Salt ... 1,000 short tons	4,243	5,352	6,840	6,793	7,131	6,803	7,900	11,748	29,894	27,465	27,796	25,838
Sand:												
Glass ... do	1,461	1,884	2,166	1,769	2,035	2,300	1,517	1,607	4,749	2,866	3,752	3,760
Molding, building, etc., and gravel ... do	67,949	74,719	79,875	93,098	137,897	137,040	19,521	21,515	60,913	61,751	87,152	88,100

For footnotes see page 688.

No. 623.—Mineral Products of the United States: Quantities and Values—Continued

Products	Quantity						Value in thousands of dollars					
	1910	1915	1920	1922	1923	1924	1910	1915	1920	1922	1923	1924
NONMETALLIC—continued												
Sand-lime brick ..... thousands	172,507	179,643	169,761	(14)	[9] 213,425	[9] 260,717	1,169	1,135	2,490	(14)	[9] 2,472	[9] 3,084
Silica (quartz) ..... short tons	63,577	112,575	68,190	10,653	20,601	23,150	194	274	320	101	194	162
Slate ..... do			468,700	607,680	707,160	727,700	6,237	4,959	8,726	9,177	12,077	11,776
Stone ..... 1,000 short tons			78,527	80,212	103,327	102,366	76,521	74,585	133,542	122,057	159,947	159,936
Sulphur ..... 1,000 long tons	251	294	1,518	1,344	1,619	1,537	4,522	4,959	30,000	22,000	26,000	25,000
Sulphuric acid (60° Baumé) from copper and zinc smelters ..... 1,000 short tons		[15] 905	[15] 1,230	(14)	[16] 774	[16] 875		7,621	13,617	(14)	[16] 6,340	[16] 6,996
Talc and soapstone ..... short tons	150,716	186,891	210,635	198,884	196,692	203,821	1,592	1,892	3,035	2,860	3,012	3,516
Total value of nonmetallic products (approximate)							1,237,656	1,400,484	5,214,170	3,656,410	4,483,970	4,080,500
SUMMARY												
Total value of metallic products							749,879	991,750	1,762,350	987,180	1,510,800	1,231,500
Total value of nonmetallic products (exclusive of mineral fuels)							409,455	427,867	1,021,260	918,530	1,168,190	4,080,500
Total value of mineral fuels							828,213	972,617	4,192,910	2,737,880	3,315,780	
Total value of "unspecified" (metallic and nonmetallic) products partly estimated							309	2,430	4,820	3,700	4,030	6,000
Grand total approximate value of all mineral products							1,987,844	2,394,644	6,981,340	4,647,290	5,998,860	5,318,000

Source: Bureau of Mines, Department of Commerce.

[1] From both domestic and foreign ores.
[2] Content of antimonial lead. None from other sources. Values excluded from metallic totals as the values of the antimony are included in the antimonial lead values.
[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 from these ores included elsewhere.
[8] Value included in total value of metallic products. Survey 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] Canvass discontinued after 1915. Value of iron ore sold for paint included under "Unspecified."
[13] Sublimed blue lead, sublimed white lead, leaded zinc oxide, and zinc oxide.
[14] No canvass. Estimate of value included in total value of nonmetallic products.
[15] In 1915 includes 59,189 tons and in 1920, 23,728 tons of stronger acid, not converted to 60° Baumé.
[16] Canvass discontinued by the Survey after 1920. Figures obtained through cooperation with Bureau of Census and represent production, the value having been partly estimated by the Survey to cover acid consumed by producer as well as that sold.
[17] Figures not available.

No. 624.—ALUMINUM AND BAUXITE: Production, Exports, and Imports

	1913	1918	1920	1921	1922	1923	1924
BAUXITE							
Quantities, long tons:							
Production	210,241	605,721	521,308	139,550	309,600	522,690	347,570
Georgia, Alabama, and Tennessee	40,370	42,329	40,029	14,700	42,810	28,810	19,940
Arkansas	169,871	562,892	481,279	124,850	266,790	493,880	327,630
Imports for consumption	21,456	3,653	42,895	27,587	23,656	149,020	201,974
Exports	(2)	19,711	22,257	5,942	10,617	78,560	77,065
Value, [1] 1,000 dollars:							
Production	998	3,448	3,247	890	2,012	3,157	2,138
ALUMINUM							
Value, 1,000 dollars:							
Production—							
Primary metal	9,450	41,159	41,375	10,906	13,622	28,305	37,607
Secondary metal	2,199	10,114	9,489	3,775	6,086	10,825	14,596
Imports for consumption, total	4,784	555	13,077	8,890	9,695	8,743	7,145
Crude and semicrude	4,388	534	12,184	7,628	8,287	8,317	6,860
Manufactures	396	21	893	1,262	1,408	426	285
Exports, total	966	10,869	5,631	3,109	2,836	3,572	4,172
Crude and semicrude	----------	8,979	3,068	801	1,219	1,707	2,731
Manufactures	----------	1,890	2,563	2,308	1,618	1,865	1,441
Quantities, 1,000 pounds:							
Imports (crude and semicrude)	25,095	1,691	39,299	32,559	43,893	42,477	31,810
Exports (crude and semicrude)	(2)	24,135	9,408	2,196	4,701	5,982	9,918

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

No. 625.—COPPER: Production, Exports, Imports, and Consumption

[Note.—Owing to the complexities of the stages of production, of stocks in different classes of hands, of the redistribution of copper previously purchased, of 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 of consumers' stock is taken]

[All quantities except ore produced in thousands of pounds]

	1910	1915	1920	1921	1922	1923	1924
UNREFINED COPPER							
Ore produced (1,000 short tons)	28,518	43,415	36,792	13,411	26,946	45,519	(1)
Average copper yield, per cent	1.88	1.66	1.63	1.70	1.74	1.58	(1)
Smelter output	1,080,160	1,388,010	1,209,001	505,586	950,286	1,435,000	1,634,240
Mine production	1,088,237	1,488,072	1,224,550	466,191	964,584	1,477,740	(1)
Imports, unrefined:							
Ore	64,204	92,059	52,045	56,678	71,203	90,153	105,166
Concentrates	21,021	22,273	46,798	30,774	32,908	49,941	41,737
Matte and regulus			17,594	15,348	8,728	2,961	1,053
Black, in bars, pigs, etc.	[2] 259,211	[2] 193,831	244,696	171,735	302,579	395,263	471,029
REFINED COPPER PRODUCTION							
Total new and old copper	1,611,000	2,027,000	2,151,600	1,385,000	1,927,000	2,802,000	(1)
New copper (primary)	1,422,039	1,634,204	1,526,165	950,778	1,255,516	1,979,836	2,260,076
Domestic	1,071,895	1,337,706	1,182,423	609,414	904,671	1,464,165	1,674,215
Foreign	350,144	246,499	343,742	341,364	350,845	515,671	585,861
Electrolytic	1,128,305	1,360,844	1,351,693	842,621	1,112,587	1,812,328	2,076,323
Lake	221,463	236,757	153,484	100,918	122,545	137,691	145,323
Casting and best select [3]	72,271	36,603	20,989	7,239	20,384	29,816	38,419
Old copper refined (secondary)	189,000	392,400	624,900	434,600	671,800	821,800	(1)
REFINED COPPER CONSUMPTION							
New copper produced (refinery)	1,422,039	1,634,204	1,526,165	950,778	1,255,516	1,979,836	2,260,076
Refined copper imported	(1)	(2)	103,743	69,249	103,143	[4] 169,711	145,910
Refined copper exported [5]	708,316	588,797	553,070	669,038	705,025	792,074	1,072,243
Stocks, Dec. 31	122,804	82,430	659,000	459,000	216,000	264,000	248,000
Withdrawn on domestic account:							
New refined copper	732,405	1,136,618	1,053,839	610,989	896,634	1,300,473	1,354,743
New and old copper [6]	921,000	1,529,000	1,679,000	1,046,000	1,568,000	2,122,000	(1)

Source of Tables 624 and 625: Bureau of Mines, Department of Commerce.

[1] Not available.
[2] Imports of refined copper in ingots, bars, or other forms included in imports of unrefined.
[3] Includes pig for years 1915 through 1921.
[4] Revised.
[5] Includes the small exports of unrefined black blister and converter copper (bars, pigs, etc.) for years prior to 1923.
[6] Total from preceding line plus production of secondary copper as given above.

No. 626.—COPPER: SMELTER OUTPUT FROM DOMESTIC ORES

[NOTE.—Smelter output as here given represents the production o unrefined copper from domestic 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 625. The State figures represent the origin of the ore which may be smelted in another State]

Year	Production	Value	Year	Production	Value	Year	Production	Value
	1,000 pounds	*1,000 dollars*		*1,000 pounds*	*1,000 dollars*		*1,000 pounds*	*1,000 dollars*
1845	224	45	1903	698,045	95,632	1914	1,150,137	152,968
1850	1,456	320	1904	812,537	104,005	1915	1,388,010	242,902
1860	16,128	3,709	1905	888,784	138,650	1916	1,927,851	474,238
1870	28,224	5,977	1906	917,806	177,136	1917	1,886,121	514,911
1880	60,480	12,943	1907	868,996	173,799	1918	1,908,534	471,408
1885	165,875	17,915	1908	942,571	124,419	1919	1,286,419	230,274
1890	259,763	40,523	1909	1,092,952	142,084	1920	1,209,061	222,467
1895	380,613	40,726	1910	1,080,160	137,180	1921	505,586	65,221
1900	606,117	100,615	1911	1,097,233	137,154	1922	950,286	128,289
1901	602,073	100,546	1912	1,243,269	205,139	1923	1,435,000	210,945
1902	659,509	80,460	1913	1,224,484	189,795	1924	1,634,249	214,087

State of origin of ore	1900	1910	1915	1920	1921	1922	1923	1924
	Thousands of pounds							
Total	606,117	1,080,160	1,388,010	1,209,061	505,586	950,286	1,435,000	1,634,249
Alaska		4,311	70,695	66,094	76,808	59,901	68,648	77,053
Arizona	118,318	297,251	432,468	552,989	155,166	428,201	615,494	672,365
California	28,511	45,760	37,658	11,822	15,907	20,440	27,043	49,434
Colorado	7,827	9,307	7,272	4,283	6,593	3,636	4,343	4,159
Idaho	290	6,878	6,218	1,922	1,972	3,505	3,664	3,149
Michigan	145,461	221,463	238,956	153,484	100,918	122,545	137,691	145,333
Missouri			306	533	138	1,070	217	185
Montana	270,754	283,079	268,263	177,744	49,471	165,341	224,354	249,322
Nevada	408	64,495	67,757	55,580	15,129	20,399	63,496	77,281
New Mexico	4,169	3,785	62,817	52,160	18,077	29,127	57,521	78,146
Oregon		22	797	2,529	275	926	1,182	717
Pennsylvania		741		618		889	1,122	1,264
Tennessee		16,692	18,205	16,728	15,084	14,226	18,722	18,252
Utah	18,355	125,185	175,178	110,358	45,832	79,666	210,118	256,531
Washington		65	904	2,126	599	369	839	979
Undistributed	12,024	1,127	514	92	3,619	45	545	80

Source: Bureau of Mines, Department of Commerce.

No. 627.—WORLD PRODUCTION OF COPPER

[NOTE.—Figures for most countries represent smelter output. For some countries figures include copper content of ore or matte exported for smelting]

[All figures in short tons of 2,000 pounds]

Country	1913	1919	1920	1921	1922	1923	1924
World total	1,090,627	1,095,697	1,057,169	614,636	934,560	1,355,758	[1] 1,499,143
United States	612,242	643,210	604,531	252,793	475,143	717,500	817,150
Per cent	56.1	58.7	57.2	41.1	50.8	52.9	54.5
Canada	38,488	37,527	40,801	23,810	21,440	43,441	[2] 50,782
Cuba	[1] 3,747	[1] 8,267	[1] 9,259	[1] 9,039	[1] 13,007	[1] 12,125	[1] 11,905
Mexico	57,973	61,919	54,225	16,796	29,738	58,833	54,071
Bolivia	4,077	10,498	11,003	11,676	11,608	11,077	8,200
Chile	46,587	87,722	109,076	65,300	142,832	201,044	[2] 206,489
Peru	30,618	43,244	36,356	36,689	40,133	48,685	38,496
Austria		714	1,813	4,715	5,063	5,327	4,659
Germany	29,362	17,484	16,508	17,101	18,739	18,739	21,495
Spain	34,445	25,815	24,756	40,063	27,711	49,897	(3)
Yugoslavia		(4)	2,685	4,568	5,902	7,482	8,978
Japan	73,305	80,469	74,728	59,626	59,664	65,418	68,284
Australia	49,904	21,485	29,787	12,287	14,003	21,895	(3)
Belgian Congo	8,165	25,374	20,902	33,581	47,798	63,808	94,325
Other countries	101,714	19,278	20,739	26,602	21,779	30,487	(3)

Source: Bureau of Mines, Department Commerce.

[1] Estimated by Bureau of Mines, Department of Commerce.
[2] Preliminary.
[3] Data not available.
[4] Figures not available, but an estimate is included in the total.

No. 628.—REFINED PRIMARY LEAD PRODUCED AND SECONDARY LEAD RECOVERED

[NOTE.—This table, except the last column, relates to new (primary) lead only. It represents exclusively refined lead while in Table 629 part of the lead from domestic ore represents unrefined lead]

[Production in short tons (2,000 pounds), values except price per pound in thousands of dollars]

Year	Production [1]	Value	Year	Production [1]	Value	Year	Production [1]	Value	Year	Production [1]	Value
1825	1,500	228	1880	95,725	9,573	1895	235,822	15,093	1910	470,272	41,384
1830	8,000	608	1881	114,495	10,992	1896	257,487	15,449	1911	486,979	43,828
1840	17,000	1,666	1882	129,780	12,718	1897	282,169	20,316	1912	480,894	43,280
1850	22,000	2,112	1883	140,297	12,066	1898	302,148	22,963	1913	462,460	40,696
1860	15,600	1,778	1884	136,297	10,086	1899	298,047	26,824	1914	542,122	42,286
1870	17,830	2,247	1885	126,192	10,095	1900	367,773	32,364	1915	550,055	51,705
1871	19,970	2,436	1886	132,189	12,161	1901	371,032	30,909	1916	571,134	78,817
1872	25,720	3,241	1887	156,630	14,097	1902	367,892	30,167	1917	610,769	105,052
1873	41,940	5,284	1888	176,015	15,489	1903	368,939	30,991	1918	640,195	90,908
1874	51,230	6,148	1889	178,357	13,912	1904	393,452	33,337	1919	482,220	51,115
1875	58,590	6,914	1890	157,844	14,206	1905	388,307	36,501	1920	529,657	84,745
1876	62,940	7,679	1891	198,363	17,050	1906	404,746	46,141	1921	448,589	40,373
1877	80,380	8,842	1892	208,223	17,074	1907	413,389	43,819	1922	532,662	58,593
1878	89,130	6,417	1893	224,320	16,600	1908	396,564	33,311	1923	618,322	86,565
1879	90,840	7,449	1894	213,650	14,101	1909	446,909	38,434	1924 [5]	690,493	110,479

Year	Class		Source			Average value per pound	Antimonial lead, total	Secondary lead, recovered total
	Desilverized [1,2]	Soft [3]	Domestic ores and bullion [4]	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	200,918	166,855		.044	9,900	
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
1922	323,412	209,250	468,746	13,898	50,018	.055	8,075	159,560
1923 [5]	427,573	190,749	543,841	24,288	50,193	.070	14,190	194,490
1924 [5]	486,878	203,615	566,407	46,385	77,701	.080	20,787	204,500

[1] Excludes antimonial lead; includes primary lead from both domestic and foreign ore.
[2] Desilverized soft lead is included.
[3] Desilverized soft lead is excluded.
[4] Excludes antimonial lead.
[5] Preliminary.

No. 629.—SOURCES OF PRIMARY LEAD SMELTED OR REFINED IN THE UNITED STATES

[Production in short tons of 2,000 pounds. See note to Table 628]

Source of ore	1910	1915	1920	1921	1922	1923	1924
Total	494,081	580,041	547,155	445,654	545,805	628,517	706,086
From domestic ore	389,211	537,012	494,347	395,287	481,689	554,036	582,000
Arizona	948	6,953	5,987	3,313	7,218	8,828	9,372
Colorado	38,542	32,352	17,752	12,104	11,108	23,885	25,491
Idaho	109,951	160,680	117,191	99,707	91,487	127,797	123,709
Kansas	1,308	1,320	8,421	10,939	10,900	20,207	12,895
Missouri	161,659	195,634	171,999	151,028	202,245	169,323	191,501
Montana	1,943	4,853	13,231	11,565	14,551	18,345	21,226
Nevada	2,246	7,664	8,650	3,553	4,264	8,044	8,070
Oklahoma	1,805	4,346	68,494	46,902	67,436	59,602	56,017
Utah	60,605	106,105	64,006	51,872	63,130	104,678	119,318
Wisconsin	3,909	2,632	3,841	1,079	1,323	601	1,973
Undistributed	4,058	9,911	10,409	2,512	6,743	12,364	11,108
Zinc residue	2,237	4,562	4,366	713	1,284	362	1,320
From foreign ore	18,065	9,581	8,414	7,120	13,898	24,288	46,385
Africa	3,310		1,171			99	
Canada	25	1,174	1,186	2,877	3,604	3,632	4,633
Mexico	11,704	5,437	2,729	1,912	7,260	18,867	33,328
South America	2,996	2,829	2,747	2,235	2,458	1,461	7,063
Other foreign	30	141	581	96	576	229	761
From foreign base bullion	76,805	33,448	44,394	43,247	50,018	50,193	77,701
Canada			1,919	1,599	2,900		
Mexico	76,805	33,173	42,421	41,648	47,118	50,193	77,701
South America		275	54				

Source of Tables 628 and 629: Bureau of Mines, Department of Commerce.

No. 630.—LEAD: Supply and Distribution of Refined Primary Lead

[Note.—Short tons of 2,000 pounds. Apparent consumption is only approximate as no account is taken of changes in stocks outside of bonded warehouses]

	1910	1915	1920	1921	1922	1923	1924
Supply, total	473,836	550,467	565,610	481,212	536,560	639,421	705,357
Stock in bonded warehouses Jan. 1	79	2	234	1,322	347	----------	2,617
Imports of pigs, bars, and old	3,485	410	35,719	31,301	3,551	21,099	12,247
Production	470,272	550,055	529,657	448,589	532,662	618,322	690,493
Deductions, total	78,661	130,907	27,590	36,340	43,855	65,878	98,421
Exports of foreign lead:							
From warehouses	69,786	38,618	17,363	25,000	32,355	48,736	76,758
In manufactures with benefit of drawback	8,800	3,983	6,175	9,369	5,677	12,526	15,275
Exports of domestic lead	----------	88,306	2,730	1,624	5,823	1,999	5,332
Stock in bonded warehouses Dec. 31	75	----------	1,322	347	----------	2,617	5,045
Apparent consumption	395,175	419,560	538,020	444,872	492,705	573,543	606,936

No. 631.—ZINC: Production, Exports, Stocks, and Apparent Consumption

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

	1910	1915	1920	1921	1922	1923	1924[1]
Mine production (zinc content)	327,618	587,595	587,524	256,746	473,032	610,394	636,000
Colorado	38,545	52,297	24,395	1,180	11,629	26,780	31,000
Idaho	2,802	35,077	13,966	17	2,055	13,976	----------
Kansas	13,229	14,365	61,073	36,994	56,225	109,969	101,000
Missouri	128,589	136,300	24,509	10,845	16,171	18,265	----------
Montana	15,819	93,573	92,169	11,638	59,535	70,730	62,000
Nevada	1,354	12,188	5,349	35	1,309	7,083	----------
New Jersey	68,584	117,722	78,511	56,447	73,657	75,227	84,000
New Mexico	9,044	12,702	5,007	114	2,248	8,248	----------
New York	----------	2,455	5,054	1,572	4,816	8,463	----------
Oklahoma	6,394	14,314	219,727	121,372	209,682	242,421	276,000
Tennessee	960	16,461	19,217	9,692	15,568	15,900	----------
Wisconsin	25,927	41,403	27,285	3,390	10,952	13,211	----------
Other States	16,365	38,738	10,662	3,450	8,185	9,121	----------
Smelter production	310,407	542,419	506,227	234,333	423,591	575,644	----------
Primary zinc	269,184	489,519	463,377	200,500	354,277	510,434	517,339
From domestic ore	252,479	458,135	450,045	198,232	353,274	508,335	515,831
From foreign ore	16,705	31,384	13,332	2,268	1,003	2,099	1,508
Secondary zinc	41,223	52,900	42,850	33,833	69,314	65,210	58,386
Redistilled	12,784	29,764	21,371	17,573	32,988	39,434	35,486
Remelted	28,439	23,136	21,479	16,260	36,326	25,776	23,400
Value of primary product from domestic ore ($1,000)	27,268	113,617	72,907	19,823	40,273	69,134	67,058
Primary zinc consumed:							
Supply, total	282,350	510,518	508,347	279,007	424,781	527,345	545,252
Stock, Jan. 1	11,206	20,095	36,793	71,037	70,452	16,890	27,838
In bonded warehouses	39	111	----------	----------	131	80	80
At smelters	11,167	19,984	36,793	71,037	70,321	16,810	27,808
Produced	269,184	489,519	463,377	200,500	354,277	510,434	517,339
Imported	1,960	904	8,177	7,470	52	21	25
Deductions, total	36,466	145,663	185,304	75,407	51,691	80,831	96,995
Exports, foreign, from warehouse	4,758	12,775	28,132	1,256	3,471	7,080	(2)
Exports, foreign, under drawback	4,486	32	237	130	1,298	----------	(3)
Exports, domestic	3,990	118,603	85,898	3,569	30,032	45,863	76,241
Stock, Dec. 31	23,232	14,253	71,037	70,452	16,890	27,888	20,754
In bonded warehouses	31	32	----------	131	80	80	(4)
At smelters	23,201	14,221	71,037	70,321	16,810	27,808	20,754
Apparent domestic consumption	245,884	364,855	323,043	203,600	373,090	446,514	448,257

Source of Tables 630 and 631: Bureau of Mines, Department of Commerce.

