26. Forests and Forest Products

The Bureau of the Census, Department of Commerce, and the Forest Service, Department of Agriculture, are the principal Government agencies engaged in the collection and publication of statistics of forest land, forest industries, and forest products. The Forest Service, through its forest survey activities, is making an inventory of the forest resource and is measuring rates of forest growth and drain. A number of reports for surveyed areas have been published. A report based on a reappraisal of the Nation's forest situation made during 1945 and 1946 was published in 1948. Statistics from this report are shown in tables 791–794. Other publications of the Forest Service include data on stumpage and log prices, lumber consumption and distribution, lumber used in manufacture, and fire statistics. The *Statistical Supplement to the Annual Report of the Chief of the Forest Service* carries statistics of the administration of the national forests.

The Bureau of the Census, Department of Commerce, publishes information on forest industries and products in reports of the Census of Manufactures, in addition to annual reports of the Census of Forest Products. The Bureau of the Census also publishes statistics of foreign trade in forest products. Information on the domestic movement of forest products is reported by the Interstate Commerce Commission and the Association of American Railways.

The Bureau of Agricultural and Industrial Chemistry of the Department of Agriculture publishes annual reports of the production of naval stores.

The Bureau of Labor Statistics of the Department of Labor publishes statistics of wholesale lumber prices monthly and annually.

The Timber Products and Pulp and Paper series of the Industry Reports, published by the Bureau of Foreign and Domestic Commerce in cooperation with other government agencies, carry forest products statistics which have been developed to meet current needs for information.

A number of forest products trade associations and trade journals collect and publish statistics of forest products, production, markets, shipments, inventories, etc.

The completeness and reliability of published statistics of forests and forest products vary considerably. The data for forest land area and stand are, of course, much more reliable for areas which have been surveyed than for those areas which have not been covered. Forest fire statistics for federal lands are considered much better than for private lands, though too much reliance should not be placed in any estimates of fire damage or causes of fires.

In the field of forest products, data for lumber production and other manufactured products such as veneer and plywood, pulp and paper, cooperage, naval stores, etc., are much more complete than for the primary forest products such as poles and piling, fuelwood, and fence posts. As explained in the headnotes to the following tables, however, the data for lumber production are subject to certain limitations because of incomplete coverage. Information for pulp and paper, and plywood, on the other hand, are believed to be practically complete. Statistics relating to average value of lumber sawed may be subject to some special limitations due to under representation of small mills.

Historical statistics.—In this section, tabular headnotes (as "See also *Historical Statistics*, series F 145–150") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789–1945*. In that historical supplement to the *Statistical Abstract*, statistics are carried back year by year as far as possible. See also the historical appendix of the present issue of the *Abstract* for specific titles of series and the earliest year shown in the supplement.

No. 791.—Forest Land Area and Ownership of Commercial Forest Land, by States

[In thousands of acres. Status beginning of 1945]

Region and state	Total forest land	Commercial forest land[1]: All ownerships	Federally owned or managed: Total	Federally owned or managed: National	Federally owned or managed: Other	State, county, and municipal	Private: Total	Private: Farm	Private: Industrial and other
Total	623,828	461,044	88,957	73,512	15,445	27,114	344,973	139,058	205,915
North	211,753	170,321	11,311	9,523	1,788	19,414	139,596	61,010	78,586
New England	31,092	30,851	891	822	69	666	29,294	6,477	22,817
Connecticut	1,907	1,900				155	1,745	711	1,034
Maine	16,788	16,665	74	47	27	50	16,541	2,173	14,368
Massachusetts	3,310	3,297	24	1	23	271	3,002	906	2,096
New Hampshire	4,800	4,722	621	613	8	79	4,022	1,086	2,936
Rhode Island	452	447				27	420	107	313
Vermont	3,835	3,820	172	161	11	84	3,564	1,494	2,070
Middle Atlantic	44,214	41,586	1,476	1,265	211	3,613	36,497	11,854	24,643
Delaware	442	442	2		2	7	433	228	205
Maryland	2,742	2,722	44	3	41	149	2,529	1,198	1,331
New Jersey	2,348	2,329	53		53	96	2,180	424	1,756
New York	13,500	11,114	75		75	732	10,307	3,651	6,656
Pennsylvania	15,228	15,127	470	442	28	2,514	12,143	3,369	8,774
West Virginia	9,954	9,852	832	820	12	115	8,905	2,984	5,921
Lake	55,700	50,345	6,495	5,455	1,040	14,805	29,045	13,930	15,115
Michigan	19,000	17,380	2,155	2,035	120	4,115	11,110	3,260	7,850
Minnesota	19,700	16,700	2,670	2,170	500	7,100	6,930	4,330	2,600
Wisconsin	17,000	16,265	1,670	1,250	420	3,590	11,005	6,340	4,665
Central	44,919	44,213	2,117	1,951	166	326	41,770	25,789	15,981
Illinois	3,396	3,319	192	175	17	10	3,117	3,092	25
Indiana	3,445	3,358	104	79	25	76	3,178	3,139	39
Iowa	2,248	2,226	16	5	11	19	2,191	2,186	5
Kentucky	11,857	11,694	534	427	107	35	11,125	5,421	5,704
Missouri	19,142	18,837	1,199	1,193	6	78	17,560	8,839	8,721
Ohio	4,831	4,779	72	72		108	4,599	3,112	1,487
Plains	35,828	3,326	332	30	302	4	2,990	2,960	30
Kansas	1,121	1,011					1,011	1,011	
Nebraska	1,112	987	39	15	24		948	948	
North Dakota	621	470	55		55	1	414	414	
Oklahoma (West)[2]	6,326								
South Dakota (East)[3]	662	618	215	15	200	3	400	400	
Texas (West)[2]	25,986	240	23		23		217	187	30
South	186,804	183,266	14,078	10,138	3,940	2,160	167,028	69,060	97,968
South Atlantic	43,843	42,923	3,485	2,775	710	536	38,902	23,377	15,525
North Carolina	18,400	17,997	1,312	960	352	242	16,443	10,072	6,371
South Carolina	10,611	10,549	720	549	171	187	9,642	5,684	3,958
Virginia	14,832	14,377	1,453	1,266	187	107	12,817	7,621	5,196
Southeast	91,842	89,390	5,909	3,802	2,107	1,216	82,265	33,134	49,131
Alabama	18,878	18,800	886	613	273	121	17,793	7,259	10,534
Florida	23,478	21,765	1,713	1,009	704	326	19,726	3,996	15,730
Georgia	21,432	21,107	1,202	646	556	72	19,833	10,362	9,471
Mississippi	15,889	15,868	1,307	979	328	410	14,151	6,323	7,828
Tennessee	12,165	11,850	801	555	246	287	10,762	5,194	5,568
West Gulf	51,119	50,953	4,684	3,561	1,123	408	45,861	12,549	33,312
Arkansas	20,036	19,928	2,645	2,214	431	104	17,179	6,142	11,037
Louisiana	16,196	16,169	747	536	211	265	15,157	2,969	12,188
Oklahoma (East)[2]	4,320	4,308	619	163	456	23	3,666	812	2,854
Texas (East)[2]	10,567	10,548	673	648	25	16	9,859	2,626	7,233
West	225,271	107,457	63,568	53,851	9,717	5,540	38,349	8,988	29,361
Pacific Northwest	53,855	46,204	23,012	17,341	5,671	3,435	19,757	3,334	16,423
Oregon	29,755	26,330	15,251	11,530	3,721	1,101	9,978	1,537	8,441
Washington	24,100	19,874	7,761	5,811	1,950	2,334	9,779	1,797	7,982
California	45,515	16,405	8,099	7,684	415	23	8,283	1,309	6,974
North Rocky Mountain	53,246	29,066	20,012	18,061	1,951	1,702	7,352	2,847	4,505
Idaho	18,813	10,149	6,436	5,838	598	925	2,788	841	1,947
Montana	24,238	14,758	10,122	9,118	1,004	699	3,937	1,614	2,323
South Dakota (West)[3]	1,317	1,147	920	918	2	4	223	144	79
Wyoming	8,878	3,012	2,534	2,187	347	74	404	248	156
South Rocky Mountain	72,655	15,782	12,445	10,765	1,680	380	2,957	1,498	1,459
Arizona	19,538	2,815	2,744	2,058	686	30	41	36	5
Colorado	19,902	7,874	5,923	5,387	536	152	1,799	650	1,149
Nevada	4,720	98	24	24			74	13	61
New Mexico	20,001	3,465	2,405	2,020	385	149	911	693	218
Utah	8,494	1,530	1,349	1,276	73	49	132	106	26

[1] Includes land capable of producing timber of commercial quantity and quality, and available now or prospectively, for commercial use.

[2] Western and central portions of Oklahoma and Texas included in the Plains region; eastern portions included in the West Gulf region.

[3] Eastern and central portions of South Dakota included in the Plains; southwestern portion (Black Hills) included in the North Rocky Mountain region.

Source: Department of Agriculture, Forest Service; A Reappraisal of the Forest Situation.

No. 792.—Saw Timber and Growth on Commercial Forest Land, by States

[In millions of board feet. Status beginning of 1945. Includes volume on land capable of producing timber of commercial quantity and quality and available now or prospectively for commercial use. Includes trees large enough for sawlogs regardless of actual use, in accordance with practice of region. Volumes on lumber-tally basis]

Region and state	Volume of saw timber						Saw-timber growth		
	Total	Softwood	Hardwood	On saw-timber areas: On virgin areas	On saw-timber areas: On second-growth areas	On other than saw-timber areas	Total	Softwood	Hardwood
Total	1,600,972	1,296,377	304,595	840,340	660,719	99,913	35,301	21,848	13,453
North	220,429	65,836	154,593	21,642	159,386	39,401	8,355	2,000	6,355
New England	58,197	33,263	24,934	726	48,605	8,866	1,799	910	889
Connecticut	1,642	258	1,384	--------	1,111	531	107	14	93
Maine	36,787	24,279	12,508	525	31,912	4,350	760	491	269
Massachusetts	4,670	1,946	2,724	15	3,867	788	242	96	146
New Hampshire	7,610	3,424	4,186	88	5,739	1,783	389	174	215
Rhode Island	153	22	131	--------	69	84	9	1	8
Vermont	7,335	3,334	4,001	98	5,907	1,330	292	134	158
Middle Atlantic	62,045	14,017	48,028	1,197	47,459	13,389	2,712	597	2,115
Delaware	1,133	519	664	25	1,029	129	62	27	35
Maryland	4,030	1,779	2,251	37	3,053	940	202	105	97
New Jersey	2,188	783	1,405	25	1,362	801	103	37	66
New York	25,279	6,926	18,353	329	21,088	3,862	785	191	594
Pennsylvania	20,582	3,087	17,495	162	13,406	7,014	1,111	193	918
West Virginia	8,783	923	7,860	619	7,521	643	449	44	405
Lake	50,710	15,670	35,040	17,390	23,280	10,040	1,403	346	1,057
Michigan	24,140	7,400	16,740	13,550	7,500	3,090	519	96	423
Minnesota	11,590	4,940	6,650	2,020	5,560	4,010	420	176	244
Wisconsin	14,980	3,330	11,650	1,820	10,220	2,940	464	74	390
Central	43,747	2,418	41,329	1,249	36,616	5,882	2,248	128	2,120
Illinois	3,717	22	3,695	71	3,092	554	208	1	207
Indiana	6,175	6	6,169	--------	5,773	402	298	2	296
Iowa	5,344	43	5,301	--------	4,842	502	295	2	293
Kentucky	12,392	1,611	10,781	797	10,356	1,239	638	83	555
Missouri	6,984	663	6,321	381	3,849	2,754	388	37	351
Ohio	9,135	73	9,062	--------	8,704	431	421	3	418
Plains	5,730	468	5,262	1,080	3,426	1,224	193	19	174
Kansas	2,880	--------	2,880	600	1,800	480	82	--------	82
Nebraska	1,500	300	1,200	360	660	480	58	10	48
North Dakota	434	20	414	--------	344	90	16	1	15
Oklahoma (West)[1]	--------	--------	--------	--------	--------	--------	--------	--------	--------
South Dakota (East)[2]	720	96	624	120	480	120	26	4	22
Texas (West)[1]	196	52	144	--------	142	54	11	4	7
South	337,987	193,790	144,197	11,617	305,833	20,537	19,938	12,919	7,019
South Atlantic	97,141	59,326	37,815	--------	90,205	6,936	6,106	4,016	2,090
North Carolina	42,241	27,962	14,279	--------	40,109	2,132	2,589	1,835	754
South Carolina	29,580	19,362	10,218	--------	28,452	1,128	1,733	1,234	499
Virginia	25,320	12,002	13,318	--------	21,644	3,676	1,784	947	837
Southeast	135,887	76,992	58,895	4,674	121,473	9,740	8,224	5,284	2,940
Alabama	33,361	20,681	12,680	694	30,482	2,185	2,021	1,392	629
Florida	17,308	12,862	4,446	844	14,410	2,054	989	767	222
Georgia	40,543	28,941	11,602	2,005	36,121	2,417	2,501	1,995	506
Mississippi	30,453	11,592	18,861	1,131	27,206	2,116	1,866	904	962
Tennessee	14,222	2,916	11,306	--------	13,254	968	847	226	621
West Gulf	104,959	57,472	47,487	6,943	94,155	3,861	5,608	3,619	1,989
Arkansas	37,528	22,315	15,213	2,080	33,940	1,508	1,929	1,186	743
Louisiana	36,895	13,930	22,965	2,492	33,184	1,219	1,893	970	923
Oklahoma (East)[1]	3,048	2,044	1,004	234	2,497	317	137	95	42
Texas (East)[1]	27,488	19,183	8,305	2,137	24,534	817	1,649	1,368	281
West	1,042,556	1,036,751	5,805	807,081	195,500	39,975	7,008	6,929	79
Pacific Northwest	630,894	626,941	3,953	513,149	111,706	6,039	4,224	4,152	72
Oregon	381,389	378,577	2,812	307,288	71,913	2,188	2,483	2,432	51
Washington	249,505	248,364	1,141	205,861	39,793	3,851	1,741	1,720	21
California	227,565	227,565	--------	180,082	32,624	14,859	1,160	1,160	--------
North Rocky Mountain	127,229	126,293	936	69,810	43,212	14,207	1,306	1,302	4
Idaho	60,796	60,764	32	27,078	28,076	5,642	826	826	(3)
Montana	52,515	52,112	403	32,020	12,531	7,964	418	414	4
South Dakota (West)[2]	2,866	2,866	--------	1,249	1,333	284	22	22	(3)
Wyoming	11,052	10,551	501	9,463	1,272	317	40	40	(3)
South Rocky Mountain	56,868	55,952	916	44,040	7,958	4,870	318	315	3
Arizona	16,270	16,270	--------	14,265	1,787	218	94	94	--------
Colorado	27,658	26,742	916	18,727	4,860	4,071	145	142	3
Nevada	367	367	--------	287	35	45	1	1	--------
New Mexico	8,471	8,471	--------	7,134	871	466	58	58	--------
Utah	4,102	4,102	--------	3,627	405	70	20	20	--------

[1] Volume in western and central portions of Oklahoma and Texas included in the Plains region; that in eastern portions included in the West Gulf region.

[2] Volume in eastern and central portions of South Dakota included in the Plains; that in southwestern portion (Black Hills) included in North Rocky Mountain region.

[3] Less than 500,000 board feet.

Source: Department of Agriculture, Forest Service; A Reappraisal of the Forest Situation.

No. 793.—Saw Timber—Volume, by Species and Region

[In millions of board feet. Status beginning of 1945. For States represented in regions shown, see table 792]

KIND OF WOOD	Total North and South	New England	Middle Atlantic	Lake	Central	Plains	South Atlantic	South-east	West Gulf
Eastern softwoods, total	259,626	33,263	14,017	15,670	2,418	468	59,326	76,992	57,472
Southern yellow pine	188,327	142	4,035	--------	1,727	51	54,954	70,927	56,491
Spruce and fir [1]	27,007	20,649	2,718	3,600	--------	--------	40	--------	--------
White and Norway pine	15,383	7,330	3,050	3,690	161	--------	817	335	--------
Hemlock	14,921	3,764	3,996	5,950	343	--------	726	142	--------
Cypress	6,236	--------	--------	--------	126	1	2,277	3,284	548
Other	7,752	1,378	218	2,430	61	[2] 416	512	2,304	433
Eastern hardwoods, total	[3] 298,790	24,934	[3] 48,028	35,040	[3] 41,329	5,262	[3] 37,815	[3] 58,895	47,487
Oak	101,381	2,265	19,012	5,090	20,370	702	12,815	21,017	20,110
Beech, birch, and maple	67,887	20,740	19,310	17,090	7,207	--------	2,330	1,210	--------
Sweet gum	26,476	--------	--------	--------	616	36	6,667	10,516	8,641
Tupelo and black gum	18,957	--------	--------	--------	348	3	6,250	7,309	5,047
Cottonwood and aspen	15,662	1,885	1,154	6,380	2,472	2,414	116	907	834
Yellow poplar	12,347	56	1,710	--------	2,169	--------	4,512	3,900	--------
Other	56,080	488	6,842	6,480	8,147	2,107	5,125	14,036	12,855

KIND OF WOOD	Total West	Pacific Northwest: Total	Pacific Northwest: Douglas-fir subregion	Pacific Northwest: Pine subregion	California	North Rocky Mountain	South Rocky Mountain
Western species, total	1,042,556	630,894	504,931	125,963	227,565	127,229	56,868
Douglas fir	430,028	331,227	310,523	20,704	[4] 68,613	26,718	3,470
Ponderosa pine	[5] 185,025	80,198	4,850	75,348	[6] 51,191	26,771	26,865
True firs	113,541	57,854	46,464	11,390	[7] 43,012	9,360	3,315
Western hemlock	97,207	95,855	94,469	1,386	--------	1,352	--------
Sugar pine and western white pine	40,224	8,089	6,171	1,918	19,505	12,630	--------
Redwood	38,114	--------	--------	--------	[8] 38,114	--------	--------
Spruce	35,880	8,020	8,020	--------	--------	12,499	15,361
Larch	26,606	8,727	145	8,582	--------	17,879	--------
Lodgepole pine	22,060	1,171	37	1,134	--------	14,406	6,483
Other softwoods	48,066	35,800	30,386	5,414	7,130	4,678	458
Hardwoods	5,805	3,953	3,866	87	--------	936	916

[1] Balsam fir.
[2] Ponderosa pine.
[3] Excludes dead chestnut of sawlog size still standing and usable.
[4] May include some white fir, Sitka spruce, western hemlock, Port Oxford cedar and western red cedar commonly lumped with Douglas-fir in redwood cruising.
[5] Excludes 416 million board feet in Plains region.
[6] Includes Jeffery pine.
[7] Includes western white pine, mountain hemlock, and lodgepole pine recorded in cruises of fir areas.
[8] Redwood exclusive of volume of 1,000 bigtree on cruises in west-side Sierra subregion.

Source: Department of Agriculture, Forest Service; A Reappraisal of the Forest Situation.

No. 794.—Annual Drain From Commercial Forest Lands by Cutting for Commodities and by Destructive Agencies

[Includes drain in volume from land capable of producing timber of commercial quantity and quality and available now or prospectively for commercial use]

ITEM	All timber drain (millions of cu. ft.): Total	All timber drain: Softwoods	All timber drain: Hardwoods	Saw-timber drain (millions of bd. ft.): Total	Saw-timber drain: Softwoods	Saw-timber drain: Hardwoods
Aggregate	13,661	8,151	5,510	53,893	38,530	15,363
Timber cut for commodities (1944)	12,182	7,348	4,834	49,658	35,591	14,067
Lumber	6,711	4,778	1,933	34,391	26,130	8,261
Fuelwood	2,203	719	1,484	3,863	1,957	1,906
Pulpwood	1,306	1,163	143	4,757	4,500	257
Hewed ties	363	153	210	1,643	777	866
Fence posts	220	59	161	226	82	144
Veneer logs	392	165	227	1,971	942	1,029
Mine timbers	225	40	185	320	70	250
Cooperage	174	40	134	744	195	549
Shingles	72	72	--------	334	334	--------
Other	516	159	357	1,409	604	805
Timber removed by destructive agencies (average 1934–45)	1,479	803	676	4,235	2,939	1,296
Fire	460	247	213	859	547	312
Insects, disease, wind, etc	1,019	556	463	3,376	2,392	984

Source: Department of Agriculture, Forest Service; A Reappraisal of the Forest Situation.

No. 795.—Forest Fires—Number, and Area Burned Over on Federal, State, and Private Forest Lands: 1931 to 1948

[Area in thousands of acres. See also *Historical Statistics*, series F 145-150]

Calendar year	Federal lands, protected area [1]			State and private forests [2]					
				On protected area			On unprotected area		
	Forest area [3]	Number of fires	Area burned over	Forest area [3]	Number of fires	Area burned over	Forest area [3]	Number of fires	Area burned over
1931	134,610	5,715	551	266,173	56,459	5,856	216,541	125,040	45,200
1932	138,525	4,933	419	266,723	55,567	3,234	220,617	105,899	38,410
1933	176,696	4,517	380	266,259	48,770	3,343	218,664	87,435	40,167
1934	182,167	8,064	658	282,979	61,254	3,515	209,558	93,345	37,648
1935	180,443	7,962	228	288,751	54,592	2,311	204,379	77,743	27,796
1936	187,122	11,144	425	298,365	73,709	3,792	195,650	141,432	38,990
1937	182,872	9,468	90	301,911	54,292	1,254	182,763	121,449	20,637
1938	191,860	9,873	316	308,458	76,326	2,623	168,884	146,030	30,876
1939	157,691	12,356	522	278,919	85,677	3,266	148,812	114,638	26,660
1940	153,723	14,076	482	281,706	73,527	2,934	146,749	107,824	22,432
1941	153,559	10,002	437	282,074	80,994	3,138	143,743	108,706	22,830
1942	153,561	9,941	576	290,928	75,849	3,863	136,687	122,428	27,416
1943	183,052	9,802	702	299,331	78,815	3,860	131,275	121,619	27,772
1944	212,344	8,985	375	301,228	56,148	2,301	129,919	66,096	13,873
1945	213,210	8,539	445	302,942	48,176	2,456	126,959	68,013	14,789
1946	213,597	9,670	321	318,505	66,103	2,253	120,489	93,505	18,117
1947	215,361	8,928	318	327,968	71,442	2,814	111,026	120,429	20,093
1948	217,724	6,681	312	339,463	61,095	1,961	99,531	106,413	14,283

[1] In continental U. S.; includes National Forests, Interior, Soil Conservation Service, TVA, Public Domain, etc.

[2] In continental U. S. and Hawaii. Data reported to Forest Service by its field offices, cooperating agencies, other Government bureaus, and similar sources. Statistics on unprotected areas based on State estimates only.

[3] Prior to 1939 forest area included total area needing protection. Beginning with 1939, this area included only forest area needing protection, which accounts for reduction in areas between 1938 and 1939.

Source: Department of Agriculture, Forest Service; annual report, Forest Fire Statistics, and records.

No. 796.—Forest Fire Control—Prevention and Suppression Expenditures on State and Private Forest Lands, by States and for Hawaii: Fiscal Year 1949

[In thousands of dollars. See also *Historical Statistics*, series F 151-154, for annual totals]

State or other area	Total expenditures	Federal	State and county	Private agencies	State or other area	Total expenditures	Federal	State and county	Private agencies
Total	27,874	8,570	17,200	2,104	Montana	207	82	21	104
					Nevada	28	10	18	------
Alabama	977	351	548	78	New Hampshire	212	63	101	48
Arkansas	805	250	473	82	New Jersey	364	105	259	------
California	6,123	1,373	4,750	------	New Mexico	26	11	5	10
Colorado	67	21	23	23	New York	881	215	666	------
Connecticut	133	47	85	1	North Carolina	731	261	450	20
Delaware	16	5	11	------	Ohio	178	61	117	------
Florida	1,261	501	346	414	Oklahoma	110	53	37	20
Georgia	680	227	433	20	Oregon	2,044	761	653	630
Idaho	378	135	60	183	Pennsylvania	697	214	483	------
Illinois	54	20	34	------	Rhode Island	73	29	44	------
					South Carolina	840	344	496	------
Indiana	141	62	79	------					
Iowa	22	10	12	------	South Dakota	25	7	18	------
Kentucky	217	88	129	------	Tennessee	255	111	136	8
Louisiana	861	210	643	8	Texas	498	162	193	143
Maine	633	138	495	------	Utah	57	22	35	------
Maryland	318	107	211	------	Vermont	81	20	57	4
Massachusetts	277	96	181	------	Virginia	567	170	395	2
Michigan	1,478	464	1,014	------	Washington	1,835	606	932	297
Minnesota	997	289	708	------	West Virginia	430	176	245	9
Mississippi	759	228	531	------	Wisconsin	955	260	695	------
Missouri	574	202	372	------	Hawaii	9	3	6	------

Source: Department of Agriculture, Forest Service; records.

No. 797.—National Forest and Other Areas, by States and for Alaska and Puerto Rico: June 30, 1949

[**Areas in acres**; comprises national forests, purchase units, experimental areas, land utilization and other areas placed under Administration of Forest Service, but not given a national-forest status. See also *Historical Statistics*, series F 69–70, for gross area and area under Forest Service]

STATE OR OTHER AREA	Gross area	Not under Forest Service Administration	Under Forest Service Administration	STATE OR OTHER AREA	Gross area	Not under Forest Service Administration	Under Forest Service Administration
Total	**229,174,789**	**48,280,055**	**180,894,734**	Nebraska	207,209	1,181	206,028
				Nevada	5,307,534	254,485	5,053,049
Alabama	2,435,748	1,815,147	620,601	New Hampshire	806,324	136,315	670,009
Arizona	12,159,022	672,804	11,486,218	New Mexico	10,268,877	1,294,700	8,974,177
Arkansas	3,589,549	1,237,352	2,352,197	North Carolina	3,593,436	2,495,563	1,097,873
California	25,059,975	5,203,718	19,856,257	North Dakota	764,425	763,905	520
Colorado	15,228,282	1,521,991	13,706,291	Ohio	1,466,020	1,370,545	95,484
Florida	1,241,956	167,545	1,074,411	Oklahoma	344,269	166,722	177,547
Georgia	1,732,322	1,072,305	660,017	Oregon	17,354,867	2,575,839	14,779,028
Idaho	21,572,354	1,290,836	20,281,518	Pennsylvania	746,706	275,057	471,649
Illinois	812,654	593,087	219,567	South Carolina	1,422,934	837,666	585,268
Indiana	784,647	678,285	106,362	South Dakota	1,403,197	288,212	1,114,985
Iowa	218,671	213,922	4,749	Tennessee	1,531,797	958,538	573,259
Kentucky	1,393,534	936,311	457,223	Texas	1,714,374	1,056,240	658,134
Louisiana	1,274,977	715,149	559,828	Utah	8,986,214	1,116,029	7,870,185
Maine	878,032	828,904	49,128	Vermont	580,520	370,941	209,579
Maryland	4,318	3,208	1,110	Virginia	4,123,669	2,681,149	1,442,520
Massachusetts	1,651		1,651	Washington	10,751,614	1,071,161	9,680,453
Michigan	5,189,076	2,751,422	2,437,654	West Virginia	1,836,144	932,814	903,330
Minnesota	5,041,774	2,403,421	2,638,353	Wisconsin	2,019,698	570,262	1,449,436
Mississippi	2,777,325	1,731,664	1,045,661	Wyoming	9,013,328	447,757	8,565,571
Missouri	3,459,999	2,114,044	1,345,955	Alaska	20,882,679	35,134	20,847,545
Montana	19,006,897	2,475,532	16,531,365	Puerto Rico	186,182	153,193	32,989

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

No. 798.—National Forest Land Purchases, by States and for Puerto Rico, to June 30, 1949

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

State or other area	Gross area (acres)	Total net area approved for purchase			Net area purchased			Remaining acquirable area (acres)
		Acres	Average price per acre	Total price (1,000)	Acres	Average price per acre	Total price (1,000)	
Total	57,631,254	18,725,627	$3.83	$71,792	18,614,803	$3.81	$71,002	23,791,165
Alabama	2,435,087	504,221	3.67	1,851	504,123	3.67	1,851	1,460,963
Arkansas	3,587,746	1,186,308	2.89	3,431	1,176,740	2.86	3,368	868,980
California	2,139,577	136,300	8.46	1,150	135,660	8.43	1,147	715,003
Florida	1,241,956	782,574	3.14	2,457	778,304	3.11	2,421	154,266
Georgia	1,727,585	598,980	4.92	2,950	596,540	4.92	2,934	852,562
Idaho	726,970	36,710	3.44	126	33,277	3.37	112	210,790
Illinois	801,944	195,080	6.40	1,248	191,852	6.31	1,210	404,054
Indiana	781,467	102,277	7.14	730	96,329	6.99	673	398,296
Iowa	218,671	4,748	9.11	43	4,748	9.11	43	184,562
Kentucky	1,398,521	456,795	4.05	1,851	433,271	3.80	1,646	651,889
Louisiana	1,274,977	550,719	2.98	1,643	538,431	2.87	1,545	634,870
Maine	878,032	49,117	6.62	325	49,117	6.62	325	637,070
Michigan	5,143,003	1,890,122	3.06	5,785	1,888,700	3.06	5,772	2,153,490
Minnesota	5,041,314	1,546,126	2.46	3,809	1,539,911	2.46	3,783	2,098,753
Mississippi	2,685,492	1,003,050	3.53	3,537	1,003,050	3.53	3,537	1,529,074
Missouri	3,459,999	1,320,449	2.31	3,048	1,313,884	2.30	3,025	1,686,612
Nevada	8,895	8,895	14.50	129	8,895	14.50	129	----------
New Hampshire	806,323	669,946	7.77	5,205	669,192	7.77	5,197	111,668
New Mexico	92,514	20,715	1.92	40	20,715	1.92	40	10,200
North Carolina	3,605,123	1,031,015	5.15	5,309	1,020,642	5.16	5,264	1,733,131
North Dakota	764,425	480	10.00	5	480	10.00	5	499,480
Ohio	1,466,029	94,405	7.06	667	89,120	6.84	610	1,138,196
Oklahoma	344,269	177,267	1.78	316	176,040	1.76	309	159,511
Oregon	69,704	52,467	17.03	894	52,467	17.03	894	7,297
Pennsylvania	726,315	469,555	6.26	2,942	468,703	6.27	2,937	142,972
South Carolina	1,422,930	562,330	6.20	3,489	561,558	6.20	3,482	770,545
Tennessee	1,531,695	560,960	4.46	2,505	559,572	4.46	2,493	610,095
Texas	1,714,364	652,992	4.62	3,017	652,992	4.62	3,017	809,300
Utah	2,945,520	120,314	2.96	356	117,664	2.93	344	177,451
Vermont	580,520	209,457	9.33	1,954	209,396	9.33	1,954	276,889
Virginia	3,969,156	1,447,302	3.27	4,739	1,441,400	3.26	4,706	1,635,649
West Virginia	1,836,138	903,324	3.41	3,076	903,324	3.41	3,076	625,205
Wisconsin	2,023,838	1,366,620	2.17	2,970	1,364,898	2.17	2,963	353,765
Puerto Rico	186,155	14,007	13.92	195	13,808	13.76	190	85,556

Source: National Forest Reservation Commission, Annual Report.

No. 799.—Number of Visits to National Forests for Utilization of Recreation Resources: 1940 to 1948

[In thousands. Data for calendar years. See also *Historical Statistics*, series F 80-83]

Type	1940	1941	1942	1943	1944	1945	1946	1947	1948
Visits for utilization of recreation resources, total	16,163	18,005	10,407	6,275	7,152	10,074	18,241	21,331	24,011
Utilization of improved public recreation areas, total	13,053	10,688	6,066	3,412	3,586	5,072	8,763	10,506	12,391
Camp grounds	3,583	3,350	1,771	1,005	1,247	1,815	3,055	3,518	3,424
Picnic areas	7,932	5,819	3,301	2,050	2,051	2,730	4,459	5,262	6,682
Winter sports area	1,538	1,519	994	267	288	527	1,249	1,726	2,285
Organization camps	--------	244	160	115	177	276	385	323	325
Hotels or resorts	2,258	1,918	1,136	680	715	1,271	2,286	2,110	1,929
Recreation residences	852	601	379	245	370	506	714	536	572
Wilderness areas	--------	87	56	43	50	75	145	194	213
Other forest areas	--------	4,467	2,610	1,780	2,254	2,874	5,948	7,662	8,580
Visits for utilization of highways, roads, and water routes	125,124	--------	--------	--------	10,967	14,530	36,960	56,495	53,148

Source: Department of Agriculture, Forest Service; records.

No. 800.—National Forests—Net Cash Receipts: 1905 to 1949

[In thousands of dollars. See also *Historical Statistics*, series F 99-102]

Fiscal year	Total receipts	From use of timber [1]	From use of forage	From special land use, water power, etc.	Fiscal year	Total receipts	From use of timber [1]	From use of forage	From special land use, water power, etc.
1905	73	73	----------	(2)	1928	5,442	3,325	1,714	403
1906	758	237	513	7	1929	6,300	4,109	1,740	451
1907	1,530	654	857	19	1930	6,752	4,390	1,943	419
1908	1,788	811	947	30	1931	4,993	2,608	1,961	425
1909	1,766	702	1,023	42	1932	2,294	1,049	830	415
1910	2,041	1,011	970	60	1933	2,626	783	1,498	345
1911	1,969	952	928	89	1934	3,315	1,522	1,359	434
1912	2,109	1,028	961	120	1935	3,289	1,729	1,151	408
1913	2,392	1,271	999	122	1936	4,063	2,203	1,441	418
1914	2,438	1,311	1,002	124	1937	4,936	2,924	1,580	431
1915	2,481	1,183	1,130	168	1938	4,671	2,518	1,696	457
1916	2,824	1,422	1,210	192	1939	4,903	2,857	1,574	472
1917	3,457	1,640	1,550	267	1940	5,850	3,943	1,463	453
1918	3,575	1,630	1,726	219	1941	6,682	4,789	1,429	464
1919	4,358	1,535	2,609	214	1942	7,165	5,094	1,595	476
1920	4,793	2,045	2,486	263	1943	10,056	7,610	1,973	473
1921	4,152	1,770	2,132	250	1944	15,617	12,623	2,459	535
1922	3,422	1,813	1,316	292	1945	16,048	11,587	2,159	2,302
1923	5,336	2,722	2,341	272	1946	13,875	10,554	2,060	1,261
1924	5,252	3,036	1,916	300	1947	18,373	15,421	2,294	658
1925	5,000	2,940	1,725	334	1948	24,236	20,594	2,898	744
1926	5,156	3,367	1,422	367	1949	31,076	26,927	3,276	873
1927	5,167	3,253	1,531	382					

[1] Commercial and cost sales. [2] Less than $500.

