25. 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 series of reports based on a reappraisal of the Nation's forest situation made during 1945 and 1946 have been published recently. Tables on forest areas, stand, growth, and drain (Nos. 785–788) are from the preliminary report of this series, Basic Forest Statistics for the United States. Other reports from this series are (1) Gaging the Timber Resource of the United States, (2) Potential Requirements for Timber Products in the United States, (3) The Management Status of Forest Lands in the United States, (4) Wood Waste in the United States, (5) Protection against Forest Insects and Diseases in the United States, and (6) Forest Cooperatives in the United States. Other reports to follow these will deal with different aspects and the situation as a whole. 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.

No. 785.—Forest Land Area and Ownership of Commercial Forest Land, by States

[In thousands of acres]

Region and state	Total forest land	Commercial forest land [1]							
		All ownerships	Federally owned or managed			State, county, and municipal	Private		
			Total	National	Other		Total	Farm	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. Status beginning 1945.

[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. 786.—Saw Timber 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	Total	Softwood	Hardwood	On saw-timber areas: On virgin areas	On saw-timber areas: On second-growth areas	On other than saw-timber areas	Saw-timber growth: Total	Saw-timber growth: Softwood	Saw-timber growth: 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	1,183	519	664	25	1,029	129	62	27	35
Maryland	4,080	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. 787.—Saw Timber—Volume, by Species and Region

[**In millions of board feet.** Status beginning of 1945. For States represented in regions shown, see table 786]

KIND OF WOOD	Total North and South	New England	Middle Atlantic	Lake	Central	Plains	South Atlantic	Southeast	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	1,385	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			California	North Rocky Mountain	South Rocky Mountain
		Total	Douglas-fir subregion	Pine subregion			
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. 788.—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.)			Saw-timber drain (millions of bd. ft.)		
	Total	Softwoods	Hardwoods	Total	Softwoods	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. 789.—Forest Fires—Number, and Area Burned Over on Federal, State, and Private Forest Lands: 1929 to 1946

[Area in thousands of acres]

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
1929	(4)	(4)	(4)	395,675	44,076	4,876	203,890	90,819	41,354
1930	(4)	(4)	(4)	399,142	70,832	5,809	208,779	120,148	46,457
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	158,884	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	27,415
1943	183,052	9,892	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	14,780
1946	213,597	9,670	321	318,505	66,103	2,253	120,489	96,505	18,117

[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.
[4] Included in State and private forests, protected area.

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

No. 790.—Forest Fire Control—Prevention and Suppression Expenditures on State and Private Forest Lands, by States and for Hawaii: Fiscal Year 1947

[**In thousands of dollars.** In some States, Federal expenditures exceed total of State, county, and private expenditures because Federal wartime emergency allotment did not require matching]

State or other area	Total expenditures	Federal (contributions)	State and county	Private agencies	State or other area	Total expenditures	Federal (contributions)	State and county	Private agencies
Total	**19,603**	**7,890**	**9,477**	**2,236**	Nevada	21	10	8	3
					New Hampshire	123	58	47	18
Alabama	704	228	428	48	New Jersey	301	138	163	-------
Arkansas	344	157	102	85	New Mexico	18	8	5	5
California	2,863	1,081	1,782	-------	New York	525	244	281	-------
Colorado	71	35	19	17	North Carolina	495	183	293	19
Connecticut	114	57	57	-------	Ohio	147	69	78	-------
Delaware	13	6	7	-------	Oklahoma	86	43	22	21
Florida	1,059	382	325	352	Oregon	1,948	765	494	689
Georgia	419	210	81	128	Pennsylvania	512	235	277	-------
Idaho	387	141	102	144	Rhode Island	62	31	31	-------
Illinois	39	19	20	-------	South Carolina	885	330	554	1
Indiana	150	44	106	-------	South Dakota	54	5	49	-------
Iowa	18	7	11	-------	Tennessee	203	95	100	8
Kentucky	147	67	77	3	Texas	306	131	140	35
Louisiana	501	203	227	71	Utah	47	14	33	-------
Maine	423	158	265	-------	Vermont	60	28	29	3
Maryland	245	82	163	-------	Virginia	369	172	196	1
Massachusetts	228	96	132	-------	Washington	1,682	768	432	482
Michigan	1,252	504	748	-------	West Virginia	461	141	320	-------
Minnesota	687	302	385	-------	Wisconsin	663	299	364	-------
Mississippi	408	162	246	-------					
Missouri	356	102	254	-------	Hawaii	8	4	4	-------
Montana	199	76	20	103					

Source: Department of Agriculture, Forest Service; records.