[1] Mine production figures are preliminary. Blank spaces indicate that figures are not available.
[2] Included with domestic.
[3] No exports, January–September, inclusive. Figures for last quarter not available.
[4] Less than one-half ton.

No. 632.—GOLD AND SILVER FOR USE IN MANUFACTURES AND THE ARTS

Yearly average and 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
1912	3,500	32,371	35,871	8,107	43,977	77	22,567	22,645	7,292	29,937
1913	3,500	34,002	37,502	8,362	45,864	77	23,051	23,128	7,864	30,993
1914	3,500	33,913	37,413	8,107	45,520	77	22,474	22,552	6,758	29,310
1915	3,500	26,100	29,600	8,221	37,820	77	22,889	22,966	7,002	29,968
1916	3,500	37,620	41,120	9,941	51,061	77	22,127	22,204	9,899	32,104
1917	3,500	31,303	34,803	18,112	52,916	77	15,921	15,999	11,041	27,040
1918	3,500	29,392	32,892	19,517	52,410	77	26,645	26,722	9,530	36,253
1919	3,500	52,636	56,136	19,354	75,490	77	26,160	26,238	6,463	32,701
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

[1] Estimated.

No. 633.—SILVER: Price, and Value of Silver in the Dollar

[Note.—The London price represents the equivalent in American money at par of exchange, converted to the basis of the ounce 1,000 fine. The commercial ratio and the value of silver (371¼ grains) in the dollar are computed from this London price to and including 1917, but up to that time the New York and London quotations were close together, the departure since being due to the depreciation of the pound sterling; since 1917 these computations are based on the New York average price]

Calendar year	London, per fine ounce, average	New York, per fine ounce			Commercial ratio of silver to gold	Value of silver in dollar	Calendar year	London, per fine ounce, average	New York, per fine ounce			Commercial ratio of silver to gold	Value of silver in dollar
		Average	High	Low					Average	High	Low		
1835	1.308				15.80		1896	0.676	0.682	0.703	0.656	30.59	0.523
1840	1.323				15.62	1.023	1897	.604	.608	.661	.528	34.20	.467
1845	1.298				15.92	1.004	1898	.590	.591	.623	.551	35.03	.456
1850	1.316				15.70	1.018	1899	.602	.605	.648	.586	34.36	.465
1855	1.344				15.38	1.039	1900	.620	.621	.658	.598	33.33	.480
1860	1.352				15.29	1.045	1901	.596	.597	.645	.548	34.68	.461
1865	1.338				15.44	1.035	1902	.528	.528	.569	.474	39.15	.408
1870	1.328				15.57	1.027	1903	.543	.542	.624	.475	38.10	.420
1875	1.242	1.239	1.261	1.210	16.64	.961	1904	.579	.578	.625	.534	35.70	.448
1876	1.164	1.150	1.260	1.035	17.75	.900	1905	.610	.610	.665	.556	33.87	.472
1877	1.202	1.194	1.260	1.160	17.20	.930	1906	.677	.674	.724	.631	30.54	.524
1878	1.154	1.154	1.208	1.095	17.92	.892	1907	.662	.660	.710	.528	31.24	.512
1879	1.124	1.121	1.168	1.065	18.39	.869	1908	.535	.535	.589	.483	38.64	.414
1880	1.145	1.139	1.150	1.113	18.05	.886	1909	.520	.522	.545	.508	39.74	.402
1881	1.132	1.128	1.145	1.110	18.25	.876	1910	.541	.542	.576	.508	38.22	.418
1882	1.136	1.139	1.150	1.090	18.20	.878	1911	.539	.540	.575	.521	38.33	.417
1883	1.109	1.087	1.118	1.095	18.64	.858	1912	.615	.620	.656	.553	33.62	.475
1884	1.111	1.112	1.133	1.080	18.61	.859	1913	.605	.612	.651	.580	34.10	.463
1885	1.065	1.064	1.095	1.028	19.41	.824	1914	.553	.563	.609	.490	37.37	.423
1886	.995	.999	1.035	.925	20.78	.769	1915	.519	.511	.580	.478	39.84	.401
1887	.979	.979	1.035	.950	21.10	.753	1916	.686	.672	.791	.573	30.11	.531
1888	.940	.943	.978	.920	22.00	.727	1917	.895	.840	1.165	.731	23.09	.692
1889	.935	.936	.973	.925	22.10	.723	1918	1.042	.984	1.025	.894	21.00	.761
1890	1.046	1.053	1.205	.958	19.75	.809	1919	1.250	1.121	1.388	1.018	18.44	.867
1891	.988	.990	1.075	.948	20.92	.764	1920	1.346	1.019	1.368	.608	20.27	.788
1892	.871	.876	.953	.830	23.72	.674	1921	.805	.631	.738	.532	32.75	.488
1893	.780	.782	.850	.650	26.49	.604	1922	.754	.679	.742	.620	30.43	.525
1894	.635	.640	.700	.595	32.56	.491	1923	.700	.652	.690	.620	31.69	.505
1895	.654	.663	.690	.600	31.60	.506							

Source: Tables 632 and 633: Annual Report of the Director of the Mint, Treasury Department.

No. 634.—GOLD AND SILVER: Production from Mines in the United States (Including 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 the output in 1924 was $51,912,000. 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	1895	2,255	55,727	36,446
1848–1850	4,838	116	152	1896	2,568	58,835	39,655
1851–1855	14,271	194	259	1897	2,775	53,860	32,316
1856–1860	12,384	309	418	1898	3,118	54,438	32,118
1861–1865	10,716	28,811	38,674	1899	3,437	54,765	32,859
1866–1870	12,226	49,113	65,261	1900	3,830	57,647	35,741
1871–1875	8,826	121,083	156,270	1901	3,806	55,214	33,128
1876–1880	10,301	157,681	182,506	1902	3,870	55,500	29,415
1881–1885	7,730	182,841	202,807	1903	3,560	54,300	29,322
1886–1890	8,078	231,819	227,495	1904	3,892	57,683	33,456
1891–1895	9,107	287,057	227,960	1905	4,266	56,102	34,222
1896–1900	15,729	279,544	172,689	1906	4,565	56,518	38,256
1901–1905	19,394	278,798	159,543	1907	4,375	56,515	37,300
1906–1910	22,993	277,333	162,916	1908	4,574	52,441	28,051
1911–1915	22,968	338,384	189,626	1909	4,822	54,722	28,455
1916–1920	17,246	326,009	298,852				
1880	1,742	30,319	34,717	1910	4,657	57,138	30,855
1881	1,679	33,258	37,658	1911	4,687	60,399	32,616
1882	1,572	36,197	41,106	1912	4,521	63,767	39,198
1883	1,451	35,733	39,618	1913	4,300	66,802	40,348
1884	1,490	37,744	41,921	1914	4,573	72,455	40,068
1885	1,538	39,909	42,504	1915	4,888	74,961	37,397
1886	1,687	39,694	39,482	1916	4,479	74,415	48,953
1887	1,603	41,722	40,887	1917	4,051	71,740	59,078
1888	1,604	45,793	43,045	1918	3,321	67,810	66,485
1889	1,595	50,095	46,838	1919	2,919	56,682	63,534
1890	1,589	54,516	57,242	1920	2,476	55,362	60,802
1891	1,605	58,330	57,630	1921	2,422	53,052	53,052
1892	1,597	63,500	55,663	1922	2,303	56,240	[1] 56,240
1893	1,739	60,000	46,800	1923	2,503	73,335	[1] 60,135
1894	1,911	49,500	31,422	1924 [2]	2,511	64,792	43,540

State or Territory	Gold, 1,000 fine ounces					Silver, 1,000 fine ounces					Silver, value 1924 1,000 dollars
	1910	1915	1920	1923	1924	1910	1915	1920	1923	1924	
Total	4,657	4,888	2,476	2,503	2,511	57,138	74,961	55,362	73,335	64,792	43,540
Alaska	787	808	413	315	301	154	1,055	822	816	666	448
Arizona	165	220	240	296	232	2,656	5,666	5,432	7,377	6,349	4,267
California	989	1,091	716	651	631	1,792	1,690	1,655	3,690	3,367	2,268
Colorado	993	1,090	363	316	409	8,523	7,200	5,167	5,529	3,287	2,209
Idaho	50	57	23	36	27	7,027	13,042	7,365	8,020	8,035	5,400
Michigan	------	------	------	------	------	262	582	512	254	153	103
Montana	180	241	92	85	93	12,283	14,423	13,263	14,226	13,155	8,840
Nevada	913	575	175	198	223	12,366	14,453	7,482	10,641	9,524	6,400
New Mexico	23	71	22	24	24	779	2,337	700	738	783	526
Oregon	33	90	50	24	28	44	125	102	76	47	32
South Dakota	260	358	210	307	297	121	198	88	96	91	61
Texas	(3)	(3)	(3)	(3)	------	364	725	523	825	720	484
Utah	209	189	103	157	152	10,446	13,073	11,755	20,480	18,179	12,218
Washington	39	22	7	17	13	205	214	178	241	194	131
Philippine Islands	7	64	62	76	81	2	15	22	39	40	27
Other	8	11	(3)	1	1	115	163	296	247	202	136

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

[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.
[3] Less than 500 ounces.

No. 635.—GOLD AND SILVER: World Production

[Note.—Figures are total for period or year. Coining value represents the number of United States dollars that could be coined from the specified quantity; in the case of silver this may differ materially from the market values in terms of gold]

Period	Quantity in thousands of fine ounces		Value (coining) in thousands of dollars		Period	Quantity in thousands of fine ounces		Value (coining) in thousands of dollars	
	Gold	Silver	Gold	Silver		Gold	Silver	Gold	Silver
1493-1520	5,221	42,309	107,931	54,703	1881-1885	23,974	460,020	495,582	594,773
1521-1544	5,525	69,598	114,205	89,986	1886-1890	27,306	544,557	564,474	704,074
1545-1560	4,378	160,287	90,492	207,240	1891-1895	39,413	787,907	814,736	1,018,708
1561-1580	4,398	192,579	90,917	248,990	1896-1900	62,235	828,467	1,286,505	1,071,148
1581-1600	4,745	269,353	98,095	348,254	1901-1905	78,034	839,977	1,613,099	1,086,031
1601-1620	5,478	271,925	113,248	351,579	1906-1910	104,858	986,258	2,167,605	1,275,161
1621-1640	5,337	253,085	110,324	327,221	1911-1915	111,297	1,012,375	2,300,704	1,308,929
1641-1660	5,639	235,531	116,571	304,525	1916-1920	94,819	923,233	1,960,067	1,193,675
1661-1680	5,954	216,691	123,084	280,166	1921-1923	49,178	623,519	1,016,593	806,166
1681-1700	6,922	219,842	143,088	284,240	1907	19,977	184,207	412,967	238,167
1701-1720	8,243	228,651	170,403	295,629	1908	21,422	203,131	442,837	262,635
1721-1740	12,268	277,262	253,611	358,480	1909	21,965	212,149	454,059	274,294
1741-1760	15,824	342,812	327,116	443,232	1910	22,022	221,716	455,230	286,663
1761-1780	13,313	419,712	275,211	542,658	1911	22,397	226,193	462,990	292,452
1781-1800	11,439	565,236	236,464	730,810	1912	22,605	230,904	467,288	298,543
1801-1810	5,716	287,469	118,152	371,677	1913	22,255	210,013	460,051	271,533
1811-1820	3,680	173,858	76,063	224,786	1914	21,302	172,264	440,348	222,725
1821-1830	4,570	148,070	94,479	191,444	1915	22,738	173,001	470,026	223,677
1831-1840	6,523	191,759	134,841	247,930	1916	22,031	180,802	455,423	233,764
1841-1850	17,605	250,903	363,928	324,400	1917	20,346	186,125	420,579	240,646
1851-1855	32,052	142,443	662,566	184,169	1918	18,614	203,159	384,786	262,671
1856-1860	32,431	145,477	670,415	188,092	1919	17,698	179,850	365,854	232,533
1861-1865	29,748	177,010	614,944	228,861	1920	16,130	173,296	333,424	224,060
1866-1870	31,350	215,258	648,071	278,313	1921	15,975	171,286	330,232	221,460
1871-1875	27,955	316,585	577,883	409,322	1922	15,452	209,815	319,420	271,277
1876-1880	27,716	393,878	572,931	509,256	1923	17,751	242,418	366,941	313,430

No. 636.—GOLD AND SILVER: Production, by Principal Countries

[Note.—Only countries producing 200,000 ounces or more of gold or 1,000,000 ounces or more of silver in some one year covered are shown. Totals for world and for continents include countries not shown]

Country	Gold, 1,000 fine ounces				Silver, 1,000 fine ounces			
	1910	1915	1922	1923	1910	1915	1922	1923
Total for world	22,022	22,738	15,452	17,751	221,716	173,001	209,815	242,418
North America	6,356	6,123	4,301	4,432	161,379	124,407	155,870	161,910
United States	4,057	4,888	2,289	2,426	57,138	74,961	56,212	73,296
Canada	494	918	1,263	1,224	32,869	26,626	18,581	17,755
Mexico	1,205	317	748	782	71,372	22,910	81,077	90,859
Central America	225	144	121	97	2,027	2,920	2,000	2,500
South America	547	730	720	733	14,477	13,687	21,395	27,355
Bolivia	22	39	(1)	(1)	6,400	3,870	[2] 5,374	5,213
Chile			80	64			2,709	3,337
Colombia	163	264	276	276	866	351	3	3
Peru	22	54	81	120	6,627	9,420	13,170	18,655
Europe	1,916	1,414	230	336	15,992	15,563	8,342	8,214
Austria	105	67	1	1	1,541	1,773	9	14
Germany	3	4	5	5	5,597	5,456	3,582	3,215
Russia	1,721	1,273	147	251	141	638	150	193
Spain	--------	--------	1	1	4,152	4,565	2,778	2,778
Turkey	--------	--------	1	1	1,718	1,509	8	8
Australasia	3,167	2,370	912	877	21,546	9,250	11,485	10,368
New South Wales	--------	132	25	19	--------	3,082	9,913	9,108
Queensland	--------	250	81	84	--------	240	273	469
Victoria	--------	329	107	95	--------	17	7	6
Western Australia	--------	1,210	538	505	--------	--------	119	109
New Zealand	--------	423	144	155	--------	958	376	537
Asia	1,336	1,418	1,150	1,121	5,257	5,694	9,403	10,027
British India	519	617	438	384	45	285	4,244	4,863
Chosen	213	181	128	121	165	22	11	39
East Indies	234	150	133	140	406	400	1,110	1,409
Japan	189	261	234	255	4,582	5,120	3,886	3,555
Africa	8,475	10,539	8,019	10,155	1,037	1,188	1,320	1,544
British West Africa	--------	--------	213	201	--------	--------	--------	(1)
Rhodesia	--------	915	655	649	--------	185	184	161
Transvaal, Cape Colony, Natal	--------	9,096	7,020	9,149	--------	996	1,116	1,374

Source of Tables 635 and 636: Reports of the Director of the Mint, Treasury Department.

[1] Less than 500 fine ounces. [2] Estimate on basis of other years' production.

No. 637.—IRON ORE: Production, Shipments, Exports, and Imports

[Note.—Nearly all exports are to Canada. Blank spaces indicate that figures are not available. Since 1905 ore containing 5 per cent or more of manganese is excluded; such ore in 1923 was 1,433,897 tons]

[All figures in thousands of long tons of 2,240 pounds]

Yearly average or year	Production	Shipments	Exports	Imports	Production, by region, State, and kind	1915	1922	1923	1924
1881–1890	10,335			766	Total	55,526	47,129	69,351	54,267
1891–1900	17,551			587					
1901–1910	41,339		271	1,180	Lake Superior [1]	46,944	39,716	59,285	44,842
1911–1915	51,595	50,592	953	1,841	Birmingham	4,749	4,711	6,047	6,511
1916–1920	69,737	70,224	1,143	967	All other	3,833	2,701	4,019	2,914
1921–1924	50,060	47,540	689	1,567	Alabama	5,309	5,235	6,783	6,994
					Tennessee	284	156	267	180
1913	61,980	59,643	1,042	2,595	Michigan	12,515	10,454	14,174	12,351
1914	41,440	39,714	552	1,351	Minnesota	33,465	28,769	44,348	31,902
1915	55,526	55,493	708	1,341	Wisconsin	1,095	577	871	690
1916	75,168	77,871	1,184	1,326	Pennsylvania	363	781	993	807
1917	75,239	75,573	1,132	972	New York	999	444	542	256
1918	69,658	72,021	1,256	787	New Jersey	415	90	308	65
					Wyoming	435	333	379	363
1919	60,965	56,373	997	476	All other	646	289	685	660
1920	67,604	69,281	1,145	1,273					
1921	29,491	26,653	440	316	Hematite	52,227	[2] 44,889	[2] 65,924	[2] 52,102
1922	47,129	50,613	602	1,135	Brown ore	[3] 1,480	[2] 784	[2] 1,233	[2] 814
1923	69,351	69,811	1,117	2,768	Magnetite	[3] 1,807	1,453	2,191	1,347
1924	54,267	52,683	595	2,047	Carbonate	3	3	4	3

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

No. 638.—PRODUCTION OF IRON ORE, BY COUNTRIES

[Note.—Changes in boundaries of certain European countries affect comparison between pre-war and postwar statistics]

[Figures in thousands of metric tons of 2,204.6 pounds]

Country	1913	1920	1923	1924	Country	1913	1920	1923	1924
North America:					Europe—Continued.				
United States	62,972	68,690	70,465	55,138	Poland		120	450	280
Canada (shipments)	279	117	28	(1)	Russia	9,514	170	493	[2] 914
Cuba (shipments)	1,608	897	685	299	Italy	603	300	341	173
Newfoundland (shipments)	1,457	591	1,200	666	Norway	544	79	386	(1)
South America:					Sweden	7,476	4,519	5,598	(1)
Chile (Tofo mine)	14		679	988	Spain	9,862	4,768	3,456	(1)
Europe:					United Kingdom	16,253	12,911	11,050	11,228
Austria-Hungary	5,319				Asia:				
Austria		435	1,211	710	China	[3] 423	1,490	1,401	(1)
Hungary		102	(1)	(1)	Chosen	142	454	243	(1)
Czechoslovakia		1,053	675	(1)	India	377	567	817	(1)
Belgium	150	17	87	(1)	Japan	172	204	(1)	(1)
France	21,918	13,922	23,428	28,992	Africa:				
Germany	28,608	6,354	4,800		Algeria	1,349	1,071	1,453	1,815
Luxemburg	7,333	3,704	4,098	5,334	Morocco	[4] 189	(1)	397	(1)
					Tunis	594	406	845	771
					Australia	[5] 92	606	572	(1)

[1] Figures not available.
[2] Year ended Sept. 30.
[3] From Tayeh deposits only.
[4] For Morocco, 1915.
[5] For South Australia and Queensland.