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

No. 801.—Payments to States, Alaska, and Puerto Rico from Receipts of National Forests: 1947 to 1950

[In thousands of dollars. For years ending June 30. Payments are 25 percent of net receipts of preceding fiscal year from sales of timber, grazing fees, and miscellaneous uses of national forests (exclusive of school-fund payments to Arizona and New Mexico, and payments for acquisition of land), under Act of May 23, 1908]

State or other area	1947	1948	1949	1950	State or other area	1947	1948	1949	1950
Total	3,424	4,547	5,983	7,719	Nevada	23	25	34	35
					New Hampshire	28	19	25	23
Alabama	29	34	66	90	New Mexico	76	108	112	124
Arizona	157	196	229	244	North Carolina	47	53	61	85
Arkansas	145	160	278	375	North Dakota	(1)	(1)	(1)	(1)
California	414	474	561	1,133					
Colorado	147	183	215	218	Ohio	7	2	3	3
					Oklahoma	12	11	26	40
Florida	46	52	60	66	Oregon	559	939	1,670	2,045
Georgia	34	56	63	81	Pennsylvania	24	26	21	14
Idaho	210	304	328	418	South Carolina	43	66	88	100
Illinois	9	9	12	17					
Indiana	1	1	1	2	South Dakota	47	72	71	57
					Tennessee	34	31	20	40
Iowa	(1)	(1)	(1)	(1)	Texas	110	103	103	263
Kentucky	27	23	30	25	Utah	63	92	102	112
Louisiana	39	43	78	101	Vermont	15	26	30	26
Maine	2	1	7	6					
Michigan	56	62	93	65	Virginia	30	35	41	38
					Washington	398	738	835	1,108
Minnesota	60	78	77	68	West Virginia	23	28	25	29
Mississippi	230	103	202	197	Wisconsin	28	33	53	66
Missouri	15	15	14	25	Wyoming	74	101	117	109
Montana	135	196	207	251					
Nebraska	5	6	10	12	Alaska	14	37	11	5
					Puerto Rico	6	4	4	3

[1] Less than $500.

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

No. 802.—Timber Cut on the National Forests—Volume and Value: 1930 to 1949

[Volume in thousands of board feet; values in thousands of dollars. See also *Historical Statistics*, series F 88-96]

Fiscal year	Total forest products, value	Timber cut: Commercial and cost sales, land exchanges: Volume	Commercial and cost sales, land exchanges: Value	Free use: Volume	Free use: Value [1]	Miscellaneous forest products, value [2]
1930	4,930	1,653,265	4,790	116,096	[3] 117	23
1931	3,527	1,222,361	3,348	167,680	[3] 162	17
1932	1,767	611,751	1,519	270,244	[3] 227	21
1933	1,333	473,922	1,077	265,812	237	19
1934	1,845	674,542	1,609	248,243	210	26
1935	2,260	752,368	1,938	316,769	281	41
1936	2,892	1,021,156	2,590	293,126	272	30
1937	3,505	1,290,623	3,189	317,696	277	39
1938	3,539	1,287,917	3,209	301,375	279	52
1939	3,687	1,290,561	3,375	267,785	260	52
1940	5,168	1,740,271	4,807	325,595	304	57
1941	6,084	2,067,279	5,762	284,228	260	62
1942	6,429	2,204,749	6,109	219,358	241	79
1943	8,907	2,359,473	8,672	169,057	175	60
1944	14,518	3,333,167	14,155	180,654	213	150
1945	13,291	3,144,789	13,016	154,167	171	104
1946	11,811	2,729,708	11,490	138,362	170	150
1947	16,780	3,834,588	16,400	127,555	197	183
1948	21,389	3,758,885	21,054	116,430	189	146
1949	29,163	3,740,810	28,749	113,518	190	224

[1] Includes "Free use" not reducible to board feet.
[2] Includes materials not measurable in board feet, such as Christmas trees, tanbark, turpentine, seedlings, Spanish moss, etc.
[3] Calendar year data.

Source: Department of Agriculture, Forest Service; annual report, Agricultural Statistics, and records.

No. 803.—Forest Trees Planted on Farm Lands, with Costs, by States, Year Ending June 30, 1949

State or other area	Forest trees planted on farm lands during year (thousands)	Expenditures ($1,000): Total	Expenditures ($1,000): Federal contribution [1]
Total	102,903.4	1,406.3	113.7
Alabama	7,768.9	23.9	2.8
Arkansas	6,004.2	26.7	2.8
Colorado	265.5	11.5	2.6
Connecticut	117.8	2.5	.5
Delaware	27.0	2.0	.9
Florida	10,779.0	37.6	2.8
Georgia	9,480.4	88.9	2.8
Idaho	239.9	10.5	2.7
Illinois	3,048.0	64.5	2.8
Indiana	2,056.3	82.0	2.9
Iowa	168.1	18.7	2.8
Kentucky	401.1	10.4	2.7
Louisiana	3,779.3	27.8	2.8
Maine	194.5	3.8	1.5
Maryland	203.6	4.2	1.9
Massachusetts	433.1	25.2	2.8
Michigan	2,008.0	34.8	2.8
Mississippi	3 460.0	45.5	2.8
Missouri	772.2	24.5	2.8
Montana	329.5	22.3	2.7
Nebraska	1,569.2	38.4	3.7
Nevada	23.4		
New Hampshire	434.8	11.5	2.7
New Jersey	733.2	20.2	2.8
New York	12,319.6	165.9	4.1
North Carolina	3,149.9	17.4	2.8
North Dakota	665.5	13.0	2.8
Ohio	1,348.8	61.9	2.9
Oklahoma	478.0	26.7	2.8
Oregon	615.6	18.6	2.7
Pennsylvania	3,263.0	182.0	3.7
South Carolina	10,627.4	50.1	2.8
South Dakota	568.7	20.5	2.3
Tennessee	808.9	15.9	2.8
Texas	6,362.7	19.0	2.8
Utah	90.1	5.5	2.6
Vermont	121.6	19.1	2.7
Virginia	950.5	20.4	2.8
Washington	117.6	19.4	2.7
West Virginia	109.3	18.6	2.7
Wisconsin	3,879.5	68.4	2.9
Wyoming	228.1	5.8	1.0
Hawaii	78.9	6.9	2.6
Puerto Rico	2,827.9	13.6	2.7

[1] Provided by Clarke-McNary law, Act of June 7, 1924, and Norris-Doxey law, Act of May 18, 1937.

Source: Department of Agriculture, Forest Service.

No. 804.—Forest Trees Planted on Farm Lands, With Costs: 1932 to 1949

[See also *Historical Statistics*, series F 84-87]

YEAR	Forest trees planted on farm lands during calendar year (1,000)	EXPENDITURES, YEAR ENDING JUNE 30 ($1,000)		YEAR	Forest trees planted on farm lands during calendar year (1,000)	EXPENDITURES, YEAR ENDING JUNE 30 ($1,000)	
		Total	Federal contribution [1]			Total	Federal contribution [1]
1932	23,500	298	94	1941	97,650	526	113
1933	21,970	273	77	1942	74,219	527	115
1934	20,208	199	53	1943	39,148	448	115
1935	26,150	206	55	1944	37,980	463	119
1936	35,648	251	55	1945	37,743	572	114
1937	41,698	321	70	1946	43,588	637	113
1938	55,360	365	71	1947	42,347	886	117
1939	64,213	398	97	1948	77,324	1,178	113
1940	87,468	524	140	1949	[2] 102,903	1,406	113

[1] Provided by Clarke-McNary law, act of June 7, 1924, and the Norris-Doxey law, act of May 18, 1937.
[2] Fiscal year.

No. 805.—Livestock Under Pay Permit on National Forests and Receipts From Grazing: 1931 to 1948

[Livestock for calendar year; receipts for fiscal year ending June 30. See also *Historical Statistics*, series F 74-75]

YEAR	Cattle and horses [1]	Hogs [1]	Sheep and goats [1]	Receipts from grazing	YEAR	Cattle and horses [1]	Hogs [1]	Sheep and goats [1]	Receipts from grazing
	Number	*Number*	*Number*	*$1,000*		*Number*	*Number*	*Number*	*$1,000*
1931	1,375,708	431	6,608,228	1,961	1940	1,176,991	184	4,949,196	1,463
1932	1,396,265	528	6,320,938	830	1941	1,175,749	108	4,787,369	1,429
1933	1,398,335	533	6,161,966	1,498	1942	1,191,218	----	4,758,038	1,595
1934	1,418,936	314	6,161,368	1,359	1943	1,211,568	572	4,538,660	1,973
1935	1,344,318	292	5,691,086	1,151	1944	1,225,254	256	4,280,370	2,459
1936	1,310,808	159	5,645,050	1,441	1945	1,206,227	105	3,888,839	2,159
1937	1,283,924	241	5,484,954	1,580	1946	1,203,201	139	3,712,981	2,060
1938	1,250,075	126	5,307,300	1,696	1947	1,161,905	109	3,402,677	2,294
1939	1,208,868	220	5,131,607	1,574	1948	1,153,246	142	3,321,993	3,276

[1] Excludes animals under 6 months of age.

No. 806.—Livestock Under Pay Permit on National Forests and Receipts From Grazing, by States: 1948

[See headnote, table 805. No livestock grazed or money received from Alaska or Puerto Rico]

STATE OR OTHER AREA	Livestock under pay permit		Receipts from grazing [2]	STATE OR OTHER AREA	Livestock under pay permit		Receipts from grazing [2]
	Cattle and horses [1]	Sheep and goats [1]			Cattle and horses [1]	Sheep and goats [1]	
	Number	*Number*	*$1,000*		*Number*	*Number*	*$1,000*
Total	1,153,246	3,321,993	3,276	Nevada	58,870	140,712	134
				New Mexico	78,144	109,235	213
Alabama	20	----	----	North Carolina	135	----	(3)
Arizona	134,191	89,209	408	North Dakota	----	----	(3)
Arkansas	2,532	----	1	Ohio	177	----	----
California	116,270	147,148	282	Oklahoma	30	----	(3)
Colorado	173,625	655,703	532	Oregon	71,858	175,425	(3)
Florida	1,134	----	1	Pennsylvania	26	----	205
Idaho	112,089	671,355	366	South Carolina	570	----	(3)
Illinois	783	2,000	----	South Dakota	26,573	16,766	49
Indiana	128	----	----	Tennessee	145	----	(3)
Iowa	282	----	(3)	Texas	1,374	----	1
Louisiana	745	----	----	Utah	110,507	525,172	357
Michigan	2,230	281	1	Vermont	74	----	(3)
Minnesota	740	70	(3)	Virginia	318	98	(3)
Mississippi	1,122	----	(3)	Washington	19,556	49,244	55
Missouri	3,563	22	5	West Virginia	1,455	1,671	4
Montana	115,268	272,318	329	Wisconsin	580	32	(3)
Nebraska	12,626	----	48	Wyoming	105,497	465,532	282

[1] Excludes animals under 6 months of age. [2] Includes grazing trespass. [3] Less than $500.

Source of tables 804, 805, and 806: Department of Agriculture, Forest Service.

No. 807.—Lumber—Production, by Kind of Wood, and Average Mill Value

[Data not strictly comparable because of incomplete coverage of numerous small mills in the East prior to 1942 and exclusion of mills cutting less than 50 M ft. b. m. for all years prior to 1942 except 1869–1909, and 1919. Exclusion of under 50 M class of mills would affect totals less than 1 percent as reflected by 1942 survey. Data for 1943–46 include estimates based on sample surveys. Small production quantities are subject to large sampling errors]

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

Year	Production			Average mill value	Year	Production			Average mill value
	Total	Hardwood	Softwood			Total	Hardwood	Softwood	
1869	12,756			(1)	1934	15,494	2,758	12,735	$21.47
1879	18,091			(1)	1935	19,539	3,291	16,248	20.43
1889	23,842			$11.41	1936	24,355	4,113	20,242	22.20
1899	[2] 35,078	8,634	26,146	11.13	1937	25,997	4,408	21,589	24.25
1909	44,510	10,613	33,897	15.38	1938	21,646	3,353	18,293	21.45
1919	34,552	7,145	27,407	30.21	1939 [3]	26,148	3,740	21,408	21.97
1921	26,961	4,775	22,186	23.47	1940	28,934	4,031	24,903	23.32
1923	37,166	6,262	30,904	31.78	1941	33,476	5,499	27,977	28.09
1925	38,339	6,628	31,710	28.02	1942	36,332	6,822	29,510	31.50
1927	34,532	6,090	28,442	25.80	1943	34,289	7,371	26,917	36.86
1929	36,886	7,073	29,813	26.94	1944	32,938	7,778	25,160	(1)
1930	26,051	4,729	21,323	22.81	1945	28,122	6,982	21,140	(1)
1931	16,523	2,671	13,852	18.56	1946	34,112	8,256	25,857	(1)
1932	10,151	1,406	8,746	15.12	1947	35,404	7,467	27,937	(1)
1933	13,061	2,062	11,899	18.55					

Kind of wood	Production									
	1899	1909	1919	1929	1939 [3]	1943	1944	1945	1946	1947
Softwood, total	26,146	33,897	27,407	29,813	21,408	26,917	[4] 25,160	[4] 21,140	25,857	27,937
Balsam fir		109	68	38	20	7	(1)	(1)	12	27
Cedar	233	346	332	309	264	268	(1)	303	326	366
Cypress	496	956	656	532	422	254	191	228	238	240
Douglas fir	1,737	4,856	5,902	8,689	6,494	7,951	7,864	6,237	7,640	9,042
Hemlock	3,421	3,051	1,755	2,099	676	1,213	(1)	1,039	1,216	1,244
Larch	51	421	388	245	111	229	(1)	(1)	269	292
Lodgepole pine		24	16	31	55	68	72	65	86	100
Ponderosa pine	945	1,500	1,755	3,288	3,360	3,872	3,768	3,056	3,630	3,839
Redwood	360	522	410	486	345	461	462	444	243	529
Spruce	1,442	1,749	980	564	347	557	(1)	368	[5] 369	392
Sugar pine	54	97	134	349	309	278	318	228	344	343
White fir		89	223	307	98	403	492	499	684	673
White pine	7,742	3,900	1,724	1,248	1,168	1,396	(1)	1,269	1,418	1,370
Yellow pine	9,659	16,277	13,063	11,630	7,749	9,962	8,132	7,210	9,376	9,473
Other softwood	9						(1)	203	5	7
Hardwood, total	8,634	10,613	7,145	7,073	3,740	7,371	[4] 7,778	[4] 6,982	8,256	7,467
Alder		(6)	(6)	24	21	11	13	14	34	24
Ash	269	291	155	152	90	96	(1)	84	100	106
Basswood	308	399	164	133	96	130	(1)	100	116	126
Beech		511	359	187	120	319	(1)	352	330	330
Birch	133	452	375	374	141	188	(1)	152	173	175
Chestnut	207	664	546	268	74	85	(1)	(1)	44	33
Cottonwood	415	266	144	165	130	244	(1)	209	312	381
Elm	457	347	194	176	74	158	(1)	159	180	202
Hickory	97	334	170	57	38	164	(1)	159	187	156
Magnolia		(6)	2	42	20	(7)	(1)	(1)	37	(1)
Maple	633	1,107	857	824	445	581	(1)	522	598	630
Oak	4,438	4,414	2,708	2,574	1,432	3,038	3,292	2,859	3,378	3,193
Red gum	285	707	851	1,104	383	1,044	1,017	971	1,080	803
Sycamore	30	57	28	58	27	68	(1)	(1)	67	63
Tupelo		97	144	307	271	395	372	439	612	408
Walnut	39	46	39	72	27	52	(1)	(1)	29	34
Yellow poplar	1,115	859	329	436	276	589	641	578	827	636
Other hardwood	209	62	59	120	75	[7] 208	(1)	385	152	167

[1] Data not available. [2] Includes 298,000,000 board feet of lumber not reported by kind of wood.
[3] Includes 165,305,000 board feet of softwood lumber and 7,605,000 board feet of hardwood lumber sawed by New England mills from timber salvaged from the hurricane of 1938.
[4] Totals include species not shown separately.
[5] Includes unspecified amount of fir.
[6] Less than 500,000 board feet were reported. [7] Magnolia included in "Other hardwood."

Source: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service, and Tennessee Valley Authority); reports of Census of Manufactures and annual report, Lumber, Lath, and Shingle Production, Facts for Industry Series M13G.

No. 808.—Lumber—Production, by Regions and States: 1889 to 1947

[See headnote, table 807 for explanation of lack of comparableness of statistics. Data for Pacific and Rocky Mountain States may be considered complete for entire series. Data for all States may be considered comparable for 1945 and subsequent years]

[In millions of board feet]

Region and State	1889	1899	1909	1919	1929	1939 [1]	1945	1946	1947
United States	**23,842**	**35,078**	**44,510**	**34,552**	**36,886**	**25,148**	**28,122**	**34,112**	**35,404**
Northeastern States	**4,726**	**5,709**	**5,197**	**2,584**	**1,232**	**1,140**	**1,883**	**2,163**	**2,324**
Maine	597	785	1,112	596	258	215	374	411	459
New Hampshire	277	572	650	339	192	266	290	332	323
Vermont	384	376	352	218	120	126	195	216	204
Massachusetts	212	344	361	167	72	126	88	118	132
Connecticut	49	108	168	87	30	25	17	17	20
Rhode Island	8	19	25	11	7	12	2	3	3
New York	925	878	681	358	160	108	283	317	383
New Jersey	34	74	62	37	16	14	31	27	32
Pennsylvania	2,133	2,333	1,463	630	314	186	464	526	580
Maryland	82	184	268	113	55	51	116	117	154
Delaware	23	36	55	27	10	11	22	28	34
Central States	**3,130**	**5,643**	**5,487**	**3,016**	**2,347**	**1,231**	**2,235**	**2,509**	**2,393**
Ohio	565	990	543	280	176	111	257	247	265
Indiana	755	1,037	556	282	170	111	147	163	180
Illinois	222	388	170	65	38	27	66	93	100
Missouri	402	724	660	321	228	74	241	257	259
West Virginia	302	778	1,473	763	633	324	476	443	484
Kentucky	423	775	861	512	339	207	421	414	439
Tennessee	460	951	1,224	792	764	376	627	893	665
Southern States	**3,718**	**8,404**	**14,796**	**12,704**	**12,484**	**7,549**	**7,940**	**10,033**	**9,397**
Georgia	575	1,312	1,342	894	1,386	907	1,510	1,982	1,687
Florida	412	790	1,202	1,137	1,137	603	485	593	534
Alabama	589	1,101	1,691	1,799	2,059	1,412	1,585	2,158	1,705
Mississippi	454	1,206	2,573	2,390	2,669	1,201	1,313	1,559	1,397
Arkansas	538	1,624	2,111	1,772	1,348	1,110	[2] 1,090	1,245	1,285
Louisiana	304	1,115	3,552	3,164	2,232	1,086	1,024	1,066	1,269
Texas	843	1,232	2,099	1,380	1,452	1,137	933	1,343	1,347
Oklahoma	3	22	226	168	200	143	(2)	88	83
North Carolina Pine States	**1,129**	**2,712**	**5,177**	**3,374**	**2,979**	**2,367**	**2,936**	**3,832**	**3,577**
Virginia	416	959	2,102	1,098	708	679	995	1,217	1,166
North Carolina	515	1,287	2,178	1,654	1,202	1,042	1,215	1,614	1,540
South Carolina	199	466	898	622	1,068	646	727	1,001	871
Lake States	**8,251**	**8,750**	**5,476**	**2,692**	**1,771**	**781**	**923**	**1,117**	**1,310**
Michigan	4,300	3,018	1,890	876	571	333	421	520	580
Minnesota	1,084	2,342	1,562	700	357	111	186	205	244
Wisconsin	2,866	3,389	2,025	1,116	843	337	316	392	486
Pacific States	**2,028**	**2,901**	**6,905**	**8,798**	**14,149**	**10,693**	**10,522**	**12,432**	**14,216**
Washington	1,064	1,429	3,863	4,961	7,302	4,244	3,258	3,422	3,705
Oregon	446	735	1,899	2,577	4,784	4,765	5,004	6,328	7,102
California and Nevada	[3] 518	738	[3] 1,144	[3] 1,259	2,063	1,685	2,261	2,681	3,409
Rocky Mountain States	**249**	**556**	**1,292**	**1,299**	**1,843**	**1,336**	**1,550**	**1,915**	**2,062**
Montana	90	256	309	287	389	271	342	414	500
Idaho	28	65	646	765	1,029	675	780	864	951
Arizona	5	36	63	74	175	119	158	241	220
New Mexico	26	31	92	87	148	106	99	144	127
Colorado	80	134	142	65	72	84	88	139	145
Utah	14	18	13	12	5	15	29	50	38
Wyoming	6	17	29	9	26	65	54	64	81
All other	**612**	**401**	[4] **179**	[4] **85**	**81**	**51**	**132**	**111**	**125**
PERCENTAGE DISTRIBUTION									
United States	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Northeastern States	19.8	16.3	11.7	7.5	3.3	4.5	6.7	6.3	6.6
Central States	13.1	16.1	12.3	8.7	6.4	4.9	7.9	7.4	6.8
Southern States	15.6	24.0	33.2	36.8	33.8	30.0	28.2	29.4	26.5
North Carolina Pine States	4.7	7.7	11.6	9.8	8.1	9.4	10.4	11.2	10.1
Lake States	34.6	24.9	12.3	7.8	4.8	3.1	3.3	3.3	3.7
Pacific States	8.5	8.3	15.5	25.5	38.4	42.5	37.4	36.4	40.1
Rocky Mountain States	1.0	1.6	2.9	3.8	5.0	5.3	5.5	5.6	5.8
All other	2.6	1.1	.4	.2	.2	.2	.5	.3	.4

[1] Includes 165,305,000 board feet of softwood lumber and 7,605,000 board feet of hardwood lumber sawed by New England mills from timber salvaged from the hurricane of 1938.
[2] Arkansas and Oklahoma combined.
[3] California only; for 1909 and 1919 Nevada included with "All other."
[4] Includes Nevada.

Source: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service, and Tennessee Valley Authority); reports of Census of Manufactures and annual report, Lumber, Lath, and Shingle Production, Facts for Industry Series M13G.

No. 809.—Lumber—Average Mill Value per 1,000 Board Feet: 1899 to 1947

[See headnote, table 807. See also *Historical Statistics*, series F 120-122, for data on value of all kinds, all softwoods, and all hardwoods]

KIND OF WOOD	1899	1909	1919	1929	1937	1939	1940	1941	1942	1943	1947
All kinds [1]	$11.13	$15.38	$30.21	$26.94	$24.25	$21.97	$23.32	$28.09	$31.50	$36.86	$55.00
Softwoods	(2)	14.08	28.39	24.31	22.97	20.97	22.48	27.26	30.73	35.57	55.00
Balsam fir	(2)	13.99	32.23	25.49	21.82	19.43	20.92	24.93	28.93	37.92	(2)
Cedar	10.91	19.95	33.80	34.83	37.00	40.68	39.56	44.68	49.77	51.92	68.00
Cypress	13.32	20.46	38.38	35.29	36.79	35.50	36.07	40.64	45.39	51.75	82.00
Douglas fir	8.67	12.44	24.62	20.05	19.67	17.91	19.49	25.45	30.51	33.04	55.00
Hemlock	9.98	13.95	29.16	18.90	20.58	19.39	22.19	27.33	31.36	34.79	58.00
Larch	8.73	12.68	23.39	18.35	17.23	16.80	16.03	19.47	23.89	28.41	44.00
Lodgepole pine	(2)	16.25	20.98	17.97	16.34	17.76	19.01	19.71	23.41	29.77	46.00
Ponderosa pine	9.70	15.39	27.75	26.47	24.53	22.75	24.29	28.65	32.52	36.79	54.00
Redwood	10.12	14.80	30.04	31.00	36.30	34.56	40.35	46.20	50.47	46.80	70.00
Spruce	11.27	16.91	30.76	28.64	25.73	26.68	26.84	31.71	37.70	44.76	53.00
Sugar pine	12.30	18.14	35.99	43.08	34.71	30.10	30.28	38.75	41.66	46.28	70.00
White fir	(2)	13.10	25.66	20.63	18.95	17.34	18.05	23.36	27.64	34.27	50.00
White pine	12.69	18.16	32.83	29.87	29.20	25.90	27.87	30.32	33.17	39.03	58.00
Yellow pine	8.46	12.69	28.71	25.66	22.18	19.70	21.35	25.50	27.80	34.79	53.00
Hardwoods [1]	(2)	19.52	37.22	38.04	30.49	27.66	28.47	32.34	34.87	41.57	56.00
Alder	(2)	15.03	34.67	27.18	23.07	24.63	27.11	28.10	32.57	38.27	52.00
Ash	15.84	24.44	52.69	43.14	37.11	34.33	35.18	42.10	44.03	47.52	71.00
Basswood	12.84	19.50	40.03	39.88	35.65	31.94	32.98	37.85	42.63	48.33	66.00
Beech	(2)	13.25	29.98	28.39	25.08	22.03	24.24	26.49	30.11	36.16	52.00
Birch	12.50	16.95	35.79	39.35	36.11	33.11	34.63	41.78	47.68	55.47	67.00
Chestnut	13.37	16.12	32.30	29.51	24.87	21.94	20.89	24.93	30.43	32.94	48.00
Cottonwood	10.37	18.05	32.24	29.70	25.24	21.41	22.40	26.87	28.77	34.24	50.00
Elm	11.47	17.52	36.39	35.28	25.48	24.54	26.11	29.64	33.14	37.06	55.00
Hickory	18.78	30.80	44.37	40.33	32.12	26.75	29.99	29.70	35.31	37.79	53.00
Magnolia	(2)	15.00	28.01	38.11	29.02	27.26	29.20	39.49	39.46	(2)	(2)
Maple	11.83	15.77	35.56	36.93	24.14	32.51	34.54	38.29	43.56	48.79	69.00
Oak	13.78	20.50	37.87	38.43	29.60	26.32	26.20	29.74	32.96	40.53	52.00
Red gum	9.63	13.20	32.68	34.42	26.63	23.28	25.67	31.15	30.88	35.95	49.00
Sycamore	11.04	14.87	30.32	30.07	22.75	22.26	22.93	26.82	26.81	33.25	51.00
Tupelo	(2)	11.87	28.42	25.39	23.31	22.09	24.01	28.86	30.68	38.20	54.00
Walnut	36.49	43.79	72.13	119.15	85.10	63.18	71.43	77.20	81.13	132.98	147.00
Yellow poplar	14.03	25.39	41.65	41.66	31.60	26.98	26.04	30.70	32.31	41.99	53.00

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

Source: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service, and Tennessee Valley Authority); reports of Census of Manufactures and annual report, Lumber, Lath, and Shingle Production, Facts for Industry Series M 13G.

No. 810.—Lumber and Shingles—Production, for Alaska: 1899 to 1947

YEAR	Number of mills reporting	LUMBER SAWED (M FEET, B. M.)					Shingle (squares)[1]
		Total	Spruce	Hemlock	Cedar	All other	
1899	10	6,571	6,056	15	(2)	[3] 500	
1904	6	7,974	7,933		(2)	[3] 41	1,158
1919	22	21,673	21,182	491			
1923	20	36,076	33,504	2,266	(2)	[3] 306	2,849
1925	28	40,857	35,718	2,938	(2)	[3] 2,201	3,295
1927	21	41,395	34,571	6,291	(2)	[3] 533	4,535
1929	19	30,393	21,850	8,205	(2)	[3] 338	2,943
1931	16	16,535	12,091	4,189	(2)	[3] 255	1,063
1933	20	12,901	10,292	1,523	1,086		1,380
1935	20	23,499	14,769	8,069	658	3	2,182
1937	20	25,276	15,794	8,477	994	11	2,181
1939	24	25,885	18,162	6,071	1,595	57	2,471
1941	27	36,547	28,064	7,515	933	35	3,718
1943	29	62,603	48,633	13,355	603	12	1,117
1945	35	59,056	51,623	6,268	1,175		565
1946	42	57,506	47,487	8,710	1,296	13	2,432
1947	40	80,480	69,105	9,872	1,497	6	(4)

[1] Reported in thousands for 1932 and prior years and converted on basis of 800 shingles to the square.
[2] Included in "All other." [3] Includes figures for cedar lumber.
[4] Data not published to avoid disclosing operations of individual establishments.

Source: Department of Commerce, Bureau of the Census (in cooperation with Department of Agriculture, Forest Service, and Tennessee Valley Authority); reports of Census of Manufactures and annual report, Lumber, Lath, and Shingle Production, Facts for Industry Series M 13G.

No. 811.—Lath and Shingles—Production: 1899 to 1947

[**Lath in thousands and shingles in squares.** Shingles reported in thousands prior to 1933 and converted to squares on basis of 800 shingles to square. See headnote, table 807 for explanation of lack of comparability of statistics. Data for shingles reasonably comparable over a period of years, because of complete enumeration of Red Cedar Shingle Industry, this industry's production comprising over 90 percent of total shingle production]

YEAR (CALENDAR)	Lath	Shingles	YEAR (CALENDAR)	Lath	Shingles
1899	2,523,998	15,127,521	1936	810,909	5,901,692
1909	3,703,195	18,634,214	1937	839,085	[1] 5,649,792
1919	1,724,078	11,490,880	1938	583,777	[1] 6,319,236
1926	3,083,130	7,510,432	1939	562,207	[1] 6,500,242
1927	2,372,333	8,054,835	1940	523,428	[1] 6,126,230
1928	1,903,887	7,004,612	1941	521,406	[1] 5,957,040
1929	1,705,858	7,638,340	1942	306,959	[1] 5,265,673
1930	1,097,255	4,955,138	1943	189,512	[1] 3,736,961
1931	614,250	3,392,465	1944 [2]	132,859	[1] 3,587,602
1932	406,089	2,639,125	1945	113,268	[1] 3,156,613
1933	408,192	3,662,250	1946 [3]	135,602	[1] 3,462,612
1934	416,308	3,477,063	1947	197,078	[1] 3,953,488
1935	620,038	4,416,709			

[1] Includes data for shakes.
[2] Data incomplete since mills idle during war were not canvassed for 1944 production.
[3] Incomplete; see table 812 for States canvassed.

No. 812.—Lath and Shingles—Production by States: 1943 to 1947

[**Lath in thousands and shingles in squares.** See headnote, table 811]

STATE	LATH				SHINGLES [1]			
	1943	1945	1946	1947	1943	1945	1946	1947
Alabama	1,663	(2)	534	(2)	1,198	(2)	5,048	----------
Arkansas	2,548	(2)	300	(2)	726	(2)	56	(2)
California	10,185	5,651	12,172	14,379	45,090	89,328	130,591	162,116
Florida	5,943	(2)	----------	(2)	6,215	(2)	254	(2)
Georgia	----------	----------	1,350	----------	2,763	(2)	68	(2)
Idaho	19,741	17,192	16,999	19,959	15,975	24,522	42,849	66,370
Louisiana	10,853	(2)	----------	(2)	3,228	----------	----------	----------
Maine	2,671	16,629	(3)	(2)	42,745	33,079	(3)	24,316
Michigan	2,759	(2)	(3)	(2)	12,928	(2)	(3)	(2)
Minnesota	1,818	5,543	(3)	(2)	714	(2)	(3)	(2)
Mississippi	4,715	(2)	300	(2)	115	----------	----------	----------
Montana	8,024	(2)	(2)	8,660	3,081	(2)	(2)	(2)
North Carolina	714	(2)	69	(2)	15,467	17,444	11,879	5,741
Oregon	43,439	25,394	46,701	61,439	656,329	686,337	804,950	918,709
South Carolina	264	(2)	40	----------	6,379	(2)	1,535	(2)
Texas	10,181	(2)	6,123	(2)	5,065	----------	1,956	465
Virginia	3,905	(2)	4,056	(2)	136	(2)	----------	----------
Washington	44,951	20,284	37,671	48,318	2,903,178	2,288,219	2,460,731	2,752,548
West Virginia	444	(2)	(3)	(2)	188	----------	(3)	----------
Wisconsin	9,864	(2)	(3)	7,423	9,504	(2)	(3)	4,130
All other	4,830	22,575	[4] 9,287	36,900	5,937	17,684	[4] 2,695	19,093

[1] Includes data for shakes.
[2] Included in "All other."
[3] *Not available.*
[4] Includes only Colorado, Montana, New Mexico, Oklahoma, South Dakota, Tennessee, Utah, and Wyoming. Other states not canvassed for lath and shingles production.

Source of tables 811 and 812: Department of Commerce, Bureau of Census (in cooperation with Department of Agriculture, Forest Service, and Tennessee Valley Authority); reports of Census of Manufactures and annual report, Lumber, Lath, and Shingle Production Facts for Industry Series M13G.

No. 813.—Veneer and Plywood—Log Consumption and Production: 1943 to 1949

[No later data for hardwood veneer and plywood; survey suspended]

Log consumption (M ft., log scale)			Veneer and plywood production		
Kind of wood	1943	1944	Type of veneer and plywood	1943	1944
Hardwood, total	934,860	885,960	**Hardwood veneer (M sq. ft., surface measure)**	9,870,597	9,270,351
Mahogany	26,252	23,004	Aircraft and boat	1,627,145	629,708
Sweet gum	261,534	240,962	Commercial	3,066,269	3,315,069
Black gum [1]	175,757	167,044	Container	5,177,183	5,325,574
Birch	76,350	63,692	**Hardwood plywood (M sq. ft., surface measure)**	1,211,814	1,166,243
Maple	60,418	58,183	Aircraft and boat	141,868	50,472
Yellow poplar	66,769	53,623	Commercial	563,930	625,662
Beech and elm	32,160	33,507	Container	506,016	490,109
Cottonwood and sycamore	49,727	55,462	*Softwood plywood (M sq. ft., 3/8″ equivalent)* [3]	1,495,168	1,484,889
All other woods [2]	185,893	190,483			
Softwood [3]	654,478	646,946		1948	1949
	1948	1949	Softwood plywood (M sq. ft., 3/8″ equivalent) [3]	1,053,883	[4] 1,864,345
Softwood [3]	857,722	[4] 859,700			

[1] Includes tupelo and magnolia.
[2] Includes a small quantity of softwoods reported by hardwood veneer and plywood producers.
[3] Principally Douglas fir.
[4] Preliminary.

Source: Department of Commerce, Bureau of the Census; Facts for Industry Series 16-3 and M13B.

No. 814.—Cooperage Stock—Production, by Kind: 1909 to 1947

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

Year and kind of wood	Staves (thousands)		Heading (thousand sets)	
	Tight	Slack	Tight	Slack
1909	379,231	2,029,548	20,691	140,234
1919	353,825	1,121,324	24,274	87,381
1927	324,127	961,782	26,445	59,337
1929	357,353	1,039,450	30,329	72,591
1931	204,624	537,177	20,090	43,375
1933	154,575	426,685	13,031	37,461
1935	221,619	439,970	15,259	35,992
1937	205,286	574,768	13,377	54,318
1939	182,431	526,315	14,277	46,465
1947 [2]	131,104	406,761	9,807	35,445
1939				
Douglas fir	19,573	26,018	1,445	1,639
Elm	(1)	35,977	(1)	7
Oak	90,451	(1)	5,337	(1)
Pine	46,637	199,337	3,412	34,776
Red gum	13,017	159,225	1,529	1,828
Spruce	2,977	38,140	1,341	5,275
Other	9,776	57,618	1,213	2,940

Class	1929	1935	1937	1939
Tight staves (thousands)	357,353	221,619	205,286	182,431
Whisky, spirit, and wine	16,292	60,887	65,629	48,724
Oil, tierce, and pork	185,801	83,503	76,915	60,274
Beer and ale	(1)	3,467	2,615	1,956
Other and not specified	155,260	73,762	60,127	71,477
Tight heading (thousand sets)	30,329	15,259	13,377	14,277
Whisky, spirit, and wine	1,381	4,371	2,910	1,991
Oil, tierce, and pork	21,195	4,865	4,241	4,520
Beer and ale	(1)	145	418	124
Other and not specified	7,753	5,878	5,808	7,642

[1] Not called for on schedule.
[2] Excludes small amount produced in other than cooperage stock and cooperage industries.