No. 791.—National Forest and Land Utilization Areas, by States and for Alaska and Puerto Rico: June 30, 1947

[Areas in acres; comprises national forests, purchase units, experimental areas, land utilization and other areas]

STATE OR OTHER AREA	Gross area	Not under Forest Service Administration	Under Forest Service Administration
National Forest and land utilization areas, total	**228,810,442**	**48,546,188**	**180,264,254**
National Forest areas, total [1]	**228,525,883**	**48,455,889**	**180,069,994**
Alabama	2,435,087	1,815,619	619,468
Arizona	12,159,020	662,716	11,496,304
Arkansas	3,586,802	1,255,187	2,331,615
California [2]	24,802,273	5,093,812	19,708,461
Colorado [2]	15,178,194	1,482,682	13,695,512
Florida	1,241,956	173,562	1,068,394
Georgia	1,732,322	1,076,371	655,951
Idaho	21,502,412	1,342,098	20,160,314
Illinois	812,654	601,344	211,310
Indiana [2]	781,467	689,825	91,642
Iowa	218,671	213,922	4,749
Kentucky	1,393,534	960,268	433,266
Louisiana	1,274,977	731,652	543,325
Maine	878,032	828,775	49,257
Maryland	4,318	3,208	1,110
Massachusetts	1,651	----------	1,651
Michigan [2]	5,142,726	2,812,579	2,330,147
Minnesota	5,041,773	2,428,773	2,613,000
Mississippi	2,777,325	1,731,388	1,045,937
Missouri	3,459,999	2,131,587	1,328,412
Montana	19,000,612	2,476,853	16,523,759
Nebraska	207,209	1,181	206,028
Nevada	5,307,852	254,891	5,052,961
New Hampshire	806,323	137,839	668,484
New Mexico [2]	10,093,879	1,272,119	8,821,760
North Carolina	3,593,436	2,509,599	1,083,837
North Dakota	764,425	763,905	520
Ohio	1,466,109	1,378,894	87,215
Oklahoma	344,269	167,210	177,059
Oregon	17,350,328	2,610,286	14,740,042
Pennsylvania	746,703	277,142	469,561
South Carolina	1,422,604	838,100	584,504
South Dakota	1,403,157	287,720	1,115,437
Tennessee	1,531,797	961,740	570,057
Texas	1,714,374	1,052,666	661,708
Utah [2]	8,962,355	1,137,507	7,824,848
Vermont	580,520	372,509	208,011
Virginia	4,123,667	2,684,024	1,439,643
Washington	10,743,236	1,085,134	9,658,102
West Virginia	1,836,144	932,001	904,143
Wisconsin	2,018,964	582,480	1,436,484
Wyoming	9,013,328	447,564	8,565,764
Alaska	20,883,244	35,097	20,848,147
Puerto Rico	186,155	154,060	32,095
Land utilization and other areas, total [3]	**284,559**	**90,299**	**194,260**
California	400	----------	400
Colorado	50,088	40,770	9,318
Indiana	3,180	----------	3,180
Michigan	46,073	3,947	42,126
New Mexico	163,384	45,582	117,802
Utah	21,434	----------	21,434

[1] Within established boundaries. Area under Forest Service Administration includes federally owned lands in purchase units which have not been proclaimed as national forests, lands approved for acquisition, but unacquired, experimental forests and ranges and all small federally-owned administrative sites outside of established boundaries, and lands within national forest boundaries which have been transferred from Soil Conservation Service and other Federal agencies but do not have a national forest status.

[2] Excludes those lands outside national forest boundaries transferred from Soil Conservation Service and other Federal agencies, and requiring Presidential or Congressional action to extend a national forest status.

[3] Outside established boundaries. Area under Forest Service Administration comprises lands acquired by United States in pursuance of certain national programs of land utilization and adjustment, which by Order of the Secretary of Agriculture have been placed under administration of Forest Service but have not yet been given a national forest status. Portions of these project lands, located within established national forest or purchase unit boundaries, are included as part of national forest or purchase unit acreage. Fort Bayard Reservation, New Mexico, was placed under administration of Forest Service by Federal Works Agency.