No. 639.—PIG IRON: Total Production in the United States, 1810–1900

[Note.—For later years see Table 640]

Year	Long tons	Year	Long tons	Year	Long tons	Year	Long tons	Year	Long tons
1810	53,908	1870	1,665,179	1878	2,301,215	1886	5,683,329	1894	6,657,388
1820	20,000	1871	1,706,793	1879	2,741,853	1887	6,417,148	1895	9,446,308
1830	165,000	1872	2,548,713	1880	3,835,191	1888	6,489,738	1896	8,623,127
1840	286,903	1873	2,560,963	1881	4,144,254	1889	7,603,642	1897	9,652,680
1850	563,755	1874	2,401,262	1882	4,623,323	1890	9,202,703	1898	11,773,934
1855	700,159	1875	2,023,783	1883	4,595,510	1891	8,279,870	1899	13,620,703
1860	821,223	1876	1,868,961	1884	4,097,868	1892	9,157,000	1900	13,789,242
1865	831,770	1877	2,066,594	1885	4,044,526	1893	7,124,502		

Sources of Tables 637 and 638: Bureau of Mines, Department of Commerce; Table 639, American Iron and Steel Institute.

). 640.—PRODUCTION, EXPORTS, AND IMPORTS OF PIG IRON (INCLUD-NG FERRO-ALLOYS) AND PRODUCTION OF STEEL INGOTS AND CASTINGS

OTE.—Up to and including 1900 production figures represent calendar years and exports and imports ears ending June 30 following the calendar year specified. All figures since 1900 are for calendar years]

[All figures in long tons of 2,240 pounds]

Yearly verage r year	Pig iron			Steel ingots and castings	Year	Pig iron			Steel ingots and castings
	Production	Exports of domestic	Imports	Production		Production	Exports of domestic	Imports	Production
71–1875	2,243,293	7,412	137,591	[1] 389,799	1910	27,303,567	127,385	237,233	26,094,919
76–1880	2,562,763	3,407	276,600	803,479	1911	23,649,547	120,799	148,459	23,676,106
81–1885	4,301,096	5,311	325,290	1,652,268	1912	29,726,937	272,676	129,325	31,251,303
86–1890	7,079,312	12,407	229,070	3,292,763	1913	30,966,152	277,648	156,450	31,300,874
91–1895	8,133,013	22,983	54,778	4,675,736	1914	23,332,244	114,423	139,683	23,513,030
96–1900	11,491,937	224,268	34,308	8,439,938	1915	29,916,213	224,509	89,836	32,151,036
01	15,878,354	81,211	62,930	13,473,595	1916	39,434,797	607,236	135,349	42,773,680
02	17,821,307	27,487	619,354	14,947,250	1917	33,621,216	656,220	76,786	45,069,607
03	18,009,252	20,379	599,574	14,534,978	1918	39,054,644	269,575	34,711	44,462,432
04	16,497,033	49,025	79,500	13,859,887	1919	31,015,364	321,261	101,665	34,671,232
05	22,992,380	49,221	212,466	20,023,947	1920	36,925,987	216,828	185,944	42,132,934
06	25,307,191	83,317	379,828	23,398,136	1921	16,688,126	28,405	44,036	19,783,707
07	25,781,361	73,703	489,475	23,362,594	1922	27,219,904	33,332	498,059	35,602,926
08	15,936,018	46,696	92,202	14,023,247	1923	40,361,146	37,559	474,723	44,943,696
09	25,795,471	61,989	176,442	23,955,021	1924	31,405,790	45,309	277,110	37,931,939

[1] 1875 only.

No. 641.—ANALYSIS OF PIG IRON AND FERRO-ALLOY PRODUCTION

[All figures in thousands of long tons unless otherwise specified]

	1900	1905	1910	1915	1920	1921	1922	1923	1924
Total	13,789	22,992	27,304	29,916	36,926	16,688	27,220	40,361	31,406
By States:									
New England (Maine, Massachusetts, Connecticut)	14	16	17	8	10	2	1	1	-------
New York, New Jersey	463	1,569	2,203	2,105	2,601	969	1,772	2,952	2,014
Pennsylvania	6,366	10,579	11,272	12,701	13,983	6,253	9,732	14,805	11,069
Maryland	290	332	326	252	524	147	367	530	558
Virginia	491	510	445	251	429	67	49	277	98
Alabama	1,184	1,604	1,939	2,049	2,393	1,207	2,231	2,797	2,774
Kentucky, Texas, West Virginia	277	401	290	291	772	265	460	702	568
Tennessee	362	373	398	178	283	19	124	251	138
Ohio	2,471	4,586	5,752	6,913	8,533	3,800	6,484	9,348	7,415
Illinois	1,363	2,034	2,676	2,447	3,281	1,612	2,625	3,839	2,601
Indiana, Michigan	164	289	1,250	1,987	2,940	1,894	2,727	3,813	3,350
Wisconsin, Minnesota	185	351	307	373	711	227	381	725	357
Missouri, Iowa, Colorado, Montana, Washington, Utah	159	408	429	272	465	226	267	321	464
By disposition:									
For sale	(1)	(1)	(1)	8,583	16,724	3,728	6,502	10,522	8,411
For maker's use	(1)	(1)	(1)	21,333	20,202	12,960	20,718	29,839	22,995
By kinds:									
Basic	1,072	4,105	9,085	13,093	16,738	7,753	13,841	19,796	15,999
Bessemer	7,979	12,407	11,246	10,523	12,062	5,595	7,813	11,678	8,172
Foundry (including ferrosilicon)	3,376	4,758	5,260	4,844	5,958	2,568	3,976	6,470	5,623
Malleable	173	635	843	836	1,311	457	1,051	1,571	973
Forge	793	728	564	316	318	113	214	327	256
Ferromanganese, spiegeleisen, and all other	395	359	306	310	539	202	323	520	382
By fuel used:									
Coke [2]	11,728	20,965	26,258	29,535	36,300	16,580	26,995	40,097	31,193
Anthracite [3]	1,677	1,675	649	85	303	14	-------	13	-------
Charcoal	384	353	397	296	323	95	225	251	213
Materials used:									
Iron ore, briquettes, etc	24,131	41,525	51,739	55,137	66,450	29,630	47,835	72,281	(1)
Cinder, scale, etc	1,600	(1)	2,800	4,483	4,986	2,341	4,163	5,433	(1)
Coke and bituminous coal—1,000 short tons	(1)	(1)	(1)	33,329	42,046	18,196	29,225	44,776	(1)
Limestone	7,422	11,627	14,528	14,700	17,825	7,350	11,720	17,962	(1)
Total number of furnaces	406	424	473	445	452	450	449	432	425
Furnaces in blast Dec. 31	282	313	266	310	216	125	263	239	235

Source of Tables 640 and 641: American Iron and Steel Institute.

[1] Data not available.
[2] Includes pig iron and ferro-alloys made with electricity, electricity and coke, etc.
[3] Includes pig iron made of mixed anthracite and coke.

No. 642.—BLAST FURNACES, STEEL WORKS, AND ROLLING MILLS

Year	Number of establishments	Wage earners (average number)	Wages	Value of products [1]	Value added by manufacture [2]
			Thousands of dollars		
1879	792	[3] 140,798	[3] 55,451	296,558	105,287
1889	719	171,181	89,273	478,688	151,415
1899	668	222,490	120,820	803,968	281,569
1904	605	242,640	141,427	905,788	285,642
1909	654	278,505	187,807	1,377,152	399,013
1914	587	278,072	210,923	1,236,319	380,913
1919	695	416,748	711,407	3,623,369	1,321,507
1921	628	254,213	354,357	1,901,431	535,256
1923	658	424,913	696,760	4,161,937	1,289,910

Source: Bureau of the Census, Department of Commerce.

[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.

No. 643.—PRODUCTION OF STEEL INGOTS AND CASTINGS, BY GRADES

[NOTE.—All figures in long tons. 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	8,383,087	32,671,895	31,375,723	1,296,172	72,265	502,152	3,536
1923	44,942,696	8,484,088	35,899,657	34,665,021	1,234,636	44,079	515,872	
1924	37,931,939	5,899,590	31,577,350	30,719,523	857,827	22,473	432,526	

No. 644.—PRODUCTION OF ROLLED AND MISCELLANEOUS STEEL PRODUCTS

[Note.—All figures in thousands of long tons unless specified. Blank spaces indicate figures not available]

	1905	1910	1915	1920	1922	1923	1924
Rolled products, total	16,840	21,621	24,393	32,348	26,452	33,227	28,036
Rails, total	3,376	3,636	2,204	2,604	2,172	2,905	2,433
Bessemer	3,192	1,884	327	143	22	26	16
Open hearth	183	1,751	1,775	2,334	2,033	2,739	2,308
Rerolled			102	127	116	140	110
Sheets and plates, total	3,532	4,955	6,078	9,338	7,968	9,498	8,088
Universal			955	1,250	1,248	1,304	1,002
Sheared			1,923	3,505	2,172	2,865	2,147
Black sheets [1]			1,837	2,886	2,917	3,503	3,266
Black plates for tinning			1,093	1,449	1,267	1,499	1,415
Other black-plate specialties			270	247	365	327	257
Nail and spike plate	65	45	32	21	22	23	22
Wire rods	1,809	2,242	3,096	3,137	2,655	3,076	2,523
Structural shapes	1,661	[2] 2,267	2,437	3,307	2,719	3,405	3,284
Merchant bars	3,594	3,786	4,131	6,130	3,979	5,553	4,281
Skelp	1,436	1,828	2,209	3,220	2,872	3,734	3,171
Hoops	446	202	282	333	222	221	179
Bands and cotton ties		425	438	389	271	348	294
Splice and tie-plate bars			536	576	606	750	630
Rolled forging blooms, billets, etc	42	460	651	447	326	449	347
All other rolled products	881	1,715	2,208	2,846	2,641	3,316	2,835
Miscellaneous products:							
Tin plate (million pounds)		1,450	2,202	3,080	2,708	3,168	2,975
Terneplates (million pounds)		168	163	158	177	207	203
Galvanized sheets (million pounds)			1,582	1,871	2,110	2,365	2,229
Galvanized formed products (million pounds)			112	144	166	166	156
Nails, thousands of kegs (100 pounds)	12,212	13,710	15,358	17,294	15,864	18,502	15,843
Wire nails, thousands of kegs (100 pounds)	10,855	12,705	14,583	16,450	15,053	17,673	15,101
Cut nails, thousands of kegs (100 pounds)	1,358	1,005	775	845	810	830	742
Wrought pipe			1,920	3,003	2,732	3,351	2,824
Boiler tubes			97	119	74	91	56
Seamless steel tubes			140	292	258	404	261
Cast-iron pipe (1,000 short tons)			1,215	887	1,283	1,567	1,841
Forgings made by rolling mills		320	524	540	371	519	346

Source of Tables 643 and 644: American Iron and Steel Institute.

[1] Rolled on sheet or jobbing mills. [2] Production of small structural forms not included.

No. 645.—PRODUCTION, EXPORTS, AND IMPORTS OF FINISHED ROLLED IRON AND STEEL

[NOTE.—Blank spaces indicate that figures are not available]
[All figures in long tons of 2,240 pounds]

Calendar year	Total production, finished rolled products	Rails			Plates and sheets		
		Production	Exports	Imports	Production	Exports	Imports
1875		707,600	1,080	17,364			
1880		1,305,212	958	259,543			
1885		976,978	7,757	2,189			
1890	6,022,875	1,885,307	16,947	204	809,981		
1895	6,189,574	1,306,135	15,599	1,447	991,459		
1900	9,487,443	2,385,682	361,619	1,448	1,794,528	54,865	5,143
1903	13,207,697	2,992,477	30,837	95,555	2,599,665	18,094	11,557
1904	12,013,381	2,284,711	416,250	37,776	2,421,398	55,204	4,165
1905	16,840,015	3,375,929	295,023	17,278	3,532,230	75,097	2,336
1906	19,588,468	3,977,887	328,036	4,943	4,182,156	110,700	3,231
1907	19,864,822	3,633,654	338,906	3,752	4,248,832	122,696	3,748
1908	11,828,193	1,921,015	196,510	1,719	2,649,693	104,993	2,629
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	174,630	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	851,520	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	[1] 1,947
1923	33,277,076	2,904,516	267,409	29,706	9,497,717	386,405	[1] 4,572
1924	28,086,435	2,433,332	208,829	43,358	8,087,883	360,460	[1] 6,066

Calendar year	Nail-plate production	Wire rods			Structural shapes			All other finished rolled production
		Production	Exports	Imports	Production	Exports	Imports	
1890	251,828	457,099						2,618,660
1895	95,085	791,130			517,920			2,487,845
1900	70,245	846,291	10,652	21,092	815,161	67,714		3,575,536
1903	64,102	1,503,455	22,360	20,836	1,095,813	30,641	8,865	4,952,185
1904	61,601	1,699,028	20,073	15,313	949,146	55,514	7,203	4,597,497
1905	64,542	1,808,688	6,514	17,616	1,660,519	84,234	16,147	6,398,107
1906	54,211	1,871,614	5,895	17,799	2,118,772	112,555	28,573	7,383,828
1907	52,027	2,017,583	10,697	17,076	1,940,352	138,442	2,294	7,972,374
1908	45,747	1,816,949	7,412	11,209	1,083,181	116,881	3,623	4,311,608
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	[2] 2,266,890	146,721	14,897	8,475,750
1911	48,522	2,450,453	22,641	15,483	[2] 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	16,008	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	3,020,964	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	7,077	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	48,245	11,736,792

Source: American Iron and Steel Institute.

[1] Includes skelp.
[2] Production of small structural forms not included.

No. 646.—PRODUCTION OF STEEL WORKS AND ROLLING MILLS AND OF THE WIRE, TIN-PLATE, AND TERNEPLATE, AND CAST-IRON PIPE INDUSTRIES

[NOTE.—There is much duplication in this table owing to the use of partly finished products in the same plant, in other works of the same company, or in works of other companies covered in this same table. Products of steel works and rolling mills listed under Groups B, C, and D, if used in the same works, are not included, but the opposite is the case with those of Group A. The products chiefly used in further manufacture are wire rods, plates and sheets, black plates for tinning, and skelp (for welded pipe which appears, not segregated, under Group E). The data given under "Wire" and "Tin and terneplate" include products of these departments of steel works and rolling mills. The original census tables contain much further detail as to the disposition of semifinished products]

Industry and product	Quantity in thousands of unit specified				Value in thousands of dollars		
	Unit	1914	1921	1923	1914	1921	1923
STEEL WORKS AND ROLLING MILLS							
All products, total value					918,665	1,481,650	3,154,325
A. Finished rolled products and forgings, total.	Tons	18,492	15,110	34,472	623,486	920,508	2,108,914
Rails	do	1,842	2,100	2,748	54,010	98,635	114,293
Rail joints and fastenings	do	349	384	794	11,527	24,337	44,070
Structural shapes (not fabricated).	do	2,083	1,292	3,500	57,475	63,008	171,408
Reinforced concrete bars	do	270	202	618	7,752	10,268	32,491
Merchant bars, mill shafting, etc.:							
Steel	do	2,063	1,610	5,631	71,353	99,251	344,763
Iron	do	412	213	404	13,057	14,759	20,038
Bolt and nut rods, spike and chain rods, etc.	do	536	251	518	18,320	13,169	26,861
Wire rods	do	2,378	1,577	2,923	61,578	77,096	142,792
Steel rods	do	(1)	1	163	(1)	702	20,486
Plates No. 12 and thicker	do	2,184	1,722	4,306	62,769	93,078	224,478
Sheets No. 13 and thinner	do	1,516	1,278	3,312	67,017	101,929	287,858
Black plates (or sheets for tinning).	do	1,012	943	1,727	43,147	79,509	143,488
Skelp	do	1,961	2,312	3,647	52,443	109,465	186,743
Hoops, bands, strips, and cotton ties.	do	604	480	1,405	19,945	33,734	108,150
Nail and tack plate	do	50	19	43	2,008	1,318	2,413
Axles	do	89	36	205	3,407	3,385	16,124
Armor plate and ordnance	do	39	71	9	19,948	39,675	1,921
Car and locomotive wheels	do	(1)	83	246	(1)	10,776	24,287
All other rolled products	do	683	351	1,638	38,504	29,495	131,387
All other forged or other products.	do	411	185	620	19,166	16,919	55,863
B. Semifinished rolled products (for sale or transfer), total.	do	6,408	4,716	11,434	130,675	175,748	455,460
Blooms, billets, and slabs	do	3,992	2,739	7,133	80,639	102,205	280,692
Rolled blooms, billets, and slabs, for forging.	do	66	30	135	1,695	1,441	8,522
Sheet and tin-plate bars	do	2,242	1,905	4,063	45,373	69,622	159,811
Muck and scrap bar	do	108	31	99	2,968	1,941	6,064
All other	do		11	4		539	372
C. Unrolled steel (for sale or transfer), total.	do	632	746	1,608	46,117	88,039	182,796
Ingots	do	63	331	553	1,383	14,379	20,185
Direct steel castings	do	569	415	1,054	44,734	73,660	162,611
D. Scrap iron and steel (for sale or transfer).	do	1,446	1,165	2,218	16,335	16,784	37,106
E. All other (including value added to rolled products by further manufacture).	do				102,052	280,580	370,054
WIRE (All metals)							
All products, total value					172,601	251,235	493,932
Iron and steel wire:							
Plain	Tons	2,436	1,725	3,125	22,317	33,501	73,999
Galvanized	do	374	530	952	15,950	16,136	23,011
Other coated	do	(2)	19	54	(2)	2,093	6,383
Cold-rolled flat	do	(3)	60	142	(3)	8,872	19,694
Copper wire	Lbs	277,848	305,404	697,464	26,206	35,603	84,786
Brass wire	do	36,615	21,972	87,046	6,366	3,974	20,418
Other metal wire	do	6,029	19,849	13,652	1,489	5,487	5,945

No. 646.—Production of Steel Works and Rolling Mills, Etc.—Continued

Industry and product	Quantity in thousands of unit specified				Value in thousands of dollars.		
	Unit	1914	1921	1923	1914	1921	1923
WIRE—continued							
Fabricated wire products:							
Iron and steel—							
Nails and spikes	Kegs [4]	12,887	11,298	17,376	23,369	41,506	61,973
Brads and tacks	Lbs	66,670	2,646	3,495	1,325	329	380
Staples	do	(5)	41,735	62,618	(5)	1,536	2,278
Barbed wire	Tons	344	139	254	13,704	11,051	19,123
Rope, cable, and strand	do	53	57	114	7,974	14,826	29,427
Woven-wire and netting	do	411	242	413	19,796	24,642	37,364
Other woven-wire products	do	23	23	15	2,823	5,344	5,403
Other fabricated wire products	do	123	62	109	8,899	6,639	11,365
Copper—							
Insulated wire	do	48	45	70	15,709	17,463	28,701
Insulated cable	do	(6)	21	101	(6)	8,506	41,699
Rubber-insulated	do	(6)	17	45	(6)	7,219	20,442
Paper-insulated	do	(6)	4	25	(6)	1,287	9,873
Not segregated	do	(6)		31	(6)		11,384
Other fabricated products	do	2	18	37	1,043	7,325	8,216
All other products	do		20	26	5,601	6,402	12,797
TIN PLATE AND TERNEPLATE							
All products, total value					68,343	99,129	165,587
Tin plate	Lbs	1,901,332	1,638,373	3,159,251	60,528	90,531	154,636
Terneplate	do	152,634	87,408	137,301	6,012	5,651	7,840
All other products	do				2,073	2,947	3,111
CAST-IRON PIPE INDUSTRY [7]							
All products, total value					28,103	44,321	92,674
Gas and water pipe and fittings	Tons	909	557	1,140	19,805	28,541	63,016
Soil and plumbers' pipe and fittings	do	212	211	425	6,174	11,656	24,033
Castings, other	do	14	24	23	682	2,833	2,810
All other					1,442	1,291	1,915

[1] No data.
[2] Included in "galvanized" for 1914.
[3] Included in fabricated iron and steel wire products.
[4] Of 100 pounds.
[5] Included in "brads and tacks" in 1914.
[6] Included in "insulated wire" in 1914.
[7] Subsidiary cast-iron pipe products of other industries included for 1914, but not included for 1921 and 1923.