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

No. 815.—Pulpwood—Consumption by Mills and Mill Cost

[Data cover domestic and imported wood. Cost is f. o. b. pulp mill. See also *Historical Statistics*, series F 132, for data on consumption]

YEAR	Quantity, all kinds (cords)	COST		YEAR	Quantity, all kinds (cords)	COST		YEAR	Quantity, all kinds (cords)	COST	
		Total (1,000 dollars)	Average per cord			Total (1,000 dollars)	Average per cord			Total (1,000 dollars)	Average per cord
1899	1,086,310	9,838	$4.95	1927	6,750,935	95,452	$14.14	1939	10,816,466	84,539	$7.82
1909	4,001,607	34,478	8.62	1929	7,645,011	100,054	13.09	1940	13,742,958	109,740	7.99
1919	5,477,832	87,386	15.95	1931	6,722,766	73,524	10.94	1946	17,817,560	(1)	(1)
1921	4,557,179	91,589	20.10	1933	6,581,674	48,508	7.37	1947	19,714,229	(1)	(1)
1923	5,872,870	95,306	16.23	1935	7,628,274	58,244	7.64	1948	21,189,458	(1)	(1)
1925	6,093,821	94,340	15.48	1937	10,393,800	82,885	7.97	1949 [2]	19,918,766	(1)	(1)

KIND OF WOOD	TOTAL CONSUMPTION (CORDS)						
	1919	1929	1935	1937	1938	1939	1940
Total	5,477,832	7,645,011	7,628,274	10,393,800	9,193,991	10,816,466	13,742,958
Spruce:							
Domestic	2,313,419	2,074,267	1,755,112	2,010,720	1,447,457	1,567,643	2,045,519
Imported	873,795	1,029,913	625,462	826,528	832,295	906,806	963,195
Hemlock:							
Domestic	795,154	1,309,170	1,521,271	2,264,565	1,677,181	2,218,678	2,636,118
Imported		15,379		37,447	37,243		152,653
Yellow pine (southern)	234,463	1,036,272	1,785,228	2,658,949	3,261,404	3,834,644	5,013,478
Poplar:							
Domestic	180,160	329,466	333,773	441,401	324,868	354,125	489,866
Imported	158,220	157,829	54,283	90,365	95,758	123,148	108,809
Balsam fir:							
Domestic	181,840	317,552	298,812	320,715	321,984	283,506	388,577
Imported	106,974	45,412	54,313	71,447	65,302	74,705	83,609
Jack pine [3]	51,581	205,760	[4] 224,538	300,786	258,570	359,755	477,975
Beech, birch, and maple [4]	184,111	76,950	152,054	257,410	[3] 168,796	[3] 241,039	[3] 298,895
Tamarack (larch) [4]	44,042	51,835	9,587	8,945	9,937	8,450	11,324
Yellow poplar [4]	72,605	129,697	(5)	47,882	(5)	(5)	(5)
Gum [4]	30,355	39,685	29,299	[6] 25,967	47,967	[6] 47,370	(5)
White fir [4]	31,138	111,054	174,075	[3] 135,384	98,878	159,428	[3] 213,445
Other wood	44,894	153,485	317,675	329,898	315,101	318,155	584,560
Slabs and mill waste	175,081	561,285	292,792	565,391	231,160	319,014	274,935

[1] Data not available. [2] Preliminary. [3] Domestic and imported.
[4] Domestic only. [5] Included with "Other wood." [6] Red gum only.

Source: Department of Commerce, Bureau of the Census; reports of the Census of Manufactures; alternating with these reports, a series of reports for even-numbered years through 1940. See source, table 816, concerning later data.

No. 816.—Pulpwood—Consumption, by Kind of Wood: 1943 to 1949

[**Cords of 128 cu. ft. (rough wood basis).** Data cover domestic and imported wood. Comparable data for detail shown in table 815 not available]

KIND OF WOOD	1943	1944	1945	1946	1947	1948	1949 [1]
Total	15,644,500	16,757,400	16,911,861	17,817,560	19,714,229	21,189,458	19,918,766
Softwood, total	13,477,074	13,931,075	14,519,870	15,384,176	17,021,974	18,490,916	17,298,520
Spruce and fir	3,633,239	3,290,466					
Hemlock	2,081,609	2,246,833					
Pine	7,343,615	7,904,650	(2)	(2)	(2)	(2)	(2)
Western fir	243,891	260,643					
Western spruce	174,720	138,483					
Hardwoods, total	1,287,983	1,550,117	2,391,991	2,433,384	2,692,255	2,698,542	2,620,246
Aspen	687,486	661,710					
Yellow poplar	149,724	284,882					
Gum	66,617	160,166	(2)	(2)	(2)	(2)	(2)
Chestnut	384,156	434,982					
Birch		8,377					
Other woods [3]	641,838	988,873					
Saw mill waste	237,605	287,335					

[1] Preliminary. [2] Data by kind not available.
[3] Includes hardwoods and softwoods not classified by kind.

Source: Data for 1943, 1944 and the first 8 months of 1945 collected and compiled by War Production Board. Thereafter, compiled by Department of Commerce, Bureau of the Census. 1945-49 data published in Facts for Industry Series M14A and records.

No. 817.—Wood Pulp and Paper and Paperboard—Production: 1899 to 1949

[Tons of 2,000 pounds. See also *Historical Statistics*, series F 133-134]

YEAR	Wood pulp [1] (*old basis*)	Paper and paperboard (*old basis*)	YEAR	Wood pulp [1] (*old basis*)	Paper and paperboard (*old basis*)	Wood pulp (*new basis*) [2]	Paper and paperboard (*new basis*) [3]
1899	1,179,525	2,167,503	1937	6,572,918	12,837,003	----------	----------
1909	2,495,523	4,216,708	1939	6,993,334	13,509,642	----------	----------
1914	2,893,150	5,270,047	1940	8,851,740	14,483,709	8,959,559	----------
1919	3,517,952	6,098,530	1941	10,046,193	17,093,092	10,375,422	[4] 17,933,607
1921	2,875,601	5,431,265	1942	10,364,175	16,477,663	10,783,430	[4] 17,083,862
1923	3,788,672	8,029,482	1943	9,175,013	16,501,597	9,680,462	17,035,658
1925	3,962,217	9,182,204	1944	9,550,150	16,866,831	10,108,443	17,182,804
1927	4,313,403	10,002,070	1945	----------	----------	*10,167,200*	*17,370,265*
1929	4,862,885	11,140,235	1946	----------	----------	10,606,527	19,277,667
1931	4,409,334	9,381,840	1947	----------	----------	11,945,864	21,114,000
1933	4,276,204	9,190,017	1948	----------	----------	12,872,292	21,921,757
1935	4,925,669	10,479,095	1949	----------	----------	[5] 12,156,897	[5] 20,332,252

[1] Beginning 1914 includes screenings.
[2] Includes data for existing mills not classified as producers of pulp before 1940. In that year data for 6 mills not previously classified as producers of wood pulp were included for first time. For same reason, an additional mill was included in 1941, and 2 more added in 1943.
[3] Includes data for 25 existing mills not previously classified as producers of paper and paperboard.
[4] Includes estimated production of insulating board for 1 mill. Estimates were made on assumption that production of this mill was proportionately the same in 1941 and 1942 as in 1943. [5] Preliminary.

Source: Department of Commerce, Bureau of the Census; reports of Census of Manufactures; Census of Forest Products, 1940; and annual report, Census of Pulp Mills and of Paper and Paperboard Mills, Facts for Industry Series M14A and records.

No. 818.—Wood Pulp—Production, by States and by Process: 1909 to 1949

[Tons of 2,000 pounds]

STATE AND PROCESS	1909	1919	1929	1939	1946 [1]	1947 [1]	1948 [1]	1949 [1]
Total	2,495,523	3,517,952	4,862,885	6,993,334	10,606,527	11,945,864	12,872,292	12,156,897
Alabama	(2)	(2)	(2)	(2)	[3] 455,837	411,739		
Florida	(2)	(2)	(2)	449,162	694,594	783,258		
Louisiana	----------	(2)	246,590	589,672	989,366	1,128,727		
Maine	620,705	916,764	981,433	941,273	1,185,232	1,237,075		
Michigan	64,369	106,194	178,015	200,326	219,873	222,678		
Minnesota	37,295	129,560	189,664	160,665	318,605	392,254		
Mississippi	(2)	(2)	(2)	(2)	463,456	476,264		
New Jersey	(2)	(2)	(2)	(2)	62,700	68,620		
New Hampshire	212,599	232,134	212,774	(2)	177,434	174,137	(6)	(6)
New York	679,534	811,958	662,988	460,652	555,847	645,955		
North Carolina	(2)	(2)	(2)	179,636	[4] 923,926	(2)		
Pennsylvania	135,525	215,686	213,083	193,958	272,598	288,757		
Vermont	(2)	(2)	(2)	(2)	(2)	(2)		
Virginia	48,641	(2)	206,050	402,929	[5] 647,172	630,384		
Washington	(2)	83,575	523,948	1,126,114	1,332,940	1,591,229		
Wisconsin	324,509	506,549	733,617	655,816	889,139	922,732		
Other States	372,346	515,532	714,723	1,633,132	1,417,808	2,962,055		
ALL PROCESSES								
Groundwood	1,179,266	1,518,829	1,637,053	1,444,875	1,811,622	2,049,814	2,175,107	1,960,263
Defibrated, exploded, asplund fiber and similar grades [7]	----------	----------	----------	----------	761,544	693,282	744,671	651,405
Sulphite	1,017,631	1,449,829	1,681,511	1,946,452	2,476,468	2,795,962	2,811,216	2,536,385
Sulphate	----------	*120,378*	*918,084*	*2,962,657*	*4,588,016*	*5,356,710*	*6,013,696*	*5,972,056*
Soda	298,626	411,693	520,729	441,565	476,211	491,580	509,864	492,194
Semi-chemical, off quality, screenings and misc.	----------	47,223	104,908	197,785	492,666	558,516	617,738	544,594

[1] New basis, see table 817; 1949, preliminary.
[2] Included in "Other States" to avoid disclosing data for individual establishments.
[3] Includes Tennessee. [4] Includes South Carolina. [5] Includes Maryland.
[6] Data by States not available.
[7] These processes represent recent developments; production for 1939 and earlier years only a small proportion of total.

Source: Department of Commerce Bureau of the Census; reports of Census of Manufactures; annual report, Census of Pulp Mills and of Paper and Paperboard Mills, Facts for Industry Series M14A and records.

No. 819.—Paper and Board—Production By Type: 1946 to 1949

[Tons of 2,000 pounds. Production in 1946 and 1948 from special annual survey, in 1947 from Census of Manufactures, and in 1949 from monthly surveys]

TYPE OF PAPER	1946	1947	1948	1949 [1]
All types	19,277,667	21,114,000	21,921,757	20,332,252
Paper, total	8,751,854	9,415,909	9,800,029	9,237,501
Newsprint	772,797	833,038	875,760	910,747
Groundwood printing and specialty paper, total	[2] 775,779	[2] 821,318	[2] 808,110	[2] 806,744
Printing	473,620	546,008	544,593	582,564
Converting	252,006	240,924	233,133	190,942
Other	50,153	34,386	30,384	33,238
Book paper, total	[2] 1,933,428	[2] 2,207,923	[2] 2,338,671	[2] 2,153,813
Printing	1,458,003	1,696,570	1,836,569	1,606,070
Converting	457,062	498,368	484,262	533,577
Other	18,363	12,985	17,840	14,166
Fine paper, total	1,145,576	1,171,539	1,141,702	1,029,355
Writing, total	991,670	918,349	908,890	794,644
Rag (including index)	175,514	174,110	138,292	128,258
Chemical wood pulp	726,156	744,239	770,598	666,386
Cover and text	93,352	93,178	71,744	65,169
Bristols (except rag index)	82,414	86,801	88,136	82,118
Thin	64,961	73,211	72,932	64,918
Other	3,179	----------	----------	22,506
Coarse paper, total	2,690,490	2,903,450	3,024,846	2,834,444
Glassine, greaseproof and vegetable parchment	158,251	156,310	135,291	125,181
Wrapping, total	763,193	667,028	732,935	798,122
Unbleached kraft	348,862	346,026	370,385	416,005
Other	414,331	321,002	362,550	382,117
Bag, total	523,633	539,864	685,621	667,951
Unbleached kraft	492,120	495,665	653,046	623,065
Other	31,513	44,199	32,575	44,886
Shipping sack	550,374	670,889	616,776	470,826
Converting, total	695,039	869,359	854,223	772,364
Unbleached kraft	----------	598,229	596,165	394,332
Other	----------	271,130	258,058	378,032
Special industrial	286,478	289,499	315,900	272,938
Sanitary	860,658	894,032	982,644	952,608
Tissue	183,837	194,624	205,095	197,671
Absorbent	102,811	100,486	107,301	79,181
Paperboard, total	8,396,233	9,186,810	9,368,774	8,984,839
Liners	2,794,108	3,293,234	3,436,305	3,014,565
Corrugating material	1,234,340	1,370,492	1,372,691	1,352,579
Container chip and filler board	286,490	279,968	269,933	268,962
Folding boxboard (for use in folding box plants only)	2,317,496	2,256,691	2,182,354	2,054,883
Set-up boxboard (for use in set-up box plants only)	520,772	594,755	595,927	596,859
Cardboard	89,310	91,858	86,790	71,466
All other paperboard	1,153,717	1,299,812	1,424,774	1,625,525
Wet machine board, total	137,583	149,800	134,285	119,621
Shoe board	65,565	55,195	51,077	39,040
Binder board	55,697	52,596	39,146	37,625
Other	16,321	42,009	44,062	42,956
Construction paper materials, total	1,991,997	2,361,481	2,618,669	1,990,291
Building paper (including flexible fibre insulation)	1,035,639	1,289,109	1,348,321	1,099,960
Building board	956,358	1,072,372	1,270,348	890,331

[1] Preliminary.
[2] Data for paper-machine coated paper included in book paper.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and annual report, Census of Pulp Mills and of Paper and Paperboard Mills, Facts for Industry Series M14A.

No. 820.—Turpentine and Rosin—Production, 1899 to 1949, and by States, 1945 to 1949

[See also *Historical Statistics*, series F 137-142]

Year [1]	Turpentine (barrels of 50 gallons)			Rosin (drums 520 lbs. net)		
	Total	From gum [2]	From wood [3]	Total	From gum [2]	From wood [3]
1899	754,670	754,670	(4)	1,947,946	1,947,946	(4)
1904	622,585	613,741	8,844	1,571,739	1,571,739	(4)
1909	[5] 594,283	579,779	14,137	1,462,208	1,462,208	(4)
1914	[5] 552,979	539,620	11,511	[5] 1,319,328	1,292,514	23,218
1919	384,563	353,877	30,687	1,015,774	910,928	104,846
1929-30	718,802	626,417	92,385	1,963,349	1,580,505	382,844
1932-33	575,131	[6] 501,000	[7] 74,131	1,658,664	[6] 1,362,720	295,944
1933-34	624,761	[6] 526,000	[7] 98,761	1,837,870	[6] 1,430,448	407,422
1934-35	603,093	[6] 510,000	[7] 93,093	1,783,298	[6] 1,387,200	396,098
1935-36	602,908	497,000	105,908	1,821,193	[8] 1,360,950	460,243
1936-37	634,520	482,787	151,733	1,865,569	[8] 1,286,347	579,222
1937-38	700,331	518,454	181,877	2,049,573	[8] 1,388,343	661,230
1938-39	709,218	534,291	174,927	2,089,913	[8] 1,466,344	623,569
1939-40	604,778	382,781	221,997	1,835,177	[8] 1,054,236	780,941
1940-41	566,341	343,938	222,403	1,717,492	[8] 938,911	778,581
1941-42	548,796	285,050	263,746	1,708,474	[8] 791,710	916,764
1942-43	560,351	321,930	238,421	1,655,803	[8] 868,698	787,105
1943-44	508,432	288,382	220,050	1,462,831	[8] 783,565	679,266
1944-45	471,243	245,194	226,049	1,317,912	[8] 692,212	625,700
1945-46	488,131	244,252	243,879	1,452,036	[8] 694,476	757,560
1946-47	569,985	270,286	299,699	1,720,248	[8] 752,535	967,713
1947-48	640,903	294,028	346,875	1,990,831	[8] 828,128	1,162,703
1948-49	659,140	324,330	334,810	2,076,110	[8] 921,220	1,154,890

State	Production from crude gum [1]							
	Turpentine (barrels of 50 gallons)				Rosin (drums 520 lbs. net) [9]			
	1945-46	1946-47	1947-48	1948-49	1945-46	1946-47	1947-48	1948-49
Alabama	13,735	10,082	20,219	21,860	38,550	29,391	56,841	61,438
Florida	43,986	57,800	65,871	59,300	123,537	159,160	184,527	167,809
Georgia	180,715	197,005	205,060	241,370	507,526	542,364	575,001	682,241
Mississippi	3,099	2,795	734	1,800	8,711	7,664	1,648	5,502
Louisiana	910	877	1,166		2,538	2,381	3,295	
South Carolina	1,807	1,127	978		5,076	3,125	2,471	

[1] Figures for turpentine and rosin from crude gum, beginning 1929-30, and from wood beginning 1933-34, relate to crop year ended Mar. 31. All other figures relate to calendar years.
[2] Figures compiled from data reported by establishments in Turpentine and Rosin industry.
[3] Figures compiled from data reported by establishments in Wood-Distillation industry.
[4] Not reported.
[5] Includes, for 1909 and 1914, 366 barrels and 1,848 barrels respectively, of turpentine and, for 1914, 3,596 drums of rosin, reported by establishments engaged in manufacture of lumber and timber products.
[6] Estimated by J. E. Lockwood; complete data not available. Figures include estimates of rosin produced from reclaimed gum, as follows: 1932-33, 26,720 drums; 1933-34, 28,048; 1934-35, 27,200.
[7] Includes estimates by J. E. Lockwood for production of turpentine from steam-distilled wood.
[8] Includes data for rosin produced from reclaimed gum: For 1935-36, 43,350 drums; 1936-37, 34,155; 1937-38, 21,017; 1938-39, 31,983; 1939-40, 31,414; 1940-41, 20,181; 1941-42, 19,765; 1942-43, 11,297; 1943-44, 9,824; 1944-45, 8,066; 1945-46, 8,538; 1946-47, 8,449; 1947-48, 4,345; 1948-49, 4,230.
[9] Figures do not include data for rosin produced from reclaimed gum. See note 8.

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

27. Fisheries

The Fish and Wildlife Service, Branch of Commercial Fisheries in the Department of the Interior, conducts annual surveys for various statistical information on the fishery industries. These data are published in greater detail in publications of the Service and include data on the volume of the catch of individual species of fish and shellfish and their value, employment in the fisheries, quantity of gear operated, the number of fishing and transporting craft employed in the capture and transporting of fishery products, employment in wholesale and manufacturing establishments, and volume and value of the production of manufactured fishery products. In addition to the basic statistics on employment, yield, and the production of manufactured fishery products for individual States and various geographical sections, there are included in reports data on imports and exports of fishery commodities; landings by fishing craft at Boston, Gloucester, New Bedford, and on Cape Cod, Massachusetts; at Maine ports; and Seattle, Washington; shad fisheries of the Hudson and Potomac Rivers; alewife fishery in the Potomac; seed oyster fisheries; a review of the Pacific Coast halibut fishery; a statement on whaling operations by United States firms; data on the sponge fishery; and lists of firms producing various manufactured fishery products. These data are summarized in the *Statistical Abstract*. The more detailed information may be obtained from the Fish and Wildlife Service, Washington 25, D. C.

Historical statistics.—In this section, tabular headnotes (as "See also *Historical Statistics*, series F 166–192") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789–1945*. In that historical supplement to the *Statistical Abstract*, statistics are carried back year by year as far as possible. See also the historical appendix of the present issue of the *Abstract* for specific titles of series and the earliest year shown in the supplement.

No. 821.—Fisheries—Summary of Total Catch and Value: 1930 to 1949

[Includes Alaska beginning with 1941, data partly estimated. See also *Historical Statistics*, series F 155]

YEAR	Quantity (1,000 pounds)	Value to fishermen (1,000 dollars)	YEAR	Quantity (1,000 pounds)	Value to fishermen (1,000 dollars)
1930	3,286,580	100,349	1943	4,202,281	204,029
1932	2,634,704	55,532	1944	4,500,000	213,000
1937	4,352,549	100,846	1945	4,575,500	269,900
1938	4,253,445	93,547	1946	4,455,600	310,000
1939	4,443,328	96,532	1947 (prel.)	4,374,000	307,000
1940	4,059,524	98,957	1948 (prel.)	4,575,000	367,000
1941	5,080,341	134,172	1949 (prel.)	4,750,000	325,000
1942	3,876,524	170,338			

No. 822.—Fisheries—Catch, by Sections

[See also *Historical Statistics*, series F 166–192, for data on quantity of catch]

SECTION	Year	Fishermen	Fishing vessels	Fishing boats	CATCH	
					Quantity	Value to fishermen
		Number	*Number*	*Number*	*1,000 pounds*	*1,000 dollars*
New England States	1947	25,355	939	14,120	802,593	56,179.3
Middle Atlantic States	1947	15,423	591	6,730	612,405	28,328.7
Chesapeake Bay States	1947	18,940	459	12,934	408,015	28,332.6
South Atlantic and Gulf States	1945	[1] 29,697	[1] 1,735	[1] 16,371	746,027	54,330.0
Pacific Coast States	1947	30,373	2,714	7,654	1,043,024	93,766.1
Great Lakes States	1947	[2] 5,142	[2] 499	[2] 1,785	69,801	10,736.9
Mississippi River States	1931	15,884	----------	14,546	82,382	2,897.3
Alaska	1947	12,242	1,724	4,127	613,810	28,690.6

[1] Data for Florida for 1940. [2] Data for 1940.

Source of tables 821 and 822: Department of the Interior, Fish and Wildlife Service; annual bulletins.

No. 823.—Fisheries—Quantity and Value of Catch, by Sections and States: 1880 to 1947

[Values represent the value of fish to fishermen]

Calendar year	New England states					
	Total		Maine		New Hampshire	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	----------	12,503.0	----------	2,742.6	----------	170.6
1902	534,075	12,406.3	242,390	2,918.8	1,593	50.0
1908	530,029	15,130.0	173,843	3,257.0	677	53.0
1919	467,340	19,838.7	147,956	3,889.0	529	92.7
1929	694,286	29,072.5	162,939	4,897.2	378	52.1
1930	701,351	27,493.5	143,824	4,329.4	1,069	69.1
1935	655,430	17,983.6	112,219	3,309.2	354	61.6
1940	626,054	20,493.7	88,088	2,606.4	788	105.2
1944	713,692	41,909.6	161,285	7,053.2	1,673	322.4
1945	845,471	56,589.0	184,425	12,499.1	1,549	487.7
1946	805,563	62,071.9	195,955	14,142.0	[1] 1,549	[1] 487.7
1947	802,593	56,179.3	220,868	12,870.0	707	298.4

Calendar year	Massachusetts		Rhode Island		Connecticut	
1880	----------	7,959.8	----------	696.8	----------	933.2
1902	230,646	6,482.4	21,614	1,155.7	37,832	1,799.4
1908	244,313	7,095.0	44,254	1,752.0	66,942	2,982.0
1919	246,951	10,859.7	48,251	3,296.6	23,653	1,700.6
1929	447,689	18,052.5	28,401	2,435.3	54,879	3,635.4
1930	442,474	16,289.1	25,972	2,287.3	88,012	4,518.6
1935	503,417	12,147.9	24,524	1,247.9	14,916	1,217.0
1940	510,938	15,755.8	12,060	966.2	14,180	1,060.2
1944	520,539	31,441.0	15,787	1,797.8	14,408	1,295.1
1945	625,878	39,643.3	20,525	2,376.9	13,094	1,582.0
1946	572,936	43,264.4	18,929	2,533.7	16,194	1,644.1
1947	543,110	38,703.6	21,436	2,452.7	16,472	1,854.6

Calendar year	Middle Atlantic states									
	Total		New York		New Jersey		Pennsylvania		Delaware	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	408,202	8,677.0	329,453	4,225.7	65,151	3,176.6	1,680	277.0	11,918	997.7
1901	357,888	9,104.7	228,092	3,894.3	117,931	4,755.5	6,030	251.5	5,835	203.4
1908	221,450	8,280.0	71,474	4,390.0	74,827	3,069.0	4,380	280.0	70,769	541.0
1921	332,932	11,667.4	210,377	4,986.9	96,937	5,983.4	595	44.6	25,023	652.4
1930	193,868	13,063.7	45,495	4,933.7	97,275	7,474.4	17	2.8	51,081	652.8
1935	279,438	6,415.7	84,939	3,135.4	107,802	2,844.3	31	5.7	86,666	430.4
1940	355,553	7,651.0	91,959	4,216.2	160,554	2,956.9	23	2.4	103,017	475.4
1944	422,980	21,329.9	102,632	11,523.7	166,051	8,271.2	--------	--------	154,297	1,535.0
1945	494,193	23,224.2	117,548	10,052.7	207,647	11,062.5	--------	--------	168,998	2,109.0
1946	141,058	14,126.9	141,058	14,126.9	--------	--------	--------	--------	--------	--------
1947	612,405	28,328.7	136,062	18,204.3	240,092	9,783.1	--------	--------	235,351	5,341.3

Calendar year	Chesapeake Bay states					
	Total		Maryland		Virginia	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	254,587	8,346.2	95,713	5,221.7	158,875	3,124.4
1901	461,159	8,380.8	82,975	3,767.5	378,183	4,613.4
1908	426,311	8,022.0	113,796	3,306.0	312,515	4,716.0
1920	530,750	12,740.4	59,531	4,198.7	471,219	8,541.7
1930	316,393	11,472.0	71,099	3,984.7	245,294	7,487.3
1935	265,827	5,524.5	48,235	2,003.6	217,592	3,520.9
1940	320,736	7,456.4	51,085	2,598.6	269,651	4,857.9
1944	267,391	19,823.2	51,563	7,377.0	215,828	12,446.2
1945	304,463	30,363.2	51,676	8,844.9	252,787	21,518.3
1946	359,946	27,198.8	60,110	8,636.5	299,836	18,562.3
1947	408,015	28,332.6	59,712	8,134.3	348,303	20,198.3

Calendar year	South Atlantic states									
	Total		North Carolina		South Carolina		Georgia		Florida (east coast only)	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	42,952	1,256.6	32,249	845.7	6,143	212.5	2,272	120.0	2,287	78.4
1902	106,446	2,839.6	67,585	1,739.7	8,174	263.0	11,103	359.1	19,584	477.9
1908	166,875	4,034.0	101,422	1,776.0	14,104	288.0	14,828	701.0	36,521	1,269.0
1918	332,614	5,348.6	210,502	2,978.7	3,747	207.7	37,154	416.0	81,211	1,746.2
1928	262,118	6,196.2	141,899	2,629.2	7,432	316.8	42,069	866.3	70,718	2,383.9
1934	261,080	3,624.1	163,462	1,672.2	5,891	225.3	27,141	359.5	64,586	1,367.1
1940	325,515	4,064.1	170,581	1,864.6	9,446	265.8	12,672	380.6	132,816	1,553.1
1945	404,946	15,132.6	198,169	5,495.2	10,855	809.3	21,398	1,350.0	174,524	7,388.1

[1] Data are for 1945.

No. 823.—Fisheries—Quantity and Value of Catch, by Sections and States: 1880 to 1947—Continued

Calendar year	Gulf states: Total		Florida (west coast only)		Alabama	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	23,561	1,227.5	8,376	564.8	3,542	119.3
1902	113,697	3,494.2	48,120	1,462.2	9,351	266.7
1908	118,274	4,860.0	37,566	2,120.0	10,665	387.0
1918	130,924	6,510.3	54,754	3,420.4	5,609	230.5
1928	191,007	9,866.3	61,121	3,866.5	14,466	586.8
1930	141,953	6,794.9	53,525	3,001.4	7,113	315.5
1934	186,834	6,369.6	54,215	2,267.6	7,964	253.4
1940	250,018	10,580.8	54,676	3,451.6	11,344	561.9
1945	341,081	39,197.4	69,322	11,447.9	15,137	2,443.3

Calendar year	Mississippi		Louisiana		Texas	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880	788	22.5	6,996	392.6	3,859	128.3
1902	23,427	553.2	24,754	858.3	8,044	353.8
1908	17,302	459.0	42,302	1,448.0	10,439	446.0
1918	20,592	762.8	24,954	1,419.4	25,015	677.2
1928	30,701	1,060.1	69,507	3,477.9	15,212	875.0
1930	15,736	740.1	49,886	1,960.4	15,693	777.5
1934	22,153	652.3	76,633	2,284.6	25,869	911.7
1940	38,002	623.1	126,627	4,951.5	19,369	992.7
1945	70,787	1,711.4	163,902	20,485.7	21,933	3,109.1

Calendar year	Pacific coast states: Total		Washington		Oregon		California		Alaska	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1888	87,043	4,010.0	20,468	811.0	26,048	734.0	40,527	2,465.0	----------	----------
1899	206,911	6,278.6	119,340	2,871.4	22,752	855.7	64,819	2,551.5	----------	----------
1908	193,056	6,839.0	111,356	3,513.0	28,221	1,356.0	53,479	1,970.0	----------	----------
1915	304,796	9,306.0	170,594	5,321.0	34,693	1,479.0	99,509	2,506.0	----------	----------
1925	627,025	24,580.5	139,457	9,476.4	40,008	3,442.4	447,560	11,661.7	616,136	9,860.7
1930	833,389	23,064.1	110,039	8,334.8	26,459	2,256.3	696,891	12,473.0	620,702	12,755.6
1935	1,676,236	23,088.8	124,086	6,328.7	85,392	2,076.8	1,466,758	14,683.3	648,710	9,093.2
1940	1,456,281	29,578.0	111,632	6,676.3	54,203	2,741.8	1,290,446	20,159.9	563,688	10,612.1
1944	1,667,695	59,794.6	154,402	16,559.3	71,026	7,936.3	1,442,267	35,299.0	561,199	20,413.5
1945	1,428,278	62,694.3	196,136	18,154.6	72,774	7,507.3	1,159,369	37,032.4	596,052	22,288.1
1946	1,161,882	76,020.9	182,794	23,636.8	74,299	7,701.1	904,789	44,683.0	651,446	28 8 6.3
1947	1,043,024	93,766.1	172,908	23,806.9	78,680	9,766.6	791,436	60,192.6	613,810	28,690.6

Calendar year	Great lakes [2]: Total [3]		Lake Superior		Lake Michigan		Lake Huron		Lake Erie	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1885	99,842	2,691.9	8,826	291.5	23,518	878.8	11,457	276.4	51,457	1,109.1
1899	113,727	2,611.4	5,430	150.9	34,500	876.7	12,418	308.1	58,394	1,150.9
1908	106,631	3,768.0	10,198	342.0	40,019	1,554.0	12,932	486.0	41,922	1,280.0
1917	104,269	6,295.0	15,447	726.7	35,461	2,270.9	13,363	857.5	38,710	2,327.3
1927	81,327	6,794.9	15,302	918.1	23,681	2,354.8	15,711	1,444.4	23,796	1,831.3
1930	94,948	6,050.3	14,694	695.3	30,973	2,159.0	16,377	1,319.9	29,540	1,655.5
1935	90,223	5,944.9	17,874	940.6	25,089	1,942.6	13,676	1,224.1	30,357	1,643.6
1940	79,296	5,623.4	20,672	904.4	22,814	2,049.5	9,099	679.9	22,944	1,772.0
1944	75,688	10,948.2	19,245	2,246.4	19,252	4,341.9	6,432	831.7	28,837	3,320.0
1945	78,643	13,800.1	18,725	2,574.0	22,090	5,570.9	7,475	1,129.0	28,031	4,266.9
1946	78,334	11,677.9	17,848	2,218.9	22,392	3,907.4	7,147	842.2	29,121	4,489.2
1947	69,801	10,736.9	14,987	1,673.6	24,958	3,875.8	8,034	1,153.2	19,818	3,812.6

[2] Collected for most part by State fishery agencies and compiled by Fish and Wildlife Service since 1927.
[3] Includes, in addition to lakes shown, small amounts for Lake Ontario and also prior to 1927, Lake St. Clair and St. Clair and Detroit Rivers and beginning 1927, Lake-of-the-Woods, Namakan Lake, and Rainy Lake.

No. 823.—Fisheries—Quantity and Value of Catch, by Sections and States: 1880 to 1947—Continued

MISSISSIPPI RIVER AND TRIBUTARIES

CALENDAR YEAR	Total		TRIBUTARY	1922		1931	
	1,000 pounds	*1,000 dollars*		*1,000 pounds*	*1,000 dollars*	*1,000 pounds*	*1,000 dollars*
1894	44,545	1,384.6	Arkansas	2,034	136.3	[4] 777	[4] 49.9
1899 [4]	96,707	1,781.0	Atchafalaya	4,579	254.7	9,231	523.1
1903 [4]	93,374	1,841.2	Cumberland	728	14.7	106	13.0
1908 [4]	148,284	3,125.0	Illinois [5]	12,661	617.3	5,985	159.7
1922	105,734	4,503.5	Missouri [5]	1,232	105.2	1,051	94.3
1931	82,382	2,897.3	Ohio River and minor tributaries	7,458	379.1	1,221	96.5
	Mississippi and minor tributaries		Red [5]	6,677	324.5	6,417	277.4
			St. Francis [5]	3,684	108.9	2,173	65.6
			Tennessee [5]	4,990	98.3	5,222	75.0
			Wabash [5]	12,063	357.8	8,388	152.0
1894	21,242	587.8	White (Missouri and Arkansas) [5]	14,662	405.9	12,363	256.7
1899	68,604	823.0	Yazoo	1,022	55.6	[5] 1,311	[5] 57.8
1903	53,851	1,157.4					
1922	33,945	1,645.3					
1931	28,139	1,076.3					

[4] Excluding Atchafalaya River. [5] Including tributaries.