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

No. 792.—National Forest Land Purchases, by States and for Puerto Rico, to June 30, 1947

[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			PURCHASED			Remaining acquirable area (acres)
		Acres	Average price	Total price (1,000)	Acres	Average price	Total price (1,000)	
Total	63,134,758	18,586,748	$3.81	$70,739	18,217,020	$3.77	$68,645	24,467,177
Alabama	2,435,087	503,757	3.67	1,847	500,925	3.65	1,827	1,461,440
Arkansas	3,585,104	1,173,787	2.84	3,332	1,139,391	2.75	3,138	906,129
California	3,597,783	139,160	8.23	1,146	134,705	8.27	1,114	913,133
Florida	1,241,956	777,499	3.11	2,415	770,658	3.07	2,363	160,376
Georgia	1,727,585	595,521	4.92	2,928	593,322	4.90	2,908	856,886
Idaho	726,970	28,348	3.39	96	26,454	3.42	90	219,152
Illinois	801,944	187,964	6.14	1,155	185,143	6.09	1,127	412,540
Indiana	781,467	91,105	6.91	630	80,183	6.69	536	417,239
Iowa	218,671	4,748	9.11	43	4,748	9.11	43	184,562
Kentucky	1,393,521	433,218	3.80	1,646	432,907	3.80	1,643	745,520
Louisiana	1,274,977	534,157	2.82	1,507	532,742	2.81	1,499	651,452
Maine	878,032	49,245	6.61	326	49,050	6.63	325	636,942
Michigan	5,142,726	1,886,686	3.05	5,762	1,856,135	2.96	5,495	2,275,074
Minnesota	5,041,313	1,536,670	2.44	3,757	1,503,244	2.39	3,598	2,126,831
Mississippi	2,685,492	1,003,050	3.53	3,537	1,003,050	3.53	3,537	1,529,114
Missouri	3,459,999	1,306,958	2.29	2,996	1,251,950	2.24	2,803	1,704,543
Nevada	4,062,263	16,258	9.81	159	15,738	9.95	157	54,057
New Hampshire	806,323	668,505	7.77	5,193	664,260	7.78	5,167	113,109
New Mexico	92,514	20,715	1.92	40	20,715	1.92	40	10,200
North Carolina	3,605,123	1,021,680	5.15	5,261	965,749	5.16	4,979	1,749,223
North Dakota	764,425	480	10.00	5	480	10.00	5	499,480
Ohio	1,466,109	87,189	6.81	594	76,684	6.23	478	1,153,146
Oklahoma	344,269	176,160	1.76	310	167,049	1.66	277	162,879
Oregon	69,704	52,467	17.03	894	52,467	17.03	894	7,297
Pennsylvania	726,311	467,468	6.27	2,933	461,010	6.30	2,905	145,383
South Carolina	1,422,600	561,665	6.20	3,484	558,193	6.16	3,439	771,155
Tennessee	1,531,695	559,138	4.45	2,491	554,179	4.42	2,450	613,297
Texas	1,714,364	656,556	4.62	3,034	653,191	4.62	3,015	805,726
Utah	2,945,520	115,937	2.93	339	113,603	2.90	329	182,348
Vermont	580,520	207,861	9.38	1,951	168,093	10.16	1,708	278,485
Virginia	3,969,154	1,440,652	3.27	4,704	1,406,590	3.25	4,575	1,642,294
West Virginia	1,836,138	904,137	3.41	3,081	903,324	3.41	3,076	624,392
Wisconsin	2,018,944	1,364,518	2.17	2,959	1,368,195	2.16	2,935	367,699
Puerto Rico	186,155	13,489	13.62	184	12,893	13.17	170	86,074

Source: National Forest Reservation Commission, Annual Report.

No. 793.—Number of Visits to National Forests for Utilization of Recreation Resources: 1939 to 1946

[**In thousands.** Data for calendar years]

TYPE	1939	1940	1941	1942	1943	1944	1945	1946
Visits for utilization of recreation resources, total	14,332	16,163	18,005	10,407	6,275	7,152	10,074	18,241
Utilization of improved public recreation areas, total	11,466	13,053	10,688	6,066	3,412	3,585	5,072	8,763
Camp grounds	3,157	3,583	3,350	1,771	1,095	1,247	1,815	3,055
Picnic areas	7,019	7,931	5,819	3,301	2,050	2,051	2,729	4,459
Winter sports area	1,289	1,538	1,519	994	267	287	527	1,249
Organization camps	--------	--------	244	160	115	177	276	385
Hotels or resorts	1,988	2,258	1,918	1,136	680	715	1,271	2,286
Recreation residences	878	852	601	380	244	370	506	713
Wilderness areas	--------	--------	87	56	43	50	74	144
Other forest areas	--------	--------	4,467	2,610	1,780	2,254	2,874	5,948
Visits for utilization of highways, roads, and water routes	111,572	125,124	--------	--------	--------	10,967	14,530	36,969

Source: Department of Agriculture, Forest Service; records.