No. 647.—PRODUCTION OF BRASS, BRONZE, COPPER, AND OTHER METALS

[Note.—These statistics do not represent the smelting and refining industry, but plants rolling, casting, or working metals classed under the "brass, bronze, copper, and allied products" industry. The wire reported is included also in Table 646. The "other metals and alloys" are chiefly Babbitt metal, aluminum, and German silver]

Product	Quantity in thousands of pounds						Value in thousands of dollars	
	1921 (total)	1923					1921	1923
		Total	Brass	Bronze	Copper	Other metal or alloy		
All products, total value [1]							214,904	511,470
Products capable of further manufacture	783,041	1,936,302	1,010,668	201,008	611,503	113,123	153,148	406,104
Ingots and bars	48,666	186,112	113,829	8,296	27,902	36,025	6,185	26,402
Plates and sheets	208,317	531,713	337,214	22,664	135,788	36,047	42,367	113,670
Rods	82,510	315,260	130,075	4,637	161,366	19,182	13,234	50,683
Tubing—								
Seamless	57,664	119,922	73,000	6,049	40,372	501	13,850	32,947
Brazed	3,545	15,386	15,162	142	82		1,071	4,487
Wire—								
Plain	122,275	256,980	55,072	15,832	185,276	800	20,710	48,483
Insulated	14,527	52,306			52,306		2,351	10,854
Castings and machinery fittings	245,537	458,623	286,316	143,388	8,351	20,568	57,880	109,438
Finished Products							56,756	105,366
Lamps							228	264
Electrical supplies							3,358	3,834
Hardware and trimmings							7,573	7,340
Other manufactured articles							27,980	71,910
All other products							17,617	22,018

Source: Table 646 and 647: Bureau of the Census, Department of Commerce.

[1] In addition, brass, bronze, and copper products to the value of $81,366,007 in 1923, and $31,766,999 in 1921, were manufactured by establishments engaged primarily in the manufacture of other products.

No. 648.—WORLD PRODUCTION OF PIG IRON AND CRUDE STEEL

[NOTE.—Figures for Germany include Luxemburg prior to 1921; figures for Austria prior to 1921 include the major portions of Czechoslovakia and Hungary; Poland's production prior to 1921 is covered in the figures for Germany and Russia; beginning with 1921, Poland's figures include most of Upper Silesia]

[All figures in thousands of long tons of 2,240 pounds]

Country	Pig iron						Steel ingots and castings					
	1913	1920	1921	1922	1923	1924 [1]	1913	1920	1921	1922	1923	1924 [1]
World total	77,182	58,854	34,700	51,038	66,471	64,630	75,019	67,145	42,487	63,098	75,096	73,575
United States	30,653	36,401	16,506	26,851	40,026	31,000	31,301	42,133	19,744	35,603	44,944	37,800
Canada	1,015	999	617	404	909	700	1,043	1,109	669	485	885	725
Great Britain	10,260	8,035	2,616	4,902	7,440	7,400	7,664	9,067	3,703	5,881	8,482	8,400
France	5,126	3,380	3,308	5,147	5,346	7,500	4,614	3,002	3,010	4,464	5,029	6,850
Belgium	2,428	1,099	862	1,578	2,154	2,800	2,428	1,233	780	1,539	2,250	2,850
Luxemburg	-------	682	955	1,650	1,384	2,125	-------	561	747	1,368	1,182	1,850
Italy	420	107	75	91	243	250	918	762	672	600	1,100	1,000
Spain	418	248	175	175	394	400	381	150	100	250	453	475
Sweden	730	477	304	255	273	300	582	430	203	343	294	400
Germany	19,000	5,568	6,006	8,000	4,400	8,200	18,631	6,624	8,700	9,000	5,900	8,500
Austria	2,343	96	211	317	339	350	2,584	196	329	473	491	550
Czechoslovakia	-------	699	532	330	750	700	-------	958	904	630	1,000	800
Poland	-------	100	640	458	492	500	-------	60	1,470	930	936	950
Hungary	-------	30	50	246	295	300	-------	40	90	295	344	350
Russia	4,480	15	115	125	315	330	4,760	45	161	212	492	600
Japan	56	168	200	300	300	350	13	301	558	500	500	550
China	-------	-------	600	400	375	375	-------	-------	150	150	200	200
India	-------	312	371	350	536	550	-------	156	182	175	215	225
Australia	47	257	318	250	300	300	-------	167	209	100	200	200
Miscellaneous	200	181	149	100	200	200	100	151	100	100	200	200

Source: The Iron Trade Review. [1] Estimated.

No. 649.—IRON AND STEEL: AVERAGE ANNUAL PRICES

[Prices of pig iron, rails, and billets in dollars per long ton; 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]							
1890	18.87	-------	15.11	16.66	31.78	30.29	-------	1.84	-------	-------	-------
1891	15.95	-------	13.78	14.95	29.92	25.33	-------	1.71	-------	-------	-------
1892	14.37	-------	12.74	13.88	30.00	23.63	-------	1.64	-------	-------	-------
1893	12.87	-------	11.42	12.80	28.12	20.44	-------	1.50	-------	-------	-------
1894	11.38	-------	9.93	10.56	24.00	16.58	-------	1.20	-------	-------	-------
1895	12.72	-------	10.86	11.80	24.33	18.48	-------	1.25	-------	-------	-------
1896	12.14	-------	10.29	11.64	28.00	18.83	-------	1.21	-------	-------	-------
1897	10.13	-------	9.42	10.68	18.75	15.08	-------	1.10	-------	-------	-------
1898	10.33	-------	9.46	11.32	17.62	15.31	0.95	1.07	1.08	1.17	-------
1899	19.03	-------	16.58	18.40	28.12	31.12	1.84	1.95	2.21	1.81	-------
1900	19.49	-------	17.04	19.47	32.29	25.06	1.59	2.15	1.54	1.91	-------
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	31.09	27.65	32.16	29.16	49.29	40.51	2.50	4.10	2.72	2.53	3.12
1920	44.39	42.21	44.47	42.53	54.38	56.22	3.22	4.75	3.28	2.95	3.08
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	28.68	25.81	27.87	28.16	43.00	41.70	2.36	3.50	2.43	2.43	2.74
1924	23.28	20.23	23.91	22.09	43.00	37.97	2.20	-------	2.11	2.19	2.61

Sources: Iron Age and American Iron and Steel Institute.

[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 prior to 1892; subsequently, best refined.

No. 650.—EXPORTS OF IRON AND STEEL PRODUCTS

[NOTE.—This and the following table exclude elaborated manufactures of iron and steel. Such as machinery, vehicles, stoves and furnaces, hardware, cutlery, tools, and many others]

Articles	Quantity (long tons)			Value (thousands of dollars)		
	1922	1923	1924	1922	1923	1924
Total	1,995,427	2,010,166	1,805,114	136,334	167,247	150,494
Pig iron, not including ferro-alloys	30,920	32,318	41,483	757	862	958
Ferromanganese and spiegeleisen	1,462	4,295	3,165	85	151	92
Ferrosilicon	689	814	775	31	31	29
Scrap	64,784	65,980	97,748	997	1,036	1,523
Ingots, blooms, billets, sheet bars, and skelp	107,334	111,881	96,155	3,986	5,931	4,661
Iron bars	179,835	12,662	5,054	9,608	1,076	514
Steel bars		158,319	98,382		10,743	7,109
Alloy steel bars	5,418	2,148	2,742	840	770	615
Wire rods	40,424	40,808	18,762	1,820	2,163	1,048
Galvanized sheets	109,321	114,750	108,152	10,192	12,396	11,940
Plates, iron and steel	100,987	115,462	85,048	4,396	7,353	5,248
Black steel sheets	214,916	139,105	148,742	15,900	13,515	13,302
Black iron sheets	11,693	14,158	11,005	1,157	1,655	1,239
Hoop, band, and strip steel	34,511	38,244	34,141	2,743	3,502	2,943
Tin plate, terneplate, etc	76,633	124,499	160,997	7,950	14,792	19,430
Structural shapes, plain material	123,445	122,062	102,408	6,820	7,020	5,990
Structural materials, fabricated	46,641	78,396	76,786	3,043	6,713	6,978
Metal lath	(1)	1,493	2,309	(1)	200	419
Steel rails	277,090	267,409	208,496	10,833	10,274	7,954
Rail fastenings, switches, frogs, etc	38,297	39,589	36,113	3,399	3,784	3,486
Boiler tubes and welded pipe	171,392	185,907	200,951	15,339	20,189	20,969
Cast-iron pipe and fittings	27,302	28,065	28,771	3,351	4,732	4,478
Malleable-iron screwed-pipe fittings	7,848	7,748	11,024	1,830	2,400	2,855
Barbed-wire and woven-wire fencing	73,621	74,846	90,444	5,830	6,737	6,970
Plain wire	113,151	92,232	37,047	8,342	8,075	3,367
Wire cloth and screening	1,527	1,960	1,031	635	851	695
Wire rope	4,583	6,256	4,187	1,069	1,675	1,220
Insulated wire and cable	905	1,450	978	378	687	398
Wire, other, and manufactures thereof	15,880	14,572	11,225	2,246	2,587	2,151
Wire nails	55,021	45,981	21,665	4,127	4,103	1,934
Nails other than wire, including tacks	8,357	8,759	7,886	1,589	1,945	1,605
Horseshoes	988	951	963	164	149	122
Bolts, nuts, rivets, and washers [2]	18,325	18,907	17,497	3,035	3,823	2,933
Car wheels and axles	17,556	20,291	22,329	1,547	1,891	1,946
Iron castings	10,189	10,046	8,460	1,349	1,501	1,447
Steel castings	2,039	4,724	5,879	457	1,126	1,409
Forgings	2,342	3,019	1,714	470	689	428

[1] Not reported separately. [2] Except track.

No. 651.—IRON AND STEEL: EXPORTS BY DESTINATION

[NOTE.—Products covered are those listed in Table 650]

[All figures in long tons (2,240 pounds)]

Country	1922	1923	1924	Country	1922	1923	1924
Total	1,995,427	2,010,166	1,805,114	Chile	29,898	33,893	31,854
				Colombia	31,422	28,562	39,288
Belgium	4,508	7,911	9,542	Ecuador	3,906	3,628	(2)
France	3,787	7,115	2,625	Peru	24,551	27,384	28,177
Germany	461	1,498	1,235	Uruguay	5,972	9,181	4,597
Italy	5,009	2,986	22,511	Venezuela	9,520	16,177	24,874
Netherlands	4,933	4,967	2,262	India and Ceylon	37,271	24,394	23,675
Norway	6,755	4,096	3,250	China	72,885	52,327	57,126
Spain	5,660	7,832	4,299	Chosen	19,580	4,857	(2)
United Kingdom	60,383	62,080	56,855	Dutch East Indies	6,279	7,989	(2)
Canada	530,745	760,614	550,593	Hongkong	23,288	10,863	11,086
Central America	33,599	40,287	[1] 35,083	Japan	602,768	363,954	277,204
Mexico	85,264	84,583	108,512	Kwangtung	18,880	18,240	17,204
British West Indies	8,955	11,082	7,458	Philippine Islands	44,377	35,049	48,909
Cuba	89,192	171,900	165,637	Australia	42,611	41,144	23,148
Dominican Republic	4,821	10,688	11,309	New Zealand	5,241	3,682	3,239
Argentina	79,331	53,744	55,388	British South Africa	9,732	12,501	[3] 31,367
Brazil	56,722	50,536	68,139	All other countries	27,121	33,422	78,677

[1] Guatemala, Honduras, and Panama only.
[2] Not available.
[3] All British Africa.

No. 652.—COAL PRODUCTION: Quantity and Value

[Note.—Production and value include coal consumed at mines. 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 in thousands of net tons (2,000 pounds)			Year	Quantity in thousands of net tons (2,000 pounds)			Value in thousands of dollars	
	Total	Pennsylvania anthracite	Bituminous		Total	Pennsylvania anthracite	Bituminous	Pennsylvania anthracite	Bituminous
1821-1830	140	66	75	1905	392,723	77,660	315,063	141,879	334,658
1831-1840	1,032	722	310	1906	414,157	71,282	342,875	131,918	381,162
1841-1850	4,535	2,697	1,837	1907	480,363	85,604	394,759	163,584	451,215
1851-1860	12,513	7,645	4,868	1908	415,843	83,269	332,574	158,179	374,135
1861-1865	20,538	11,142	9,396	1909	460,815	81,070	379,744	149,182	405,487
1866-1870	31,706	16,281	15,425	1910	501,596	84,485	417,111	160,275	460,282
1871-1875	52,179	23,407	28,773	1911	496,371	90,464	405,907	175,189	451,376
1876-1880	62,261	25,860	36,401	1912	534,467	84,362	450,105	177,623	517,983
1881-1885	107,291	36,198	71,093	1913	569,960	91,525	478,435	195,181	565,235
1886-1890	138,398	43,952	94,446	1914	513,525	90,822	422,704	188,181	493,309
1891-1895	178,822	53,405	125,416	1915	531,619	88,995	442,624	184,653	502,038
1896-1900	227,123	55,625	171,498	1916	590,098	87,578	502,520	202,010	665,116
1901-1905	339,357	66,854	272,503	1917	651,402	99,612	551,791	283,651	1,249,273
1906-1910	454,555	81,142	373,413	1918	678,212	98,826	579,386	336,480	1,491,810
1911-1915	529,189	89,233	439,956	1919	553,952	88,092	465,860	364,927	1,166,616
1916-1920	626,386	92,741	533,645	1920	668,265	89,598	568,667	434,252	2,129,933
1901	293,300	67,472	225,828	1921 [1]	506,395	90,473	415,922	452,305	1,199,984
1902	301,590	41,374	260,217	1922	476,951	54,683	422,268	273,700	1,274,820
1903	357,356	74,607	282,749	1923	657,496	93,339	564,157	506,787	1,513,327
1904	351,816	73,157	278,660	1924 [1 2]	573,494	90,214	483,280	(3)	(3)

State	1880	1890	1900	Average, 1911-1915	Average, 1916-1920	1921 [1]	1922	1923	1924 [1 2]
	Thousands of net tons (2,000 pounds)								
Grand total	**71,482**	**157,771**	**269,684**	**520,189**	**626,386**	**506,395**	**476,951**	**657,496**	**573,494**
Anthracite (Pa.)	28,650	46,469	57,368	89,233	92,741	90,473	54,683	93,339	90,214
Bituminous	42,831	111,302	212,316	439,956	533,645	415,922	422,268	564,157	483,280
Alabama	324	4,090	8,394	15,864	17,834	12,560	18,325	20,458	19,490
Arkansas	15	400	1,448	1,986	1,980	1,228	1,110	1,297	1,300
Colorado	463	3,077	5,244	9,433	11,595	9,123	10,020	10,346	9,840
Illinois	6,115	15,292	25,768	58,320	78,255	69,603	58,468	79,310	67,880
Indiana	1,454	3,306	6,484	16,060	25,515	20,320	19,133	26,229	22,340
Iowa	1,461	4,022	5,203	7,442	7,571	4,531	4,335	5,711	5,100
Kansas	771	2,260	4,468	6,811	6,556	3,467	2,955	4,035	4,150
Kentucky	946	2,701	5,329	18,380	30,108	31,588	42,134	44,777	45,000
Maryland	2,229	3,358	4,025	4,549	4,158	1,828	1,223	2,286	1,720
Michigan	101	75	849	1,271	1,301	1,142	920	1,172	820
Missouri	844	2,735	3,540	4,048	5,086	3,552	2,925	3,403	3,140
Montana	(4)	517	1,662	2,972	4,008	2,734	2,572	3,148	2,700
New Mexico	--------	376	1,299	3,618	3,728	2,453	3,147	2,915	2,550
North Dakota	--------	30	130	500	787	865	1,328	1,385	1,090
Ohio	6,009	11,495	18,988	28,553	40,609	31,943	26,954	40,546	20,200
Oklahoma	121	869	1,922	3,720	4,292	3,363	2,803	2,835	2,800
Pennsylvania	18,425	42,302	79,842	157,229	168,532	116,014	113,148	171,530	123,530
Tennessee	495	2,170	3,510	6,288	6,208	4,460	4,877	6,040	4,800
Texas	--------	184	968	2,201	1,980	973	1,106	1,187	1,075
Utah	15	318	1,147	2,999	4,693	4,079	4,992	4,720	4,460
Virginia	43	784	2,394	7,924	10,158	7,492	10,491	11,762	10,900
Washington	145	1,264	2,474	3,261	3,576	2,429	2,581	2,926	2,400
West Virginia	1,830	7,395	22,647	69,353	86,369	72,787	80,488	107,900	110,000
Wyoming	590	1,870	4,015	6,907	8,555	7,201	5,972	7,575	6,850
Miscellaneous	435	412	565	259	190	180	253	262	145

Source: Bureau of Mines, Department of Commerce.

[1] Exclusive of product of wagon mines. [2] Estimated. [3] Not available. [4] Less than 500 tons.

No. 653.—COAL: Exports from and Imports into the United States

[Quantities in thousands of net tons (2,000 pounds) and values in thousands of dollars]

Calendar year	Exports						Imports [1]					
	Total		Anthracite		Bituminous [2]		Total		Anthracite		Bituminous	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1890	2,324	7,278	890	3,273	1,435	4,005	935	2,869	17	47	918	2,822
1895	4,125	10,754	1,647	5,937	2,477	4,817	1,516	3,955	158	329	1,357	3,627
1900	8,868	21,524	1,853	7,092	7,014	14,432	2,139	5,020	(3)	1	2,138	5,020
1905	10,202	28,973	2,498	11,105	7,794	17,868	1,843	4,011	38	107	1,804	3,904
1910	15,463	41,471	3,384	14,785	12,078	26,685	2,234	4,803	9	42	2,225	4,761
1915	22,742	61,247	3,965	18,429	18,777	42,817	1,707	4,413	3	15	1,704	4,398
1917	29,847	110,412	6,007	30,910	23,840	79,503	1,461	4,842	13	47	1,448	4,795
1918	27,319	107,881	4,968	29,216	22,351	78,665	1,494	6,898	37	204	1,457	6,694
1919	25,090	120,377	4,977	36,668	20,114	83,709	1,094	5,473	83	522	1,012	4,951
1920	43,921	349,811	5,404	45,538	38,517	304,273	1,277	6,992	32	258	1,245	6,734
1921	27,809	168,222	4,677	45,625	23,131	122,597	1,266	7,457	9	93	1,258	7,364
1922	15,063	91,242	2,649	25,351	12,413	65,892	5,294	28,250	234	1,502	5,060	26,747
1923	26,544	154,124	5,090	49,577	21,454	104,547	2,183	12,249	300	2,114	1,882	10,135
1924	21,118	111,034	4,019	40,066	17,094	70,968	535	3,019	116	873	419	2,146

[1] Imports to and including 1910 are "Imports for consumption." [3] Less than 500 tons.
[2] Does not include fuel or bunker coal laden on vessels engaged in foreign trade shown in Table 655.