No. 824.—Fisheries—Catch of Principal Species: 1931 to 1948

[In thousands of pounds. Includes Alaska]

GROUP AND SPECIES	1931	1939	1942	1943	1944	1945	1946	1947	1948 [1]
FISH									
Cod	112,303	124,347	73,456	71,643	(2)	153,027	103,200	72,382	58,000
Haddock	182,561	170,975	145,687	125,693	142,692	154,988	155,035	166,371	160,000
Herring, sea	169,574	262,810	146,779	154,545	(2)	236,919	283,911	320,622	364,000
Mackerel	61,645	113,503	103,628	134,308	(2)	112,300	105,956	105,281	(2)
Menhaden	230,398	575,480	474,821	615,554	685,980	778,464	851,129	987,981	1,008,000
Pilchard or sardine	300,204	1,240,975	974,680	986,563	1,135,582	849,971	530,994	272,236	373,000
Salmon	601,095	526,978	508,598	500,613	430,997	498,892	478,257	498,048	(2)
Tuna and tunalike	60,059	182,165	121,791	130,043	170,053	185,925	222,178	260,608	326,000
Rosefish	237	78,206	128,107	114,744	(1)	131,834	178,152	146,537	238,000
SHELLFISH									
Crabs	83,701	109,414	(2)	(2)	(2)	121,050	(2)	(2)	(2)
Shrimp	99,432	150,250	(2)	(2)	(2)	191,345	(2)	(2)	(2)
Oysters	101,036	93,006	(2)	(2)	(2)	75,655	(2)	(2)	(2)
Whale products	--------	5,159	806	496	99	----------	--------	820	(2)

[1] Preliminary.
[2] Complete data not available.

No. 825.—Fisheries—Disposition of Domestic Catch: 1943 to 1949

[Includes Alaska. A large portion of waste derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil in addition to whole fish used in manufacture of these products. About 600,000,000 pounds of waste were used in production of meal and oil each year shown. See also *Historical Statistics*, series F 155–159]

FORM MARKETED	ROUND WEIGHT OF CATCH (millions of pounds)						
	1943	1944	1945	1946	1947	1948 [1]	1949 [1]
Total	4,202	4,500	4,576	4,456	4,374	4,575	4,750
Fresh and frozen	1,547	1,585	1,847	1,711	1,575	1,668	1,611
Canned	1,150	1,225	1,230	1,220	1,384	1,459	1,626
Cured	105	110	110	115	100	100	95
Byproducts, bait, etc	1,400	1,580	1,389	1,410	1,315	1,348	1,418

[1] Preliminary.

Source of tables 823, 824, and 825: Department of the Interior, Fish and Wildlife Service; annual bulletins.

No. 826.—Landings by Fishing Craft at Principal Atlantic Ports: 1942 to 1948

[See also *Historical Statistics*, series F 193, 195]

Port and year	Total, all species	Cod	Haddock	Hake	Pollock	Cusk	Whiting	Mackerel	Rosefish	Flounders	Miscellaneous
	Quantity (thousands of pounds)										
Boston:											
1942	194,687	35,410	100,199	1,730	10,613	1,866	11,400	14,130	9,949	7,338	2,052
1943	142,975	28,760	74,845	1,676	6,131	1,164	7,672	9,781	5,087	5,896	1,963
1944	153,123	43,108	73,692	1,669	6,983	877	5,295	14,274	2,033	4,163	1,029
1945	188,161	72,895	66,354	1,123	10,300	281	9,958	17,725	1,377	6,908	1,240
1946	158,595	35,722	71,473	2,263	13,077	411	6,776	14,139	5,219	8,047	1,468
1947	202,663	34,409	107,465	3,536	8,031	572	10,231	13,321	10,526	11,581	2,991
1948	199,980	34,710	105,308	3,462	17,684	1,077	11,428	3,473	11,383	9,153	2,302
Gloucester:											
1942	157,741	6,353	7,830	1,479	13,883	548	15,611	14,257	91,285	6,139	356
1943	170,099	11,428	14,939	2,254	9,928	503	13,431	26,919	83,992	4,211	2,494
1944	192,710	19,965	16,156	5,193	10,141	680	9,850	33,545	91,582	4,216	1,382
1945	213,498	25,797	21,786	11,544	15,792	773	16,830	11,890	102,038	4,830	2,218
1946	217,968	16,898	16,188	4,286	18,393	844	8,857	15,498	130,900	3,989	2,115
1947	163,713	8,276	12,692	2,524	5,569	487	9,126	24,011	95,357	2,115	3,556
1948	251,113	7,697	11,162	3,323	9,205	793	13,693	19,886	176,801	2,737	5,816
New Bedford:											
1942	57,884	2,956	4,787	56	83	1	17	3,346	54	0,874	5,759
1943	62,164	5,816	7,926	860	136	1	97	6,330	3	3,614	7,384
1944	74,936	8,211	22,466	2,174	223	(1)	135	6,196	72	7,580	7,944
1945	101,363	10,708	34,427	5,913	1,131	2	101	12,076	152	8,799	8,131
1946	90,324	11,568	33,020	323	1,394	2	8	2,252	195	31,364	10,198
1947	73,115	3,914	15,389	2,520	123	1	355	4,456	498	34,499	11,360
1948	77,572	6,330	11,410	4,345	880	3	60	1,683	350	40,958	12,063
Provincetown and Cape Cod:											
1945	43,418	3,615	4,420	537	685	85	19,243	4,262	53	5,905	4,613
1946	40,970	3,765	5,558	477	1,249	56	14,520	4,868	764	5,512	4,201
1947	34,566	3,006	3,251	536	534	52	14,422	2,580	216	5,183	4,786
1948	44,455	2,767	2,340	362	457	72	16,766	8,897	517	4,313	7,964
New York City:											
1942	26,945	2,118	7,136	224	94	(1)	673	471	17	10,443	5,769
1943	22,121	1,870	8,007	320	100	1	1,073	759	7	5,895	4,089
1944	19,143	1,505	7,467	173	94	------	226	365	------	3,567	5,746
1945	16,596	1,006	7,788	232	142	------	227	91	------	3,517	3,693
1946	18,015	1,486	7,530	109	149	(1)	98	375	------	3,270	4,998
1947	10,778	740	4,111	108	58	------	31	210	------	2,388	3,132
1948	13,998	802	1,773	77	81	------	------	58	------	3,042	8,165
	Value (thousands of dollars)										
Boston:											
1942	12,548.7	2,100.1	6,910.3	135.3	644.2	119.0	584.8	870.1	359.7	484.2	341.0
1943	12,603.6	2,595.4	7,004.3	139.2	507.9	91.3	342.6	762.0	249.4	482.8	427.8
1944	10,685.4	2,083.9	5,634.5	112.7	381.1	56.6	215.4	799.7	84.0	296.6	120.9
1945	13,780.6	5,198.8	5,224.7	81.0	622.6	19.0	449.4	1,563.5	55.4	430.3	144.9
1946	13,725.3	2,785.4	7,392.9	156.6	564.2	25.3	304.5	1,108.6	237.7	667.5	482.5
1947	14,973.4	2,344.9	8,547.6	223.5	368.9	33.4	434.7	783.7	478.3	1,035.8	722.6
1948	16,182.5	2,680.7	9,765.8	246.6	794.1	62.5	501.8	256.8	497.6	907.3	469.3
Gloucester:											
1942	6,083.9	423.0	486.6	69.0	767.9	22.6	635.4	683.0	2,740.3	252.8	13.3
1943	9,046.5	990.8	1,300.9	153.3	551.7	33.6	562.5	1,616.9	3,399.0	298.3	139.5
1944	9,260.5	1,362.6	1,215.1	256.4	507.8	41.0	388.7	1,483.3	3,560.8	279.1	165.7
1945	11,183.9	1,813.3	1,744.5	401.8	832.3	46.5	742.5	925.2	3,956.8	311.5	409.0
1946	10,822.3	1,146.8	1,260.8	200.2	714.2	46.1	374.5	753.7	5,839.6	251.1	235.4
1947	7,636.0	433.9	881.0	93.4	205.3	17.7	371.8	1,121.3	4,199.7	114.4	197.5
1948	11,234.9	454.9	805.7	138.9	329.6	33.8	577.1	1,038.6	7,405.7	184.4	266.2
New Bedford:											
1942	4,552.8	212.7	352.1	1.6	5.0	(1)	.5	177.9	(1)	1,994.5	1,808.5
1943	5,979.9	452.6	628.9	32.1	8.8	(1)	3.5	566.8	------	2,506.3	1,780.9
1944	6,281.1	576.7	1,682.4	53.2	11.3	(1)	4.9	313.1	(1)	2,026.4	1,613.1
1945	8,600.8	775.5	2,654.6	122.3	72.1	(1)	3.7	1,032.8	.6	2,302.0	1,637.2
1946	12,241.4	930.4	2,951.2	21.1	84.1	(1)	(1)	177.4	8.6	2,874.3	5,194.0
1947	10,417.3	279.7	1,155.3	37.0	4.7	(1)	7.2	198.7	14.5	3,347.5	5,372.8
1948	11,772.5	459.0	1,000.9	61.2	15.0	(1)	.9	127.9	14.3	4,605.3	5,488.0
Provincetown and Cape Cod:											
1945	2,294.6	260.5	320.1	34.7	30.8	5.0	525.0	284.3	2.1	430.8	401.3
1946	2,399.7	310.6	462.0	24.9	56.0	2.3	337.4	360.1	32.5	418.1	395.8
1947	2,432.2	235.5	251.9	22.0	24.3	1.4	335.0	159.9	7.9	449.9	944.3
1948	3,332.9	230.3	213.4	15.0	19.4	2.3	396.3	933.4	17.6	479.4	1,024.9

1 Less than 500 pounds or $500.

Source: Department of Interior, Fish and Wildlife Service; annual bulletins.

No. 827.—Canned Fishery Products, Fish Meal, and Fish Oil—Production and Value: 1937 to 1948

[Includes Alaska]

YEAR	Canned		Scrap and meal		Oil (except vitamin)		Vitamin oil
	1,000 pounds	*1,000 dollars*	*Tons*	*1,000 dollars*	*1,000 gallons*	*1,000 dollars*	*1,000 dollars*
1937	717,270	105,175	219,942	7,566	31,391	12,695	2,204
1938	649,413	83,446	205,216	7,418	30,445	9,876	2,476
1939	688,277	96,628	226,102	9,094	29,069	8,601	4,472
1940	681,194	94,182	193,244	7,834	18,250	5,632	5,088
1941	885,962	138,684	236,844	13,096	22,016	11,893	14,872
1942	660,549	144,997	171,080	11,626	19,549	12,518	10,372
1943	620,880	141,189	190,403	13,629	22,264	14,971	14,842
1944	658,660	152,914	212,000	15,200	27,324	17,771	13,237
1945	646,386	152,801	200,675	14,405	23,698	16,034	11,202
1946	699,378	227,629	199,621	20,439	19,135	21,223	13,619
1947	754,133	310,680	186,440	22,380	15,900	20,107	11,643
1948	782,208	336,181	199,519	23,087	16,343	18,476	12,508

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

No. 828.—Canned Fishery Products—Production and Value: 1933 to 1948

[Includes Alaska. See also *Historical Statistics*, Series F 200-209, for total fishery products, salmon, sardines, and tuna and tunalike fishes]

YEAR	Total	Salmon	SARDINES		Tuna and tuna like fishes	Mackerel	Shrimp	Clam products	Oysters	Other
			Maine	Calif.						
	Quantity (thousands of pounds)									
1933	518,996	305,398	19,912	69,275	31,976	33,686	24,201	10,239	5,222	19,087
1934	681,304	402,386	23,197	88,652	43,567	57,394	16,974	16,392	6,578	26,164
1935	647,642	289,339	33,614	108,902	55,691	81,550	18,230	16,674	7,513	36,129
1936	769,573	430,328	37,471	117,744	59,506	55,658	15,366	19,123	7,931	26,446
1937	717,270	362,642	34,100	126,560	69,522	37,837	21,523	19,577	10,634	34,866
1938	649,413	349,427	13,634	101,776	60,945	43,453	18,113	19,312	7,237	35,516
1939	688,277	287,621	44,872	139,864	79,695	40,023	20,651	24,515	9,080	41,956
1940	*681,194*	*269,040*	*22,690*	*132,565*	*91,144*	*63,985*	*16,744*	*24,257*	*9,668*	*51,101*
1941	885,962	375,918	63,565	225,322	61,563	42,075	16,468	25,271	9,190	66,590
1942	660,549	280,080	55,219	168,508	52,500	32,454	14,450	21,331	7,326	28,681
1943	620,880	273,802	47,772	150,961	56,563	42,176	9,907	12,197	4,842	22,660
1944	658,660	249,655	61,627	164,291	70,185	55,128	8,425	13,661	3,830	34,858
1945	646,386	235,596	51,061	169,469	88,978	31,174	3,225	21,502	3,104	42,217
1946	699,378	221,554	61,315	133,973	93,888	43,297	7,832	40,493	5,472	91,554
1947	754,133	270,837	57,544	74,367	117,469	78,973	7,085	36,136	5,747	105,975
1948	782,208	231,598	62,135	119,437	139,682	57,654	8,383	32,795	4,999	125,525
	Value (thousands of dollars)									
1933	59,800	36,242	2,397	3,805	6,934	1,868	3,479	1,766	1,076	2,233
1934	80,021	45,818	3,315	5,181	10,010	3,245	4,403	2,713	1,871	3,165
1935	74,999	32,475	5,143	6,237	12,824	4,976	4,722	2,681	2,045	3,896
1936	94,564	50,061	5,740	7,302	14,715	3,543	4,672	2,976	2,181	3,374
1937	105,175	52,934	4,998	8,592	18,996	2,674	7,131	3,013	2,933	3,904
1938	83,446	42,366	2,367	7,102	15,184	2,896	4,872	3,190	1,886	3,583
1939	96,628	41,781	7,075	9,554	20,080	2,589	5,398	3,798	2,379	3,974
1940	*94,182*	*38,050*	*3,736*	*8,975*	*23,728*	*4,101*	*4,318*	*3,778*	*2,527*	*4,969*
1941	138,684	67,417	12,476	18,092	19,398	3,504	4,883	3,711	2,997	6,206
1942	144,997	61,974	11,692	15,510	30,742	3,693	7,347	3,791	3,590	6,649
1943	141,189	62,935	10,686	14,352	31,430	5,271	5,361	2,802	2,822	5,530
1944	152,914	56,383	14,224	15,226	40,836	7,034	4,855	3,821	2,283	8,252
1945	152,801	52,586	11,520	15,346	47,407	4,047	1,919	7,391	2,030	10,555
1946	227,629	70,161	19,549	19,896	59,136	7,575	8,429	11,145	5,249	26,489
1947	310,680	120,660	27,678	16,538	90,609	15,019	8,192	8,642	4,259	19,083
1948	336,181	120,537	26,922	21,893	112,612	9,851	7,791	8,330	4,778	23,407

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

No. 829.—Fresh and Frozen Packaged Fish—Production, by Principal Species: 1932 to 1948

[Includes Alaska]

Year	Total	Cod	Flounders	Haddock	Rosefish	Whiting [1]	Other
	Quantity (thousands of pounds)						
1932 [2]	51,975	7,786	1,687	33,401	----------	----------	9,101
1933	62,732	11,577	3,756	35,149	----------	----------	12,250
1934	80,106	15,239	4,648	36,666	[3] 550	----------	23,003
1935	107,494	17,747	6,166	46,484	4,320	----------	32,777
1936	113,356	17,896	5,850	41,187	15,521	----------	32,902
1937	116,992	22,507	7,870	40,241	15,509	----------	30,865
1938	120,976	21,189	8,115	41,453	19,152	7,603	32,464
1939	137,268	19,401	10,645	38,432	25,003	12,421	31,366
1940	129,420	14,541	11,245	36,747	22,997	13,256	30,634
1941	182,951	16,790	20,455	46,912	41,817	24,019	32,958
1942 [4]	173,362	12,930	24,869	41,875	37,680	24,583	31,425
1943 [4]	158,639	13,714	24,517	32,219	31,012	22,315	34,862
1944 [4]	172,294	22,083	18,073	38,403	34,531	18,510	40,694
1945 [4]	204,927	28,864	19,961	44,197	35,456	29,959	46,490
1946 [4]	188,572	18,109	21,900	42,441	49,507	22,129	34,486
1947 [4]	183,800	14,032	20,664	43,205	46,976	28,042	30,881
1948 [4]	189,297	13,879	23,466	42,219	67,696	5,122	36,915
	Value (thousands of dollars)						
1932 [2]	5,742	857	266	3,357	----------	----------	1,262
1933	6,967	1,242	568	3,457	----------	----------	1,700
1934	9,001	1,677	722	3,801	[3] 55	----------	2,746
1935	11,202	1,751	973	4,427	440	----------	3,611
1936	12,147	1,895	906	4,266	1,514	----------	3,566
1937	12,861	2,262	1,287	4,162	1,495	----------	3,655
1938	12,315	2,025	1,253	3,428	1,568	362	3,679
1939	14,028	1,930	1,432	3,783	2,544	562	3,777
1940	14,345	1,760	1,542	4,479	2,272	561	3,731
1941	23,930	2,435	3,171	6,348	4,808	1,484	5,184
1942 [4]	33,991	2,778	5,867	9,661	6,907	2,240	6,538
1943 [4]	37,589	3,516	7,299	9,091	6,952	2,194	8,537
1944 [4]	40,820	5,461	5,423	10,597	7,745	1,955	9,639
1945 [4]	48,371	7,452	6,086	12,349	7,673	3,098	11,713
1946 [4]	46,302	4,741	6,877	12,987	11,710	2,168	7,819
1947 [4]	44,272	3,458	7,027	12,094	10,912	2,662	8,119
1948 [4]	47,642	3,490	8,102	11,853	14,408	784	9,005

[1] Data incomplete for years prior to 1938. [2] Excludes California production. [3] Estimated.
[4] Excludes California production. In 1941, yield of packaged fish in California totaled 5,384,000 pounds, valued at $1,032,000 of which 1,380,000 pounds were flounders, valued at $226,000.

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

No. 830.—Frozen Fishery Products—Production: 1940 to 1949

[**In thousands of pounds.** Includes Alaska. Through 1942 for month ending on 15th, thereafter for calendar month. For cold storage holdings, see table 784. See also *Historical Statistics*, Series F 199, for annual figures]

Month	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Total	**196,155**	**246,588**	**247,165**	**246,053**	**266,537**	**286,001**	**280,065**	**246,625**	**291,988**	**285,822**
January	8,849	8,077	8,740	6,740	9,021	4,925	6,228	4,394	6,384	7,435
February	6,895	7,604	6,559	6,792	8,813	4,191	6,231	3,439	7,927	6,914
March	6,324	5,838	7,018	9,150	11,262	6,890	11,077	8,225	14,365	11,873
April	5,664	8,568	10,376	9,958	17,375	12,962	12,504	11,711	15,227	16,484
May	11,772	18,910	22,669	22,220	32,640	27,630	34,375	25,188	38,088	37,775
June	23,200	25,698	25,459	36,025	34,849	39,392	38,203	30,039	40,920	38,910
July	25,064	30,819	34,038	34,438	40,573	42,856	43,269	33,280	40,351	34,469
August	24,616	34,208	35,634	34,766	32,602	45,623	37,940	39,809	34,598	40,046
September	23,707	28,562	28,564	26,913	28,004	33,257	27,372	27,730	29,112	33,095
October	21,558	27,226	26,281	18,806	23,733	27,472	29,983	29,625	27,113	24,308
November	22,190	29,482	22,701	24,948	18,104	26,212	20,308	16,848	22,379	21,336
December	16,316	21,596	19,126	15,297	9,561	14,591	12,575	16,337	15,524	13,177

Source: Department of the Interior, Fish and Wildlife Service; current and annual bulletins.

No. 831.—Fishery Products—Imports and Exports: 1938 to 1948

Year	Imports				Exports			
	Total	Edible products		Non-edible	Total	Edible products		Non-edible
	1,000 dollars	*1,000 pounds*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 pounds*	*1,000 dollars*	*1,000 dollars*
1938	39, 307	302, 624	28, 349	10, 958	14, 415	118, 029	13, 798	617
1939	45, 999	346, 240	32, 404	13, 595	14, 207	124, 974	13, 580	627
1940	41, 830	302, 518	29, 073	12, 757	17, 785	144, 804	17, 115	670
1941	40, 981	305, 875	28, 040	12, 941	22, 008	215, 990	21, 479	529
1942	39, 629	277, 199	28, 984	10, 645	31, 989	167, 080	27, 875	4, 114
1943	67, 231	324, 389	43, 669	23, 562	48, 586	239, 260	43, 244	5, 342
1944	78, 519	339, 431	53, 431	25, 088	36, 033	112, 230	31, 929	4, 104
1945	101, 251	404, 768	76, 434	24, 817	38, 558	136, 013	30, 903	7, 655
1946 (preliminary)	129, 615	473, 366	89, 961	39, 654	68, 224	205, 941	39, 629	28, 595
1947 do	109, 972	407, 636	83, 275	26, 697	81, 543	211, 631	50, 318	31, 225
1948 do	150, 491	473, 228	111, 599	44, 892	53, 637	99, 712	22, 844	30, 793

Source: Department of the Interior, Fish and Wildlife Service; compiled from data furnished by Department of Commerce, Bureau of the Census.

No. 832.—Fish Propagation by Fish and Wildlife Service—Output of Eggs, Fry, and Fingerlings, 1895 to 1948, and by Species, 1948

[All quantities in thousands]

Year ending June 30—	Total	Eggs	Fry	Fingerlings	Cost per million[1]
1895	619, 916	55, 408	561, 894	2, 613	$292.64
1900	1, 164, 337	88, 682	1, 070, 757	4, 898	250.00
1915	4, 288, 758	536, 260	3, 694, 282	58, 216	131.55
1920	4, 770, 356	630, 749	3, 872, 218	267, 388	130.11
1926	5, 301, 862	1, 050, 393	4, 114, 514	136, 954	135.61
1930	7, 570, 482	2, 553, 481	4, 766, 831	250, 170	120.50
1935	5, 071, 725	3, 381, 794	1, 556, 246	133, 683	117.22
1940	7, 407, 247	5, 826, 059	1, 498, 157	83, 031	134.87
1944 (Dec. 31)	5, 740, 180	3, 393, 619	2, 267, 662	78, 899	196.38
1945 (Dec. 31)	5, 454, 558	3, 176, 357	2, 203, 672	74, 529	214.15
1946 (Dec. 31)	4, 661, 303	2, 899, 242	1, 674, 515	87, 546	319.42
1947 (Dec. 31)	2, 656, 094	1, 346, 401	1, 218, 249	91, 444	594.01
1948	*1, 763, 226*	*1, 029, 894*	*653, 636*	*79, 696*	*845.16*

Group	1948			Group	1948		
	Eggs	Fry	Fingerlings or larger		Eggs	Fry	Fingerlings or larger
Catfish (bullheads)			843	Brook trout	13, 144	304	4, 001
Channel catfish		161	276	Grayling	4, 055		2
Catfish (yellow)			7	Northern pike	2, 910	6, 270	
Buffalofish	168, 000		12	Walleyed pike		5, 780	
Shad		5, 414		Crappie (black)			153
Atlantic salmon	5		179	Crappie (white)			35
Chinook salmon	11, 233	21, 077	17, 391	Largemouth black bass		1, 287	6, 856
Chum salmon	705	9, 058		Smallmouth black bass		1, 160	178
Landlocked salmon			16	Rock bass			2
Silver salmon	10		604	Bluegill sunfish			33, 371
Sockeye salmon	625		2, 902	Green sunfish			77
Steelhead trout			205	Red-eared sunfish			23
Rainbow trout	9, 602		8, 255	Yellow perch			70
Cut-throat trout	16, 268	1, 380	2, 091	Flounder		600, 400	
Lock Laven trout or brown trout	2, 148		1, 830	Pollock	801, 190		
Lake trout			313	Lobster		1, 345	
				Terrapin			1

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

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

28. Mining and Mineral Products

This section summarizes the principal statistics relating to the mineral industries and mineral products. It includes not only the crude and prepared minerals associated with the mineral extraction, but also some of the finished products manufactured from minerals. Statistics relating to the manufacture of mineral products are also included in section 30, Manufactures. Additional information relating to the mineral industries and mineral products appear also in other sections of this *Abstract* such as the section on labor force, prices, foreign commerce, and others.

Most of the statistics in this section are from the Bureau of Mines and the Bureau of the Census, with additional material from other Government agencies such as the Bureau of Labor Statistics, Bureau of the Mint, and the Interstate Commerce Commission and from non-Government sources such as the *Engineering and Mining Journal, American Metal Market, the Iron Age*, and the American Gas Association. Data in this section cover the following areas unless otherwise indicated: Bureau of Mines production statistics, continental United States, and, for leading products, outlying areas; Bureau of Census statistics, continental United States; foreign trade statistics, the United States customs area, which includes Alaska, Hawaii, Puerto Rico, and for 1935 to 1939, the Virgin Islands.

Mineral statistics, with principal emphasis on commodity detail, have been collected annually or at more frequent intervals by the United States Geological Survey or by the Bureau of Mines since 1880. The principal statistics have been published annually through 1931 in *Mineral Resources of the United States* and thereafter in the *Minerals Yearbook*. Data available from Bureau of Mines publications include quantities and values of minerals produced, sold or used by producers, or shipped; quantities of minerals stocked; crude materials treated and prepared minerals recovered, by method of treatment; and mineral content of materials produced. Data on production are sometimes available by method of extraction. Shipments or sales of products are classified in many cases by grade, by end use, or by State of destination. The Bureau of Mines also collects and publishes separate data on employment and accidents. The number of workers and man-days or man-hours worked, as measures of exposure to accidents, are tabulated only for broad industry groups.

Censuses of mineral industries have been taken approximately every 10 years since 1840. The statistics are collected and published in the Census volumes in such a manner as to relate the statistics on the production of the various minerals as nearly as possible to data on employment, principal expenses, fuels and power consumed, and other information available only for each establishment as a whole. Each establishment is classified according to its most valuable product. The data are also collected and compiled in a manner to permit integration with other Census statistics such as for manufactures and wholesale and retail trade. Data are available on the number of operations, quantity and value of products, number of persons engaged (sometimes by department or type of work), principal expenses (wages, salaries, cost of supplies and materials, fuel, purchased electric energy, and work done on contract), horsepower of power equipment, and sometimes other items, such as man-hours, cost of buildings, machinery and equipment, number and type of power-loading machines, cost of drilling oil and gas wells, development work, and capital invested. Commodity statistics on many of the manufactured mineral products are also collected by the Bureau of the Census at monthly, quarterly, or annual intervals.

To avoid misinterpretation, it should be noted that the Census of Mineral Industries statistics in table 837 relate to operations primarily engaged in extracting minerals and in such primary mineral-preparation activities (crushing, screening, washing, flotation, etc.) as are needed to render the minerals marketable. Many of the statistics collected by the Bureau of Mines represent products of operations beyond the limits covered by the Census of Mineral Industries. Value totals based on Bureau of Mines publications, as shown in tables 833 and 836, are not comparable with the Census value totals, as shown in table 837. Census values represent crude or prepared minerals f. o. b. the mine, well, or mineral-preparation plant. Bureau of Mines value totals include for most metallic products the value of ingot metal rather than the value of ores and concentrates and the value of such manufactured products as cement and lime rather than the value of the limestone used in producing them.

Historical statistics.—In this section, tabular headnotes (as "See also *Historical Statistics*, series G 1–5") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789–1945*. In that historical supplement to the *Statistical Abstract*, statistics are carried back year by year as far as possible. See also the historical appendix of the present issue of the *Abstract* for specific titles of series and the earliest year shown in the supplement.

No. 833.—Mineral Products of the United States—Value, for Metallic and Nonmetallic: 1881 to 1948

[All figures in millions of dollars. See general note, p. 687. See also *Historical Statistics*, series G 1-5]

Yearly average or year	Total	Metallic	Nonmetallic			Year	Total	Metallic	Nonmetallic		
			Total	Fuels[1]	Other				Total	Fuels[1]	Other
1881-1885	426	194	232	171	61	1930	4,765	986	3,779	2,765	1,015
1886-1890	541	249	292	215	78	1931	3,167	570	2,597	1,892	704
1891-1895	592	245	347	248	99	1932	2,462	286	2,176	1,743	432
1896-1900	828	366	462	307	154	1933	2,555	417	2,138	1,683	455
1901-1905	1,392	578	814	546	267	1934	3,325	549	2,776	2,233	543
1906-1910	1,887	769	1,118	746	372	1935	3,650	733	2,917	2,330	587
1911-1915	2,220	821	1,400	967	433	1936	4,557	1,082	3,475	2,759	716
1916-1920	5,129	1,798	3,331	2,602	729	1937	5,413	1,468	3,945	3,201	745
1921-1925	5,151	1,154	3,997	2,943	1,054	1938	4,363	893	3,471	2,820	650
1926-1930	5,556	1,276	4,280	3,088	1,192	1939	4,914	1,292	3,623	2,834	788
1931-1935	3,032	511	2,521	1,977	544	1940	5,614	1,679	3,935	3,117	819
1936-1940	4,972	1,283	3,690	2,946	744	1941	6,878	2,132	4,746	3,708	1,038
1941-1945	7,817	2,260	5,557	4,562	995	1942	7,576	2,364	5,212	4,103	1,109
1924	5,306	1,233	4,072	2,899	1,174	1943	8,072	2,488	5,584	4,608	976
1925	5,678	1,382	4,295	3,059	1,237	1944	8,417	2,340	6,077	5,178	899
1926	6,214	1,405	4,808	3,542	1,266	1945	8,141	1,975	6,166	5,212	954
1927	5,530	1,221	4,309	3,060	1,249	1946	8,896	1,825	7,071	5,760	1,311
1928	5,385	1,288	4,097	2,885	1,212	1947[2]	12,484	2,909	9,575	7,941	1,634
1929	5,888	1,480	4,407	3,191	1,217	1948[2]	15,670	3,510	12,160	10,266	1,894

[1] Coal, natural gas, natural gasoline and allied products, petroleum. [2] Preliminary.

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

No. 834.—Nonferrous Metals—Yearly Average Prices, by Kind: 1896 to 1949

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

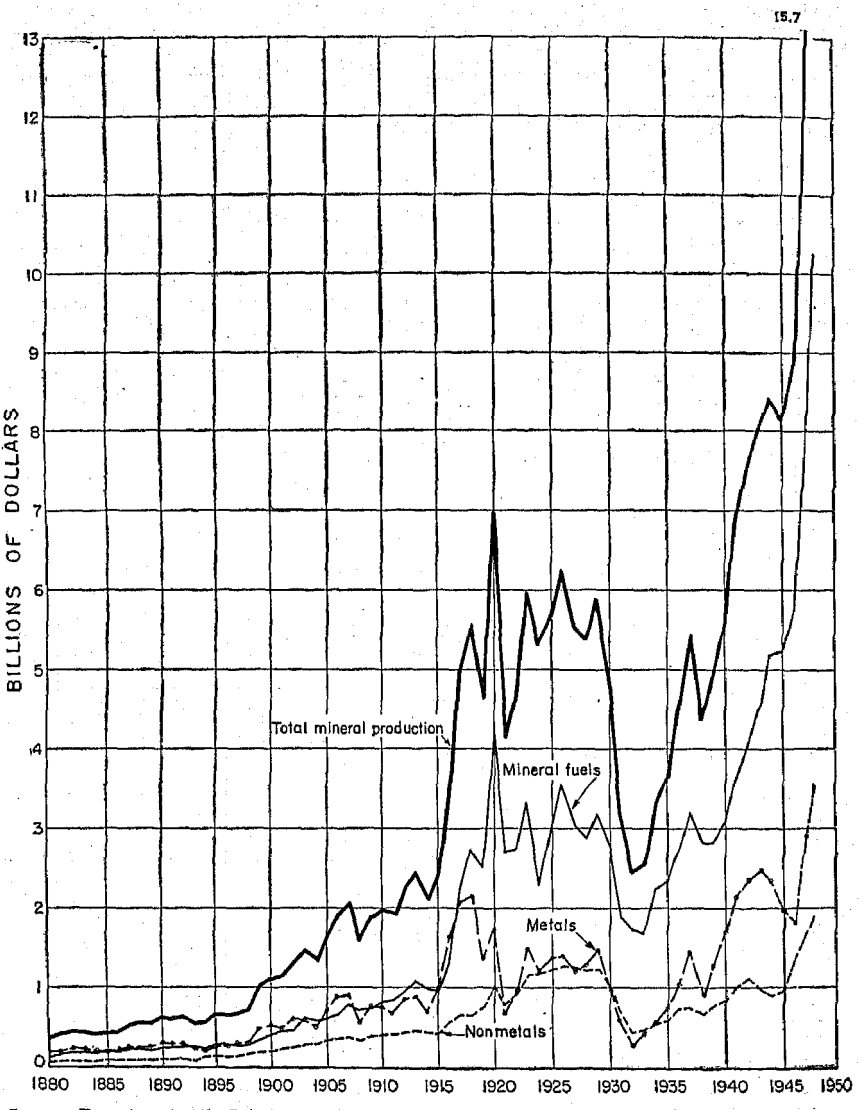
Year	Copper, electrolytic (New York)	Lead (New York)	Tin (New York)[1]	Zinc (St. Louis)	Aluminum, delivered[2]	Antimony (New York)	Quicksilver (New York)[3]	Platinum (New York)
1896-1900	[4] 13.41	3.84	19.54	[5] 4.55	37.15	8.204	42.17	[6] 16.66
1901-1905	13.877	4.330	28.19	[7] 5.284	33.80	7.398	43.17	19.55
1906-1910	15.642	4.780	34.26	5.432	31.12	11.885	44.12	26.68
1911-1915	14.973	4.359	41.10	7.205	23.84	12.373	52.77	45.16
1916-1920	23.031	7.355	[8] 54.43	8.783	42.14	15.003	105.71	103.54
1921-1925	13.474	6.933	42.64	6.189	23.88	9.331	64.76	105.42
1926-1930	14.475	6.765	51.38	6.135	24.80	11.062	114.15	77.90
1931-1935	7.555	3.843	37.64	3.806	22.40	8.271	70.07	34.75
1936-1940	10.980	5.138	48.39	5.495	20.12	13.261	105.28	41.05
1941-1945	11.77	6.355	52.01	8.095	15.37	15.433	165.97	35.42
1929	18.107	6.833	45.16	6.512	23.90	8.956	122.15	67.66
1930	12.982	5.517	31.69	4.556	23.79	7.667	115.01	45.36
1931	8.116	4.243	24.47	3.640	23.30	6.720	87.35	35.67
1932	5.555	3.180	21.98	2.876	23.30	5.592	57.93	36.46
1933	7.025	3.869	39.12	4.029	23.30	6.528	59.23	30.99
1934	8.428	3.860	52.23	4.158	21.58	8.901	73.87	36.47
1935	8.649	4.065	50.39	4.328	20.50	13.616	71.99	34.15
1936	9.474	4.710	46.42	4.901	20.50	12.240	79.92	42.93
1937	13.167	6.009	54.29	6.519	20.08	15.355	90.18	51.77
1938	10.000	4.739	42.28	4.610	20.00	12.349	75.47	35.90
1939	10.965	5.053	49.11	5.110	20.00	12.359	103.94	36.75
1940	11.296	5.179	49.84	6.335	20.00	14.000	176.87	37.92
1941	11.797	5.793	52.03	7.474	16.87	14.000	185.02	36.00
1942	11.78	6.481	52.00	8.250	15.00	15.559	196.35	36.00
1943	11.78	6.500	52.00	8.250	15.00	15.928	195.21	35.08
1944	11.75	6.500	52.00	8.250	15.00	15.839	118.36	35.00
1945	11.75	6.500	52.00	8.250	15.00	15.839	134.89	35.00
1946	[9] 14.04	8.109	54.54	8.726	15.00	17.306	98.24	57.20
1947	[9] 21.30	14.673	77.95	10.500	15.00	34.852	83.74	59.09
1948	[9] 22.33	18.043	99.25	13.589	16.73	38.168	76.49	86.25
1949	[9] 19.51	15.364	99.34	12.144	17.00	40.229	79.46	73.36

[1] 99 percent tin, 1896-1919; Straits tin thereafter.
[2] Prices 1896 to 1929 for pure aluminum (No. 1 virgin 98-99 percent); beginning 1930, for 99 percent+virgin ingot.
[3] Flasks of 75 pounds prior to 1927; 76 thereafter.
[4] Prices 1896 to 1898 are for Lake copper.
[5] Data are for New York zinc.
[6] Average for 1899 and 1900 only.
[7] Average, 1903-05; average for New York zinc 1901-05, 5.058 cents.
[8] Average for 4 years.
[9] Connecticut Valley.