No. 654.—COAL: Shipments, Average Value per Ton, and Men Employed

Calendar year	Thousand net tons				Average value per ton	Men employed	Days worked	Average tonnage per man—	
	Loaded for shipment	Sold locally and used by employees	Used by mines, steam and heat	Made into coke at mines				Per day	Per year
ANTHRACITE									
1890	41,011	2,001	3,457	---------	$1.43	120,000	200	1.85	369
1895	52,093	1,315	4,591	---------	1.41	142,017	196	2.07	406
1900	50,710	1,208	5,550	---------	1.49	144,206	166	2.40	398
1905	69,053	1,571	7,036	---------	1.83	165,406	215	2.18	470
1910	73,623	2,021	8,841	---------	1.90	169,497	229	2.17	498
1915	76,906	2,092	9,997	---------	2.07	176,552	230	2.19	504
1917	86,789	2,382	10,441	---------	2.85	154,174	285	2.27	646
1918	85,928	2,674	10,224	---------	3.40	147,121	293	2.29	672
1919	76,129	2,361	9,602	---------	4.14	154,571	266	2.14	570
1920	76,844	2,897	9,858	---------	4.85	145,074	271	2.28	618
1921	77,901	2,813	9,760	---------	5.00	159,499	271	2.09	567
1922	46,003	2,378	6,302	---------	5.01	156,849	151	2.31	349
1923	82,239	3,248	7,852	---------	5.43	157,743	268	2.21	592
BITUMINOUS									
1890	87,373	7,008	1,607	15,332	.99	192,204	226	2.56	579
1895	106,287	8,340	2,086	18,404	.86	230,962	194	2.00	563
1900	173,072	7,868	3,740	27,635	1.04	304,375	234	2.98	697
1905	255,201	10,639	7,007	42,412	1.06	460,629	211	3.24	684
1910	342,969	12,287	9,668	52,187	1.12	555,533	217	3.46	751
1915	370,877	12,354	9,799	40,595	1.13	557,456	203	3.01	794
1917	469,851	19,507	12,117	50,315	2.26	603,143	243	3.77	915
1918	503,089	18,682	12,521	45,094	2.58	615,305	249	3.78	942
1919	409,149	18,069	11,062	27,581	2.49	621,998	195	3.84	749
1920	504,873	21,289	11,896	30,608	3.75	639,547	220	4.00	881
1921	382,064	16,136	9,123	8,599	2.89	663,754	149	4.20	627
1922	383,677	17,506	7,831	13,253	3.02	687,058	142	4.28	609
1923	505,600	21,933	8,765	27,859	2.68	702,817	179	4.47	801

Source: Bureau of Mines, Department of Commerce.

No. 655.—BUNKER COAL LADEN ON VESSELS ENGAGED IN FOREIGN TRADE

Fiscal year ended June 30—	Quantity	Value	Calendar year ended Dec. 31—	Quantity	Value
	Long tons	*Dollars*		*Long tons*	*Dollars*
1907 [1]	4,460,482	14,179,380	1916	7,825,731	27,491,822
1908 [1]	5,887,461	19,979,097	1917	6,883,176	31,844,799
1909	6,003,794	19,671,778	1918	5,532,175	29,868,023
1910	6,335,929	20,350,020	1919	7,342,734	48,205,675
1911	6,507,162	20,974,322	1920	9,362,178	82,461,518
1912	7,092,255	22,803,885	1921	7,547,518	52,277,668
1913	7,350,404	23,690,371	1922	4,120,207	27,912,957
1914	7,811,913	25,571,487	1923	4,547,343	31,469,788
1915	7,062,643	23,684,214	1924	3,988,541	22,883,293

[1] Figures do not include coal laden on vessels on the Great Lakes.

No. 656.—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
1902	200,452	16,672,217	83	1913	135,395	3,049,412	23
1903[1]	47,481	1,341,031	28	1914	161,720	11,013,667	68
1904	77,661	3,382,830	44	1915	67,190	2,467,431	37
1905	37,542	796,735	21	1916	170,633	3,344,586	20
1906	372,343	19,201,348	52	1917	160,240	2,348,399	15
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

State	1920		1921		1922		1923	
	Men on strike	Days lost	Men on strike	Days lost	Men on strike	Days lost	Men on strike	Days lost
Grand total	**282,419**	**5,914,473**	**151,263**	**3,106,103**	**603,031**	**73,497,043**	**197,214**	**3,868,543**
Anthracite (Pa.)	**96,840**	**1,815,316**	**52,117**	**823,279**	**142,442**	**19,623,026**	**135,585**	**2,629,418**
Total bituminous	**185,579**	**4,099,157**	**99,146**	**2,282,824**	**460,589**	**53,874,017**	**61,629**	**1,239,125**
Alabama	8,490	800,519	2,329	157,401	46	167	----------	----------
Arkansas	956	28,015	1,677	17,400	3,691	435,507	324	9,009
Colorado	2,012	18,240	2,497	72,830	6,672	527,250	----------	----------
Illinois	63,481	948,408	18,088	220,112	93,584	11,547,829	7,474	95,458
Indiana	19,068	411,991	17,634	321,503	31,721	3,924,396	10,765	104,604
Iowa	4,966	24,366	807	1,840	12,192	1,479,497	1,946	19,874
Kansas	5,461	161,485	7,285	538,811	6,515	847,075	949	24,741
Kentucky	9,192	312,460	1,789	64,448	10,270	605,441	2,699	92,035
Maryland	1,733	25,514	123	4,463	4,446	688,206	2,686	359,920
Michigan	1,659	24,993	780	2,826	2,062	247,919	786	3,992
Missouri	1,841	36,015	2,089	50,108	7,535	939,192	312	10,857
Montana	377	6,952	92	2,035	3,361	428,678	25	25
New Mexico	----------	----------	425	1,700	585	75,135	----------	----------
North Dakota	49	473	15	225	578	49,238	85	6,933
Ohio	17,333	245,314	17,682	176,605	46,283	5,502,885	16,486	203,161
Oklahoma	2,267	24,053	1,520	12,231	5,872	773,127	1,020	8,211
Pennsylvania[1]	27,728	479,708	14,895	302,525	155,604	18,388,895	10,984	157,130
Tennessee	202	1,478	638	17,350	5,864	482,231	572	24,766
Texas	824	9,737	----------	----------	693	13,867	137	18,141
Utah	113	791	100	200	2,111	212,896	----------	----------
Virginia	48	1,736	----------	----------	240	2,200	----------	----------
Washington	201	22,962	802	139,126	2,225	299,861	1,754	50,681
West Virginia	12,340	511,225	7,198	170,017	49,832	5,348,298	2,625	49,587
Wyoming	238	2,722	591	2,978	8,607	1,054,227	----------	----------

Source: Bureau of Mines, Department of Commerce.

[1] Bituminous mines only.

No. 657.—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				*Dollars*				*Dollars*			
1913	7.91		100		7.73		100		5.43		100	
	Jan.	July	Jan.	July	Jan.	July	Jan.	July	Jan.	July	Jan.	July
1914	8.00	7.78	101	98	7.80	7.60	101	98	5.97	5.46	110	101
1915	7.99	7.73	101	98	7.83	7.54	101	98	5.71	5.44	105	100
1916	8.13	8.28	103	105	7.93	8.12	103	105	5.69	5.52	105	102
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

Source: Bureau of Labor Statistics, Department of Labor.

[1] Prices represent combined averages for cities shown in Table 658.
[2] Average of prices for January and July, 1913. This is used as a base in working relative prices.

No. 658.—COAL: Retail Price, for Household Use

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

City	Anthracite [1]					Bituminous				
	Jan. 15—			1924		Jan. 15—			1924	
	1921	1922	1923	Jan. 15	July 15	1921	1922	1923	Jan. 15	July 15
Atlanta, Ga	19.13	17.38				11.85	7.52	10.48	8.13	7.13
Baltimore, Md	[2] 15.50	[2] 14.75	[2] 16.25	[2] 16.50	[2] 15.54	[2] 10.25	7.85	11.00	7.90	7.60
Birmingham, Ala						10.65	7.19	8.41	8.23	7.70
Boston, Mass	16.00	15.00	16.00	16.00	15.70					
Bridgeport, Conn	17.50	13.85	15.75	16.50	15.38					
Buffalo, N. Y	13.25	12.96	13.24	13.66	13.33					
Butte, Mont						12.72	11.67	11.49	11.42	10.81
Charleston, S. C	[2] 17.73	[2] 17.10	[2] 17.10	[2] 17.10	[2] 17.10	13.25	12.00	12.00	12.00	11.00
Chicago, Ill	16.03	15.34	16.05	17.00	16.25	9.48	8.91	10.93	8.60	7.85
Cincinnati, Ohio	16.38	15.50				8.68	7.00	9.04	8.09	7.17
Cleveland, Ohio	14.75	14.44	15.75	15.47	14.31	9.56	8.14	11.32	8.47	7.04
Columbus, Ohio	16.50	15.08				9.46	7.20	9.85	7.25	6.47
Dallas, Tex	[3] 20.25	[3] 18.25	[3] 18.13	[3] 17.58	[3] 16.25	16.25	15.42	15.38	14.68	13.73
Denver, Colo	[4] 17.53	[4] 15.92	[4] 17.25	[4] 16.75	[4] 16.00	11.69	10.84	10.69	10.72	9.07
Detroit, Mich	15.95	14.56	16.00	16.13	15.25	12.19	8.75	11.89	9.48	9.18
Fall River, Mass	16.25	15.00	16.08	15.92	15.33	14.00	9.17			
Houston, Tex						16.29	12.25	12.83	13.17	11.00
Indianapolis, Ind	16.00	15.67	15.75	16.50	16.00	9.84	7.55	9.61	7.10	6.78
Jacksonville, Fla	23.00	17.50				15.67	13.00	15.00	13.00	12.00
Kansas City, Mo	[3] 17.92	[3] 17.21	[3] 16.93	[3] 16.29	[3] 14.70	10.12	8.67	8.90	8.50	8.25
Little Rock, Ark	[3] 17.00	[3] 15.00	[3] 15.00	[3] 15.00	[3] 14.00	14.18	12.80	12.50	11.57	10.00
Los Angeles, Calif						19.22	19.00	16.50	15.70	14.50
Louisville, Ky	17.00	16.75				9.75	7.10	10.18	8.70	7.20
Manchester, N. H	18.00	16.50	18.00	17.50	16.83	14.00	11.00			
Memphis, Tenn	18.00	18.00				10.04	7.79	9.41	8.00	8.00
Milwaukee, Wis	16.28	15.95	16.63	16.59	16.60	12.95	10.41	12.72	10.19	9.02
Minneapolis, Minn	18.39	17.75	17.67	18.08	17.75	13.82	11.70	13.91	11.51	10.40
Mobile, Ala						13.21	11.21	10.93	11.07	9.71
Newark, N. J	13.00	12.75	12.79	13.45	13.13					
New Haven, Conn	17.08	14.00	15.33	16.00	14.75					
New Orleans, La	22.50	18.00	21.50	21.75	19.50	12.87	10.78	11.21	11.36	10.11
New York, N. Y	14.54	13.21	14.45	14.50	13.70					
Norfolk, Va	16.00	14.00	16.00	16.00	14.50	13.36	9.43	12.43	8.83	8.25
Omaha, Nebr	23.38	22.00				13.70	11.86	11.94	10.17	9.80
Peoria, Ill	16.50	15.50				7.75	6.32	7.17	6.37	6.31
Philadelphia, Pa	[2] 14.98	[2] 14.13	[2] 15.09	[2] 15.75	[2] 14.86					
Pittsburgh, Pa	[2] 18.50	[2] 15.67	[2] 17.00	[2] 17.00	[2] 16.00	8.16	6.78	8.16	7.25	7.06
Portland, Me	16.32	15.84	16.84	16.56	16.26	12.74				
Portland, Oreg						13.79	12.96	14.52	13.89	12.82
Providence, R. I	[5] 17.00	[5] 15.00	[5] 16.40	[5] 16.35	[5] 15.50	[5] 13.58				
Richmond, Va	15.50	14.25	16.50	16.50	15.50	12.29	9.85	13.10	11.36	8.94
Rochester, N. Y	13.55	13.45	13.45	14.10	13.95					
St. Louis, Mo	17.16	16.38	16.58	17.38	16.38	7.96	7.16	8.36	7.22	6.28
St. Paul, Minn	18.32	17.75	17.64	18.09	17.75	15.13	12.05	13.93	11.59	10.60
Salt Lake City, Utah	[4] 17.70	[4] 19.13	[4] 20.00	[4] 17.50	[4] 17.50	10.01	9.00	9.17	8.50	8.36
San Francisco, Calif	[6] 28.65	[6] 27.25	[6] 26.75	[6] 26.50	[6] 25.00	19.40	19.25	17.90	17.22	15.94
Savannah, Ga	[7] 19.10	[7] 17.10	[7] 17.00	[7] 17.05	[7] 17.00	[7] 15.10	[7] 12.27	[7] 14.08	[7] 12.12	[7] 10.58
Scranton, Pa	9.83	9.70	9.83	10.53	10.30					
Seattle, Wash						[8] 11.61	[8] 10.13	[8] 10.27	[8] 10.24	[8] 9.86
Springfield, Ill						4.95	4.58	5.33	4.50	4.50
Washington, D. C	[2] 15.56	[2] 14.62	[2] 15.87	[2] 16.24	[2] 15.07	[2] 11.58	[2] 9.10	[2] 11.34	[2] 9.04	[2] 8.56

Source: Bureau of Labor Statistics, Department of Labor.

[1] The term "anthracite" when standing alone signifies Pennsylvania anthracite.
[2] Per ton of 2,240 pounds.
[3] Arkansas anthracite.
[4] Colorado anthracite.
[5] 50 cents per ton additional is charged for binning.
[6] New Mexico anthracite.
[7] All coal sold is weighed by the city; charge of 10 cents per ton is included in the price.
[8] Prices in Zone A. The cartage charges range from $1.25 to $2.25 and are included in the price.

No. 659.—COKE: Production, Exports, and Imports

Year or yearly average	Production in thousands of net 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			Thousands of net tons	
1896-1900	16,265	15,741	524	3.2	30,293	240	54
1901-1905	25,673	23,566	2,107	8.2	58,581	517	150
1906-1910	36,848	31,296	5,552	15.1	91,068	904	159
1911-1915	40,394	29,000	11,394	28.2	103,739	897	98
1916-1920	52,429	27,733	24,696	47.1	320,799	1,182	34
1912	43,984	32,868	11,115	25.3	111,805	913	124
1913	46,300	33,585	12,715	27.5	128,922	987	101
1914	34,556	23,336	11,220	32.5	88,334	604	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	147,073	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[2]	43,652	9,668	33,984	77.9	(3)	659	83

Source: Bureau of Mines, Department of Commerce.

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

No. 660.—COKE: By-Product and Beehive Production, by States

[Figures in thousands of net tons of 2,000 pounds]

	1915	1919	1920	1921	1922	1923	1924[1]
BY-PRODUCT							
Total	14,073	25,138	30,834	19,750	28,551	37,598	33,984
Alabama	2,070	2,231	3,124	2,401	3,494	4,385	4,386
Colorado	----------	413	517	287	365	448	523
Illinois	1,687	1,704	2,137	1,322	1,083	3,187	2,355
Indiana	2,768	3,702	4,554	3,001	3,996	5,043	4,272
Kentucky	242	408	467	185	457	434	----------
Maryland	313	356	682	292	590	862	810
Massachusetts	504	393	488	294	407	554	398
Michigan	(2)	809	1,393	777	1,142	1,649	1,771
Minnesota	128	586	675	436	462	696	515
New Jersey	269	788	726	740	791	898	869
New York	684	751	1,040	747	1,405	1,784	1,601
Ohio	666	5,374	5,615	2,966	4,912	6,324	5,723
Pennsylvania	3,092	5,867	7,730	5,303	7,152	9,186	8,426
Tennessee	23	105	139	58	27	124	76
West Virginia	141	393	447	188	502	941	999
All other States	1,484	1,257	1,160	661	777	1,084	1,259
BEEHIVE							
Total	27,508	19,043	20,511	5,538	8,573	19,380	9,668
Pennsylvania	22,531	14,635	15,908	4,466	6,840	16,439	7,631
Ohio	19	108	87	62	99	150	
West Virginia	1,250	1,021	1,381	210	418	822	506
Alabama	1,601	1,150	890	133	306	269	641
Kentucky	285	284	273	99	31	126	
Tennessee	234	156	163	23	86	180	
Georgia	20	18	17	7	9	13	
Virginia	630	931	1,028	260	379	775	410
Colorado	671	201	273	81	119	200	
New Mexico	389	260	(2)	(2)	88	(2)	[3] 260
Washington	(2)	36	33	8	26	38	211
Utah	(2)	(2)	(2)	(2)	172	233	
All other States	478	244	459	168	----------	137	----------

Source: Bureau of Mines, Department of Commerce.

[1] Preliminary.
[2] Included under "all other States."
[3] Includes report for Oklahoma.

No. 661.—NATURAL GAS AND NATURAL-GAS GASOLINE PRODUCTION

[NOTE.—Beside the gas marketed 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-gas gasoline			Year	Natural gas produced and marketed		Natural-gas gasoline		
	Millions of cubic feet	Thousand dollars	Gas treated, millions of cubic feet	Production, thousands of gallons	Value, thousand dollars		Millions of cubic feet	Thousand dollars	Gas treated, millions of cubic feet	Production, thousands of gallons	Value, thousand dollars
1906-1910	437,057	57,940				1917	795,110	142,089	420,288	217,884	40,189
1911-1915	575,703	88,492	11,602	30,317	2,481	1918	721,001	153,554	449,109	282,536	50,364
1916-1920	762,681	154,590	412,787	268,038	48,174	1919	745,016	160,888	480,404	351,535	64,197
1911	512,993	74,622	2,476	7,426	532	1920	798,210	196,194	406,431	384,744	71,788
1912	563,203	84,564	4,688	12,081	1,157	1921	662,052	174,617	465,007	449,934	61,815
1913	581,898	87,847	9,889	24,061	2,458	1922	762,546	221,535	545,139	505,832	72,711
1914	591,367	94,116	16,895	42,653	3,106	1923	1,008,135	239,966	875,711	816,226	77,268
1915	628,579	101,312	24,064	65,365	5,151	1924 [1]	1,095,000	254,000	960,000	894,000	77,500
1916	753,170	120,227	208,705	103,493	14,331						

State	Natural gas (millions of cubic feet)					Natural-gas gasoline produced (thousands of gallons)			
	Produced and marketed				Consumed				
	1915	1921	1922	1923	1923	1915	1922	1923	1924 [1]
Total	628,579	662,052	762,546	1,008,135	1,008,135	65,365	505,832	816,226	894,000
Arkansas	[2] 992	4,260	9,760	24,215	33,746		4,289	16,183	17,000
California	21,891	75,942	84,580	131,434	131,434	12,835	67,120	173,329	200,000
Illinois	2,690	2,646	3,383	4,049	4,049	1,035	7,760	7,356	9,000
Indiana	2,261	1,066	947	880	2,951				
Kansas	27,046	15,717	20,289	32,072	37,637	(3)	2,856	8,775	10,000
Kentucky	1,667	4,820	5,872	11,953	21,232	(3)	5,205	7,601	9,000
Louisiana	25,540	58,004	70,267	112,031	111,434	(3)	29,406	40,720	46,000
New York	7,977	6,583	6,947	6,497	16,495	(3)	506	408	400
Ohio	79,510	47,412	51,481	53,812	120,920	2,199	8,600	10,035	10,600
Oklahoma	87,517	124,058	140,631	203,082	173,788	31,666	189,404	270,249	310,000
Pennsylvania	113,662	86,144	101,276	112,562	138,478	[4] 5,899	18,518	19,132	19,000
Texas	13,324	44,504	47,945	74,535	[5] 83,046	(3)	95,405	177,765	170,000
West Virginia	244,004	174,921	195,283	203,367	88,827	[4] 10,854	56,796	63,381	64,000
Wyoming	[6] 342	15,608	23,427	35,523	34,576		19,967	21,202	29,000
All other	126	367	513	1,623	9,522	877			

[1] Preliminary.
[2] Includes gas piped from Oklahoma and consumed in Arkansas.
[3] Included with all other.
[4] Includes gasoline resulting from natural condensation in gas mains
[5] Includes 9,000,000 cubic feet consumed in Mexico.
[6] Includes Colorado.

No. 662.—ASPHALT: PRODUCTION, EXPORTS, AND IMPORTS

Quantity and value	1905	1910	1915	1920	1923	1924
QUANTITY, SHORT TONS OF 2,000 POUNDS						
Asphalt produced in the United States and sold, total	115,267	260,080	1,128,572	1,944,772	2,774,612	3,650,236
From domestic petroleum	52,369	161,187	664,503	700,496	995,654	1,158,456
From Mexican petroleum			388,318	1,045,779	1,378,722	1,920,915
Native asphalt [1]	62,898	98,893	75,751	198,497	400,236	570,865
Asphalt and related bitumen imported for consumption, total	100,597	186,311	139,662	130,599	147,063	161,573
Asphalt exported, unmanufactured			38,203	51,706	72,628	52,568
VALUE, THOUSANDS OF DOLLARS						
Asphalt produced in the United States and sold, total	758	3,080	8,973	27,472	32,786	40,004
From domestic petroleum	453	2,226	4,716	11,985	15,060	14,305
From Mexican petroleum			3,730	14,273	16,840	21,711
Native asphalt	305	854	526	1,214	2,886	3,988
Asphalt and related bitumen imported for consumption, total	479	786	919	1,647	1,293	1,411
Asphalt exported:						
Unmanufactured			736	1,356	1,501	1,246
Manufactured			430	842	2,076	2,212

Source: Tables 661 and 662, Bureau of Mines, Department of Commerce.

[1] Native asphalt and related bitumen.

No. 663.—PETROLEUM: Production, Exports, and Imports

Year or yearly average	Crude oil							Refined products exported, 1,000 gallons [1]
	Quantity in thousands of barrels of 42 gallons			Equivalent in thousands of gallons			Production, value in thousands of dollars	
	Production	Exports	Imports	Production	Exports	Imports		
1861–1870	3,246	(2)	(2)	136,342	(2)	(2)	12,880	(2)
1871–1880	12,519	528	(3)	525,785	22,177	(3)	19,678	253,093
1881–1890	29,249	1,719	(3)	1,228,438	72,188	(3)	23,381	507,532
1891–1895	51,095	2,006	(3)	2,145,991	109,455	(3)	35,708	703,533
1896–1900	59,498	2,907	(3)	2,498,928	122,076	(3)	56,836	850,071
1901–1905	102,083	3,029	(3)	4,287,494	127,223	(3)	83,524	937,304
1906–1910	172,769	3,686	(3)	7,256,296	154,798	(3)	119,572	1,281,889
1911–1915	247,739	4,134	12,080	10,405,057	173,625	(3)	185,793	1,867,943
1916–1920	362,661	5,413	50,731	15,231,762	227,337	(3)	735,608	2,473,616
1913	248,446	4,630	16,979	10,434,742	194,570	713,100	237,121	1,874,132
1914	265,763	2,970	16,913	11,162,026	124,736	710,351	214,125	2,046,088
1915	281,104	3,768	18,139	11,806,372	158,263	761,852	179,463	2,157,836
1916	300,767	4,096	20,797	12,632,221	172,028	873,468	330,000	2,428,967
1917	335,316	4,098	30,127	14,083,255	172,121	1,265,321	522,635	2,477,946
1918	355,923	4,901	37,736	14,948,964	205,829	1,584,867	703,944	2,508,546
1919	378,367	[4] 6,019	52,822	15,891,414	[4] 252,783	2,218,506	760,266	2,210,933
1920	442,629	[4] 8,757	106,175	18,603,018	[4] 367,798	4,459,362	1,300,745	2,741,690
1921	472,183	[4] 8,940	125,364	19,831,686	[4] 375,465	5,265,287	814,745	2,416,426
1922	557,531	[4] 10,163	127,308	23,150,274	[4] 426,838	5,346,954	895,111	2,502,872
1923	732,407	[4] 17,385	82,015	30,761,094	[4] 730,186	3,444,631	978,430	3,270,638
1924 [5]	707,265	[4] 17,973	77,775	29,705,130	[4] 757,577	3,266,557	986,000	3,919,538

[1] Does not include bunker oil laden on vessels engaged in the foreign trade.
[2] Not available. [3] Not reported separately. [4] Includes foreign exports. [5] Preliminary.

No. 664.—BUNKER OIL LADEN ON VESSELS ENGAGED IN FOREIGN TRADE

Year	Quantity	Value	Year	Quantity	Value
	Barrels	*Dollars*		*Barrels*	*Dollars*
1915	3,565,805	3,161,341	1920	26,334,883	66,679,056
1916	5,529,787	5,583,222	1921	27,076,138	57,183,282
1917	5,908,319	7,391,985	1922	31,692,201	43,677,579
1918	6,603,043	11,676,053	1923	37,581,845	52,204,729
1919	14,031,356	29,383,438	1924	43,327,775	57,972,815

No. 665.—PETROLEUM: Stocks of Crude Oil

NOTE.—Since August, 1920, stocks are classed as follows: Producers' stocks or petroleum held on producing properties; pipe-line and tank-farm stocks held in tanks along pipe lines and in pipe lines; and refinery stocks and stocks held by other consumers. For refinery stocks see Table 669. Exception: Producers' stocks and some unfinished products in California are included in pipe-line and tank-farm stocks beginning with 1917]

[All figures in thousands of barrels of 42 gallons]

Dec. 31	Pipe-line and tank-farm stocks of domestic petroleum	Producers' stocks	Total		Dec. 31	Pipe-line and tank-farm stocks of domestic petroleum	Producers' stocks	Stocks of Mexican petroleum held by importers	Total	
			Quantity	Number of days' supply [1]					Quantity	Number of days' supply [1]
1910	131,030	(2)	131,030	244	1918	126,553	2,033	(2)	128,586	113
1911	137,233	(2)	137,233	232	1919	129,205	4,089	2,919	136,213	117
1912	122,870	(2)	122,870	184	1920	135,000	3,586	7,442	146,028	99
1913	122,803	(2)	122,803	169	1920 [4]	117,159	3,586	7,442	128,187	87
1914	141,550	(2)	141,550	196	1921	172,083	5,139	13,540	190,762	130
1915	146,254	[3] 47,931	194,185	241	1922	248,413	8,428	16,165	273,006	165
1916	139,303	[3] 40,069	179,372	200	1923	330,020	9,850	[5] 4,754	344,624	172
1917	150,063	9,389	159,452	152	1924 [6]	348,451	(2)	[5] 3,499	[7] 351,950	167

Source: Tables 663 and 665, Bureau of Mines, Department of Commerce.

[1] Based on average daily rate for the year of deliveries to domestic consumers and exports.
[2] Not available.
[3] Includes some stocks held off producing properties; for subsequent years similar stocks are classed as tank-farm stocks.
[4] As reported by revised method (see headnote).
[5] Held by importers elsewhere than at refineries.
[6] Preliminary.
[7] Producers' stock not included.

No. 666.—PETROLEUM, CRUDE: PRODUCTION, BY REGIONS AND STATES, AND APPROXIMATE WORLD PRODUCTION

[All figures in thousands of barrels of 42 gallons]

Section	1880	1890	1900	Average, 1911–1915	Average, 1916–1920	1922	1923	1924 [1]	Production since 1857
United States	26,286	45,824	63,621	247,739	362,661	557,531	732,407	707,265	7,899,254
Regions:									
Appalachian	26,246	30,067	36,295	24,594	27,161	29,180	28,225	27,049	1,399,203
Lima-Indiana [2]		15,078	21,759	5,052	3,468	2,269	2,404	2,288	464,436
Illinois [2]		1		24,955	13,918	10,231	9,500	8,732	360,356
Mid-Continent		1	917	87,656	184,616	310,902	348,460	368,729	2,901,529
Gulf				12,357	24,273	37,117	33,271	27,642	491,911
Rocky Mountain		369	323	2,605	11,830	29,261	47,653	42,761	222,843
California	40	307	4,325	90,512	97,384	138,468	262,876	230,064	2,058,791
Other			2	9	10	13	18		185
States:									
Arkansas						12,712	36,610	44,209	104,004
California	40	307	4,325	90,512	97,384	138,468	262,876	230,064	2,058,791
Colorado		369	317	211	139	97	86	404	12,246
Illinois		1		24,955	13,918	9,383	8,707	8,065	351,157
Indiana		64	4,874	1,167	865	1,087	1,043	935	112,246
Kansas		1	75	2,235	32,556	31,766	28,250	28,483	345,458
Kentucky [3]		6	62	484	5,335	8,973	8,069	7,410	69,673
Louisiana				12,997	19,117	35,376	24,919	20,713	311,783
Montana					129	2,449	2,782	2,781	10,165
New York [4]			1,301	920	864	1,000	1,250	1,366	[5] 59,808
Ohio	39	16,125	22,363	8,586	7,583	6,781	7,085	6,825	506,520
Oklahoma			6	68,524	102,200	149,571	160,929	170,895	1,640,466
Pennsylvania [4]	26,028	28,458	13,258	8,002	7,662	7,425	7,609	7,535	[5] 780,318
Tennessee [3]					10	10	8	6	86
Texas			836	16,256	55,008	118,684	131,023	132,071	991,728
West Virginia	179	493	16,196	10,487	8,311	7,021	6,358	5,927	338,179
Wyoming			6	2,394	11,562	26,715	44,785	39,488	200,344
Undistributed			2	9	10	13	18	88	273
Foreign countries	3,732	30,809	85,511	136,652	180,445	297,278	286,493	[6] 299,139	4,495,776
Mexico				22,791	82,056	182,278	149,585	139,587	1,201,371
Russia	3,001	28,691	75,780	66,521	42,648	32,966	39,156	45,162	2,052,999
Dutch East Indies			2,253	11,507	14,308	16,720	19,868	21,000	294,555
Persia				[7] 2,794	8,523	21,909	28,793	31,845	150,557
India		118	1,079	7,422	8,374	7,700	8,320	8,150	157,194
Rumania	115	383	1,629	12,499	7,090	9,843	10,867	13,296	207,835
Poland (Galicia)	229	659	2,347	7,732	6,110	5,227	5,373	5,710	100,657
Peru			274	1,941	2,628	5,314	5,699	7,812	52,321
All other	387	958	2,149	4,564	8,707	15,321	18,832	26,577	188,287
Estimated world total	30,018	76,633	149,132	384,391	543,106	854,809	1,018,900	1,006,404	12,395,030
Per cent United States of total	87.6	59.8	42.7	64.4	66.8	65.2	71.9	70.3	63.7

Source: Bureau of Mines, Department of Commerce.

1 Preliminary.
2 Southwestern Indiana reported with Illinois beginning with 1921; previously with Lima-Indiana region.
3 Kentucky includes report for Tennessee for 1890 and 1900.
4 Pennsylvania includes New York for 1880 and 1890.
5 Four years production in New York included with Pennsylvania.
6 Figures for foreign countries for 1924 are those of the American Petroleum Institute.
7 Average for period 1913–1915.

No. 667.—PETROLEUM: Indicated Consumption of Domestic and Imported Crude Oil

[Note.—Consumption is calculated from production, stocks, exports, and import figures and represents not that of finished products by final consumers, but of crude oil by refiners and oil used for roads and other purposes. Producers' stocks were not used in the calculation prior to 1919. (See Table 669 for crude oil run to stills and for apparent consumption of refined products)]

[All figures in thousands of barrels of 42 gallons]

	1915	1917	1918	1919	1920	1921	1922	1923	1924
Domestic crude oil:									
Production	281, 104	335, 316	355, 928	378, 367	442, 929	472, 183	557, 531	732, 407	707, 265
Change in stocks	+4, 704	−16, 972	−23, 510	+4, 708	+5, 292	+56, 479	+79, 619	+83, 029	+18, 431
Exports	3, 768	4, 098	4, 901	5, 924	8, 045	8, 866	9, 995	17, 061	17, 605
Indicated consumption	272, 632	348, 190	374, 537	367, 735	429, 592	406, 840	467, 917	632, 317	671, 229
Imported crude oil:									
Imports (net)	18, 139	30, 127	37, 736	52, 727	105, 463	125, 290	127, 141	81, 690	77, 408
Change in stocks					+4, 523	+6, 008	+2, 625	−308	−1, 255
Indicated consumption	18, 139	30, 127	37, 736	52, 727	100, 940	119, 192	124, 515	81, 999	78, 663
Total indicated consumption	290, 771	378, 317	412, 273	420, 462	530, 532	526, 032	592, 432	714, 316	749, 892

Source: Bureau of Mines, Department of Commerce.

No. 668.—PETROLEUM REFINING: Materials Used and Products

Material or product	Quantity (thousands of unit specified)				Cost or value (thousands of dollars)		
	Unit	1914	1921	1923	1914	1921	1923
Materials used, total cost					325, 265	1, 382, 170	1, 425, 053
Crude petroleum	Barrels	191, 263	[1] 485, 500	601, 748	249, 728	(2)	(2)
Distillates purchased and rerun.	do	9, 455		35, 155	24, 395	(2)	(2)
Casing-head gasoline	do	(2)	(2)	15, 949	(2)	(2)	(2)
All other					51, 142	(2)	(2)
All products, total value					396, 361	1, 727, 440	1, 793, 700
Gasoline	Gallons	1, 195, 422	5, 098, 057	7, 332, 329	106, 140	840, 672	876, 732
Naphtha	do		199, 533	399, 493		28, 892	35, 761
Benzine	do	264, 626	52, 523	67, 733	15, 779	7, 050	8, 863
Other light products	do		23, 121	50, 968		3, 887	5, 544
Illuminating oils	do	1, 935, 275	1, 939, 197	5, 544	96, 806	151, 595	146, 942
Fuel oils:							
Distillates	do	457, 492	1, 220, 247	854, 801	15, 999	59, 586	32, 107
Gas oils	do	755, 558	1, 634, 342	1, 591, 951	22, 805	85, 322	62, 530
Residual fuel oil	do	2, 521, 042	6, 894, 534	9, 529, 645	45, 213	232, 365	251, 029
Partly refined oils sold for rerunning.	do	(2)	394, 204	1, 300, 804	(2)	24, 178	54, 978
Lubricating oils:							
Pale or paraffin	do	93, 422	150, 245	215, 563	8, 085	27, 645	28, 051
Red or neutral	do	116, 352	275, 539	311, 391	12, 426	51, 799	58, 778
Cylinder oils	do	102, 949	188, 044	234, 410	13, 704	38, 363	44, 720
All other lubricating oils	do	205, 115	326, 399	387, 288	21, 598	76, 803	72, 945
Liquid asphaltic road oils	do	134, 844	168, 378	198, 920	4, 018	7, 831	7, 865
Residuum or tar	do		40, 102	80, 066		1, 831	3, 101
Greases	do	14, 006	24, 444	35, 024	3, 538	9, 755	10, 785
Paraffin wax	do	57, 539	58, 419	69, 536	8, 897	11, 764	12, 899
Asphalt, other than liquid	Ton	465	1, 170	2, 114	4, 867	16, 647	23, 339
Coke	do	214	531	647	819	3, 715	4, 796
Candles					1, 403	1, 656	2, 108
Other special products					9, 000	25, 444	29, 031
All other products					5, 266	19, 749	16, 806

Source: Bureau of the Census, Department of Commerce.

[1] Estimated.
[2] No data.

No. 669.—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 and fuel oil, and lubricating oil for 1922 to 1924 take into account comparatively small imports not shown separately, and for which no data were available prior to October, 1922. In 1924 these amounts were as follows: Kerosene, 3,358,000 gallons; gas and fuel oil, 542,927,000 gallons; lubricating oil, 452,000 gallons]

	Unit	1918	1920	1921	1922	1923	1924
		In thousands of unit specified					
OILS RUN TO STILLS							
Crude oil	Barrel	326,025	433,915	443,363	500,706	581,238	643,719
Natural-gas gasoline	do	2,451	3,153	2,517	3,662	5,487	12,671
OUTPUT OF REFINERIES							
Gasoline:							
Produced	Gallon	3,570,313	4,882,547	5,153,549	6,202,235	7,555,945	8,959,080
Exported	do	568,876	656,740	551,633	594,576	871,117	1,219,474
Imported	do	12,899	40,478	37,816	62,133	191,314	145,023
Stocks, end of year	do	297,327	462,382	580,087	883,703	1,074,900	1,170,503
Apparent consumption	do	3,129,266	4,250,696	4,516,027	5,372,085	6,085,035	7,780,625
Kerosene:							
Produced	do	1,825,360	2,320,095	1,945,126	2,306,326	2,348,935	2,521,109
Exported	do	496,445	876,878	756,652	902,536	854,555	919,479
Stocks, end of year	do	380,118	393,071	341,009	281,050	283,196	338,826
Apparent consumption	do	1,446,548	1,380,466	1,240,537	1,463,896	1,492,536	1,549,357
Gas and fuel oil:							
Produced	do	7,321,398	8,861,452	9,663,816	10,706,227	12,074,192	13,459,969
Exported	do	1,244,734	927,337	952,405	776,134	1,401,622	1,561,740
Stocks, end of year	do	659,001	837,404	1,331,205	1,304,728	1,515,036	1,670,509
Apparent consumption	do	5,995,561	7,810,835	8,217,550	10,080,409	10,978,286	12,285,682
Lubricating oil:							
Produced	do	841,466	1,046,708	877,859	978,752	1,097,368	1,154,927
Exported	do	253,918	405,002	291,343	333,434	351,599	382,343
Stocks, end of year	do	138,854	160,522	216,766	235,735	242,785	257,336
Apparent consumption	do	580,550	618,503	530,273	628,108	739,998	758,484
Wax production	Pound	505,144	541,405	433,887	462,003	466,647	516,491
Coke production	Short ton	560	577	604	707	673	761
Asphalt production	do	608	1,291	1,215	1,895	2,327	2,546
Other finished products	Gallon	----------	----------	----------	190,130	213,626	346,579
Losses	Barrel	14,557	18,743	19,558	18,562	18,921	19,590

Source: Bureau of Mines, Department of Commerce.

No. 670.—PETROLEUM PRODUCTS: Crude Oil Run to Stills and Output of Refineries; by Regions, 1924

Region	Crude oil run to stills	Natural gas gasoline run to stills	Output of refineries				
			Gasoline	Kerosene	Gas and fuel oil	Lubricants	Wax
	1,000 barrels	*1,000 barrels*	*1,000 gallons*	*1,000 gallons*	*1,000 gallons*	*1,000 gallons*	*1,000 pounds*
Total	643,719	12,671	8,959,080	2,521,109	13,459,969	1,154,927	516,491
East coast	135,202	3,083	1,678,128	577,193	2,856,440	338,686	198,947
Pennsylvania	21,958	327	349,269	146,790	192,289	179,149	80,811
Indiana and Illinois	56,399	967	1,176,188	239,513	734,150	105,574	56,016
Oklahoma and Kansas	79,701	2,383	1,519,857	341,187	1,347,975	93,223	49,456
Texas	125,025	2,736	1,733,333	559,033	2,437,921	279,960	56,845
Louisiana and Arkansas	49,417	438	521,504	259,980	967,421	31,986	40,220
Colorado and Wyoming	26,737	757	639,679	99,295	526,671	19,729	34,113
California	149,280	1,979	1,341,721	298,117	4,397,101	106,618	83

Source: Bureau of Mines, Department of Commerce.