Sources: Engineering and Mining Journal and The Mineral Industry; American Metal Market, annual reports; and The Iron Age, annual review issue.

FIGURE W.—VALUE OF MINERAL PRODUCTION: 1880 TO 1948

[See table 833]



Source: Department of th Interior, Bureau of Mines.

No. 835.—Mineral Production—Value, by States and for Alaska: 1943 to 1948

[Sum of State totals in table below does not agree with total for United States given in tables 833 and 836 chiefly because (1) figures for certain of products included in United States total are not available by States of origin; (2) use of iron ore values in State totals and pig iron values in United States total; (3) use of mine figures for gold, silver, copper, lead, and zinc in State totals and mint and smelter figures in United States total; (4) inclusion of estimates in United States total for a few products for which no canvass has been conducted for many years and for which no estimate by States is made; and (5) use of natural gas values *at wells* in State totals and values *at point of consumption* in United States total]

[In thousands of dollars]

DIVISION AND STATE	1943	1944	1945	1946	1947	1948
Continental United States	6,005,167	6,372,364	6,251,281	7,067,214	9,815,340	12,430,927
New England	21,558	21,357	21,028	33,826	40,762	48,385
Maine	2,720	2,150	2,521	4,389	6,049	8,482
New Hampshire	1,350	1,164	802	1,451	1,574	1,732
Vermont	6,404	7,672	8,249	12,096	14,818	16,132
Massachusetts	5,441	5,263	5,450	9,745	11,859	13,844
Rhode Island	808	612	508	561	785	1,450
Connecticut	4,835	4,496	3,498	5,584	5,677	6,745
Middle Atlantic	987,275	1,080,322	1,033,177	1,211,093	1,444,674	1,614,579
New York	84,410	84,286	88,678	103,571	130,667	156,140
New Jersey	37,583	33,828	31,267	33,518	44,245	51,092
Pennsylvania	865,282	962,208	913,232	1,074,004	1,269,762	1,407,347
East North Central	739,367	756,807	748,754	849,369	1,076,567	1,262,048
Ohio	170,726	174,582	179,682	221,356	291,960	328,228
Indiana	82,524	89,760	88,802	107,479	143,298	166,803
Illinois	320,077	329,147	330,184	358,628	436,770	523,422
Michigan	147,110	140,520	127,869	133,310	169,597	205,954
Wisconsin	18,930	22,798	22,217	28,596	34,942	37,641
West North Central	471,111	451,255	449,742	505,395	670,899	833,119
Minnesota	177,687	170,488	167,138	155,734	219,685	268,813
Iowa	24,187	22,452	25,008	35,957	38,951	45,129
Missouri	72,156	72,890	74,347	88,357	107,878	113,506
North Dakota	4,367	4,334	4,505	5,118	6,330	8,581
South Dakota	8,606	5,471	7,137	18,380	23,604	24,296
Nebraska	6,800	5,060	4,963	7,277	7,405	9,432
Kansas	177,308	170,560	166,644	194,563	267,045	363,362
South Atlantic	676,760	717,651	699,591	793,099	1,141,494	1,332,026
Delaware	367	182	131	491	613	717
Maryland	17,508	15,264	15,329	21,991	26,125	27,922
District of Columbia	100	111	229	710	746	835
Virginia	85,758	86,951	81,965	90,823	133,953	157,724
West Virginia	500,099	547,851	537,212	588,925	862,980	1,008,299
North Carolina	22,172	22,199	14,766	20,428	23,754	27,385
South Carolina	4,759	4,192	5,043	8,189	10,362	12,105
Georgia	20,927	19,005	19,988	30,449	37,037	42,662
Florida	25,070	21,896	24,928	31,093	45,924	53,877
East South Central	398,309	442,553	441,321	497,290	745,820	904,734
Kentucky	210,352	250,735	250,919	272,558	428,507	506,249
Tennessee	64,480	63,994	58,672	68,031	85,664	95,863
Alabama	102,584	109,149	110,360	123,029	162,663	182,987
Mississippi	20,893	18,675	21,370	33,672	68,986	119,635
West South Central	1,433,114	1,641,401	1,674,581	1,916,152	2,807,966	4,029,266
Arkansas	77,191	64,079	58,257	65,935	92,289	123,138
Louisiana	198,258	217,733	222,413	273,882	405,576	593,403
Oklahoma	221,631	225,833	243,314	263,282	355,750	503,654
Texas	936,034	1,133,756	1,150,597	1,313,003	1,954,351	2,809,071
Mountain	750,535	708,662	627,109	623,860	971,622	1,156,727
Montana	85,208	82,290	68,829	62,114	88,231	103,125
Idaho	57,475	51,321	44,348	44,444	66,941	79,330
Wyoming	64,925	68,034	74,620	78,745	117,594	172,818
Colorado	87,335	79,137	77,236	77,573	104,828	129,326
New Mexico	111,142	112,180	104,234	111,938	157,652	221,022
Arizona	124,584	115,592	98,574	118,086	186,767	201,244
Utah	163,341	148,308	127,961	95,506	206,970	204,752
Nevada	56,525	51,800	31,307	35,454	42,639	45,110
Pacific	527,138	552,356	555,978	637,130	915,536	1,250,043
Washington	37,593	36,483	31,301	33,029	39,924	50,498
Oregon	12,267	9,657	9,463	11,807	16,573	24,871
California	477,278	506,216	515,214	592,294	859,039	1,174,674
Alaska	9,055	6,903	10,174	12,426	18,458	13,201

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

No. 836.—Mineral Products of the United States—Quantities and Values: 1930 to 1948

[**Short tons are 2,000 pounds; long tons, 2,240 pounds.** Data cover continental United States and, for leading products, outlying areas. Certain of the figures represent shipments rather than quantity mined, and some of the figures for 1948 are preliminary. Total values of metallic and nonmetallic products include figures which Bureau of Mines is not at liberty to publish and estimated figures for certain products for which data are not available. In some cases, neither quantity nor value can be shown and those products are not listed here but data for them are included in totals. On the other hand, values for certain products, such as coke, are excluded from totals to eliminate duplication, since values of products derived therefrom, or of raw materials used, are accounted for under other items. See also *Historical Statistics*, series G 1-5, 13-18, and 43-130]

Product	Quantity						Value (thousands of dollars)					
	1930	1935	1940	1945	1947	1948	1930	1935	1940	1945	1947	1948
Grand total (approximate)							4,764,800	3,650,000	5,613,900	8,141,000	12,484,000	15,670,000
Total metallic products (approximate)							985,790	733,130	1,678,600	1,975,000	2,909,000	3,510,000
Aluminum ... 1,000 pounds	229,037	119,295	412,560	990,120	1,143,500	1,246,912	50,961	22,070	75,292	140,864	161,626	180,755
Antimonial lead [1] ... short tons	13,711	[1] 16,384	[1] 29,752	[1] 56,495	[1] 86,075	[1] 100,764	1,393	(1)	(1)	(1)	(1)	(1)
Antimony, metal ... do	[2] 1,685	[3] 2,134	(3)	(3)	(3)	(3)	[2] 258	(3)	(3)	(3)	(3)	(3)
Antimony, ore and concentrates ... do		3,616	1,124	14,966	20,020	16,239		(4)	73	562	3,272	4,378
Bauxite ... long tons	330,612	233,912	434,988	[5] 981,009	[5] 1,202,055	[5] 1,457,148	1,928	1,557	2,579	[5] 5,591	[5] 6,885	[5] 8,697
Beryllium ore ... short tons	(4)	(4)	121	39	145	99	(4)	(4)	4	6	25	27
Cadmium:												
Metal ... pounds	2,777,762	3,477,091	6,467,260	7,938,658	7,852,907	7,639,113	1,778	(4)	4,527	6,107	12,359	12,680
Compounds ... do	(4)	(4)	205,900	451,050	500,859	192,696	(4)	(4)	144	347	788	320
Chromite ... long tons	80	515	2,662	12,476	846	3,231	2	6	29	532	(4)	(4)
Copper (smelter output) [6] ... short tons	697,195	381,294	909,084	782,726	862,872	842,477	181,271	63,295	205,453	[7] 184,723	[7] 360,680	[7] 365,635
Ferro-alloys ... do	728,269	663,237	1,292,660	1,661,657	1,841,682	1,952,246	51,900	48,892	128,128	210,510	220,022	273,450
Gold [8] ... 1,000 troy ounces	2,286	3,609	6,003	929	2,165	2,025	47,248	126,325	210,109	32,511	75,786	70,892
Iron, ore [9] ... 1,000 long tons	55,201	33,426	75,198	88,137	93,315	100,822	145,619	83,035	189,087	243,761	320,865	394,461
Iron, pig ... 1,000 short tons	33,494	23,719	46,959	53,265	58,368	60,051	512,165	358,145	840,442	1,172,435	1,770,659	2,232,122
Lead (refinery output) [6] ... short tons	573,740	310,505	433,065	356,535	381,109	339,413	57,374	24,840	43,307	[7] 45,636	[7] 108,997	[7] 121,510
Magnesium (new ingot) ... do	280	2,121	6,412	43,496	5,264	8,489	269	(4)	[10] 3,462	17,874	(4)	3,480
Manganese ore (35% or more Mn) ... do	75,080	29,599	44,038	182,337	131,627	131,100	1,437	557	1,169	7,320	4,201	4,390
Manganiferous ore (5% to 35% Mn) ... do	879,637	587,086	1,272,933	1,522,854	1,174,355	1,340,565	2,402	1,323	3,348	3,514	3,447	(4)
Mercury ... flasks (76 pounds net)	21,553	17,518	37,777	30,763	23,244	14,388	2,479	1,261	6,682	4,150	1,946	1,101
Molybdenum ... 1,000 pounds	3,759	10,892	25,329	33,683	22,190	29,669	2,068	7,261	17,189	23,976	15,178	20,418
Nickel ... short tons	308	160	554	1,155	646	883	214	130	(4)	(4)	(4)	(4)
Ores (crude), old tailings, etc.:												
Copper ... 1,000 short tons	47,382	19,103	69,278	76,856	87,633	84,120						
Lead-copper, zinc-copper, zinc-lead-copper ... do	246	1	93	992	544	1,070						
Dry and siliceous (gold and silver) ... do	7,767	14,016	18,700	1,984	4,235	4,202	(11)	(11)	(11)	(11)	(11)	(11)
Lead ... do	8,080	3,494	6,144	6,730	6,165	5,866						
Zinc-lead ... do	10,645	7,471	12,866	12,355	12,530	10,668						
Zinc ... do	5,980	7,944	9,521	16,308	10,045	6,798						
Platinum, etc., value, N. Y. C ... troy ounces	43,502	42,060	47,339	33,592	17,442	17,067	2,049	1,414	1,986	1,543	990	1,239
Selenium ... pounds	278,309	232,831	368,709	604,445	489,415	570,718	455	(4)	(4)	(4)	(4)	(4)
Silver [12] ... 1,000 troy ounces	50,748	45,924	69,586	29,063	38,587	39,228	19,538	33,008	49,483	20,667	34,923	35,504
Tantalum and columbium ores ... pounds	5,100	7,681		6,649	3,259	500	3	5		14	9	(4)
Tellurium ... do	4,717	22,610	88,096	60,328	71,300	78,788	8	(4)	(4)	(4)	(4)	(4)

Tin (metallic equivalent) ..... short tons	17	50	49	----------	1	6	10	50	55	----------	2	13
Titanium concentrates (ilmenite) ..... do	(4)	(4)	20,702	308,518	336,061	381,508	(4)	(4)	184	7,359	5,029	5,794
Titanium concentrates (rutile) ..... do	(4)	(4)	2,657	6,837	5,157	9,907	(4)	(4)	393	870	534	647
Tungsten ore (60 percent concentrates) ..... do	702	2,395	5,319	5,534	3,094	4,005	509	1,921	6,576	7,693	4,350	6,312
Vanadium ..... 1,000 pounds	(4)	(4)	2,091	2,964	2,118	(4)	(4)	(4)	(4)	1,767	1,285	(4)
Zinc (smelter output)[6] ..... short tons	489,361	412,184	589,988	467,084	510,058	537,966	46,979	36,272	74,338	[7] 80,338	[7] 109,152	[7] 143,099
Total nonmetallic products (approximate)	----------	----------	----------	----------	----------	----------	**3,779,010**	**2,916,870**	**3,935,300**	**6,166,000**	**9,575,000**	**12,160,000**
Arsenious oxide ..... short tons	17,425	12,670	23,339	24,810	18,188	15,516	1,008	497	561	1,197	1,534	1,268
Asbestos ..... do	4,242	8,920	20,060	12,226	24,035	37,092	289	293	675	446	919	1,806
Asphalt, native ..... do	702,777	349,938	500,281	703,873	1,071,922	1,136,126	4,463	2,201	2,766	3,816	5,503	5,026
Asphalt, oil (including road oil) [9] ..... do	2,167,068	2,715,104	5,262,959	6,311,815	8,165,631	8,006,196	20,851	24,112	41,399	68,930	116,002	149,169
Barite (crude) ..... do	234,932	225,111	409,353	696,062	834,082	799,848	1,538	1,251	2,597	5,349	6,171	6,693
Boron minerals ..... do	177,360	272,967	243,355	325,935	501,935	450,932	5,352	5,382	5,643	7,635	11,844	11,148
Bromine ..... 1,000 pounds	8,463	16,429	59,266	79,710	78,178	76,048	2,110	3,483	11,773	14,796	14,837	14,844
Calcium-magnesium chloride (75 percent $NaCl_2$) ..... short tons	116,160	83,546	99,536	218,320	271,206	301,936	2,208	1,039	998	1,818	2,650	3,903
Cement ..... 1,000 bbl. (376 lb. net)	160,846	76,244	132,864	107,833	190,420	207,680	231,249	114,810	193,465	175,431	361,978	453,412
Clay products [13]	----------	----------	----------	----------	----------	----------	275,134	155,536	114,000	86,275	219,004	268,081
Clay, raw (sold by producers) [14] ..... 1,000 short tons	3,963	2,923	4,701	18,628	33,270	37,386	[9] 12,521	[9] 10,824	18,162	39,795	69,613	80,074
Coal, bituminous [15] ..... do	467,526	372,373	[16] 460,772	577,617	630,624	594,000	795,483	658,063	[16] 879,327	1,768,204	2,622,635	2,941,417
Coal, Pennsylvania anthracite ..... do	69,385	52,159	51,485	54,934	57,190	57,140	354,574	210,131	205,490	323,944	413,019	467,052
Coke [9] ..... do	47,972	35,141	57,072	67,308	73,446	74,862	209,137	176,853	273,832	508,540	776,406	928,282
Emery ..... short tons	555	176	1,046	7,856	5,798	5,405	6	2	9	76	67	69
Feldspar (crude) ..... long tons	171,788	189,550	290,763	373,054	459,910	460,713	1,067	1,005	1,272	2,022	2,411	2,564
Fluorspar ..... short tons	95,849	123,741	233,600	323,961	329,484	331,749	1,747	1,861	4,745	9,897	10,955	11,227
Fuller's earth ..... do	335,644	227,745	146,568	296,368	329,068	342,081	4,327	2,230	1,471	3,464	4,661	5,274
Garnet for abrasive purposes ..... do	5,003	3,060	4,716	6,306	8,722	8,039	314	257	259	375	614	588
Graphite, amorphous ..... do	1,941	(4)	(4)	} 5,334	5,207	9,871	{ 21	(4)	(4)	} 289	221	451
Graphite, crystalline ..... do	(4)	(4)	----------				(4)	(4)	----------			
Grindstones and pulpstones ..... do	18,700	14,587	3,323	(4)	10,696	7,954	771	505	496	(4)	482	405
Gypsum [17] ..... 1,000 short tons	3,471	1,904	3,699	3,812	6,208	7,255	27,051	18,860	5,228	6,984	16,530	19,113
Helium [18] ..... M cu. ft.	9,806	10,218	9,451	128,441	63,199	67,487	140	114	85	937	541	642
Iodine ..... pounds	(4)	245,696	(4)	(4)	(4)	(4)	(4)	249	(4)	(4)	(4)	(4)
Kyanite ..... short tons	(4)	(4)	4,241	(4)	(4)	(4)	(4)	(4)	94	(4)	(4)	(4)
Lime ..... 1,000 short tons	3,388	2,987	4,887	5,921	6,779	7,264	25,616	21,749	33,956	45,918	63,826	75,163
Lithium minerals ..... short tons	1,797	1,154	2,011	2,446	2,441	3,191	56	27	81	286	151	186
Magnesite (crude) ..... do	129,320	177,154	333,166	336,458	375,993	(4)	1,033	1,192	2,488	2,325	2,597	(4)
Magnesium compounds (MgO equivalent) [19] ..... 1,000 pounds	73,255	109,602	216,532	539,612	311,426	331,600	1,071	1,287	2,453	9,675	9,529	11,467
Marl, calcareous ..... short tons	34,012	88,062	25,516	154,122	176,187	114,759	113	97	42	188	235	146
Marl, greensand ..... do	12,761	7,589	6,697	4,986	8,337	7,269	221	220	390	478	433	393
Mica, scrap [20] ..... do	6,732	18,852	22,386	41,060	49,797	52,157	109	244	315	812	1,096	1,092
Mica, sheet ..... 1,000 pounds	1,465	937	1,625	1,299	416	270	177	161	292	737	116	46
Millstones	----------	----------	----------	----------	----------	----------	18	10	7	15	23	18

For footnotes, see p. 695.

No. 836.—Mineral Products of the United States—Quantities and Values: 1930 to 1948—Continued

Product	Quantity						Value (thousands of dollars)					
	1930	1935	1940	1945	1947	1948	1930	1935	1940	1945	1947	1948
Nonmetallic—continued												
Mineral pigments:												
Natural pigments and manufactured iron oxide pigments ..... short tons	(21)	(21)	(21)	101,014	115,367	111,317	(21)	(21)	(21)	8,825	11,167	10,957
Zinc and lead pigments [22] ..... do	147,948	137,972	164,775	194,448	242,230	218,399	18,420	13,828	19,334	26,556	46,508	49,411
Natural gas [23] ..... 1,000,000 cu. ft.	1,943,421	1,916,595	2,660,222	3,918,686	4,444,693	4,963,853	416,090	429,374	577,939	837,852	1,032,200	1,197,550
Natural gasoline and allied products:												
Natural gasoline and cycle products ..... 1,000 gal.	2,210,494	1,651,986	2,339,400	3,290,949	3,659,449	3,929,429	128,160	70,940	68,261	145,570	228,174	351,576
Liquefied petroleum gases ..... do	(24)	(24)	(24)	1,413,224	1,891,818	2,180,698	(24)	(24)	(24)	41,994	66,820	112,042
Oilstones, etc ..... short tons	651	439	(4)	(4)	(4)	(4)	137	106	(4)	(4)	(4)	(4)
Olivine ..... do	(4)	(4)	2,500	(4)	10,838	4,766	(4)	(4)	15	(4)	129	86
Peat ..... do	(25)	37,060	70,097	107,000	136,232	129,581	(25)	199	517	821	869	930
Petroleum ..... 1,000 barrels (42 gal.)	898,011	996,596	1,353,214	1,713,655	1,856,987	2,016,282	1,070,200	961,440	1,385,440	2,094,250	3,577,390	5,196,034
Phosphate rock ..... 1,000 long tons	3,926	3,042	4,003	5,807	9,027	8,669	13,997	10,952	12,335	23,951	46,639	50,502
Potassium salts (K_2O) ..... short tons	56,610	224,721	393,058	870,370	1,053,266	1,143,339	2,986	4,993	12,562	30,314	34,716	35,999
Pumice ..... do	56,843	60,000	82,407	157,011	442,552	607,746	336	247	450	1,051	2,022	2,502
Pyrites ..... long tons	347,512	514,192	626,640	722,596	940,652	928,531	1,029	1,583	1,920	2,700	4,070	3,950
Quartz ..... short tons	13,156	17,178	31,865	57,764	101,317	161,861	121	112	176	237	425	751
Salt ..... 1,000 short tons	8,054	7,927	10,360	15,394	16,054	16,403	25,009	21,838	26,475	43,914	52,192	54,332
Sand and gravel:												
Sand, glass ..... do	1,849	2,126	2,760	4,682	5,321	4,542	3,211	3,735	4,882	8,374	11,395	10,771
Sand (molding, building, etc.) and gravel ..... 1,000 short tons	195,203	121,798	235,548	190,842	282,338	314,724	111,966	58,242	105,806	120,463	205,474	241,727
Sand-lime brick ..... thousands	[13] 191,193	[13] 61,757	[13] 104,519	(13)	(13)	(13)	[13] 1,951	[13] 555	[13] 1,174	(13)	(13)	(13)
Slate ..... shorts tons	463,610	330,200	473,450	551,890	876,010	799,400	7,912	3,650	5,738	5,659	11,686	12,881
Sodium salts (carbonates and sulfates), natural ..... short tons	122,930	131,936	317,267	372,241	550,345	[26] 554,631	1,792	1,449	3,158	4,559	9,191	[26] 10,872
Stone ..... 1,000 short tons	126,996	[27] 83,159	[27] 153,733	[27] 153,405	[27] 207,555	[27] 225,535	178,949	[27] 87,824	[27] 160,044	[27] 179,308	[27] 289,344	[27] 328,985
Sulfur (shipped) ..... 1,000 long tons	1,990	1,635	2,559	3,833	4,828	4,979	35,800	29,300	40,900	61,300	85,200	89,600
Sulfuric acid, byproduct (basis, 100 percent) [28] ..... 1,000 short tons	1,188	604	841	1,085	725	641	9,544	4,548	6,797	10,137	9,178	8,584
Talc, pyrophyllite, and soapstone [29] ..... short tons	179,385	172,716	281,375	398,384	516,094	518,746	2,108	1,848	3,008	5,407	7,682	8,265
Tripoli ..... do	32,439	27,375	30,212	18,247	34,578	26,845	508	383	367	307	751	706
Vermiculite ..... do	(4)	7,068	22,299	64,808	131,385	138,635	(4)	88	138	648	1,339	1,387

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

[2] Content of antimonial lead. Value of the antimony in antimonial lead excluded from total value.

[3] Largely from foreign ore beginning 1935; value not included in total value.

[4] Figures not available or Bureau of Mines not at liberty to publish them; value included in total value of metallic or nonmetallic products.

[5] Represents dried bauxite equivalent.

[6] Product from domestic ores only.

[7] Value does not include premiums paid miners by the Government. Total premiums for copper, lead, and zinc amounted to approximately $79,000,000 in 1945, and $21,000,000 in 1947. In addition, exploration premiums totaling $6,214,000 were paid to miners from July 1, 1946, through Dec. 1, 1947, to encourage exploration and development of copper, lead, and zinc deposits.

[8] According to Bureau of the Mint; valued at $20.67+per ounce through 1930, at $35 per ounce in 1935 and subsequent years.

[9] Value not included in total value; see headnote.

[10] Value calculated at nominal price, 27 cents per pound.

[11] Figures not available. Value of products derived therefrom, or of raw materials used, is included elsewhere.

[12] According to Bureau of the Mint.

[13] Figures obtained through cooperation with Bureau of the Census; 1940 total for clay products is estimate based on figures issued by Bureau of the Census as somewhat incomplete. Subsequently, there was no canvass; total for clay products is estimate by Bureau of Mines; no estimate was made for sand-lime brick. Value of clay products excludes values of pottery and refractories for 1940 and subsequent years.

[14] Beginning 1945, sold or used—includes value of clay used in cement and heavy clay products which is not included in total value.

[15] Includes brown coal and lignite, and anthracite mined elsewhere than in Pennsylvania.

[16] Quantities as reported by Department of the Interior, National Bituminous Coal Division; values include selling expenses.

[17] Gypsum mined: For 1940 and subsequent years, value of crude at mine; for earlier years, value as sold (crude and calcined).

[18] Figures cover fiscal year ending June 30 of year stated.

[19] Beginning 1947 includes compounds from raw sea water, well brines, sea-water bitterns, brucite, and serpentine only. Data for earlier years not quite comparable in that they are on a gross-weight basis and include some compounds made from a combination of sea water and dolomite and of well brines and dolomite.

[20] Beginning 1935, includes mica recovered by grinding mica schist; excluded in prior years shown.

[21] Figures not available; value of iron ore sold for paint included in total value of nonmetallic products.

[22] Includes sublimed blue lead, sublimed white lead, leaded zinc oxide, and zinc oxide except that in 1947–48 data for sublimed blue and white lead are excluded but value is included in total value of nonmetallic products.

[23] Value at point of consumption. 1947–48 data estimated.

[24] Figures not available.

[25] No canvass. Estimate of value included in total value of nonmetallic products.

[26] Excludes production of sodium carbonate from Wyoming; values included in total value.

[27] Includes soapstone used as dimension stone. Beginning 1947, excludes limestone for cement and lime.

[28] From copper, lead and zinc smelters and zinc roasters and from roasting of high-sulfide gold and silver concentrates. 60° Baumé prior to 1947.

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

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

No. 837.—Mineral Industries—Summary for the United States: 1919, 1929, and 1939

[Statistics cover producing operations only. In general, those for 1939 cover only those operations (or concerns producing crude petroleum, natural gas, and natural gasoline, and rendering oil- and gas-field services) for which total value of all products, reported principal expenses, cost of buildings, machinery, and equipment during year, or cost of drilling and equipping wells during year amounted to $2,500 or more. For bituminous coal and lignite an output criterion of 1,000 tons of coal was substituted for value of all products. Statistics for common sand and gravel industry exclude data for operations that produce less than 15,000 tons of sand and gravel unless reported principal expenses or cost of buildings, machinery, and equipment during year amounted to $15,000 or more. Statistics for 1929 cover, in general, only those "enterprises" for which total value of all products or cost of development work amounted to $2,500 or more. Bituminous coal and lignite mines that produced less than 1,000 tons of coal and common sand and gravel operations that produced less than 25,000 tons of sand and gravel, were excluded. Statistics for 1919 exclude data for "enterprises" for which value of all products was less than $500 or cost of development work was less than $5,000. Noncommercial production of stone and sand and gravel obtained from mines or quarries operated by governmental agencies, public utilities, or by construction companies or contractors producing wholly for their own use or on contract for governmental agencies is excluded for all years. **For summary data from 1939 Census of Mineral Industries by type of mineral industry, see 1949 *Statistical Abstract*, table 854**]

ITEM	1939 (all industries)	COMPARATIVE STATISTICS FOR 1939 AND 1929		COMPARATIVE STATISTICS FOR 1939 AND 1919	
		1939 [1]	1929	1939 [2]	1919
Number of mines and quarries	13,395	12,736	11,602	10,888	13,844
Number of oil and gas wells producing December 31	347,645	----------	----------	347,645	257,673
Number of natural-gasoline plants	734	----------	----------	734	1,115
Value of all products [3] ... 1,000 dollars	3,221,927	1,721,771	2,392,831	3,089,904	3,122,559
Number of persons engaged, total	827,410	668,771	863,948	792,423	1,077,675
Wage earners (average for the year) [4]	736,150	616,614	806,418	705,872	981,560
Salaried employees [5]	77,019	44,124	52,633	73,238	74,197
Proprietors and firm members (not applicable to corporations) [6]	14,241	8,033	4,897	13,313	21,918
Performing manual labor	6,431	5,107	(7)	6,122	5,245
Principal expenses designated below, total ... 1,000 dollars	1,747,282	1,161,318	1,661,168	1,674,708	2,166,345
Wages [4] ... do	915,558	740,112	1,091,990	881,122	1,295,936
Salaries [5] ... do	189,355	103,807	137,639	180,372	149,329
Supplies and materials ... do	306,297	216,448	293,568	290,545	519,594
Fuel ... do	60,374	32,568	49,146	53,098	93,911
Purchased electric energy ... do	68,892	61,429	71,769	63,617	28,195
Contract work ... do	206,805	6,953	17,056	205,955	79,380
Cost of machinery and equipment installed during year [8] ... 1,000 dollars	201,475	60,334	84,508	253,688	(7)
Horsepower rating of power equipment, total [9]	13,045,784	8,754,546	7,514,843	12,112,357	[10] 6,723,786
Prime movers	7,149,168	3,332,089	2,743,025	6,653,204	5,111,531
Electric motors driven by purchased energy	5,896,616	5,422,457	4,771,818	5,459,153	[10] 1,612,255
Electric energy consumed, total ... 1,000 kilowatt-hours	8,371,670	7,396,870	7,462,790	(7)	(7)
Purchased ... do	6,301,497	5,627,091	5,382,178	(7)	(7)
Generated by reporting companies ... do	2,070,173	1,769,779	2,080,612	(7)	(7)

[1] Excludes statistics for common clay and shale, crude petroleum and natural gas, greensand, natural gasoline, peat, potash, and rock salt industries, for comparability with 1929.

[2] Excludes common clay and shale, common sand and gravel, glass-sand, foundry-sand, natural sodium compounds, peat, potash, and rock salt industries, and limestone mines and quarries operated in conjunction with cement and lime plants for comparability with 1919.

[3] Includes value of crude minerals produced, value added during year by preparation processes, receipts for services performed for other concerns, and value of electric energy generated and sold.

[4] Represents statistics for skilled and unskilled employees who perform manual labor, use tools, operate machines, handle materials, and care for property. Average numbers of wage earners were derived by adding numbers reported for each month and dividing sums by 12.

[5] Represents statistics for salaried employees at operations and at central and branch offices, including officers of corporations, managers, superintendents, and other supervisory personnel, responsible professional and technical employees, and clerical employees. Number of salaried employees represents number receiving pay on a representative or normal day or pay-roll period—for 1939, during normal pay-roll period ending nearest Oct. 14; for 1929, on Dec. 14 or on nearest representative day; for 1919, on Dec. 15 or on nearest representative day. Salaries represent total amount paid to salaried employees during calendar year.

[6] Represents statistics for proprietors and firm members at operations and at central and branch offices.

[7] Census statistics not available.

[8] For 1939 includes installation costs, which are excluded for 1929.

[9] Statistics for 1939 and 1929 refer to equipment in use or available for use at end of year.

[10] Includes equipment, with rating of 8,865 horsepower, operated by purchased power other than electric energy.

Source: Dept. of Commerce, Bureau of the Census; reports of Census of Mineral Industries, 1939, Vol. I.

No. 838.—Aluminum—Production, Exports, and Imports: 1913 to 1948

[See also *Historical Statistics*, series G 125–126, for earlier data on primary aluminum]

Year	Production						Imports [2]		Exports [2]	
	Quantity (1,000 pounds)			Value ($1,000)			Quantity (1,000 lb.)	Value ($1,000)	Quantity (1,000 lb.)	Value ($1,000)
	Total	Primary	Secondary	Total	Primary	Secondary [1]				
1913	56,587	47,279	9,308	11,649	9,450	2,199	25,095	4,388	----------	----------
1914	67,017	57,973	9,044	11,753	10,080	1,673	17,943	3,354	----------	----------
1915	107,504	90,504	17,000	22,082	16,280	5,802	9,294	1,766	----------	----------
1916	153,707	115,107	38,600	57,330	33,900	23,430	6,699	1,753	----------	----------
1917	162,061	129,861	32,200	62,594	45,882	16,712	89	35	----------	----------
1918	154,825	124,725	30,100	51,272	41,159	10,113	1,691	534	24,135	8,979
1919	165,859	128,477	37,382	50,573	38,558	12,015	13,852	4,531	5,020	1,745
1920	169,042	138,042	31,000	50,864	41,375	9,489	39,299	12,184	9,408	3,068
1921	72,332	54,532	17,800	14,681	10,906	3,775	32,559	7,628	2,196	801
1922	106,213	73,633	32,580	19,708	13,622	6,086	43,892	8,287	4,347	1,127
1923	171,258	128,658	42,600	39,130	28,305	10,825	42,477	8,317	5,540	1,518
1924	204,564	150,564	54,000	52,203	37,607	14,596	31,810	6,860	6,344	1,632
1925	228,116	140,116	88,000	61,246	36,430	24,816	41,997	9,806	12,642	3,366
1926	235,786	147,386	88,400	61,451	37,583	23,868	71,392	16,422	7,634	2,135
1927	256,007	163,607	92,400	62,736	39,266	23,470	62,575	13,317	14,523	3,479
1928	306,144	210,544	95,600	70,747	47,899	22,848	38,847	8,057	15,728	3,759
1929	324,773	227,973	96,800	74,999	51,864	23,135	50,881	9,935	17,032	4,150
1930	306,237	229,037	77,200	68,138	50,961	17,177	25,461	4,690	17,330	3,916
1931	238,145	177,545	60,600	50,010	37,284	12,726	14,833	2,540	4,701	986
1932	152,888	104,888	48,000	31,445	20,453	10,992	8,185	1,339	4,437	469
1933	152,125	85,125	67,000	31,517	16,174	15,343	15,247	2,746	5,708	600
1934	166,977	74,177	92,800	31,726	14,094	17,632	18,592	3,625	8,366	1,249
1935	222,095	119,295	102,800	41,088	22,070	19,018	21,291	3,694	3,970	694
1936	327,929	224,929	103,000	60,667	41,612	19,055	25,563	4,165	1,606	382
1937	417,801	292,681	125,120	79,382	55,609	23,773	45,178	6,883	5,384	1,261
1938	364,482	286,882	77,600	71,985	56,659	15,326	17,740	2,491	12,618	3,912
1939	434,984	327,090	107,894	85,909	64,600	21,309	28,673	3,385	74,216	20,892
1940	573,284	412,560	160,724	104,624	75,292	29,332	36,168	4,737	55,682	17,919
1941	831,848	618,134	213,714	135,102	100,395	34,707	26,826	3,619	14,924	4,793
1942	1,435,140	1,042,212	392,928	208,817	151,371	57,446	224,272	35,501	77,558	19,563
1943	2,468,280	1,840,358	627,922	355,926	265,380	90,546	271,644	41,303	235,276	59,093
1944	2,204,182	1,552,892	651,290	315,681	222,416	93,265	205,506	30,230	377,042	73,579
1945	1,586,894	990,120	596,774	226,161	140,864	85,297	678,570	98,285	13,406	3,116
1946	1,375,406	819,260	556,146	194,451	115,812	78,639	114,200	12,236	34,668	10,132
1947	1,833,174	1,143,500	689,674	259,077	161,626	97,451	62,658	6,300	126,242	33,188
1948	1,820,466	1,246,912	573,554	263,232	180,755	82,477	321,754	41,798	98,942	29,603

[1] Based upon average price of primary aluminum as reported to Bureau of Mines, or as quoted by the Engineering and Mining Journal and the American Metal Market.
[2] Includes aluminum and aluminum alloy ingots, scrap, plates, sheets, bars, etc.

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

No. 839.—Copper—Production, Exports, Imports, and Consumption: 1910 to 1948

[In short tons (2,000 pounds). Production figures for unrefined copper cover United States and Alaska. Output of copper from foreign crude materials also shown under refined copper production. Consumption as shown represents quantity withdrawn from total new supply on domestic account (apparent consumption) not actual consumption, largely because consumers' inventories are not taken into account. Over a period of years, however, apparent consumption data give a good indication of consumption trends]

ITEM	1910	1920	1930	1935	1940	1945	1947	1948
UNREFINED COPPER								
Copper ore produced (1,000 tons) [1]	28,497	36,765	47,382	19,112	69,278	77,473	87,865	84,729
Average copper yield, percent	1.88	1.63	1.43	1.89	1.20	.93	.90	.92
Smelter output from domestic ore	540,080	604,530	697,195	381,294	909,084	782,726	862,872	842,477
Mine production	544,119	612,275	705,074	380,491	878,086	772,894	847,563	834,813
Imports, unrefined: [2]								
Ore (copper content)	32,102	26,023	50,658	7,660	[3] 11,293	8,858	14,665	8,197
Concentrates (copper content)	10,511	23,399	28,435	30,198	[5] 71,574	48,632	71,193	81,103
Matte and regulus (copper content)		8,797	2,353	2,733	60,115	19,862	5,223	3,057
Unrefined, in bars, pigs, etc	[4] 129,605	122,348	280,235	197,975	278,212	243,101	167,378	155,836
REFINED COPPER PRODUCTION								
New copper (primary)	711,020	763,083	1,078,530	588,805	1,313,556	1,108,599	1,159,970	1,107,446
Domestic	535,947	591,212	695,612	338,321	927,239	775,738	909,213	860,022
Foreign	175,072	171,871	382,917	250,484	386,317	332,861	250,757	247,424
Secondary copper	94,500	312,460	467,200	448,900	532,046	1,006,516	961,741	972,788
From new scrap	30,000	143,500	125,000	87,200	198,156	509,421	458,365	467,324
From old scrap	64,500	168,960	342,200	361,700	333,890	497,095	503,376	505,464
REFINED COPPER CONSUMPTION								
New copper produced (refinery)	711,020	763,083	1,078,530	588,805	1,313,556	1,108,599	1,159,970	1,107,446
Refined copper imported [2]	(4)	54,372	43,105	18,071	68,337	531,367	149,482	249,124
Refined copper exported	[6] 354,158	275,613	334,626	275,006	377,108	[6] 48,563	[6] 147,642	[6] 142,598
Stocks, Dec. 31 (refined)	61,402	329,500	307,500	175,000	91,500	130,000	60,000	67,000
Withdrawn on domestic account:								
New refined copper	366,203	526,919	632,508	441,371	1,008,785	1,415,000	1,286,000	1,214,000
New and old copper	460,700	839,500	1,099,500	890,000	1,541,000	2,422,000	2,248,000	[7] 1,719,000

[1] Old tailings included beginning with 1930.
[2] For immediate consumption plus copper entering under bond.
[3] Ore from Philippine Islands included under concentrates.
[4] Imports of refined copper in ingots, bars, or other forms included in imports of unrefined.
[5] Includes small exports of unrefined black blister and converter copper (bars, pigs, etc.).
[6] Excludes refined copper in rods. [7] Old scrap only.

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

No. 840.—Copper—Mine Production, by States: 1910 to 1948

[In short tons (2,000 pounds) of recoverable copper]

STATE	1910	1920	1930	1935	1940	1945	1947	1948
Total	544,119	612,275	705,074	380,491	878,086	772,894	847,563	834,813
Alaska	2,121	35,218	16,326	7,750	55	5	12	16
Arizona	148,746	279,128	288,095	139,015	281,169	287,203	366,218	375,121
California	24,350	6,313	13,943	977	6,438	6,473	2,407	481
Colorado	4,180	2,022	5,257	7,327	12,152	1,485	2,150	2,298
Idaho	3,519	1,269	1,556	1,048	3,349	1,548	1,640	1,624
Michigan	111,342	77,348	84,691	32,054	45,198	30,401	24,184	27,777
Missouri		756	88	34	685	3,399	1,760	2,370
Montana	142,404	88,530	98,094	77,479	126,391	88,506	57,900	58,252
Nevada	32,180	25,280	54,602	37,133	78,454	52,595	49,603	46,242
New Mexico	2,307	27,200	32,575	2,253	69,848	56,571	60,205	74,687
Tennessee	8,419	8,364	(1)	(1)	[2] 12,732	[3] 12,385	[3] 12,686	[3] 14,248
Utah	63,799	58,466	90,263	64,758	231,864	226,376	266,533	227,007
Washington	43	992	603	43	9,612	5,821	2,240	5,605
Other States	710	1,390	19,282	10,620	139	126	25	25

[1] Included under "Other States."
[2] Includes North Carolina and Pennsylvania.
[3] Includes Pennsylvania and Vermont.

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

No. 841.—Copper—Smelter and Refinery Output: 1850 to 1948

[**Quantities in short tons (2,000 pounds); values in thousand of dollars.** Smelter output shown here represents production of unrefined copper from domestic (including Alaskan) ores. Figures on refinery output of copper from foreign crude materials (shown as imports in table 839) include copper from foreign materials smelted and refined or only refined in the United States. See also *Historical Statistics*, series G 112–113, for smelter output]

Yearly average or year	Smelter output from domestic ore		Year	Smelter output from domestic ore		Refinery output (quantity)			
						New copper			Secondary copper
	Quantity	Value		Quantity	Value	Total	Domestic	Foreign	
1850	728	320	1925	837,435	237,832	1,102,287	841,448	260,839	420,210
1860	8,064	3,709	1926	869,811	243,547	1,161,243	865,649	295,594	479,800
1870	14,112	5,977	1927	842,020	220,609	1,162,882	859,476	303,406	490,200
1871–1875	17,136	8,895	1928	912,950	262,930	1,243,804	895,899	347,905	536,400
1876–1880	24,976	9,679	1929	1,001,432	352,504	1,370,056	991,366	378,690	626,550
1881–1885	58,867	17,236	1930	607,195	181,271	1,078,530	695,612	382,917	467,200
1886–1890	105,214	30,345	1931	521,356	94,887	750,721	537,303	213,418	347,000
1891–1895	169,328	37,266	1932	272,005	34,273	340,434	222,539	117,895	248,180
1896–1900	265,544	74,424	1933	225,000	28,800	370,789	240,669	130,120	338,100
1901–1905	366,095	103,859	1934	244,227	39,076	445,360	233,029	212,331	377,400
1906–1910	490,248	150,924	1935	381,294	63,295	588,805	338,321	250,484	448,900
1911–1915	610,313	185,592	1936	611,410	112,499	822,489	645,462	177,027	484,600
1916–1920	821,799	395,270	1937	834,661	201,988	1,066,814	822,253	244,561	532,100
1921–1925	619,999	171,275	1938	562,328	110,216	792,416	552,574	239,842	359,800
1926–1930	864,682	252,172	1939	712,675	148,236	1,009,515	704,873	304,642	499,700
1931–1935	328,776	52,066	1940	909,084	205,453	1,313,556	927,230	386,317	532,046
1936–1940	726,032	155,678	1941	966,072	227,993	1,395,309	975,408	419,901	726,396
1941–1945	986,621	232,843	1942	1,087,991	[1] 256,766	1,414,561	1,064,792	349,769	927,755
1919	643,210	239,274	1943	1,092,939	[1] 257,934	1,379,263	1,082,079	297,184	1,086,047
1920	604,531	222,467	1944	1,003,379	[1] 236,797	1,221,187	973,852	247,335	950,942
1921	252,793	65,221	1945	782,726	[1] 184,723	1,108,599	775,738	332,861	1,006,516
1922	475,143	128,289	1946	599,656	[1] 172,701	878,662	578,429	300,233	803,546
1923	717,500	210,945	1947	862,872	[1] 360,680	1,159,970	909,213	250,757	961,741
1924	817,125	214,087	1948	842,477	[1] 365,635	1,107,446	860,022	247,424	972,788

[1] Excludes premiums paid to miners by Government.

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

No. 842.—Copper—Exports and Imports: 1891 to 1949

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

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

Yearly average or year	Exports		Imports [1]		Year	Exports		Imports [1]	
	Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value
1891–1895 [2]	65,586	14,392	5,477	896	1938	422,014	86,809	205,718	37,872
1896–1900 [2]	137,684	36,745	24,634	5,866	1939	427,579	97,185	230,669	44,230
1901–1905 [2]	190,451	54,942	88,237	22,611	1940	427,944	110,119	364,997	73,492
1906–1910 [2]	289,445	92,334	130,111	38,026	1941	158,906	47,690	720,708	141,789
1911–1915 [2]	416,840	123,655	176,635	46,129	1942	217,082	82,348	782,361	165,307
1916–1920 [3]	376,877	208,909	244,948	103,805	1943	296,016	108,719	736,464	156,514
1921–1925	438,337	129,761	298,975	77,811	1944	237,521	102,697	764,228	165,479
1926–1930	491,290	149,999	407,630	108,244	1945	132,592	55,212	896,239	194,672
1931–1935	246,658	39,920	211,116	29,662	1946	97,513	38,587	355,008	86,384
1936–1940	378,054	87,680	242,530	47,608	1947	197,114	102,489	452,822	175,829
1941–1945	208,423	79,333	780,000	164,752	1948	[4] 209,494	[4] 113,563	489,567	203,042
1937	350,317	93,626	227,479	52,562	1949	[4] 171,303	[4] 75,770	569,020	224,299

[1] Imports for consumption; general imports prior to 1933.
[2] Fiscal years ending June 30. [3] Average for period July 1, 1915, to Dec. 31, 1920.
[4] Effective January 1948, includes shipments under Army Civilian Supply Program.

Source: Department of Commerce, Bureau of the Census; annual report, Foreign Commerce and Navigation of the U. S., and records.

No. 843.—Gold and Silver—Production in Continental United States, Alaska, Puerto Rico, and Philippine Islands: 1792 to 1948

[Value of gold in terms of money, being at a fixed rate, is not shown in this table. Gold was valued at $20.67+ per fine troy ounce from 1837 until 1933. In 1933, however, various higher prices prevailed subsequently to Executive order of Aug. 29. Value of gold production for that year, as computed by Bureau of Mines, was $65,338,000, including $12,485,000 premium calculated at average weighted price ($25.56 per ounce). On Jan. 31, 1934, legal value of gold was fixed at $35 per fine ounce. Value given for silver is commercial value, except for 1921 to June 1923 and for 1934 and subsequent years (see footnotes 1 and 2), for which periods it has differed materially from coinage value. Excludes production of Philippine Islands after 1945. See also *Historical Statistics*, series G 118-121, for data excluding Puerto Rico and the Philippine Islands]

[Figures are totals for period or for year]

CALENDAR YEAR OR PERIOD	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)	Silver, value (1,000 dollars)	CALENDAR YEAR	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)	Silver, value (1,000 dollars)
1792-1847	1,187	310	405	1921	2,422	53,052	[1] 53,052
1848-1850	4,838	116	152	1922	2,363	56,240	[1] 56,240
1851-1855	14,271	194	259	1923	2,503	73,335	[1] 60,135
1856-1860	12,384	309	418	1924	2,529	65,407	43,823
1861-1865	10,716	28,811	38,674	1925	2,412	66,155	45,912
1866-1870	12,226	49,113	65,261	1926	2,335	62,719	39,136
1871-1875	8,826	121,083	156,270	1927	2,197	60,434	34,266
1876-1880	10,301	157,681	182,506	1928	2,233	58,463	34,201
1881-1885	7,730	182,841	202,807	1929	2,208	61,328	32,688
1886-1890	8,078	231,819	227,495	1930	2,286	50,748	19,538
1891-1895	9,107	287,057	227,960	1931	2,396	30,932	8,970
1896-1900	15,729	279,544	172,689	1932	2,449	23,981	6,763
1901-1905	19,394	278,708	159,543	1933	2,556	23,003	8,051
1906-1910	22,993	277,333	162,916	1934	3,091	32,725	[2] 21,156
1911-1915	22,968	338,384	189,626	1935	3,609	45,924	[2] 33,008
1916-1920	17,246	326,009	298,852	1936	4,357	63,812	[2] 49,423
1921-1925	12,229	314,190	[1] 259,162	1937	4,805	71,942	[2] 55,647
1926-1930	11,259	293,692	159,829	1938	5,090	62,665	[2] 40,511
1931-1935	14,102	156,565	[2] 77,948	1939	5,611	65,120	[2] 44,202
1936-1940	25,866	333,125	[2] 239,266	1940	6,003	69,586	[2] 49,483
1941-1945	13,064	234,041	[2] 166,430	1941	5,976	72,336	[2] 51,439
1912	4,521	63,767	39,198	1942	3,742	56,091	[2] 39,887
1913	4,300	66,802	40,348	1943	1,395	40,900	[2] 29,085
1914	4,573	72,455	40,068	1944	1,022	35,651	[2] 25,352
1915	4,888	74,961	37,397	1945	929	29,063	[2] 20,667
1916	4,479	74,415	48,953	1946	1,462	21,103	([3])
1917	4,051	71,740	59,078	1947	2,165	38,587	[2] 34,923
1918	3,321	67,810	66,485	1948	2,025	39,228	[2] 35,504
1919	2,919	56,682	63,534				
1920	2,476	55,362	60,802				

STATE OR OTHER AREA	GOLD (1,000 FINE OUNCES)					SILVER (1,000 FINE OUNCES)				
	1930	1940	1945	1947	1948	1930	1940	1945	1947	1948
Total	**2,286**	**6,003**	**929**	**2,165**	**2,025**	**50,748**	**69,586**	**29,063**	**38,587**	**39,228**
Alaska	407	757	60	320	221	392	173	9	72	56
Arizona	149	299	78	105	104	4,910	6,130	3,411	4,870	4,930
California	450	1,444	143	422	424	1,434	2,225	950	1,937	1,063
Colorado	218	369	102	175	161	4,852	9,378	2,407	2,967	3,156
Idaho	21	145	19	60	64	9,710	17,477	8,228	10,701	11,621
Michigan	------	------	------	------	------	11	90	20	------	1
Missouri	------	------	------	------	------	------	------	21	167	108
Montana	47	273	42	88	75	8,597	12,152	5,494	6,069	6,644
Nevada	140	380	91	105	119	4,179	5,102	1,156	2,106	1,950
New Mexico	32	39	13	10	9	1,160	1,576	654	617	604
Oregon	14	114	1	18	15	10	192	12	32	18
South Dakota	406	587	41	411	378	105	171	41	111	94
Texas	([4])	([4])	------	([4])	([4])	469	1,295	21	31	10
Utah	209	352	271	402	384	14,451	11,686	6,244	8,396	8,451
Washington	4	84	53	45	68	30	389	288	375	431
Philippine Islands	185	1,140	13	([5])	([5])	121	1,299	17	([5])	([5])
Other	3	20	2	3	3	317	251	90	136	86

[1] For 1921, 1922, and first half of 1923, price taken at figure of $1 per ounce fixed by Pittman Act.
[2] Value 1934-37 calculated on basis of average amount per ounce returned to depositors of newly-mined domestic silver: 1934, $0.64+ per fine ounce; 1935, $0.71875; 1936, $0.7745; 1937, $0.7735. Value thereafter calculated on basis of amount per fine ounce returned to depositors of newly-mined domestic silver produced: In 1938, $0.6464+; 1939, $0.6787+; July 1, 1939-46, $0.7111+; subsequent to July 1, 1946, $0.905.
[3] Not calculated. [4] Less than 500 ounces. [5] Excluded after 1945.

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

No. 844.—Gold and Silver for Use in Manufactures and the Arts: 1880 to 1948

Yearly average or year	Gold ($1,000)[1]			Silver (1,000 fine ounces)		
	Total amount of material issued	Amount of old material returned from use	Net material issued	Total amount of material issued	Amount of old material returned from use	Net material issued
1880	10,105	1,294	8,811	2,794	204	2,500
1881–1885	12,568	1,863	10,706	4,155	315	3,840
1886–1890	16,041	4,029	12,012	5,662	676	4,986
1891–1895	16,508	5,060	11,448	7,997	951	7,046
1896–1900	16,965	4,067	12,899	10,214	1,200	9,014
1901–1905	28,496	6,778	21,718	19,526	3,002	16,524
1906–1910	38,149	7,708	30,441	24,553	3,669	20,884
1911–1915	40,588	9,967	30,621	30,444	6,928	23,516
1916–1920	61,864	22,033	39,831	31,214	9,126	22,089
1921–1925	59,596	29,275	30,321	36,805	8,189	28,616
1926–1930	55,197	30,450	24,747	38,461	10,325	28,137
1931–1935	21,288	41,389	[2] *20,101*	33,631	20,353	13,278
1936–1940	36,543	32,393	4,150	52,481	21,249	31,232
1941–1945	100,699	25,323	75,376	149,455	41,794	107,662
1940	41,178	27,872	13,306	67,063	22,564	44,499
1941	67,977	30,975	37,002	92,794	20,285	72,509
1942	75,742	28,448	47,295	131,419	30,021	101,399
1943	96,864	10,521	86,343	162,113	44,113	118,000
1944	122,977	25,679	97,298	176,289	56,189	120,100
1945	139,936	30,992	108,944	184,661	58,361	126,300
1946	199,687	46,000	153,687	123,647	36,647	87,000
1947	98,130	49,230	48,900	126,366	27,866	98,500
1948	90,129	45,143	44,986	129,186	23,897	105,289

[1] Value prior to 1934 calculated on basis of $20.67+ per fine ounce; in 1934 and thereafter, $35.00 per fine ounce.
[2] Amount of old material returned from use exceeds total amount of material issued.

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

No. 845.—Iron Ore—Production, Shipments, Exports, and Imports, 1881 to 1948, and Production, by District and Kind, 1944 to 1948

[**In thousands of long tons (2,240 pounds).** Nearly all exports are to Canada. Since 1905, excludes ore containing 5 percent or more of manganese. See also *Historical Statistics*, series G 93–95, for production and shipments]

Yearly average or year	Production	Shipments[1]	Exports	Imports
1881–1890	10,385	(2)	(2)	766
1891–1900	17,551	(2)	(2)	587
1901–1910	41,339	(2)	271	1,180
1911–1915	51,595	50,592	953	1,841
1916–1920	69,737	70,224	1,143	967
1921–1925	52,429	52,617	677	1,691
1926–1930	64,600	64,952	1,021	2,709
1931–1935	22,732	23,538	389	1,166
1936–1940	54,951	56,054	989	2,338
1941–1945	96,336	96,356	2,214	1,023
1937	72,094	72,348	1,264	2,442
1938	28,447	26,431	592	2,122
1939	51,732	54,827	1,057	2,413
1940	73,696	75,198	1,386	2,479
1941	92,410	93,054	1,908	2,321
1942	105,526	105,989	2,515	731
1943	101,248	99,463	2,425	399
1944	94,118	95,136	2,158	464
1945	88,376	88,137	2,063	1,198
1946	70,843	70,090	1,506	2,754
1947	93,092	93,315	2,807	4,903
1948	101,003	100,822	3,081	6,109

Production	1944	1945	1946	1947	1948
District					
Lake Superior	79,111	74,821	59,042	76,532	82,630
Southeastern	7,122	6,330	6,247	7,527	8,365
Northeastern	3,849	3,620	2,596	3,987	4,423
Western	3,442	3,088	2,451	4,503	5,105
Undistributed (by-product ore)	593	517	507	543	480
Kind					
Hematite	86,727	81,295	65,728	84,535	90,686
Brown ore	1,219	943	686	1,201	2,176
Magnetite	5,579	5,621	3,921	6,812	7,661
Carbonate	1	1	1	------	------
Byproduct material (pyrites cinder and sinter)	593	517	507	543	480

[1] Excludes ore sold for paint.
[2] Not available.

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

No. 846.—Lead—Production of Refined Primary and Secondary Lead, 1830 to 1948, and by Class and Source, 1880 to 1948

[**Production in short tons (2,000 pounds); values, except price per pound, in thousands of dollars.** Figures, except those for antimonial and secondary lead, relate to new (primary) lead only; totals include lead derived from both domestic (including Alaska) and foreign ore. General production figures and production of desilverized lead exclude lead content of antimonial lead, shown in next to lastcolumn. See also *Historical Statistics*, series G 114–115, for data on production and value excluding foreign base bullion]

YEAR	Production	Value	YEAR	Production	Value	YEAR	Production	Value
1830	8,000	608	1900	367,773	32,364	1940	533,179	53,318
1840	17,000	1,666	1905	388,307	36,501	1942	566,839	71,422
1850	22,000	2,112	1910	470,272	41,384	1943	469,612	60,110
1860	15,600	1,778	1915	550,055	51,705	1944	464,763	59,490
1870	17,830	2,247	1920	529,657	84,745	1945	443,585	56,780
1880	95,725	9,573	1925	766,969	133,453	1946	338,197	56,820
1890	157,844	14,206	1930	643,033	64,303	1947	441,010	126,130
1895	236,822	15,093	1935	324,560	25,965	1948	406,694	145,600

YEAR	Class: Desilverized [1] [2]	Class: Soft undesilverized [2]	Source: Domestic ores and bullion [3]	Source: Foreign ores	Source: Foreign base bullion	Average value per pound	Antimonial lead, at primary refineries	Secondary lead recovered, total
1880	68,035	27,690	95,725			$0.050	(4)	
1890	126,493	31,351	139,720	18,124		.045	(4)	
1900	319,752	48,021	260,918	106,855		.044	(4)	
1910	328,954	141,318	375,402	18,065	76,805	.044	(4)	55,422
1920	339,803	189,854	476,849	8,414	44,394	.080	(4)	124,650
1930	441,672	201,361	573,740	34,348	34,945	.050	24,797	255,800
1935	227,777	96,783	310,505	13,659	396	.040	16,384	270,400
1940	379,856	153,323	433,065	83,563	16,551	.050	29,762	260,346
1942	(4)	(4)	467,367	81,485	17,987	.063	51,762	323,001
1943	(4)	(4)	406,544	62,936	132	.064	63,515	342,094
1944	(4)	(4)	394,443	70,225	95	.064	57,902	331,416
1945	(4)	(4)	356,535	86,932	118	.064	56,495	363,039
1946	(4)	(4)	293,309	44,790	98	.084	50,480	392,787
1947	(4)	(4)	381,109	59,838	63	.143	86,075	511,970
1948	(4)	(4)	339,413	60,829	6,452	.179	100,764	500,071

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

No. 847.—Lead, Recoverable—Mine Production, by States and for Alaska: 1920 to 1948

[In short tons (2,000 pounds)]

STATE	1920	1925	1930	1935	1940	1945	1946	1947	1948
Total	496,814	684,439	558,313	331,103	457,392	390,831	335,475	384,221	390,476
Western States and Alaska	248,131	364,387	312,413	193,439	244,974	184,152	165,092	221,357	252,156
Alaska	875	789	1,365	670	779	11	115	264	329
Arizona	6,935	11,938	4,246	7,783	13,266	22,867	23,930	28,566	29,899
Colorado	23,315	31,483	22,130	5,673	11,476	17,044	17,036	18,696	25,143
Idaho	118,565	126,521	134,058	79,020	104,834	68,447	59,987	78,944	88,544
Montana	14,846	18,765	10,653	15,589	23,036	9,999	8,280	16,108	18,411
Nevada	10,100	12,238	11,520	12,676	7,499	6,275	7,175	7,161	9,777
New Mexico	1,435	3,210	10,378	7,289	3,822	7,662	4,899	6,383	7,653
Utah	66,898	153,335	115,495	63,510	75,688	40,817	30,711	49,698	55,950
Washington	2,749	2,814	576	103	2,555	3,802	2,987	5,359	7,147
Other	2,413	3,294	1,083	1,126	2,019	7,228	9,972	10,178	9,303
Central States	246,780	317,375	237,533	132,682	207,587	201,520	164,804	157,543	132,386
Kansas	16,452	22,775	12,910	10,892	11,927	7,370	6,445	7,285	8,386
Missouri	161,812	211,566	199,632	97,493	172,052	176,575	139,112	132,246	102,288
Oklahoma	64,086	79,046	23,052	23,405	21,240	12,664	13,697	14,289	16,918
Other	4,430	3,088	1,939	892	2,368	4,911	5,550	3,723	4,794
Eastern States	[1] 1,903	2,677	8,367	4,982	4,831	5,159	5,579	5,321	5,934
New York					1,973	862	1,073	1,496	1,231
Tennessee	1,880	448	8,367	4,982	573	54	125	22	
Virginia		2,229			2,285	4,243	4,381	3,803	4,703

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

Source of tables 846 and 847: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 848.—Zinc—Production of Ore, by States, Smelter Production, and Primary Slab Zinc Available for Consumption: 1920 to 1948

[All quantity figures in short tons (2,000 pounds); values in thousands of dollars. Excess of mine production over smelter production is due chiefly to export of ore. See also *Historical Statistics*, series G 116 for smelter production of primary zinc]

ITEM	1920	1925	1930	1935	1940	1945	1947	1948
Mine production (recoverable zinc content of ore)	537,524	710,847	595,425	517,903	665,068	614,358	637,608	629,977
Arizona	729	3,666	815	3,337	15,456	40,226	54,644	54,478
Colorado	24,395	30,811	36,259	1,202	5,060	35,773	38,745	45,164
Idaho	13,966	15,619	37,649	31,053	70,601	83,463	83,069	86,267
Kansas	61,073	118,778	74,304	54,110	57,032	48,394	41,497	35,577
Missouri	24,509	14,794	10,811	7,263	12,703	22,175	17,074	6,463
Montana	92,169	57,658	26,421	54,781	52,537	17,403	45,679	59,095
Nevada	5,349	7,411	14,584	15,536	11,833	21,457	16,970	20,288
New Jersey	78,511	89,261	97,626	85,708	91,406	81,392	76,871	76,332
New Mexico	5,007	9,246	32,765	22,126	30,313	40,295	44,103	41,502
New York	5,654	5,158	22,471	23,720	35,686	24,978	34,116	34,566
Oklahoma	219,727	283,371	136,153	129,763	162,935	69,300	51,062	43,821
Tennessee	19,217	16,256	[1] 48,147	[1] 48,832	[1] 51,723	[1] 49,899	[1] 48,000	[1] 45,406
Utah	4,079	26,306	44,495	31,107	43,788	33,630	43,673	41,490
Washington	213	609	352	1	11,560	11,693	13,800	12,638
Wisconsin	27,285	20,230	12,558	8,923	5,770	15,561	12,224	7,864
Other States	5,641	11,673	15	441	6,615	18,719	16,081	19,026
Smelter production (excluding remelted secondary zinc)	484,748	612,127	532,894	449,284	724,192	813,803	862,037	850,084
Primary zinc	463,377	572,946	498,045	420,634	675,275	764,561	802,495	787,764
From domestic ore	450,045	555,631	489,361	412,184	589,988	467,084	510,058	537,966
From foreign ore	13,332	17,315	8,684	[2] 8,450	[2] 85,287	[2] 297,477	292,437	249,798
Secondary, redistilled	21,371	39,181	[3] 34,849	28,650	48,917	49,242	59,542	62,320
Value of primary product from domestic ore ($1,000)	72,907	84,456	46,979	36,272	74,338	[4] 80,338	[4] 109,152	[4] 143,099
Primary slab zinc:								
Supply, total	500,170	593,700	584,230	549,861	775,471	1,094,721	1,050,320	948,093
Stock at smelters, Jan. 1	36,793	20,754	85,904	124,783	83,728	233,044	175,513	67,046
Production	463,377	572,946	498,045	420,634	675,275	764,561	802,495	787,764
Imports for consumption	(5)	(5)	281	4,444	[6] 16,468	[6] 97,116	[6] 72,312	[6] 93,283
Deductions:								
Exports	102,178	76,351	4,633	1,617	79,091	7,782	106,669	65,757
Stock at smelters, Dec. 31	71,037	13,080	167,293	90,539	19,212	254,692	67,046	19,179
Apparent deliveries to domestic consumers	326,955	504,269	412,304	457,705	677,168	826,627	(7)	(7)

[1] Includes Virginia.
[2] From Mexico in 1935; from Mexico, Canada, Newfoundland, and Peru in 1940; and from Mexico, Canada, Australia, Peru, Newfoundland, Argentina, and Bolivia in 1945.
[3] Includes small quantity of secondary electrolytic zinc. [4] Excludes premiums paid to miners by Government.
[5] Less than one-half of 1 ton. [6] General imports. [7] Not available.

No. 849.—Zinc, Primary—Smelter Production From Domestic Ore: 1875 to 1948

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

YEARLY AVERAGE OR YEAR	Quantity	Value [1]	YEARLY AVERAGE OR YEAR	Quantity	Value [1]	YEAR	Quantity	Value [1]
1875	15,833	[2] 2,217	1921–1925	426,261	56,149	1939	491,058	51,070
1880 [3]	23,239	2,277	1926–1930	576,395	73,119	1940	589,988	74,338
1885	40,688	3,540	1931–1935	314,541	25,432	1941	652,599	97,890
1886–1890	54,285	5,219	1936–1940	512,004	57,619	1942	620,957	[4] 109,613
1891–1895	82,396	6,787	1941–1946	583,669	[4] 97,772	1943	594,250	[4] 102,211
1896–1900	109,963	10,180	1934	355,366	30,561	1944	574,453	[4] 98,806
1901–1905	169,504	17,067	1935	412,184	36,272	1945	467,084	[4] 80,338
1906–1910	219,378	24,165	1936	491,803	49,180	1946	459,205	[4] 81,738
1911–1915	346,867	52,416	1937	551,165	71,651	1947	510,058	[4] 109,152
1916–1920	508,731	99,812	1938	436,007	41,857	1948	537,966	[4] 143,099

[1] Values at New York prices through 1907; at St. Louis prices, 1908 to 1914; at average price of all grades, 1915 and later years.
[2] Computed at yearly average of high and low monthly prices at New York.
[3] Census year ended May 31. [4] Excludes premiums paid to miners by the Government.

Source of tables 848 and 849: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 850.—Coal—Production, 1821 to 1948, and by States, 1926 to 1948

[**Quantities in thousands of short tons (2,000 pounds); values in thousands of dollars.** Figures relate to mines having an output of 1,000 tons or more a year for 1919, 1921, 1924 and subsequent years. Includes coal consumed at mines. Figures for anthracite relate to Pennsylvania output only; those for bituminous relate to continental United States and Alaska. Bituminous coal includes lignite and small amounts of anthracite outside Pennsylvania. Comparatively little coal is held in stock at the mines. See also *Historical Statistics*, series G 13–18]

Year or yearly average	Quantity			Year	Quantity			Value	
	Total	Anthracite	Bituminous		Total	Anthracite	Bituminous	Anthracite	Bituminous [1]
1821–1830	140	66	75	1925	581,870	61,817	520,053	327,665	1,060,402
1831–1840	1,032	722	310	1926	657,804	84,437	573,367	474,164	1,183,412
1841–1850	4,535	2,697	1,837	1927	597,859	80,096	517,763	420,942	1,029,657
1851–1860	12,513	7,645	4,868	1928	576,093	75,348	500,745	393,638	933,774
1861–1865	20,538	11,142	9,396	1929	608,817	73,828	534,989	385,643	952,781
1866–1870	31,706	16,281	15,425	1930	536,911	69,385	467,526	354,574	795,483
1871–1875	52,179	23,407	28,773	1931	441,735	59,646	382,089	296,355	588,895
1876–1880	62,261	25,800	36,461	1932	359,565	49,855	309,710	222,375	406,677
1881–1885	107,291	36,198	71,093	1933	383,172	49,541	333,631	206,718	445,788
1886–1890	138,398	43,952	94,446	1934	416,536	57,168	359,368	244,152	628,383
1891–1895	178,822	53,405	125,416	1935	424,532	52,159	372,373	210,131	658,063
1896–1900	227,123	55,625	171,498	1936	493,668	54,580	439,088	227,004	770,955
1901–1905	339,357	66,854	272,503	1937	497,387	51,856	445,531	197,599	864,042
1906–1910	454,555	81,142	373,413	1938	394,644	46,099	348,545	180,600	678,653
1911–1915	529,189	89,233	439,956	1939	446,342	51,487	394,855	187,175	728,348
1916–1920	626,386	92,741	533,645	1940	512,257	51,485	460,772	205,490	879,327
1921–1925	558,947	77,648	481,299	1941	570,517	56,368	514,149	240,275	1,125,363
1926–1930	595,497	76,619	518,878	1942	643,021	60,328	582,693	271,673	1,373,991
1931–1935	405,108	53,674	351,434	1943	650,821	60,644	590,177	306,816	1,584,644
1936–1940	468,860	51,101	417,758	1944	683,277	63,701	619,576	354,583	1,810,901
1941–1945	636,037	59,195	576,843	1945	632,551	54,934	577,617	323,944	1,768,204
1922	476,951	54,683	422,268	1946	594,429	60,507	533,922	413,417	1,835,539
1923	657,904	93,339	564,565	1947	687,814	57,190	630,624	413,019	2,622,635
1924	571,613	87,927	483,687	1948	656,658	57,140	599,518	467,052	2,993,267

State	1926–1930	1931–1935	1936–1940	1941–1945	1944	1945	1946	1947	1948
Total quantity	595,497	405,108	468,860	636,037	683,277	632,551	594,429	687,814	656,658
Anthracite (Pa.)	76,619	53,674	51,101	59,195	63,701	54,934	60,507	57,190	57,140
Bituminous	518,878	351,434	417,758	576,842	619,576	577,617	533,922	630,624	599,518
Alabama	18,380	9,252	12,620	17,783	18,752	18,236	16,183	19,048	18,801
Arkansas	1,579	1,012	1,387	1,821	1,972	1,854	1,631	1,871	1,662
Colorado	9,665	5,711	6,435	7,830	8,168	7,621	5,914	6,358	5,631
Illinois	57,310	40,198	48,367	68,442	76,792	73,011	63,469	67,860	65,342
Indiana	18,467	14,386	17,232	25,216	27,962	25,183	21,697	25,449	23,849
Iowa	3,879	3,492	3,376	2,569	2,141	2,046	1,788	1,684	1,670
Kansas	3,215	2,270	2,949	3,654	3,369	3,228	2,493	2,745	2,538
Kentucky	61,116	38,130	44,970	64,020	71,356	69,593	66,553	84,241	82,084
Maryland	2,700	1,654	1,496	1,854	1,870	1,763	2,003	2,051	1,661
Michigan	705	492	510	195	140	126	80	14	13
Missouri	3,538	3,624	3,577	3,947	4,779	3,983	3,733	4,236	4,023
Montana	3,139	2,396	2,871	4,245	4,844	4,467	3,723	3,178	2,898
New Mexico	2,612	1,338	1,378	1,600	1,744	1,484	1,280	1,443	1,364
North Dakota	1,622	1,750	2,161	2,447	2,366	2,522	2,555	2,760	2,961
Ohio	21,111	19,151	22,188	32,190	33,877	32,737	32,314	37,548	38,708
Oklahoma	3,346	1,368	1,444	2,623	3,209	2,909	2,647	3,421	3,462
Pennsylvania	137,038	86,592	101,556	138,876	146,052	132,065	125,497	147,079	134,542
Tennessee	5,544	4,062	5,197	7,184	7,266	6,271	5,618	6,258	6,483
Texas	1,107	738	816	200	[2] 109	[2] 80	[2] 56	[2] 61	[2] 57
Utah	4,683	2,846	3,373	6,012	7,119	6,679	5,994	7,429	6,813
Virginia	12,521	8,923	13,324	19,121	19,514	17,235	15,527	20,171	17,999
Washington	2,513	1,555	1,744	1,641	1,524	1,357	991	1,118	1,220
West Virginia	136,315	95,748	112,932	154,335	164,704	152,035	144,020	176,157	168,862
Wyoming	6,526	4,545	5,617	8,664	9,540	9,847	7,635	8,051	6,412
Other States and Alaska	246	201	238	374	407	385	521	393	463

[1] Excludes selling expenses through 1936 and for 1939. Data for other years include selling expenses.
[2] Lignite only.