No. 671.—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	48,712	340,328	267,362	103,600	66,452	26,026	53,949
1921	55,260	365,024	287,114	115,950	62,370	25,530	34,400
1922	57,349	382,280	264,344	128,059	64,539	52,720	58,508
1923	64,760	432,065	305,841	131,213	69,234	52,678	62,639
COMPANIES REPORTING OPERATING REVENUES OF OVER $500,000 IN 1923							
Buckeye—Ohio	6,455	18,257	3,519	4,398	2,949	898	1,078
Cumberland—Kentucky and Appalachian Field	1,250	4,639	2,228	1,604	764	664	776
Empire—Kansas, Oklahoma, Texas, and Arkansas	963	10,151		2,427	1,227	1,131	1,253
Eureka—West Virginia and Appalachian	4,719	10,793	1,945	2,445	1,910	221	315
Gulf—Texas	1,930	24,912	1,960	6,502	4,906	1,320	572
Gulf of Oklahoma—Kansas and Oklahoma	1,312	9,229		4,104	1,900	2,088	2,059
Humble—Texas	1,580	18,228	1,954	9,474	4,336	5,020	5,004
Illinois—Illinois, Indiana, Ohio, Wyoming, and Montana	3,546	29,886	621	7,445	4,128	1,653	2,224
Indiana—Indiana	982	5,083	4,262	1,760	635	863	1,067
Magnolia—Oklahoma and Texas	2,851	29,984	219,346	2,674	5,731	1,714	8,111
National—Pennsylvania	3,942	8,214	8,324	1,917	1,573	286	2,073
New York—New York and New Jersey	1,534	6,959	1,565	1,255	843	198	296
Northern—Pennsylvania	606	2,980	2,947	561	315	179	343
Oklahoma—Kansas and Oklahoma	1,236	11,609	2,047	4,310	1,287	2,855	2,831
Ozark—Oklahoma, Missouri, and Illinois	824	11,772		4,215	1,232	2,983	3,042
Prairie—Oklahoma, Kansas, Texas, Missouri, Iowa, Illinois, and Indiana	10,773	79,899	6,580	30,738	12,301	15,149	15,819
Pure Oil—Ohio, Pennsylvania, West Virginia, and Oklahoma	2,347	2,761	106	888	930	[1] 83	[1] 359
Shreveport - Eldorado — Arkansas and Louisiana	148	1,621	2	986	455	475	378
Sinclair—Oklahoma, Kansas, Texas, Missouri, Iowa, Illinois, Indiana, Nebraska, and Wyoming	5,732	39,514	32,439	9,726	7,081	2,645	2,404
South West Pennsylvania—Pennsylvania and Appalachian Field	1,682	4,164	1,338	900	637	195	268
Southern—Pennsylvania and Appalachian Field	1,131	5,971	7,735	985	551	208	547
Standard—Arkansas and Louisiana	[2] 3,036	24,742	30	9,512	3,462	6,049	6,438
Texas—Louisiana, Texas, and Arkansas	1,951	36,606	1,665	10,595	5,756	4,014	3,391
Texas of Oklahoma—Oklahoma	654	7,228	625	1,759	1,165	359	404
Tide-Water—Illinois, Indiana, New Jersey, New York, Ohio, and Pennsylvania	2,111	11,049	48	3,019	1,461	1,454	1,443
Tuscarora—New Jersey and Pennsylvania	597	6,704	45	754	689	[1] 58	310

Source: Interstate Commerce Commission.

[1] Deficit. [2] Report for period Jan. 13 to Dec. 31, 1923.

No. 672.—PETROLEUM: PRICES OF CRUDE AND REFINED PRODUCTS

[NOTE.—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 from tank, gasoline wagon, and fuel oil, and for five grades of lubricating oil]

Yearly average	Crude per barrel	Gasoline per gallon	Kerosene per gallon	Fuel oil per barrel	Lubricating oil per gallon	Month, 1924	Crude per barrel	Gasoline per gallon	Kerosene per gallon	Fuel oil per barrel	Lubricating oil per gallon
	Dolls.	*Cents*	*Cents*	*Dolls.*	*Cents*		*Dolls.*	*Cents*	*Cents*	*Dolls.*	*Cents*
1913	1.14	15.6	7.86	1.06	15.4	January	1.72	15.2	12.9	1.32	21.1
1914	.93	13.0	7.60	.90	15.6	February	2.08	17.7	13.4	1.53	24.0
1915	.75	11.7	7.10	.72	14.9	March	2.16	18.0	13.5	1.46	24.3
1916	1.33	18.9	7.94	1.04	18.3	April	2.21	18.0	13.5	1.35	25.0
1917	1.77	20.6	8.50	1.57	19.5	May	2.19	17.8	13.1	1.20	24.2
1918	2.22	21.7	10.20	2.01	30.9	June	2.13	16.9	13.0	1.25	23.2
1919	2.25	22.2	12.70	1.59	32.2	July	1.89	15.9	12.7	1.24	22.0
1920	3.44	26.5	17.10	2.79	49.0	August	1.67	15.4	12.4	1.22	21.3
1921	1.86	22.3	12.90	1.30	27.6	September	1.57	15.1	12.2	1.30	21.8
1922	1.78	21.7	12.40	1.24	20.4	October	1.47	13.6	12.2	1.33	22.5
1923	1.71	17.5	12.80	1.20	19.4	November	1.50	13.4	12.2	1.36	22.6
1924	1.84	15.9	12.70	1.35	23.0	December	1.52	13.4	12.2	1.51	24.3

No. 673.—STONE: Production by Varieties and Uses

Varieties and uses	Quantities sold, thousands of short tons [1]						Value, 1,000 dollars, 1924
	1919	1920	1921	1922	1923	1924	
Total	65,539	78,527	63,539	80,212	103,327	102,366	159,936
Granite	4,221	4,760	4,752	5,013	7,309	6,800	28,560
Basalt and related rocks	7,411	9,219	8,524	10,033	10,674	11,410	14,600
Sandstone	2,623	3,343	2,640	3,388	4,349	3,880	10,100
Marble	333	432	315	428	563	517	13,307
Limestone	49,760	59,290	45,621	58,929	76,701	(2)	(2)
All other	1,191	1,483	1,685	1,521	3,731	(2)	(2)
Building stone	997	1,266	1,369	1,929	2,067	2,113	32,270
Monumental	399	384	230	248	424	396	15,192
Paving blocks	387	390	453	326	462	375	3,568
Curbing	150	128	184	230	252	294	3,458
Flagging	79	56	65	54	44	60	558
Rubble	601	502	445	632	882	880	1,260
Riprap	1,752	2,211	1,814	2,049	3,186	3,000	2,750
Crushed stone	33,673	40,366	43,203	49,704	62,323	67,400	73,700
Furnace flux (limestone and marble)	21,315	25,090	10,069	18,718	25,602	19,860	15,888
Refractory stone	1,061	1,735	496	902	1,152	988	1,302
Manufacturing industries (limestone and marble)	4,371	4,592	2,883	3,586	4,668	7,000	10,000
Other uses [3]	754	1,806	1,728	1,767	2,264		

Source: Bureau of Mines, Department of Commerce.

[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 1924: Building stone, 27,860,000 cubic feet; monumental stone, 4,740,000 cubic feet; paving blocks, 40,883,000; curbing, 3,794,000 cubic feet, flagging, 809,000 cubic feet; and furnace flux, 17,732,000 long tons.
[2] Not available.
[3] Chiefly agricultural limestone.

No. 674.—SALT: Production, by States and Kinds; Exports and Imports

[Note.—*Production figures represent rates plus that used by producers; they include Porto Rico*]
[All quantity figures in short tons of 2,000 pounds]

Year	Production	Exports	Imports	Year	Production	Exports	Imports
1880	834,548	1,642	509,703	1911	4,365,756	48,873	142,090
1885	985,411	2,108	440,290	1912	4,665,473	62,410	139,813
1890	1,242,779	2,464	257,323	1913	4,815,902	76,289	154,765
1895	1,913,751	3,602	279,576	1914	4,872,656	82,295	130,804
1900	2,921,708	7,511	199,909	1915	5,352,409	80,474	122,326
1901	2,879,333	9,433	201,733	1916	6,362,906	84,065	122,079
1902	3,338,892	5,094	184,764	1917	6,978,177	113,903	64,922
1903	2,655,532	12,750	163,980	1918	7,238,744	136,783	40,290
1904	3,084,200	13,964	166,140	1919	6,882,962	119,416	59,514
1905	3,635,257	34,238	161,159	1920	6,840,029	139,272	137,654
1906	3,944,133	33,988	174,631	1921	4,981,154	109,563	93,095
1907	4,158,578	30,802	148,799	1922	6,792,849	134,989	113,922
1908	4,035,089	26,627	159,643	1923	7,130,713	125,520	88,750
1909	4,215,070	40,153	149,520	1924	6,803,115	144,945	88,938
1910	4,242,792	49,013	137,103				

State or kind	1900	1910	1915	1920	1922	1923	1924
Production, total (sold)	2,921,708	4,242,792	5,352,409	6,840,029	6,792,849	7,130,713	6,803,115
Michigan	1,009,487	1,323,283	1,762,430	2,262,915	2,005,083	2,127,412	1,918,463
New York	1,105,590	[1] 1,629,953	1,570,446	1,903,101	1,960,867	2,065,842	1,972,808
Ohio	199,540	514,339	823,234	1,057,802	1,105,757	1,102,387	1,102,214
Kansas	312,743	393,603	527,123	783,655	759,459	845,103	794,303
California	87,060	131,252	146,784	212,008	257,790	252,465	265,112
Texas	(2)	53,503	62,297	91,103	(2)	(2)	----------
Utah	34,878	34,979	55,279	75,259	81,909	81,449	78,577
West Virginia	34,142	21,788	32,513	29,802	25,188	31,589	37,561
Undistributed	138,268	140,093	372,303	424,384	596,791	624,406	631,077
Kinds:							
Manufactured (evaporated)	1,725,394	1,953,069	2,335,823	2,409,924	2,276,683	2,239,872	2,224,555
In brine	779,949	1,314,492	1,851,199	2,819,916	2,569,042	2,787,239	2,513,853
Rock salt	416,365	975,231	1,165,387	1,610,189	1,947,124	2,103,602	2,064,707
Total value (dollars)	6,944,603	7,900,344	11,747,686	29,894,075	27,464,838	27,795,941	25,838,348

Source: Bureau of Mines, Department of Commerce.

[1] Includes Louisiana.
[2] Included in "Undistributed."

No. 675.—PORTLAND CEMENT: Production, Shipments, Exports, and Imports

[Note.—Imports are "Imports for consumption" and exports the cement that actually leaves the country. Quantities given for imports and exports include all kinds of hydraulic cement, most of it Portland. "Shipments" include exports reported by manufacturers (See Table 676). Export figures shown below are from the Bureau of Foreign and Domestic Commerce and do not include shipments to noncontiguous territories]

State	1900	1910	1915	1920	1921	1922	1923	1924
	Thousands of barrels [1]							
Production, total	8,482	76,550	85,915	100,023	98,842	114,790	137,460	148,859
Alabama		[2] 1,481	(3)	1,132	1,743	2,291	3,497	5,541
California	45	[4] 6,386	4,503	7,098	7,303	8,712	11,002	11,615
Illinois	240	4,459	5,157	5,530	5,588	6,407	7,148	7,035
Iowa		[5] 2,010	4,560	4,849	4,591	4,272	5,732	5,624
Kansas	80	5,656	3,580	4,341	3,781	4,634	6,026	5,894
Michigan	665	3,688	4,765	4,891	5,778	6,244	7,620	9,162
Missouri		4,456	4,627	6,018	4,446	6,171	7,306	7,900
New York	466	3,296	5,044	5,885	5,294	5,923	6,990	7,547
Ohio	534	1,528	1,949	1,780	2,564	2,835	4,189	4,599
Pennsylvania	4,984	26,676	28,649	28,269	27,629	33,276	38,157	40,468
Texas	26	[6] 2,287	1,939	2,562	2,669	3,629	4,179	4,566
Washington		(4)	1,496	1,799	1,679	1,943	2,106	1,845
Other States	1,442	14,627	19,646	25,860	25,778	28,454	33,508	37,093
Shipments	(7)	(7)	86,892	96,312	95,507	117,701	135,912	145,747
Imports	2,387	307	42	525	122	356	1,767	2,024
Exports	100	2,476	2,565	2,986	1,181	1,128	1,062	879
Stocks, end of year	(7)	(7)	11,463	8,833	12,193	9,352	10,900	13,913

Source: Bureau of Mines, Department of Commerce.

[1] Of 376 pounds.
[2] Includes Georgia and Tennessee.
[3] Included in other States.
[4] California includes Washington.
[5] Includes Kentucky and West Virginia.
[6] Includes Oklahoma.
[7] Not available.

No. 676.—PORTLAND CEMENT: Shipments to States (Apparent Consumption)

State	1921	1922	1923
	Thousands of barrels [1]		
Shipped from cement plants	95,507	117,701	135,912
Shipments to States	94,286	116,307	134,703
New England	4,507	5,802	6,179
Maine	400	462	510
New Hampshire	348	365	360
Vermont	209	213	234
Massachusetts	2,164	3,046	3,124
Rhode Island	342	454	510
Connecticut	1,044	1,262	1,441
Middle Atlantic	23,294	28,846	32,563
New York	10,302	13,272	15,881
New Jersey	3,723	5,116	5,401
Pennsylvania	9,269	10,458	11,281
East North Central	26,464	32,114	38,688
Ohio	6,738	7,770	8,844
Indiana	3,307	3,895	5,011
Illinois	6,367	9,668	12,237
Michigan	6,113	6,197	7,532
Wisconsin	3,849	4,584	5,064
West North Central	12,509	14,900	15,510
Minnesota	3,091	3,556	3,415
Iowa	3,118	3,240	3,625
Missouri	2,236	3,018	3,492
North Dakota	250	284	303
South Dakota	472	507	565
Nebraska	1,050	1,606	1,497
Kansas	2,292	2,692	2,613
South Atlantic	8,017	10,394	13,008
Delaware	313	353	405
Maryland	1,394	1,547	1,828
District of Columbia	446	662	757
Virginia	1,322	1,432	1,742
Shipments to States—Con.			
South Atlantic—Contd.			
West Virginia	1,350	1,478	1,817
North Carolina	1,172	2,235	3,108
South Carolina	474	629	627
Georgia	882	1,084	1,425
Florida	664	924	1,300
East South Central	2,821	3,523	4,781
Kentucky	1,011	1,163	1,567
Tennessee	827	930	1,267
Alabama	605	908	1,490
Mississippi	378	423	458
West South Central	5,247	6,320	7,326
Arkansas	605	498	849
Louisiana	682	906	1,029
Oklahoma	1,656	2,023	2,120
Texas	2,304	2,893	3,329
Mountain	2,874	3,288	3,304
Montana	309	265	281
Idaho	245	257	291
Wyoming	286	228	349
Colorado	803	1,093	1,107
New Mexico	189	269	222
Arizona	515	634	486
Utah	443	450	476
Nevada	84	92	93
Pacific	8,481	11,051	13,256
Washington	1,483	1,751	1,926
Oregon	825	944	956
California	6,173	8,356	10,373
Unspecified	73	56	88
Exports reported by manufacturers [2]	1,221	1,394	1,209

Source: Bureau of Mines, Department of Commerce.

[1] Of 376 pounds
[2] Includes shipments to Alaska, Hawaii, and Porto Rico.

No. 677.—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 and prior to 1921 in barrels of 240, 265, and 320 pounds]

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	
1880	2,073	42	2,031	1,853	1911	79,548	78,529	1,019	66,705
1885	4,150	150	4,000	3,493	1912	83,351	82,438	913	67,462
1890	7,777	336	7,441	4,527	1913	92,949	92,097	852	93,001
1895	8,731	990	7,741	5,482	1914	89,050	88,230	820	82,204
1900	17,231	8,482	8,749	13,284	1915	86,708	85,915	794	74,235
1901	20,069	12,711	7,358	15,787	1916	92,363	91,521	842	101,379
1902	25,754	17,231	8,523	25,366	1917	93,454	92,814	639	126,106
1903	29,899	22,343	7,556	31,931	1918	71,515	71,082	433	114,132
1904	31,675	26,506	5,169	26,032	1919	81,307	80,778	529	138,714
1905	40,102	35,247	4,855	35,932	1920	100,791	100,023	767	203,198
1906	51,000	46,463	4,537	55,302	1921	99,381	98,842	539	187,708
1907	52,230	48,785	3,445	55,904	1922	115,679	114,790	889	203,324
1908	52,911	51,073	1,838	44,478	1923	138,732	137,460	1,272	[1] 259,632
1909	66,690	64,991	1,698	53,611	1924	150,277	148,859	1,418	[1] 269,326
1910	77,785	76,550	1,235	68,752					

Source: Bureau of Mines, Department of Commerce.

[1] Value of shipments.

No. 678.—GAS, ILLUMINATING AND HEATING: 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	1921	1923	1914	1921	1923
Materials used, total cost					76,779	202,253	191,120
Coal for gas making	Short ton	6,117			20,873		
Anthracite	Long ton		1,130	974			
Bituminous	Short ton		5,707	6,246			
Oil for gas making	Gallon	715,419	158,365	176,764	24,721		
Oil for enriching	do		683,406	697,470			
Gas purchased	M feet	28,351	44,739	90,611	8,883		
Products, total value					220,238	411,198	450,097
Commercial plants					218,481	405,028	443,503
Municipal plants					1,757	6,168	6,594
Gas, total	M feet	203,639	306,058	356,554	175,066	372,032	394,506
Coal gas	do	10,510	7,329	7,551	10,727	12,519	12,963
Carbureted water gas	do	90,018	110,053	117,317	74,517	138,513	134,744
Mixed coal and water gas	do	86,281	169,847	208,238	72,012	196,104	220,961
Oil gas	do	16,512	17,656	19,739	15,044	23,612	22,980
Other gas	do	318	1,172	3,709	2,766	1,284	2,849
Coke for sale	Ton	2,282	2,031	2,175	8,720	17,503	21,533
Tar for sale:							
Coal gas	Gallon	125,939	60,333	58,877	3,253	3,204	3,039
Water gas and oil gas	do		53,433	49,991		2,192	2,001
All other products					33,199	16,265	20,018

Source: Bureau of the Census, Department of Commerce.

No. 679.—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 680]

Date	Actual	Relative	Date	Actual	Relative	Date	Actual	Relative
Apr. 15, 1913	$0.95	100	Apr. 15, 1918	$0.95	100	Mar. 15, 1923	$1.26	133
Apr. 15, 1914	.94	99	Apr. 15, 1919	1.04	109	Mar. 15, 1924	1.27	134
Apr. 15, 1915	.93	98	Apr. 15, 1920	1.09	115	June 15, 1924	1.27	134
Apr. 15, 1916	.92	97	May 15, 1921	1.32	139	Sept. 15, 1924	1.27	134
Apr. 15, 1917	.92	97	Mar. 15, 1922	1.29	136	Dec. 15, 1924	1.27	134

Source: Bureau of Labor Statistics, Department of Labor.