Source: Department of the Interior, Bureau of Mines; Minerals Yearbook. Current data also published in annual report, Bituminous Coal and Lignite.

No. 851.—Coal—Exports, Imports, and Bunker Coal Laden on Vessels in Foreign Trade: 1891 to 1949

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

Yearly average or year	Total exports [1]		Anthracite exports		Bituminous exports [1]		Total imports [2]		Bunker coal	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1891–1895 [3]	3,391	10,012	1,263	4,929	2,128	5,081	1,385	3,984		
1896–1900 [3]	5,275	13,300	1,645	6,268	3,630	7,032	1,571	3,831		
1901–1905 [3]	8,680	24,254	2,068	8,782	6,611	15,472	2,561	6,376		
1906–1910 [4]	13,460	36,805	2,964	13,034	10,497	23,770	1,934	4,530	[5] 6,315	[5] 18,291
1911–1915	21,428	58,362	4,203	19,624	17,224	38,738	1,609	4,069	8,164	23,890
1916–1920	30,419	151,356	5,205	32,960	25,215	118,396	1,409	5,788	8,276	43,975
1921–1925	22,234	124,958	3,922	38,476	18,312	86,482	2,053	11,364	5,497	31,588
1926–1930	23,881	115,057	3,330	32,750	20,551	82,308	969	5,717	4,875	23,126
1931–1935	11,523	47,942	1,404	12,487	10,118	35,455	753	4,295	1,551	6,709
1936–1940	14,622	62,696	2,152	16,867	12,469	45,828	[6] 661	[6] 3,327	1,541	7,370
1941–1945	28,669	155,696	3,967	36,167	24,702	119,529	[6] 628	[6] 3,009	1,644	10,132
1944	30,218	172,910	4,186	40,580	26,032	132,330	[6] 645	[6] 3,071	1,559	9,940
1945	31,647	184,389	3,691	36,435	27,956	147,954	[6] 468	[6] 2,295	1,785	11,911
1946	47,706	301,931	6,497	63,844	41,209	238,087	[6] 444	[6] 2,308	1,381	9,894
1947	77,177	618,919	8,510	90,220	68,667	528,700	[6] 300	[6] 1,613	1,689	13,971
1948 [7]	52,606	479,029	6,676	86,203	45,930	392,826	[6] 292	[6] 2,010	1,057	9,855
1949 [7]	32,785	297,179	4,943	64,786	27,842	232,393	[6] 315	[6] 2,368	874	8,330

[1] Not including fuel or bunker coal laden on vessels engaged in foreign trade.
[2] Including lignite, slack, and culm. [3] Fiscal years ending June 30. [4] Average, July 1, 1905–Dec. 31, 1910.
[5] Not including data for coal laden on vessels on Great Lakes in 1906, 1907, and 1908.
[6] Imports for consumption, general imports prior to 1933.
[7] Effective January 1948, export data include shipments under Army Civilian Supply Program.

Source: Department of Commerce, Bureau of Census; annual report, Foreign Commerce and Navigation of the United States, and records.

No. 852.—Coal—Shipments, Value, and Employment in Mines: 1890 to 1948

[See also *Historical Statistics*, series G 19–42, for items other than disposition of coal produced]

Calendar year	Disposition of coal produced thousand tons (2,000 pounds)				Average value per ton at mines [1]	Average number of men employed	Average number of days worked	Average tonnage per man—		Percent mined by machine [2]	Capacity of mines [3] (million tons [4])
	Loaded for shipment	Sold locally	Used by mines	Made into coke at mines				Per day	Per year		
Anthracite											
1890	41,011	2,001	3,457	--------	$1.43	126,000	200	1.85	369	(5)	71
1895	52,093	1,315	4,591	--------	1.41	142,917	196	2.07	406	(5)	90
1900	50,710	1,208	5,550	--------	1.49	144,206	166	2.40	398	(5)	105
1905	69,053	1,571	7,036	--------	1.83	165,406	215	2.18	470	(5)	110
1910	73,623	2,021	8,841	--------	1.90	169,497	229	2.17	498	(5)	112
1915	76,906	2,092	9,997	--------	2.07	176,552	230	2.19	504	1.5	118
1920	76,844	2,897	9,858	--------	4.85	145,074	271	2.28	618	1.1	101
1925	53,768	2,885	5,164	--------	5.30	160,312	182	2.12	386	1.6	103
1930	61,202	3,144	5,038	--------	5.11	150,804	208	2.21	460	2.0	90
1935	46,538	2,875	2,746	--------	4.03	103,269	189	2.68	505	3.5	84
1940	46,176	3,053	2,256	--------	3.99	91,313	186	3.02	562	3.5	84
1945	48,542	4,274	2,118	--------	5.90	72,842	269	2.79	751	2.2	62
1947	51,052	4,233	1,905	--------	7.22	78,600	269	2.78	720	2.1	66
1948	50,483	4,796	1,861	--------	8.17	76,215	265	2.81	745	1.8	65
Bituminous											
1890	87,373	7,008	1,607	15,332	.99	192,204	226	2.56	579	[6] 5.3	151
1895	106,287	8,340	2,086	18,404	.86	239,962	194	2.90	563	[7] 11.9	216
1900	173,072	7,868	3,740	27,635	1.04	304,375	234	2.98	697	24.9	281
1905	255,201	10,639	7,007	42,412	1.06	460,629	211	3.24	684	32.8	459
1910	342,969	12,287	9,668	52,187	1.12	555,533	217	3.46	751	41.7	592
1915	379,877	12,354	9,799	40,595	1.13	557,456	203	3.91	794	55.0	671
1920	504,873	21,289	11,896	30,608	3.75	639,547	220	4.00	881	59.8	798
1925	477,173	21,351	5,776	15,753	2.04	588,493	195	4.52	884	70.6	823
1930	437,399	22,121	3,993	4,014	1.70	493,202	187	5.06	948	77.5	770
1935	338,069	29,734	3,103	1,468	1.77	462,403	179	4.50	805	78.8	640
1940	409,881	44,403	2,443	4,045	1.91	439,075	202	5.19	1,049	80.1	703
1945	518,020	51,248	2,442	5,907	3.06	383,100	261	5.78	1,508	73.5	682
1947	557,084	55,859	(5)	(5)	4.16	[8] 419,182	234	6.42	1,504	70.1	830
1948	524,929	58,260	(5)	(5)	4.99	[8] 441,631	217	6.26	1,358	69.6	851

[1] Figures for bituminous coal represent average value per ton less selling expense (Bur. of Mines series) prior to 1937; thereafter, average gross realization including selling expense (Bit. Coal Div. series).
[2] Based on total production as shown in table 850.
[3] Calculated at 303.5 working days in the anthracite field and 308 working days in the bituminous field.
[4] Of 2,000 pounds. [5] Not available. [6] 1891. [7] 1896. [8] Average number of men working daily.

Source: Department of Interior, Bureau of Mines; Minerals Yearbook. Current data also published in annual report, Bituminous Coal and Lignite.

No. 853.—Consumption of Bituminous Coal and Lignite, by Consumer Class, With Retail Deliveries: 1939 to 1948

[In thousands of short tons]

Year	Total of classes shown	Colliery fuel	Electric power utilities [1]	Bunker, foreign trade [2]	Railroads (class I) [3]	Coke: Beehive ovens	Coke: By-product ovens	Steel and rolling mills	Coal-gas retorts	Cement mills [4]	Other industrials [5]	Retail-dealer deliveries [6]
1939	377,773	2,565	43,979	1,477	79,072	2,298	61,216	9,808	1,614	5,274	98,900	71,570
1940	432,757	2,443	50,973	1,426	85,130	4,803	76,583	10,040	1,746	5,633	106,280	87,700
1941	494,088	2,489	61,861	1,643	97,384	10,529	82,609	10,902	1,659	6,832	120,720	97,460
1942	542,214	2,708	65,636	1,585	115,410	12,876	87,974	10,434	1,721	7,570	131,550	104,750
1943	596,164	2,702	76,403	1,647	130,283	12,441	90,019	11,238	1,605	5,851	141,211	122,764
1944	591,830	2,712	78,887	1,559	132,049	10,858	94,438	10,734	1,545	3,789	130,353	124,906
1945	559,567	2,442	71,603	1,785	125,120	8,135	87,214	10,084	(6)	4,215	127,164	121,805
1946	500,386	1,951	68,743	1,381	110,166	7,167	76,121	8,603	(6)	7,009	118,659	100,586
1947	557,243	(6)	86,009	1,689	109,296	10,475	94,325	10,048	(6)	7,938	138,300	99,163
1948	536,672	(6)	95,620	1,057	94,838	10,322	96,984	10,046	(6)	8,554	129,504	89,747

[1] Federal Power Commission. Represents consumption by public-utility power plants in power generation, including a small quantity of coke amounting to approximately 100,000 tons annually.
[2] U. S. Bureau of Census.
[3] Association of American Railroads. Represents consumption by class I railways for all uses, including locomotive, powerhouse, shop, and station fuel. The I. C. C. reports that in 1948 consumption for all uses by class I line-haul railways, plus purchases for class II and class III railways, plus purchases by all switching and terminal companies combined, was 99,793,401 tons of bituminous coal and lignite.
[4] Includes small amount of anthracite.
[5] Estimates based upon reports collected from a selected list of representative manufacturing plants and retail dealers. [6] Included in "Other industrials."

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

No. 854.—Work Stoppages in Anthracite and Bituminous Coal Mining Industries, by Major Issues Involved: 1937 to 1949

[Excludes work stoppages involving fewer than 6 workers or lasting less than 1 day. Figures are for stoppages beginning in years shown. For combined statistics covering work stoppages in all industries, see table 250, p. 208]

Coal-mining industry and year	Number of work stoppages [1]: Total	Major issues: Wages and hours	Major issues: Union organization [2]	Major issues: Miscellaneous	Number of workers involved [3]: Total	Major issues: Wages and hours	Major issues: Union organization [2]	Major issues: Miscellaneous	Number of man-days idle: Total	Major issues: Wages and hours	Major issues: Union organization [2]	Major issues: Miscellaneous
Anthracite:												
1937	32	13	1	18	59,600	24,902	480	34,218	606,656	144,548	15,360	446,748
1938	17	4	3	10	26,416	2,316	5,325	18,775	357,854	35,191	181,577	141,086
1939	25	3	5	17	22,664	2,813	1,057	18,794	77,909	3,773	15,271	58,865
1940	25	1	3	21	17,355	62	2,308	14,985	105,399	496	30,470	74,433
1941	27	5	1	21	136,888	92,557	1,552	42,779	423,299	97,023	6,208	320,068
1942	31	10	------	21	36,153	19,142	------	17,011	225,921	148,460	------	77,461
1943	30	12	------	18	117,623	88,296	------	29,327	1,836,486	1,552,457	------	284,029
1944	61	18	1	42	40,624	14,278	6,730	19,616	326,922	209,054	43,590	74,278
1945	43	18	------	25	87,700	74,500	------	13,200	1,163,000	1,108,000	------	55,000
1946	34	5	1	28	109,000	81,700	20	27,600	649,000	545,000	310	104,000
1947	28	6	------	22	21,300	6,520	------	14,800	159,000	105,000	------	53,800
1948	26	5	1	20	54,500	5,710	20	48,800	274,000	33,000	100	241,000
1949	34	8	------	26	218,000	72,500	------	145,000	1,400,000	600,000	------	799,000
Bituminous:												
1937	54	11	21	22	99,253	45,913	27,878	25,462	1,924,951	1,048,642	400,759	475,550
1938	27	6	10	11	9,505	2,196	2,324	4,985	132,855	8,422	24,151	100,282
1939	25	2	11	12	355,383	1,102	346,524	7,757	7,302,556	22,243	7,191,984	88,329
1940	34	4	10	20	24,372	272	3,451	20,649	153,296	15,954	16,214	121,128
1941	75	19	13	43	593,352	383,820	63,180	146,343	6,747,986	5,589,678	710,220	448,088
1942	96	25	11	60	43,774	15,551	3,137	25,086	264,468	134,100	15,632	114,736
1943	400	177	17	206	487,474	423,801	3,137	60,536	7,510,397	7,247,829	23,141	239,427
1944	702	208	52	532	229,907	50,918	46,207	132,782	1,056,341	207,859	266,646	581,836
1945	598	144	49	399	581,500	203,100	238,500	139,400	5,007,000	984,000	3,308,000	713,000
1946	485	102	42	341	834,000	708,000	10,300	116,000	19,500,000	18,800,000	142,000	512,000
1947	415	74	22	319	490,000	20,400	347,000	122,000	2,190,000	184,000	1,550,000	450,000
1948	561	82	42	437	582,000	337,000	51,900	192,000	9,560,000	8,230,000	438,000	900,000
1949	421	50	27	344	1,130,000	345,000	3,000	780,000	16,700,000	12,400,000	39,800	4,220,000

[1] Formerly designated "strikes and lockouts."
[2] Wages and hours were important issues also in some of these disputes. This is especially true in recent years.
[3] Includes some duplication (where same workers were involved in more than 1 stoppage). This is particularly significant in 1949, since over 60,000 anthracite miners and over 300,000 bituminous coal miners were involved in 3 separate stoppages during year.

Source: Department of Labor, Bureau of Labor Statistics; Bulletin No. 651, Strikes in the United States, 1880-1936; annual bulletins on work stoppages, and official records.

No. 855.—Coke—Production, Exports, and Imports: 1896 to 1948

[See also *Historical Statistics*, series G 43-56]

Yearly average or year	Production in thousands of short tons (2,000 pounds)			Oven coke, percent of total	Production (value) in thousands of dollars	Exports	Imports [1]
	Total	Beehive coke	Oven coke			Thousands of short tons (2,000 pounds)	
1896-1900	16,265	15,741	524	3.2	30,293	265	54
1901-1905	25,673	23,566	2,107	8.2	58,581	519	150
1906-1910	36,848	31,296	5,552	15.1	91,068	904	159
1911-1915	40,394	29,000	11,394	28.2	103,739	897	98
1916-1920	52,429	27,733	24,696	47.1	320,799	1,182	34
1921-1925	42,985	11,026	31,959	74.4	251,967	734	99
1926-1930	53,724	6,687	47,037	87.6	262,212	1,027	171
1931-1935	29,965	927	29,038	96.9	145,035	716	171
1936-1940	46,509	2,042	44,467	95.8	229,455	616	201
1941-1945	69,756	7,020	62,736	89.9	458,232	978	118
1936	46,275	1,706	44,569	96.3	232,374	670	330
1937	52,375	3,165	49,211	94.0	261,004	527	286
1938	32,496	837	31,658	97.4	167,182	487	135
1939	44,327	1,444	42,882	96.7	212,884	590	142
1940	57,072	3,058	54,014	94.6	273,832	804	113
1941	65,187	6,704	58,482	89.7	352,967	709	268
1942	70,569	8,274	62,295	88.3	425,614	840	109
1943	71,676	7,933	63,743	88.9	476,117	995	98
1944	74,038	6,973	67,065	90.6	527,922	867	63
1945	67,308	5,214	62,094	92.3	508,540	1,479	52
1946	58,498	4,568	53,929	92.2	486,729	1,231	52
1947	73,446	6,687	66,759	90.9	776,406	835	104
1948	74,862	6,578	68,284	91.2	928,282	706	161

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

No. 856.—Coke—Oven and Beehive Production, by States: 1915 to 1948

[In thousands of short tons (2,000 pounds). Exclusive of screenings or breeze]

State	1915	1920	1925	1930	1935	1940	1945	1946	1947	1948
Oven										
Total	**14,073**	**30,834**	**39,912**	**45,196**	**34,224**	**54,014**	**62,094**	**53,929**	**66,759**	**68,284**
Alabama	2,070	3,124	4,582	3,987	1,994	4,727	5,401	4,666	5,870	6,015
Colorado	-------	517	490	379	207	544	639	559	850	977
Illinois	1,687	2,137	3,012	3,576	1,669	3,015	3,682	3,192	3,805	3,675
Indiana	2,768	4,554	5,142	4,984	3,768	6,413	7,814	6,652	8,786	8,584
Maryland	313	682	1,019	1,169	930	1,683	2,025	1,662	1,975	2,148
Massachusetts	504	488	535	863	1,006	1,130	1,150	1,046	1,196	1,057
Michigan	(1)	1,393	1,751	2,604	2,482	2,872	2,806	2,500	2,819	2,850
Minnesota	128	675	518	641	430	524	826	861	898	846
New Jersey	269	726	904	919	917	1,016	1,284	1,259	1,432	1,411
New York	684	1,040	2,220	3,850	4,099	5,080	5,790	5,043	5,670	5,687
Ohio	666	5,615	7,105	6,163	5,101	7,898	9,406	8,452	10,069	10,562
Pennsylvania	3,092	7,730	9,853	12,529	8,078	14,862	15,255	12,795	16,475	16,650
West Virginia	141	447	1,056	1,479	1,604	1,900	2,462	2,162	2,822	3,298
All other States	1,749	1,706	1,725	2,051	1,939	2,350	3,556	3,082	4,091	4,524
Beehive										
Total	**27,508**	**20,511**	**11,355**	**2,776**	**917**	**3,058**	**5,214**	**4,568**	**6,687**	**6,578**
Pennsylvania	22,531	15,908	9,574	2,011	564	2,550	4,584	4,027	5,913	5,734
Ohio	19	87	156	-------	-------	-------	-------	-------	-------	-------
West Virginia	1,250	1,381	490	422	155	233	288	221	378	352
Alabama	1,001	890	88	-------	-------	-------	-------	-------	-------	-------
Kentucky	285	273	(1)	-------	-------	(1)	74	85	95	102
Tennessee	234	163	128	25	3	5	-------	-------	-------	-------
Virginia	630	1,028	422	220	138	198	191	171	212	201
Colorado	671	273	155	79	49	62	73	59	21	-------
Utah	(1)	(1)	146	7	6	7	4	5	68	189
All other States	887	509	196	12	2	1	-------	-------	-------	-------

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

Source of tables 855 and 856: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 857.—Natural Gas and Natural Gasoline—Production: 1906 to 1948

[**Quantities of gas in millions of cubic feet, of gasoline in thousands of gallons; values in thousands of dollars.** Production figures for gas refer only to that marketed, in addition to which considerable quantities are used by producers, and large quantities are wasted or lost; values given are at point of consumption. See also *Historical Statistics*, series G 59–64]

Yearly average	Natural gas produced and marketed		Natural gasoline [1]			Year	Natural gas produced and marketed		Natural gasoline [1]		
	Quantity	Value	Gas treated	Production	Value		Quantity	Value	Gas treated	Production	Value
1906–1910	437,057	57,940	----------	----------	----------	1941	2,812,658	621,333	2,763,300	3,395,910	119,120
1911–1915	575,708	88,492	11,602	30,317	2,481	1942	3,053,475	692,737	2,864,400	3,499,524	121,565
1916–1920	762,681	154,590	412,787	268,038	48,174	1943	3,414,689	760,950	3,028,000	3,684,072	146,910
1921–1925	947,419	229,002	820,445	762,151	82,205	1944	3,711,039	797,255	3,300,000	4,201,932	[2] 182,500
1926–1930	1,637,540	362,238	1,613,811	1,852,490	136,123	1945	3,918,688	837,852	3,653,870	4,704,173	187,504
1931–1935	1,697,043	394,148	1,687,902	1,592,613	59,761	1946	4,030,605	885,878	3,663,760	4,861,033	182,281
1936–1940	2,401,592	523,609	2,116,152	2,105,410	85,455	1947	[3] 4,582,173	[4] 274,709	4,070,150	5,551,267	294,994
1941–1945	3,382,109	742,025	3,121,914	3,897,122	151,532	1948	[3] 5,148,020	[4] 333,173	4,400,000	6,110,127	463,618

[1] Includes liquified petoleum gases and other allied products.
[2] Estimated.
[3] Beginning 1947, includes gas stored and lost in transmission.
[4] Beginning 1947, value at wells.

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

No. 858.—Natural Gas and Natural Gasoline—Production, by States

[**Gas in millions of cubic feet; gasoline in thousands of gallons.** Production figures for gas refer only to that marketed, in addition to which considerable quantities are used by producers, and large quantities are wasted or lost. Consumption figures by States differ greatly from production figures by reason of interstate transportation]

State	Natural gas produced and marketed					Natural gas consumed, 1947	Natural gasoline produced [1]		
	1930	1935	1940	1945	1947		1946	1947	1948 [2]
Total	[3] 1,943,421	[3] 1,916,595	[3] 2,660,222	[3] 3,918,688	[3] [4] 4,582,173	[3] 4,426,544	4,861,033	5,551,267	6,110,127
Arkansas	18,585	6,167	14,379	46,600	50,630	102,779	84,507	94,066	94,500
California	334,789	284,109	351,950	502,442	560,510	548,382	910,538	1,064,108	1,112,069
Illinois	2,890	1,448	8,359	16,663	17,023	132,153	161,560	162,504	148,995
Kansas	37,630	57,125	90,003	145,959	209,321	191,952	82,591	99,195	101,960
Kentucky	28,023	39,738	53,056	81,714	96,459	36,938	53,862	59,713	66,589
Louisiana	278,341	249,450	343,191	542,789	581,398	375,206	566,796	628,845	706,178
Michigan	2,075	4,203	12,648	21,874	18,812	80,571	12,337	4,287	2,517
Mississippi	----------	----------	----------	----------	40,037	52,461	----------	19,942	45,506
Montana	10,060	19,870	26,231	31,829	34,282	30,919	4,597	5,756	8,449
New Mexico	9,497	27,931	[5] 63,990	[5] 105,023	[5] 142,740	102,766	103,642	113,051	131,578
New York	[6] 9,624	[6] 8,288	[6] 12,187	[6] 9,210	[6] 4,600	41,572	9	11	11
Ohio	63,394	49,592	40,639	49,967	68,946	221,571	6,253	7,084	6,355
Oklahoma	348,116	274,313	257,626	357,530	419,010	254,522	414,991	446,493	470,141
Pennsylvania	88,706	[7] 94,464	[7] 90,725	[7] 82,188	[7] 91,971	175,906	11,003	13,013	12,253
Texas	[8] 517,880	[8] 642,366	[8] 1,063,538	[8] 1,711,401	[8] 1,992,704	1,444,422	2,282,979	2,639,434	2,984,389
West Virginia	144,180	115,772	188,751	160,225	192,233	106,105	120,444	141,273	157,342
Wyoming	43,219	26,643	27,346	35,282	45,550	26,351	[9] 44,924	[9] 52,492	[9] 61,295

[1] Includes liquified petroleum gases and other allied products.
[2] Preliminary. [3] Includes States not shown separately.
[4] Includes gas stored and lost in transmission.
[5] Includes 685,000,000 cubic feet piped to Mexico in 1940, 3,281,000,000 in 1945, and 3,077,000,000 in 1947.
[6] Includes 107,000,000 cubic feet piped to Canada in 1930, 29,000,000 in 1935, 54,000,000 in 1940, 31,000,000 in 1945, and 28,000,000 in 1947.
[7] Includes 44,000,000 cubic feet piped to Canada in 1935, 36,000,000 in 1940, 160,000,000 in 1945, and 179,000,000 in 1947.
[8] Includes 1,691,000,000 cubic feet piped to Mexico in 1930, 8,727,000,000 in 1935, 4,788,000,000 in 1940, 14,735,000,000 in 1945, and 14,865,000,000 in 1947. [9] Includes Utah and Colorado.

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

No. 859.—Petroleum, Crude—Production: 1861 to 1948

[Quantities in thousands of barrels (42 gallons); values in thousands of dollars. See also *Historical Statistics*, series G 57–58]

YEARLY AVERAGE	Quantity	Value	YEAR	Quantity	Value	YEAR	Quantity	Value
1861–1865	2,479	9,965	1916	300,767	330,900	1933	905,656	608,000
1866–1870	4,013	15,795	1917	335,316	522,635	1934	908,065	904,825
1871–1875	8,221	16,430	1918	355,928	703,944	1935	996,596	961,440
1876–1880	16,816	22,926	1919	378,367	760,266	1936	1,099,687	1,199,820
1881–1885	25,508	22,933	1920	442,929	1,360,745	1937	1,279,160	1,513,340
1886–1890	32,990	23,830	1921	472,183	814,745	1938	1,214,355	1,373,060
1891–1895	51,095	35,708	1922	557,531	895,111	1939	1,264,962	1,294,470
1896–1900	59,498	56,836	1923	732,407	978,430	1940	1,353,214	1,385,440
1901–1905	102,083	83,524	1924	713,940	1,022,683	1941	1,402,228	1,602,000
1906–1910	172,769	119,572	1925	763,743	1,284,960	1942	1,386,645	1,643,470
1911–1915	247,739	185,793	1926	770,874	1,447,760	1943	1,505,613	1,809,020
1916–1920	362,661	735,698	1927	901,129	1,172,830	1944	1,677,904	2,032,960
1921–1925	647,961	999,186	1928	901,474	1,054,880	1945	1,713,655	2,094,250
1926–1930	895,762	1,205,217	1929	1,007,323	1,280,417	1946	1,733,939	2,442,550
1931–1935	889,311	741,071	1930	898,011	1,070,200	1947	1,856,987	3,577,890
1936–1940	1,242,276	1,353,226	1931	851,081	550,630	1948	2,020,185	5,245,080
1941–1945	1,537,209	1,836,340	1932	785,159	680,460			

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

No. 860.—Petroleum, Crude and Refined—Production, Imports, Exports, and Bunker Oil Laden on Vessels in Foreign Trade: 1871 to 1948

[Exports of refined oils include residuum prior to 1913 and natural gasoline prior to 1932, and exclude them thereafter. Exports exclude reexports of imported oils. General imports through 1933; imports for consumption thereafter. See also *Historical Statistics*, series G 57 for production]

YEARLY AVERAGE OR YEAR	QUANTITY (THOUSANDS OF BARRELS OF 42 GALLONS)						VALUE (MILLIONS OF DOLLARS)				
	Production, crude oil	Imports		Exports		Bunker oil	Imports		Exports		Bunker oil
		Crude oil	Refined oils	Crude oil	Refined oils		Crude oil	Refined oils	Crude oil	Refined oils	
1871–1880	12,519	(1)	(1)	528	6,026	(1)	(1)	(1)	2.4	37.7	(1)
1881–1890	29,249	(1)	(1)	1,719	12,084	(1)	(1)	(1)	5.1	43.7	(1)
1891–1895	51,095	(1)	(1)	2,606	16,751	(1)	(1)	(1)	5.0	40.8	(1)
1896–1900	59,498	(1)	(1)	2,907	20,240	(1)	(1)	(1)	5.8	57.1	(1)
1901–1905	102,083	(1)	(1)	3,029	22,317	(1)	(1)	(1)	6.3	68.5	(1)
1906–1910	172,769	[2] 295	(1)	3,686	30,521	(1)	[2] 0.7	(1)	6.4	90.4	(1)
1911–1915	247,739	12,080	293	4,134	44,475	(1)	7.6	1.1	6.1	125.8	(1)
1916–1920	362,661	49,531	1,396	5,413	58,896	11,681	26.5	5.0	14.1	323.7	24.2
1921–1925	647,961	94,857	12,545	13,330	76,455	36,501	68.0	22.2	22.5	363.6	55.9
1926–1930	895,762	67,919	23,779	20,062	119,700	50,198	78.6	51.8	30.2	464.7	62.3
1931–1935	889,311	38,395	23,901	36,413	70,896	34,808	27.3	22.3	38.2	176.2	31.3
1936–1940	1,242,276	32,701	30,774	63,651	86,876	35,845	23.6	22.2	87.0	231.9	39.3
1941–1945	1,537,209	39,644	48,317	36,702	105,397	51,568	39.8	53.2	57.0	487.8	75.2
1933	905,656	31,908	13,257	36,584	61,419	32,272	17.7	7.1	32.0	151.3	27.1
1934	908,065	35,772	14,952	41,127	64,750	29,899	25.9	9.6	49.8	159.5	31.3
1935	996,596	32,345	22,369	51,430	67,932	30,304	23.4	13.5	61.2	169.9	29.9
1936	1,099,687	32,957	25,460	50,313	71,402	33,407	23.2	16.5	66.1	179.0	34.3
1937	1,279,160	27,310	32,693	67,127	93,464	37,688	20.8	22.1	96.4	253.4	43.5
1938	1,214,355	26,048	27,837	77,254	102,124	36,059	18.6	19.6	111.6	249.6	37.8
1939	1,264,962	34,106	27,850	72,064	103,428	37,036	23.3	18.7	92.8	262.6	39.0
1940	1,353,214	43,085	40,528	51,495	63,960	35,037	32.2	34.0	67.8	214.9	41.9
1941	1,402,228	52,029	48,564	34,484	60,736	30,400	43.4	37.6	49.5	208.2	38.1
1942	1,386,645	13,540	25,780	35,560	71,251	25,417	12.8	23.0	51.6	273.2	35.1
1943	1,505,613	13,803	51,834	43,313	96,860	47,895	14.7	69.9	66.5	421.3	74.0
1944	1,677,904	44,846	56,663	34,802	161,854	71,815	49.0	63.6	58.9	872.8	109.4
1945	1,713,655	74,003	58,742	35,353	136,283	82,314	79.2	71.9	58.3	663.3	119.4
1946	1,733,939	87,507	57,047	42,574	90,884	62,494	101.6	57.0	74.1	306.3	94.1
1947	1,856,987	99,284	63,463	46,356	92,461	72,071	161.5	87.1	99.1	435.7	136.9
1948	2,020,185	128,557	59,992	39,737	72,260	37,030	283.3	129.8	116.8	441.7	91.2

[1] Data not available.
[2] Average for years 1908–10 for total mineral oils.

Sources: Production, Dept. of the Interior, Bur. of Mines; Minerals Yearbook. Imports and exports, Dept. of Commerce, Bureau of Census; annual report, Foreign Commerce and Navigation of the U. S., and records.

No. 861.—Petroleum, Crude—World Production; United States Production, by Regions and States: 1926 to 1948

[In thousands of barrels of 42 gallons]

Region and state	1926–1930 (average)	1931–1935 (average)	1936–1940 (average)	1941–1945 (average)	1944	1945	1946	1947	1948
World total [1]	1,316,390	1,460,372	2,009,651	2,351,151	2,592,511	2,594,914	2,746,680	3,022,030	3,425,283
United States [2]	895,762	889,311	1,242,276	1,537,209	1,677,904	1,713,655	1,733,939	1,856,987	2,020,185
Percent of total	*68*	*61*	*62*	*65*	*65*	*66*	*63*	*61*	*59*
Regions:									
Appalachian	31,603	30,079	34,817	34,044	34,272	33,047	34,180	32,762	32,622
Lima—N. E. Ind.—Mich.	3,603	10,050	18,716	19,228	18,709	17,481	17,282	16,379	16,996
Illinois—S. W. Indiana	7,495	5,326	57,570	100,570	82,507	79,938	81,999	72,530	71,758
Mid-continent	527,944	566,251	694,826	764,285	818,678	846,227	871,081	949,550	1,063,638
Gulf	54,140	75,401	178,326	294,040	366,385	360,350	354,576	383,013	412,430
Rocky Mountain	29,468	17,984	27,765	44,830	45,560	50,130	60,108	69,621	82,667
California	241,509	184,221	230,256	280,210	311,793	326,482	314,713	333,132	340,074
States:									
Arkansas	35,010	12,144	17,485	27,717	29,418	28,613	28,375	29,948	31,682
California	241,509	184,221	230,256	280,210	311,793	326,482	314,713	333,132	340,074
Colorado	2,477	1,260	1,539	2,958	3,083	5,036	11,856	15,702	17,862
Illinois	6,654	4,551	55,722	94,710	77,413	75,094	75,297	66,459	64,808
Indiana	937	800	1,870	5,885	5,118	4,868	6,726	6,095	6,974
Kansas	41,123	43,033	63,197	96,447	98,762	96,415	97,218	105,132	110,908
Kentucky	7,103	5,494	5,549	7,425	9,621	10,325	10,578	9,397	8,801
Louisiana	22,338	30,306	92,771	123,196	129,645	131,051	143,669	160,128	181,458
Michigan	1,913	9,004	18,103	18,928	18,490	17,267	17,074	16,215	16,871
Mississippi	----------	(3)	4,507	19,673	16,337	19,062	24,208	34,925	45,761
Montana	4,826	3,153	5,861	8,117	8,647	8,420	8,825	8,742	9,382
New Mexico	3,171	15,829	35,720	37,383	39,555	37,351	36,814	40,926	47,969
New York	2,765	3,618	5,057	5,002	4,697	4,648	4,863	4,762	4,621
Ohio	7,022	4,504	3,404	3,228	2,937	2,828	2,908	3,108	3,600
Oklahoma	235,663	176,293	185,293	136,492	124,616	139,299	134,794	141,019	154,455
Pennsylvania	10,613	13,443	17,684	15,384	14,118	12,515	12,996	12,690	12,667
Texas	245,792	364,341	478,063	616,884	746,699	754,710	760,215	820,210	903,498
West Virginia	5,655	4,032	3,680	3,261	3,070	2,879	2,929	2,617	2,602
Wyoming	21,145	13,158	19,987	33,304	33,356	36,219	38,977	44,772	55,032

[1] Estimated. [2] Includes for certain years small quantities not distributed by regions and States.
[3] Not shown separately.

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

No. 862.—Petroleum—Runs to Stills, 1946 and 1947, and Major Refinery Products, 1947, by Regions

[In thousands of barrels of 42 gallons, except wax (barrels of 280 lbs.)]

Region	Crude oil run to stills		Natural gasoline run to stills or blended		Output of refineries, 1947				
	1946	1947	1946	1947	Gasoline	Kerosene	Distillate fuel oil	Residual fuel oil	Wax
Total	1,730,197	1,852,246	62,861	70,692	814,841	110,412	312,173	447,795	3,624
East Coast	276,651	297,315	1,181	883	104,098	14,257	57,111	86,769	1,387
Appalachian	55,756	60,377	505	530	27,039	3,570	7,362	10,250	307
Ind., Ill., Ky., etc	270,810	301,357	7,080	8,088	147,985	18,324	45,749	57,259	227
Okla., Kans., and Mo	138,385	153,050	5,504	6,002	77,581	8,792	26,230	25,246	475
Texas	503,431	521,606	26,620	28,836	243,934	39,596	90,025	109,656	539
Louisiana and Ark	143,182	164,765	3,904	4,050	67,943	19,972	30,971	29,734	413
Rocky Mountain	48,044	52,343	1,023	918	23,373	1,250	8,227	13,710	95
California	284,938	301,433	16,954	21,385	122,888	4,651	46,498	115,171	91

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

No. 863.—Crude Petroleum, Refined Products, and Natural Gasoline—Production and Stocks: 1925 to 1949

[Barrels of 42 gallons]

ITEM	1925	1930	1935	1940	1945	1947	1948	1949 (prel.)
Crude petroleum:								
Domestic production 1,000 bbls.	763,743	898,011	996,596	1,353,214	1,713,655	1,856,987	2,020,185	1,840,307
Imports [1] do.	61,824	62,129	32,239	42,662	74,337	97,532	129,093	154,922
Exports [1] do.	13,337	23,705	51,430	51,496	32,998	46,355	39,736	33,069
Stocks, end of period:								
Refinable crude do.	345,863	408,809	314,855	264,709	218,763	224,929	246,572	253,356
California heavy crude do.	(2)	(2)	(2)	11,906	4,496	5,725	10,055	
Runs to stills do.	739,920	927,447	965,790	1,294,162	1,719,534	1,852,246	2,031,041	1,945,519
Total value at wells 1,000 dolls.	1,284,900	1,070,200	961,440	1,385,440	2,094,250	3,577,890	5,245,080	(3)
Average price per barrel at wells	$1.68	$1.19	$0.97	$1.02	$1.22	$1.93	$2.60	(3)
Refined products:								
Imports [1] 1,000 bbls.	16,376	43,489	20,396	41,089	39,282	61,857	59,051	79,209
Exports [1] do.	100,497	132,794	77,557	78,970	149,985	118,122	94,938	86,406
Stocks, end of period do.[4]	206,275	254,311	223,361	282,265	235,998	265,850	345,650 343,537	342,782
Output of motor fuel do.	262,252	440,728	468,021	616,695	798,194	839,998	921,923	961,791
Yield of gasoline percent	32.4	42.0	44.2	43.1	40.9	40.2	40.3	43.7
Completed refineries, end of year	510	435	632	556	393	390	375	(3)
Daily crude-oil capacity of refineries 1,000 bbls.	2,853	3,943	4,117	4,719	5,316	6,034	6,439	(3)
Average dealer's net price (excl. tax) of gasoline in 50 U. S. cities [5] cents per gal.	17.46	14.49	12.02	9.08	10.33	12.33	14.55	15.05
Natural gasoline:								
Production 1,000 bbls.	26,307	52,631	39,333	55,700	112,004	132,173	146,721	156,203
Stocks, end of period do.	[6] 326	2,377	3,698	5,704	4,322	4,296	5,579	6,831

[1] Import and export figures from Bureau of Census, except for imports of crude petroleum for 1935 and later years which are as reported to Bureau of Mines. Exports include shipments to noncontiguous Territories and possessions.
[2] Figure for California heavy crude included in refined products in 1925, 1930, and 1935.
[3] Not available.
[4] For comparison with succeeding year.
[5] American Petroleum Institute figures; prior to 1939, average tank-wagon prices.
[6] At plants only.

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

No. 864.—Petroleum—Runs to Stills and Refinery Products, by Class: 1925 to 1949

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

PRODUCT	1925	1930	1935	1940	1945	1947	1948	1949 (prel.)
Input, total	759,556	970,617	996,815	1,333,709	1,789,858	1,922,938	2,107,278	2,030,976
Crude petroleum, total	739,920	927,447	965,790	1,294,162	1,719,534	1,852,246	2,031,041	1,945,519
Domestic	698,582	866,615	933,659	1,252,364	1,645,802	1,754,987	1,907,027	1,789,842
Foreign	41,338	60,832	32,131	41,798	73,672	97,259	124,014	155,677
Natural gasoline	19,636	43,170	31,025	39,547	70,324	70,692	76,237	85,457
Output, total	759,556	970,617	996,815	1,333,709	1,789,858	1,922,938	2,107,278	2,030,976
Gasoline	259,601	432,241	457,842	597,375	774,460	814,841	895,986	939,051
Kerosene	59,689	49,208	55,813	73,882	81,024	110,412	121,914	102,152
Distillate fuel oil	364,991	81,551	100,235	183,304	249,224	312,173	380,700	339,530
Residual fuel oil		290,947	259,826	316,221	469,492	447,795	466,317	424,829
Lubricating oil	31,055	34,201	27,853	36,765	41,867	51,765	51,416	45,339
Wax (1 bbl.=280 lbs.)	2,135	1,956	1,608	1,833	2,921	3,624	3,515	3,208
Coke (5 bbls.=1 s. ton)	5,281	9,895	7,290	7,633	10,115	12,077	14,494	16,959
Asphalt (5.5 bbls.=1 s. ton)	15,067	18,194	17,133	29,406	39,196	49,286	51,919	49,007
Still gas (1 bbl.=3,000 cu. ft.)	(1)	5,377	51,184	75,950	103,458	85,564	81,159	82,621
Road oil	8,044	5,425	6,030	7,771	2,686	7,074	7,915	7,691
Other finished products		2,377	1,888	3,202	19,080	24,348	30,605	28,440
Crude gasoline (net)	----------	----------	1,032	902	[2] *4,892*	984	[2] *917*	[2] *418*
Other unfinished oils (net)	[2] *9,221*	2,242	[2] *2,412*	[2] *3,848*	[2] *5,727*	[2] *1,227*	[2] *513*	[2] *8,068*
Shortage	22,914	37,003	11,493	3,313	6,954	4,222	2,768	535

[1] Not available.
[2] Negative quantity; represents net excess of unfinished oils rerun over unfinished oils produced.

Source: Department of the Interior, Bureau of Mines; Petroleum Refinery Statistics 1930 (Bulletin 367) and Minerals Yearbook.

No. 865.—Petroleum Products—Quantity and Value: 1939 and 1947

[Money figures in thousands of dollars]

Product	Unit of measure	1939 Production Quantity	1939 Production Value f. o. b. plant (incl. tax)	1947 Receipts [1] (quantity)	1947 Shipments and interplant transfers Quantity	1947 Shipments and interplant transfers Value f. o. b. plant (excl. tax)	1947 Net shipments [2] (quantity)
Petroleum products, total			2,497,235			6,745,717	
Gasoline, total	M bbls	580,805	1,424,436	54,296	845,621	3,136,709	791,325
Aviation gasoline	do	9,420	36,269	3,271	29,967	143,964	26,696
Automotive gasoline	do	571,385	1,388,167	35,898	790,825	2,907,212	754,927
Other finished gasolines (including finished base stocks and blending agents)	do			15,127	24,829	85,533	9,702
Naphtha solvents	do	9,352	23,112	1,872	18,120	71,524	16,248
Kerosene (including range oil)	do	64,526	112,065	6,317	114,450	342,997	108,133
Distillate fuel oil, total	do	(3)	(3)	24,670	341,907	918,291	317,237
Grade No. 1 (including P. S. 100)	do	[4] 68,255	[4] 107,649	1,852	47,050	140,865	45,198
Grades No. 2, 3, and 4 (incl. P. S. 200)	do			17,958	218,867	572,837	200,909
Diesel-type fuel oil (light)	do	[5] 94,586	[5] 130,467	3,693	58,013	156,152	54,320
Other distillate fuel oils (including light gas-enrichment oil)	do			1,167	17,977	48,437	16,810
Residual fuel oil, total	do	(3)	(3)	42,323	488,069	899,581	445,746
Grade No. 5 (incl. Navy special and P. S. 300)	do	[6] 312,944	[6] 234,093	1,506	55,464	115,853	53,958
Grade No. 6 (incl. Bunker C and P. S. 400)	do			36,531	387,862	698,552	351,331
Diesel-type fuel oil (heavy)	do	(5)	(5)	609	7,046	16,163	6,437
Other residual fuel oils (including heavy gas-enrichment oil)	do	(5)	(5)	3,677	37,697	69,013	34,020
Lubricating oils, total	do	(3)	(3)	(3)	58,230	664,347	(3)
Petroleum refining industry:							
Refiners of new oils	do	[7] 38,258	[7] 237,161	6,776	50,363	539,295	43,587
Re-refiners of used oils (including crank-case drainings)	do	193	1,250	30	682	6,627	652
Lubricants, n. e. c. industry	do	(3)	25,511	1,798	6,898	110,909	5,100
Other manufacturing industries	do	(3)	(3)	(3)	287	7,516	(3)
Lubricating-oil base stocks (for blending, compounding, and grease manufacture), total	do	(7)	(7)	11,971	12,342	108,621	371
Petroleum refining industry	do	(7)	(7)	5,434	12,264	107,309	6,830
Lubricants, n. e. c. industry	do			6,537	78	1,312	−6,459
Lubricating greases, total	M lbs	(3)	(3)	(3)	1,198,254	93,697	(3)
Petroleum refining industry:							
Refiners of new oils	do	(3)	14,451	58,267	684,585	49,245	626,318
Re-refiners of used oils (including crank-case drainings)	do	(3)	(3)	224	1,978	191	1,754
Lubricants, n. e. c. industry	do	285,124	16,275	20,639	506,204	43,462	485,565
Other manufacturing industries	do	(3)	(3)	(3)	5,487	799	(3)
Asphalt, total			37,994			130,344	
200 penetration and over	M bbls	14,498	17,142	963	24,782	61,646	23,819
Less than 200 penetration	M tons	2,346	20,852	62	5,404	68,698	5,402
Petroleum waxes, total	M lbs	(3)	19,485	73,832	1,233,458	76,005	1,159,626
Microcrystalline	do	(3)	(3)	1,615	96,216	10,363	94,601
Refined and semi-refined crystalline	do	(3)	(3)	23,728	690,159	43,158	666,431
Crude-scale crystalline	do	(3)	(3)	48,489	447,083	22,484	398,594
Liquefied gases, total [8]	M bbls	3,463	4,942	7,354	22,496	110,487	15,142
For direct automotive use (not included under gasoline)	do	(3)	(3)		162	410	
Chemical raw material (including synthetic rubber components)	do	(3)	(3)		9,549	83,007	
Other liquefied gases	do	(3)	(3)		12,785	27,070	
Other finished petroleum products, total			69,466			87,069	
Still gas	Mil. cu. ft.	(3)	(3)	4	20,416	9,245	20,412
Road oil	M bbls	6,020	8,539	85	9,053	19,131	8,968
Petrolatum	M lbs	(3)	2,873	120,618	455,294	11,944	334,676
Petroleum coke	M tons	1,522	4,987		1,619	12,444	1,619
Other finished petroleum products	M bbls	(3)	[9] 53,067	375	4,571	34,305	4,196
Unfinished oils	do	31,714	38,878	59,533	44,710	106,045	−14,823

[1] As billed by the shipper.
[2] Represents difference between quantities shipped and receipts.
[3] Not available.
[4] Represents distillates except gas oils and diesel oils.
[5] Figures for residual oils are included with figures for distillate oils.
[6] Represents residual fuel oils except gas oils and diesel oils.
[7] Lubricating-oil base stocks are probably included with lubricating oils.
[8] Includes propane, butane, propane-butane mixtures, pentane, and other liquefied refinery gases. Receipts exclude liquefied petroleum gases from natural-gasoline plants.
[9] Other finished products include still gas, residuum or tar, acid oil, and other refinery products.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 866.—Petroleum Pipe Lines—Summary: 1925 to 1948

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

Year	Miles of line operated	Investment in pipe lines	Other investments	Pipe-line operating revenues	Pipe-line operating expenses	Pipe-line operating income	Net income
1925	70,009	511,088	93,896	164,645	80,232	70,966	88,495
1930	88,727	772,711	96,184	237,910	99,363	121,816	123,741
1935	92,037	763,009	119,071	197,368	89,364	79,586	78,249
1936	94,060	773,743	77,230	219,057	92,899	94,401	91,742
1937	96,611	802,946	87,389	248,198	99,641	109,994	102,720
1938	95,775	807,657	70,666	228,211	98,756	95,128	92,724
1939	98,681	829,646	65,124	212,466	97,130	83,401	80,823
1940	100,156	841,977	64,095	225,760	101,919	82,558	79,857
1941	105,435	885,317	45,687	251,695	110,448	81,604	79,468
1942	106,485	918,848	44,525	245,061	123,507	58,332	56,845
1943	108,783	965,464	39,891	276,652	148,448	62,620	61,302
1944	111,615	1,000,741	62,767	310,194	172,368	67,840	65,715
1945	113,351	1,042,523	86,713	304,268	191,668	67,127	65,941
1946	116,544	1,106,454	69,991	293,723	183,869	56,485	56,094
1947	119,298	1,225,168	56,455	325,224	214,682	54,415	53,145
1948	124,092	1,381,402	52,168	377,034	252,971	58,806	56,679

Source: Interstate Commerce Commission; annual report, Statistics of Oil Pipe Line Companies.

No. 867.—Oil Wells, Number and Production, 1947 and 1948, and Number of Oil and Gas Wells Drilled, 1948 and 1949, by States

State	Producing oil wells: Approximate number Dec. 31		Producing oil wells: Average production per well per day (barrels)		Wells drilled [1]: Oil		Wells drilled [1]: Gas		Wells drilled [1]: Dry	
	1947	1948	1947	1948	1948	1949	1948	1949	1948	1949
Total	426,280	437,880	12.0	12.8	22,585	22,042	2,897	2,887	12,026	12,727
Arkansas	3,590	3,670	23.6	23.8	151	171	5	3	145	147
California	24,420	26,460	38.3	36.5	2,395	1,914	21	40	460	558
Colorado	600	700	84.4	75.1	149	21	10	4	48	57
Illinois	25,670	26,500	7.1	6.8	1,262	1,392	11	6	1,105	1,308
Indiana	2,300	2,780	7.6	7.5	518	521	40	30	519	725
Kansas	27,500	27,900	10.7	10.9	1,677	1,683	382	419	1,193	1,254
Kentucky	14,780	14,750	1.7	1.6	349	448	151	193	403	402
Louisiana	8,700	9,770	52.4	53.7	1,552	1,524	133	211	634	632
Michigan	3,540	3,550	12.6	13.0	355	426	30	23	435	476
Mississippi	1,120	1,320	100.2	102.5	250	161	16	5	161	167
Montana	2,890	3,100	8.5	8.6	191	138	69	54	85	87
Nebraska	60	50	10.5	10.7	[2] 18	12	[2] 3	6	[2] 35	31
New Mexico	5,000	5,370	23.1	25.3	433	334	44	53	129	114
New York	22,500	23,100	.6	.6	(3)	(3)	(3)	(3)	(3)	(3)
Ohio	19,500	20,000	.4	.5	(3)	(3)	(3)	(3)	(3)	(3)
Oklahoma	52,200	53,000	7.4	8.0	2,417	2,483	258	213	1,588	1,612
Pennsylvania	83,600	82,000	.4	.4	[3] 2,834	[3] 1,838	[3] 1,170	[3] 867	[3] 707	[3] 526
Texas	107,600	113,100	21.1	22.4	7,619	8,613	542	746	4,011	4,260
West Virginia	16,250	16,000	.4	.5	(3)	(3)	(3)	(3)	(3)	(3)
Wyoming	4,320	4,600	28.7	33.7	394	322	7	8	183	257
Other States	[4] 140	[4] 160	[4] 16.4	[4] 15.6	21	41	5	6	125	114

[1] Figures from Oil and Gas Journal.
[2] Includes Missouri and Iowa.
[3] New York, Ohio, and West Virginia included in Pennsylvania.
[4] Alabama, Florida, Missouri, Tennessee, and Virginia; for 1948 Utah is also included.

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

No. 868.—Asphalt—Supply, Distribution, and Value: 1941 to 1948

ITEM	1941	1942	1943	1944	1945	1946	1947	1948
SUPPLY (1,000 TONS OF 2,000 LBS.)								
Total	**8,022**	**7,999**	**8,172**	**8,483**	**8,609**	**9,832**	**10,947**	**11,551**
Native asphalt and related bitumens:								
Produced	691	975	886	790	704	846	1,072	1,136
Imported (chiefly lake asphalt)	14	8	8	8	5	4	6	7
Petroleum asphalt (excluding road oil):								
Produced at refineries from domestic and foreign petroleum	6,558	6,297	6,757	6,996	7,127	8,166	8,961	9,440
Imported [1]	145	115	110	126	147	123	206	282
Stocks, Jan. 1	614	604	411	563	626	693	702	686
DISTRIBUTION (1,000 TONS OF 2,000 LBS.)								
Total	**8,022**	**7,999**	**8,172**	**8,483**	**8,609**	**9,832**	**10,947**	**11,551**
Native asphalt and related bitumens:								
Indicated domestic demand	680	966	851	752	657	819	1,048	1,122
Exports (unmanufactured)	11	9	35	37	47	27	24	14
Petroleum asphalt (excluding road oil):								
Indicated domestic demand (incl. lake asphalt)	6,502	6,527	6,637	6,949	6,999	7,888	8,633	9,116
Exports	225	85	86	119	213	396	556	270
Stocks, Dec. 31	604	411	563	626	693	702	686	1,029
VALUE (1,000 DOLLARS)								
Native asphalt and related bitumens:								
Sales	3,169	4,279	4,288	3,688	3,816	4,262	5,503	5,026
Imports (chiefly lake asphalt)	183	136	222	254	122	92	243	181
Exports (unmanufactured)	329	232	819	730	1,207	974	1,065	559
Petroleum asphalt (excluding road oil):								
Sales [2]	60,513	70,815	78,863	75,715	78,876	93,991	127,869	178,788
Imports [1]	777	680	659	726	842	771	1,692	2,406
Exports	3,690	1,585	2,147	2,606	5,172	9,708	14,208	8,985

[1] Includes cut-backs and road oil.
[2] Excludes export sales.

No. 869.—Gypsum—Supply, Sales, Imports, and Exports: 1941 to 1948

[**Quantities in thousands of short tons (2,000 pounds); values in thousands of dollars.** See also *Historical Statistics*, series G 67–68, for gypsum mined and total gypsum products sold]

ITEM	1941	1942	1943	1944	1945	1946	1947	1948
Crude gypsum: [1]								
Mined	4,789	4,698	3,878	3,761	3,812	5,629	6,208	7,255
Imported	1,348	394	231	342	500	1,457	2,157	2,859
Apparent supply	6,136	5,092	4,109	4,104	4,320	7,087	8,365	10,114
Calcined gypsum produced: [2]								
Short tons	3,981	3,045	2,558	2,363	2,485	4,170	5,011	6,243
Value	19,747	16,403	14,752	13,841	14,474	29,273	38,726	48,145
Gypsum products sold: [2]								
Uncalcined uses:								
Short tons	1,321	1,515	1,234	1,056	1,148	1,641	1,950	2,226
Value	3,139	3,534	3,115	2,954	3,433	5,106	7,012	7,927
Industrial uses:								
Short tons	152	143	164	200	158	207	207	219
Value	1,885	1,841	2,259	2,551	2,326	3,161	3,430	3,731
Building uses, value	64,734	57,796	53,723	50,196	54,390	88,928	117,973	165,176
Gypsum and gypsum products:								
Imported for consumption, value	1,282	508	304	395	549	1,833	2,522	3,115
Exported, value	530	978	284	490	1,503	1,065	1,600	1,317

[1] Excludes byproduct gypsum.
[2] Made from domestic, imported, and byproduct crude gypsum.

Source of tables 868 and 869: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 870.—Cement—Production, by Kind: 1890 to 1948

[Portland cement, in barrels of 376 pounds; masonry, natural, and puzzolan cement in 1921 and later years in 376-pound barrels but prior to 1921 in barrels of 240, 265, and 320 pounds, respectively. Includes Puerto Rico beginning 1939, and Hawaii for 1945 and 1946. See also *Historical Statistics*, series G 65-66]

Year	Production in thousands of barrels			Total value in thousands of dollars [1]	Year	Production in thousands of barrels			Total value in thousands of dollars [1]
	Total	Portland	Masonry, natural, and puzzolan			Total	Portland	Masonry, natural, and puzzolan	
1890	7,777	336	7,441	4,527	1932	77,198	76,741	457	82,718
1895	8,731	990	7,741	5,482	1933	63,984	63,473	511	86,229
1900	17,231	8,482	8,749	13,284	1934	78,419	77,748	672	117,882
1905	40,102	35,247	4,855	35,932	1935	77,748	76,742	1,006	114,810
1910	77,785	76,550	1,235	68,752	1936	114,469	112,650	1,819	172,778
1915	86,708	85,915	[2] 794	74,285	1937	118,075	116,175	1,901	171,414
1920	100,791	100,023	[2] 767	203,198	1938	107,178	105,357	1,821	156,703
1921	99,381	98,842	[2] 539	187,708	1939	124,698	122,259	2,439	184,255
1922	115,679	114,790	[2] 889	203,324	1940	132,751	130,217	2,535	193,465
1923	138,732	137,460	[2] 1,272	263,122	1941	166,907	164,031	2,876	250,589
1924	150,777	149,358	[2] 1,418	272,345	1942	185,342	182,781	2,560	286,905
1925	163,388	161,659	1,729	281,076	1943	135,254	133,424	1,830	202,460
1926	166,635	164,530	2,105	280,786	1944	92,152	90,906	1,247	151,997
1927	175,330	173,207	2,124	281,736	1945	104,289	102,805	1,484	175,431
1928	178,509	176,299	2,210	278,883	1946	166,539	164,064	2,475	296,552
1929	172,856	170,646	2,209	255,105	1947	189,470	186,519	2,951	361,978
1930	162,989	161,197	1,792	231,249	1948	208,889	205,448	3,440	453,412
1931	126,671	125,429	1,242	142,580					

[1] Value of shipments beginning 1925. [2] Shipments.

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

No. 871.—Portland Cement—Production, by States; Shipments, Imports and Stocks: 1910 to 1948

[In thousands of barrels of 376 pounds]

State	1910	1920	1930	1935	1940	1945	1947	1948
Production, total	76,550	100,023	161,197	76,742	[1] 130,217	[1 2] 102,805	[1] 186,519	[1] 205,448
Alabama	[3] 1,481	1,132	4,821	2,493	5,122	5,542	9,514	9,908
California	[4] 6,386	7,098	10,124	7,974	14,216	15,952	22,788	24,602
Illinois	4,459	5,539	7,935	3,368	4,975	4,367	7,228	7,571
Iowa	[5] 2,010	4,849	7,088	3,520	4,606	3,194	6,336	6,807
Kansas	5,656	4,341	6,012	2,337	3,433	3,001	7,132	7,934
Michigan	3,688	4,891	11,511	4,579	8,603	5,839	10,212	11,410
Missouri	4,456	6,018	7,809	3,392	4,968	3,185	8,014	8,503
New York	3,296	5,885	10,373	4,285	8,437	[6] 5,617	[6] 12,133	[6] 13,504
Ohio	1,528	1,780	8,632	3,876	6,664	4,604	9,383	10,035
Pennsylvania	26,676	28,269	37,844	15,502	26,853	15,564	33,350	38,311
Tennessee	(7)	(7)	3,875	2,703	3,808	2,882	5,901	6,727
Texas	[3] 2,287	2,562	6,782	3,787	7,375	8,037	12,463	13,701
Other States	14,627	27,659	38,393	18,925	[1] 31,156	[1 2] 25,022	[1] 42,067	[1] 46,436
Shipments [9]	(10)	96,312	159,059	75,233	130,350	106,354	187,492	204,305
Imports [11]	307	525	985	619	538	(12)	5	283
Stocks at mills (Dec. 31)	(10)	8,833	25,899	23,065	23,365	16,455	10,012	[13] 11,155

[1] Includes production of Puerto Rico.
[2] Includes production of Hawaii.
[3] Includes Georgia and Tennessee.
[4] Includes Washington.
[5] Includes Kentucky and West Virginia.
[6] Includes Maine.
[7] Included in figures for Alabama for 1910; "Other States," 1920.
[8] Includes Oklahoma.
[9] Including exports made directly by manufacturers and shipments made by them to noncontiguous U. S. Territories and possessions.
[10] Not available.
[11] "Imports for consumption" of portland and other hydraulic cement.
[12] Less than 500 barrels.
[13] Subject to revision.

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

No. 872.—Salt—Production, By States and By Kind, Exports, and Imports: 1880 to 1948

[In short tons (2,000 pounds). Production figures represent sales plus that used by producers; they include Puerto Rico. Imports are imports for consumption. See also *Historical Statistics*, series G 81–82 for production]

YEAR	Production	Exports	Imports	YEAR	Production	Exports	Imports
1880	834,548	1,642	509,703	1930	8,054,440	70,478	54,021
1890	1,242,779	2,464	257,323	1935	7,926,897	112,213	51,245
1900	2,921,708	7,511	199,909	1940	10,359,960	147,044	30,402
1905	3,635,257	34,238	161,159	1945	15,394,141	190,524	4,553
1910	4,242,792	49,013	137,103	1946	15,132,145	223,426	4,253
1915	5,352,409	80,474	122,326	1947	16,053,882	[1] 188,307	1,910
1920	6,840,029	139,272	137,054	1948	16,403,293	368,921	5,621
1925	7,397,500	155,079	85,788				

STATE OR KIND	1925	1930	1935	1940	1945	1947	1948
Production, total	7,397,500	8,054,440	7,926,897	10,359,960	15,394,141	16,053,882	16,403,293
Michigan	2,172,600	2,558,290	2,128,171	2,863,035	4,285,493	4,447,269	4,387,879
New York	2,053,970	2,009,280	1,927,822	2,117,671	2,862,224	2,923,023	3,065,831
Ohio	1,173,590	1,311,440	1,487,315	2,080,133	2,764,926	2,975,676	2,752,696
Kansas	812,540	759,800	608,204	684,053	855,806	904,398	831,756
Louisiana	500,350	535,250	702,990	1,132,594	1,867,689	1,955,382	2,223,249
California	292,480	350,370	356,222	469,354	694,609	768,397	914,035
Texas	(2)	(2)	268,809	402,165	1,100,791	1,191,621	1,354,109
Utah	88,150	85,240	57,625	71,472	122,997	113,285	113,779
West Virginia	25,870	28,670	65,968	144,312	370,200	279,300	246,732
Other States	277,950	416,100	323,771	395,171	469,346	495,531	513,227
By kinds:							
Manufactured (evaporated)	2,235,170	2,358,610	2,330,042	2,782,741	3,182,570	3,158,718	3,207,403
In brine	2,819,690	3,718,460	3,837,613	5,311,671	8,705,831	9,140,811	9,349,044
Rock salt	2,342,640	1,977,370	1,759,242	2,265,548	3,505,740	3,754,353	3,846,846
Total value [3] (dollars)	26,162,361	25,009,480	21,837,911	26,474,619	43,914,406	52,191,688	54,331,782

[1] Excludes 96,479 tons shipped under U. S. Army Civilian Supply Program.
[2] Included in "Other States."
[3] F. o. b. mine or refinery; values exclude cost of cooperage or containers.

No. 873.—Stone—Sales, by Kind and by Use: 1942 to 1948

[See also *Historical Statistics*, series G 75–76 for total]

VARIETY AND USE	QUANTITY SOLD, THOUSANDS OF SHORT TONS (2,000 POUNDS) [1]							VALUE, (1,000 DOLLARS)	
	1942	1943	1944	1945	1946	1947	1948	1947	1948
Total	195,884	171,343	155,580	153,405	178,852	207,555	225,535	289,344	328,985
Granite	14,065	9,240	7,395	7,740	11,119	12,443	13,686	34,123	38,807
Basalt and related rocks	17,627	14,385	14,043	14,911	16,400	19,616	20,655	25,755	29,917
Sandstone	6,701	7,408	6,427	4,387	4,254	6,809	7,290	16,587	18,049
Marble	170	169	153	171	205	228	276	10,253	10,421
Limestone	142,488	128,980	115,506	112,574	134,717	150,409	166,742	186,548	215,451
All other	14,835	11,160	12,055	13,622	12,156	18,050	16,887	16,078	16,339
Building stone	481	319	200	382	707	739	981	18,611	24,909
Monumental	226	210	243	251	300	312	307	19,815	20,541
Paving blocks	19	7	4	2	5	5	3	56	33
Curbing	25	12	17	13	30	52	63	1,110	1,382
Flagging	52	32	21	21	38	41	41	586	585
Rubble	544	253	135	390	293	269	276	715	574
Riprap	8,764	4,950	4,011	4,801	3,848	5,733	5,707	6,514	7,553
Crushed stone	125,268	99,648	83,081	85,373	107,267	123,428	139,723	139,320	166,196
Furnace flux, limestone and marble	30,263	[2] 31,571	[2] 31,080	[2] 27,640	[2] 25,158	[2] 32,570	34,902	[2] 28,688	34,250
Refractory stone	2,718	2,708	2,314	2,527	2,088	2,704	2,557	5,537	6,531
Agricultural limestone	13,745	14,522	18,941	17,396	22,782	22,606	20,942	35,076	32,035
Other uses	13,779	17,113	15,534	14,610	16,335	19,096	20,033	33,317	34,396

[1] Quantities of stones not sold by short ton are expressed in approximate equivalents in short tons; expressed in their selling units, quantities for 1948 are as follows: Building stone (cut stone, slabs, and mill blocks), 9,208,020 cubic feet; monumental stone, 3,724,250 cubic feet; paving blocks, 392,110 (number); curbing, 760,300 cubic feet; and flagging, 520,420 cubic feet.
[2] Limestone only.

Source of tables 872 and 873: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 874.—Employment and Injuries in Mineral Industries: 1935 to 1948

Year	Average days active	Working: Average number	Working: Equivalent in 300-day workers	Man-days worked	Killed	Injured: Total	Injured: Except coal mines	Rate [1]: Killed	Rate [1]: Injured: Total	Rate [1]: Injured: Except coal mines
1935	195	783,139	507,847	152,354,170	1,495	82,220	16,645	2.9	161.9	98.3
1936	216	824,514	593,068	177,920,334	1,686	92,644	23,068	2.8	156.2	109.8
1937	217	859,951	622,634	186,790,283	1,759	96,484	28,207	2.8	155.0	117.7
1938	187	774,894	483,523	145,056,875	1,309	71,618	20,304	2.8	148.1	107.3
1939	202	788,925	531,295	159,388,490	1,334	75,495	21,480	2.5	142.1	102.5
1940	219	801,926	585,546	175,663,792	1,716	82,861	23,080	2.9	141.5	99.7
1941	234	835,095	651,417	195,425,228	1,621	90,319	26,854	2.5	138.7	102.0
1942	260	802,640	695,800	208,739,906	1,862	94,465	24,901	2.7	135.8	93.8
1943	277	747,645	691,387	207,416,144	1,799	88,449	23,855	2.6	127.93	90.5
1944	287	677,005	648,434	194,530,188	1,571	83,451	19,760	2.4	128.70	88.4
1945	271	637,220	575,575	172,672,431	1,270	73,411	16,294	2.2	127.54	82.5
1946	240	676,254	542,102	162,630,674	1,167	72,805	17,455	2.2	134.30	89.1
1947 [2]	260	700,536	606,830	182,049,005	1,414	77,459	19,259	2.3	127.65	85.3
1948 [2]	250	722,300	602,403	180,721,000	1,229	71,450	17,405	2.0	118.61	74.9

[1] Number killed, or injured per 1,000 300-day workers. [2] Preliminary.

No. 875.—Employment and Injuries in Mineral Industries, by Industry Groups, 1948 and Earlier Years

[See also *Historical Statistics* series G 131–144 and G 156]

Year	Working: Avg. number	Working: Equivalent in 300-day workers	Killed	Injured: Temporary	Injured: Permanent
Metal mines: [1]					
1915	152,118	141,997	553	34,686	609
1920	136,583	134,540	425	32,205	357
1925	126,713	123,908	371	34,458	674
1930	103,233	92,900	271	15,091	503
1935	92,314	67,841	164	9,953	253
1940	120,120	96,822	223	14,343	423
1943	100,593	97,387	220	12,571	433
1944	81,674	78,406	147	9,757	420
1945	71,665	68,963	112	7,757	310
1946	76,546	65,115	116	8,347	367
1947	83,404	77,073	138	9,240	361
1948	83,386	78,522	119	8,416	391
Quarries:					
1915	100,740	82,447	148	9,148	523
1920	86,488	77,089	178	10,880	337
1925	91,872	83,487	149	13,713	452
1930	80,633	68,531	105	7,152	265
1935	73,005	48,744	51	4,023	129
1940	79,509	63,737	72	5,016	172
1943	69,877	63,785	80	5,059	140
1944	58,476	52,302	73	4,322	115
1945	58,180	51,253	53	4,032	89
1946	70,265	64,206	55	4,976	161
1947	75,245	69,988	75	5,315	189
1948 [2]	78,200	73,507	73	[3] 5,010	------
Metallurgical plants:					
1916	80,201	88,596	83	14,863	217
1920	59,232	65,587	61	8,714	149
1925	58,935	66,220	44	7,480	231
1930	40,787	44,403	25	2,570	156
1935	36,493	35,438	28	1,843	119
1940	49,068	48,278	18	2,438	144
Metallurgical plants—Con.					
1943	64,735	72,542	31	4,443	223
1944	58,085	63,710	38	3,928	230
1945	46,467	50,893	19	3,106	165
1946	44,954	42,608	20	2,608	186
1947	49,082	51,175	21	2,975	253
1948	47,768	50,403	14	2,501	248
Coke ovens:					
1916	31,603	34,119	45	5,154	83
1920	28,139	29,921	49	3,336	79
1925	23,254	24,054	28	1,652	44
1930	19,855	22,936	28	990	32
1935	16,125	17,251	10	304	21
1940	19,962	22,579	15	522	22
1943	25,765	29,825	17	941	45
1944	24,766	28,958	15	952	36
1945	22,987	26,383	18	801	34
1946	21,410	24,016	8	775	35
1947	23,705	27,644	15	882	44
1948	25,157	29,326	20	883	34
Coal mines:					
1911	728,348	532,565	2,656	(4)	(4)
1915	734,008	511,598	2,269	(4)	(4)
1920	784,621	601,283	2,272	(4)	(4)
1925	748,805	480,227	2,234	(4)	(4)
1930	644,006	412,979	2,063	101,093	2,728
1935	565,202	338,572	1,242	63,701	1,874
1940	533,267	354,130	1,388	57,630	2,151
1943	486,516	427,656	1,451	63,281	1,313
1944	453,937	424,998	1,298	62,381	1,310
1945	437,921	378,079	1,068	56,008	1,109
1946	463,079	346,157	968	54,346	1,004
1947 [2]	469,100	380,950	1,165	[3] 58,200	------
1948 [2]	485,600	370,047	1,010	[3] 54,045	------

[1] Includes data for mines producing nonmetallic minerals other than coal.
[2] Preliminary. [3] Includes permanent. [4] Not available.

Source of tables 874 and 875: Department of the Interior, Bureau of Mines; annual bulletins, Metal Mine Accidents, Quarry Accidents, Accidents at Metallurgical Plants, Coke Oven Accidents, and Coal Mine Accidents.