No. 680.—RETAIL PRICES OF GAS IN PRINCIPAL CITIES

[NOTE.—Net prices for the first 1,000 cubic feet of gas for household use, illuminating, cooking, and heating. Service charges are not included]

City	Apr. 15, 1913	Apr. 15, 1915	Apr. 15, 1916	Apr. 15, 1917	Apr. 15, 1918	Apr. 15, 1919	Apr. 15, 1920	May 15, 1921	Mar. 15, 1922	Dec. 15, 1922	Dec. 15, 1923	Dec. 15, 1924
MANUFACTURED GAS												
Atlanta	$1.00	$1.00	$1.00	$1.00	$1.00	$1.15	$1.15	$1.90	$1.65	$1.65	$1.55	$1.55
Baltimore	.90	.80	.75	.75	.75	.75	.75	.75	.92	.92	.85	.85
Birmingham	1.00	.95	.95	.95	.95	.95	.95	.88	.88	.80	.80	.80
Boston	.82	.80	.80	.80	.85	1.02	1.07	1.42	1.34	1.30	1.25	1.20
Bridgeport	1.00	1.00	1.00	1.00	1.00	1.10	1.10	[1] 1.30	1.60	1.50	1.50	1.45
Buffalo	1.00	1.00	1.00	1.00	1.00	1.45	1.45	1.45	1.45	------	------	------
Butte	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.10	2.10	2.10	2.10	2.10
Charleston	1.10	1.10	1.10	1.00	1.10	1.10	1.25	1.55	1.55	1.55	1.55	1.55
Chicago	.80	.80	.80	.80	.76	.94	.90	1.29	1.20	1.20	1.17	1.17
Cleveland	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	1.25	1.25
Denver	.85	.80	.80	.80	.85	.95	.95	.95	.95	.95	.95	.95
Detroit	.75	.75	.75	.75	.75	.79	.79	.85	.79	.79	.79	[2] .79
Fall River	.80	.80	.80	.80	.95	.95	1.05	1.25	1.15	1.15	1.15	1.15
Houston	1.00	1.00	1.00	1.00	1.00	1.00	1.09	1.09	1.09	1.09	1.09	1.09
Indianapolis	.60	.55	.55	.55	.55	.60	.60	.90	.90	[3] 1.20	[3] 1.15	[3] 1.10
Jacksonville	1.20	1.15	1.15	1.15	1.25	1.25	1.50	1.75	1.75	1.65	2.40	2.40
Manchester	1.10	1.00	1.00	1.00	1.00	1.10	1.10	[4] 1.50	[4] 1.40	[4] 1.40	[4] 1.40	[4] 1.30
Memphis	1.00	1.00	1.00	1.00	1.00	1.00	[1] 1.10	1.35	1.35	1.20	1.20	1.20
Milwaukee	.75	.75	.75	.75	.75	.75	.75	.90	.90	.98	.95	.95
Minneapolis	.85	.80	.77	.77	.77	.95	.95	1.28	1.02	.99	1.01	.98
Mobile	1.10	1.10	1.10	1.10	1.10	1.35	1.35	1.80	1.80	1.80	1.80	1.80
Newark	1.00	.90	.90	.90	.97	.97	1.15	1.40	1.40	1.25	1.25	1.20
New Haven	.90	.90	.90	.90	1.00	1.10	1.10	[1] 1.10	[1] 1.10	1.45	1.45	1.45
New Orleans	1.10	1.00	1.00	1.00	1.00	1.30	1.30	1.30	1.45	1.30	1.30	1.30
New York	.84	.83	.83	.83	.83	.85	.87	[5] 1.36	[6] 1.28	[6] 1.21	1.23	1.23
Norfolk	1.00	1.00	1.00	1.00	1.20	1.20	1.60	1.40	1.45	1.35	1.30	1.40
Omaha	1.15	1.15	1.00	1.00	1.15	1.15	1.15	1.53	1.40	1.35	1.30	1.35
Peoria	.90	.90	.90	.85	.85	.85	.85	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
Pittsburgh	1.00	1.00	1.00	1.00	1.00	1.00	(7)	(7)	(7)	(7)	(7)	(7)
Portland, Me	1.10	1.00	1.00	1.00	1.00	1.40	1.40	1.85	1.75	1.55	1.55	1.55
Portland, Oreg	.95	.95	.95	.95	.95	.95	.95	1.67	1.50	1.43	1.43	1.43
Providence	.85	.85	.85	.85	1.00	1.30	1.30	[1] 1.25	[1] 1.25	[1] 1.15	[1] 1.05	[1] 1.05
Richmond	.90	.90	.80	.80	.80	1.00	1.00	1.30	1.30	1.30	1.30	1.30
Rochester	.95	.95	.95	.95	.95	.95	.95	[8] 1.05	1.10	1.05	1.00	1.00
St. Louis	.80	.80	.80	.75	.75	.75	.85	1.05	1.05	1.05	1.00	1.00
St. Paul	.95	.90	.85	.85	.85	.85	.85	1.00	1.00	1.00	.85	.85
Salt Lake City	.90	.90	.90	.90	.90	1.10	[4] 1.30	[4] 1.52	[4] 1.52	[4] 1.52	[4] 1.52	[4] 1.52
San Francisco	.75	.85	.85	.85	.85	.95	.95	1.05	1.04	.92	.92	1.00
Savannah	------	------	------	------	------	------	1.25	1.60	1.60	1.45	1.45	1.45
Scranton	.95	.95	.95	.95	1.15	1.30	1.30	1.70	1.70	1.60	1.60	1.50
Seattle	1.00	1.00	1.00	1.00	1.25	1.25	1.55	1.55	1.55	1.55	1.55	1.55
Springfield, Ill	1.00	1.00	1.00	1.00	1.00	1.10	1.10	1.40	1.40	1.40	1.35	1.35
Washington, D. C	.93	.93	.93	.80	.90	.95	.95	1.25	1.10	1.05	1.00	1.00
NATURAL GAS												
Buffalo	.30	.30	.30	.30	.30	.35	.35	.35	.42	------	------	------
Cincinnati	.30	.30	.30	.30	.35	.35	.35	.35	.50	.50	.50	.50
Cleveland	.30	.30	.30	.30	.30	.35	.35	.35	.40	.40	[1] .45	[1] .45
Columbus	------	------	------	.30	.30	.30	.30	.30	.45	.45	.45	.45
Dallas	.45	.45	.45	.45	.45	.45	.45	.68	.68	.68	.68	.68
Kansas City, Mo	.27	.27	.27	.30	.60	.80	.80	[1] .80	[1] .80	[1] .85	[1] .85	1.20
Little Rock	.40	.40	.40	.40	.40	.45	.45	.45	.45	.45	[1] .55	[1] .55
Louisville	------	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65
Pittsburgh	.28	.28	.28	.28	.28	.35	.35	.45	.50	.50	.53	[9] .60
MIXED GAS												
Los Angeles	------	.68	.68	.68	.68	.75	.75	.75	.76	.69	.68	.68
Buffalo	------	------	------	------	------	------	------	------	------	[10] .62	[10] .61	.60

Source: Bureau of Labor Statistics, Department of Labor.

[1] Plus 50 cents per month service charge.
[2] Plus 10 cents per month service charge. Minimum bill, $1 to those using 1,200 cubic feet or less per month.
[3] The rate was increased from 90 cents by order of the Federal court and is subject to final decision by the same court. Pending the decision this increase has been impounded.
[4] Plus 25 cents per month service charge.
[5] The prices of two companies included in this average have an additional service charge of 2½ cents per day.
[6] The price of one company included in this average has an additional service charge of 2½ cents per day.
[7] Sale of manufactured gas discontinued.
[8] Plus 40 cents per month service charge.
[9] Minimum bill, $1.
[10] Price includes a coal charge.

No. 681.—CLAY AND GLASS PRODUCTS: PRODUCTION

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1921	1923	1914	1921	1923
BRICK, TILE, AND TERRA-COTTA, FIRE-CLAY, AND OTHER CLAY PRODUCTS, AND NONCLAY REFRACTORIES [1]							
All products, total value					129,583	195,600	333,88
Brick:							
Common	Number	7,145,809	4,447,987	7,282,181	43,764	57,096	94,473
Vitrified	do	931,324	561,946	699,209	12,501	12,870	15,570
Face	do	810,395	873,346	1,931,175	9,290	18,128	38,892
Enameled	do	(2)	12,712	19,502	(2)	1,204	1,671
Drain tile	Tons	(2)	976	616	8,522	8,368	5,100
Sewer pipe	do	(2)	1,356	1,778	14,015	22,155	29,103
Architectural terra-cotta	do	(2)	68	138	6,088	9,069	16,486
Hollow building tile or block	do	(2)	2,018	3,765	8,385	14,841	28,275
Tile (not drain):							
Roofing	Sq. ft	(2)	132	231		2,314	4,022
Floor (including plain, vitreous, encaustic, quarry, etc.).	do	(2)	7,794	13,320		2,383	3,051
Ceramic mosaic (vitreous and semivitreous).	do	(2)	10,572	20,976	5,705	2,568	4,986
Faience (including art, enameled, and hand decorated).	do	(2)	1,045	1,865		902	1,580
Wall (thin, white glazed, etc.)	do	(2)	10,946	26,301		4,393	10,166
Stove lining	Tons	(2)	(2)	55	521	800	1,219
Fire brick [3]	Number	816,784	621,009	1,134,223	16,428	24,833	46,677
All other clay products					4,364	4,666	8,111
Silica brick	Number	(2)	104,990	258,388	(2)	5,221	12,855
All other products						3,789	11,647
POTTERY [1]							
All products, total value					35,398	84,693	114,951
Red earthenware (flower pots, etc.).		(2)	(2)	(2)	1,060	2,030	2,458
Stoneware (except chemical) and yellow and Rockingham ware.		(2)	(2)	(2)	3,349	4,921	4,746
White ware, cream color, white granite, semiporcelain, and semivitreous porcelain.		(2)	(2)	(2)	14,968	29,744	39,406
Porcelain china, bone china, delft, and Belleek ware.		(2)	(2)	(2)	2,385	4,262	1,213
Hotel china					(4)	7,888	9,761
Sanitary ware, bathtubs, washtubs, etc. [5]		(2)	(2)	(2)	7,874	15,303	28,049
Porcelain electrical supplies [5]		(2)	(2)	(2)	4,130	14,331	21,248
Saggers		(2)	(2)	(2)	(4)	1,927	1,870
All other products					1,632	4,287	6,200
GLASS [6]							
All products, total value					123,085	213,471	309,353
Building glass					36,824	68,951	121,759
Window glass	Sq. ft	400,999	260,065	510,215	17,496	24,026	42,623
Obscured glass, including cathedral and sky light.	do	43,040	20,902	46,376	2,417	2,547	5,114
Plate glass, total cast	do	75,770	79,966				
Polished	do	60,384	56,239	94,470	14,774	37,201	66,103
Rough, for sale as such	do	132	712	2,806	26	107	501
Wire glass—							
Polished	do	1,708	2,211	2,805	534	1,209	1,651
Rough, for sale as such	do	13,981	13,949	28,802	1,057	2,108	3,882
All other building glass					520	1,694	1,885
Pressed and blown glass [7]					30,279	55,718	77,279
Bottles and jars [8]					51,959	86,744	107,231
All other products					4,023	3,058	3,084

Source: Bureau of the Census, Department of Commerce.

[1] From reports of Bureau of Mines, Department of Commerce.

[2] No data.

[3] Clay brick, including refractory block or tile, boiler and locomotive tile, tank blocks, and other refractory clay products—9-inch equivalent.

[4] Not reported separately.

[5] Not including fittings.

[6] In addition considerable quantities of electric light shades, globes, etc., were made in 1914 by establishments engaged primarily in the manufacture of electrical goods.

[7] Including jelly glasses, tumblers, and goblets, but not including bottles, etc.

[8] Including demijohns and carboys.

No. 682.—ACCIDENTS IN INDIVIDUAL MINERAL INDUSTRIES IN 1923

Branch of mineral industry	Average days active	Number employed		Days of labor performed	Number killed	Number injured	Number per thousand 300-day workers	
		Actual number	Equivalent in 300-day workers (calculated)				Killed	Injured
Coal mines [1]	195	360, 560	560, 000	167, 999, 932	2, 458	--------	4. 39	--------
All metal mines	297	123, 279	121, 866	36, 559, 805	367	33, 563	3. 01	275. 41
Copper mines	317	32, 477	34, 355	10, 306, 466	107	11, 993	3. 11	349. 09
Gold and miscellaneous metal mines	285	30, 525	29, 016	8, 704, 653	114	8, 672	3. 93	298. 87
Iron mines	292	38, 419	37, 382	11, 214, 624	89	5, 616	2. 38	150. 23
Lead and zinc mines (Mississippi Valley)	290	10, 226	9, 874	2, 962, 289	27	4, 894	2. 73	495. 65
Nonmetallic mineral mines	290	11, 632	11, 239	3, 371, 773	30	2, 388	2. 67	212. 47
All quarries (including outside works)	276	92, 455	85, 153	25, 545, 859	143	14, 990	1. 68	176. 04
Cement-rock quarries	336	13, 378	14, 969	4, 490, 722	25	3, 199	1. 67	213. 71
Granite quarries	256	11, 658	9, 950	2, 984, 842	9	1, 771	. 90	177. 99
Limestone quarries	271	46, 325	41, 818	12, 545, 402	78	7, 080	1. 87	169. 30
Marble quarries	287	5, 351	5, 122	1, 536, 552	3	655	. 59	127. 88
Sandstone and bluestone quarries	252	4, 972	4, 170	1, 251, 039	2	498	. 48	119. 42
Slate quarries	260	4, 329	3, 749	1, 124, 757	8	559	2. 13	149. 11
Traprock quarries	250	6, 442	5, 375	1, 612, 545	18	1, 228	3. 35	228. 47
All quarries (excluding outside works)	263	57, 188	50, 226	15, 067, 691	99	8, 946	1. 97	178. 11
All quarries (outside works only)	297	35, 267	34, 927	10, 478, 168	44	6, 044	1. 26	173. 05
Metallurgical plants:								
Ore-dressing plants	300	15, 446	15, 442	4, 632, 749	24	2, 601	1. 55	168. 44
Smelters	357	22, 439	26, 677	8, 003, 175	17	3, 487	. 64	130. 71
Auxiliary works	327	16, 533	18, 040	5, 411, 850	17	2, 388	. 94	132. 37
All coke ovens	324	23, 729	25, 627	7, 688, 160	45	2, 593	1. 76	101. 18
Beehive coke ovens	252	8, 515	7, 144	2, 143, 363	12	875	1. 68	122. 48
By-product coke ovens	364	15, 214	18, 483	5, 544, 797	33	1, 718	1. 79	92. 95
Total, 1923	222	1, 154, 441	852, 805	255, 841, 530	3, 571	59, 622	3. 80	203. 62
Total, 1922	174	1, 092, 863	635, 299	190, 580, 710	2, 529	46, 307	3. 98	201. 12

Source: Bureau of Mines, Department of Commerce.

[1] Injuries for coal mines not available.

No. 683.—ACCIDENTS IN MINERAL INDUSTRIES: BY CAUSES

Class of plants and cause	1915	1919	1920	1921	1922	1923	1924
Coal-mine fatalities	2,269	2,317	2,271	1,987	1,979	2,458	2,381
Falls of roof (coal, rock, etc.)	919	946	1,004	924	785	1,051	931
Falls of face or pillar coal	160	154	128	100	120	111	121
Mine cars and locomotives	409	452	462	366	373	450	398
Explosions of gas or coal dust	304	191	164	116	311	372	536
Explosives [1]	155	206	128	152	92	114	100
Suffocation from mine gases	16	11	18	9	9	10	13
Electricity (shock or burns)	99	79	93	97	83	83	97
Mining machines and machinery	38	48	62	34	40	49	36
Mine fires (burned, suffocated, etc.)	1	22	8	9	------	------	2
Shaft fatalities	40	53	56	36	41	46	29
Boiler and steam-pipe explosions	6	6	4	1	3	------	------
Railway cars and locomotives	14	22	24	20	22	24	20
Other causes	108	127	120	123	100	148	98
Metal-mine fatalities	558	468	426	239	344	367	(2)
Falls or slides of rock or ore	203	180	142	72	105	111	------
Rock or ore (underground loading)	10	4	9	2	3	2	------
Explosives	78	48	57	23	30	42	------
Haulage	48	47	51	21	37	62	------
Falls of persons	88	75	45	40	48	50	------
Run or fall of ore (chute, pocket, or bins)	12	12	7	6	7	6	------
Machinery, other than locomotives	10	12	18	6	11	11	------
Electricity	14	16	18	4	7	12	------
Mine fires and suffocation from natural gases	3	8	7	5	48	7	------
Shaft fatalities, other than falls of persons	43	47	32	24	28	31	------
Other causes	44	19	39	26	20	33	------
Quarry fatalities	148	128	179	120	132	143	(2)
Falls or slides of rock or overburden	45	15	33	20	25	31	------
Handling rock at face	5	2	3	4	2	4	------
Explosives	28	24	36	17	36	12	------
Haulage	18	23	42	17	15	28	------
Falls of persons	17	8	13	11	7	16	------
Electricity	3	5	7	9	6	1	------
Machinery	13	19	19	18	24	21	------
Drilling and channeling	1	1	2	1	1	------	------
Other causes	18	21	23	23	16	30	------

	Killed				Injured			
	1915	1921	1922	1923	1915	1921	1922	1923
Smelting plants	38	14	16	17	5,718	2,129	3,002	3,487
Haulage system (cars, motors, etc.)	10	2	2	2	529	121	206	230
Railway cars and locomotives	2	------	1	1	61	28	53	102
Cranes	2	------	------	------	68	32	40	40
Other machinery	5	2	1	2	290	96	121	124
Falls of persons	3	2	5	3	499	146	227	243
Flying or falling objects (rocks, timbers, etc.)	1	1	1	1	914	287	459	541
Electricity	4	------	1	------	46	6	13	24
Burns from matte, slag, or molten metal	3	1	2	1	894	401	568	691
Hot-metal explosions	1	------	------	3	160	55	62	128
Other causes	7	6	3	4	2,267	957	1,253	1,358
Ore-dressing plants	30	4	12	24	2,095	1,214	1,984	2,601
Haulage system (cars, motors, etc.)	3	1	------	2	106	53	116	155
Railway cars and locomotives	2	------	------	3	17	17	54	93
Crushers, rolls, or stamps	5	1	------	------	129	70	90	186
Other machinery	7	2	5	5	209	130	223	343
Falls of persons	6	------	1	5	249	132	197	266
Suffocation in ore bins	3	------	2	2	3	5	5	38
Flying or falling objects (rocks, timbers, etc.)	------	------	------	------	268	172	379	372
Electricity	3	------	1	1	38	24	37	26
Other causes	1	------	3	6	986	611	883	1,122
Coke ovens	38	17	29	45	2,852	1,853	1,710	2,583
Cars, lorries and motors	10	3	8	15	123	123	146	231
Railway cars and locomotives	4	1	4	2	139	28	20	34
Coke-drawing machines	2	4	1	1	96	33	70	96
Electricity	1	1	1	2	16	21	25	32
Falls of persons	4	4	5	6	387	204	247	405
Hand tools	------	------	------	1	322	182	149	247
Suffocation from gases	2	------	------	2	17	8	8	23
Burns	7	------	3	8	349	226	240	375
Falling objects	(3)	1	2	3	(3)	229	225	321
Other causes	8	3	5	5	1,403	799	580	829

Source: Bureau of Mines, Department of Commerce.

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

[2] Not available.

[3] Not segregated.

No. 684.—ACCIDENTS IN MINERAL INDUSTRIES: By Groups of Industries

Year	Number employed		Killed	Injured					
				Total non-fatal	Temporary			Permanent	
	Actual number	Equivalent in 300-day workers			Total	1 to 14 days	More than 14 days	Partial[1] disability	Total[2] disability
All metal mines:									
1915	152,118	141,997	553	35,295	34,686	27,444	7,242	574	35
1919	145,262	134,871	468	31,506	31,178	23,330	7,848	321	7
1920	136,583	134,540	425	32,562	32,205	24,311	7,894	345	12
1921	93,929	74,510	230	18,604	18,424	13,607	4,817	173	7
1922	105,697	97,138	344	26,080	25,840	19,330	6,510	231	9
1923	123,279	121,866	367	33,563	33,129	24,598	8,531	414	20
All quarries:									
1915	100,740	82,447	148	9,671	9,148	7,783	1,365	507	16
1919	75,505	63,794	123	9,199	8,951	7,339	1,612	225	23
1920	86,488	77,089	178	10,217	10,880	8,987	1,893	327	10
1921	77,185	59,958	120	10,465	10,126	8,230	1,896	330	9
1922	79,081	68,861	132	11,839	11,442	9,300	2,142	377	20
1923	92,455	85,153	143	14,990	14,547	11,980	2,567	431	12
Metallurgical plants:									
1916	80,201	88,596	83	15,080	14,863	11,420	3,443	200	17
1919	61,120	64,358	64	8,126	8,053	6,184	1,869	71	2
1920	59,232	65,587	61	8,863	8,714	6,724	1,990	147	2
1921	33,430	30,549	27	4,494	4,456	3,431	1,025	38	------
1922	44,000	46,008	45	6,678	6,600	4,975	1,625	76	2
1923	54,418	60,159	58	8,476	8,312	6,057	2,255	163	1
All coke ovens:									
1916	31,603	34,119	45	5,237	5,154	4,468	686	81	2
1919	28,741	27,674	53	4,031	3,908	3,118	790	121	2
1920	28,139	29,921	49	3,415	3,336	2,614	722	76	3
1921	16,204	13,868	17	1,853	1,829	1,511	318	24	------
1922	19,278	18,236	29	1,710	1,674	1,287	387	36	1
1923	23,729	25,627	45	2,593	2,517	1,892	625	71	5

Year	Number employed		Killed	Year	Number employed		Killed
	Actual number	Equivalent in 300-day workers			Actual number	Equivalent in 300-day workers	
Coal mines:				Coal mines—Con.			
1911	728,348	534,122	2,656	1921	823,253	474,743	1,987
1915	734,008	511,598	2,269	1922	844,807	405,507	1,979
1916	720,971	565,766	2,226	1923	860,560	560,000	2,458
1919	776,569	542,217	2,317	1924[3]	----------	495,000	2,381
1920	784,602	601,067	2,271				

Source: Bureau of Mines, Department of Commerce.

[1] Includes loss of one foot, leg, hand, eye, one or more fingers or toes, any dislocation where ligaments are severed, or any other injury known in surgery to be permanent partial disability.

[2] Permanent total disability: Loss of both legs or arms, one leg and one arm, total loss of eyesight, paralysis, or other condition permanently incapacitating workman from doing any work of a gainful occupation.

[3] Preliminary.