No. 794.—National Forests—Net Cash Receipts: 1905 to 1947

[In thousands of dollars]

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)	1927	5,167	3,253	1,531	382
1906	758	237	513	7	1928	5,442	3,325	1,714	403
1907	1,530	654	857	19	1929	6,300	4,109	1,740	451
1908	1,788	811	947	30	1930	6,752	4,390	1,943	419
1909	1,766	702	1,023	42	1931	4,993	2,608	1,961	425
1910	2,041	1,011	970	60	1932	2,294	1,049	830	415
1911	1,969	952	928	89	1933	2,626	783	1,498	345
1912	2,109	1,028	961	120	1934	3,315	1,522	1,359	434
1913	2,392	1,271	999	122	1935	3,289	1,729	1,151	408
1914	2,438	1,311	1,002	124	1936	4,063	2,203	1,441	418
1915	2,481	1,183	1,130	168	1937	4,936	2,924	1,580	431
1916	2,824	1,422	1,210	192	1938	4,671	2,518	1,696	457
1917	3,457	1,640	1,550	267	1939	4,903	2,857	1,574	472
1918	3,575	1,630	1,726	219	1940	5,859	3,943	1,463	453
1919	4,358	1,535	2,609	214	1941	6,682	4,789	1,429	464
1920	4,793	2,045	2,486	263	1942	7,165	5,094	1,595	476
1921	4,152	1,770	2,132	250	1943	10,056	7,610	1,973	473
1922	3,422	1,813	1,316	292	1944	15,617	12,623	2,459	535
1923	5,336	2,722	2,341	272	1945	16,048	11,587	2,159	2,302
1924	5,252	3,036	1,916	300	1946	13,875	10,554	2,060	1,261
1925	5,000	2,940	1,725	334	1947	18,373	15,421	2,294	658
1926	5,156	3,367	1,422	367					

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

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

No. 795.—Payments to States, Alaska, and Puerto Rico from Receipts of National Forests: 1945 to 1948

[**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	1945	1946	1947	1948	State or other area	1945	1946	1947	1948
Total	3,895	4,003	3,424	4,547	Nevada	27	25	23	25
					New Hampshire	14	23	28	19
Alabama	35	34	29	34	New Mexico	92	77	76	108
Arizona	153	143	157	196	North Carolina	87	67	47	53
Arkansas	203	201	145	160	North Dakota	(1)	(1)	(1)	(1)
California	375	364	414	474					
Colorado	134	143	147	183	Ohio	3	7	7	2
					Oklahoma	22	20	12	11
Florida	45	57	46	52	Oregon	696	600	559	939
Georgia	31	27	34	56	Pennsylvania	22	21	24	26
Idaho	228	221	210	304	South Carolina	49	54	43	66
Illinois	5	9	9	9					
Indiana	1	1	1	1	South Dakota	35	41	47	72
					Tennessee	36	27	34	31
Iowa	(1)	(1)	(1)	(1)	Texas	82	101	110	103
Kentucky	20	25	27	23	Utah	78	77	63	92
Louisiana	50	50	39	43	Vermont	14	18	15	26
Maine	1	2	2	1					
Michigan	42	39	56	62	Virginia	21	23	30	35
					Washington	849	639	398	738
Minnesota	47	52	60	78	West Virginia	17	21	23	28
Mississippi	61	505	230	103	Wisconsin	28	24	28	33
Missouri	10	12	15	15	Wyoming	78	77	74	101
Montana	143	138	135	196					
Nebraska	7	6	5	6	Alaska	48	25	14	37
					Puerto Rico	2	6	6	4

[1] Less than $500.

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

No. 796.—Timber Cut on the National Forests—Volume and Value: 1929 to 1947

[Volume in thousands of board feet; values in thousands of dollars]

Fiscal year	Total forest products, value	Timber cut: Commercial and cost sales, land exchanges: Volume	Timber cut: Commercial and cost sales, land exchanges: Value	Timber cut: Free use: Volume	Timber cut: Free use: Value [1]	Miscellaneous forest products, value [2]
1929	4,456	1,496,725	4,328	86,768	[3] 98	31
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

[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. 797.—Forest Trees Planted on Farm Lands, with Costs, by States: 1946

State or other area	Forest trees planted on farm lands during calendar year 1946 (thousands)	Expenditures, year ending June 30, 1946 ($1,000): Total	Expenditures: Federal contribution [1]	State or other area	Forest trees planted on farm lands during calendar year 1946 (thousands)	Expenditures, year ending June 30, 1946 ($1,000): Total	Expenditures: Federal contribution [1]
Total	**43,587.5**	**636.6**	**113.2**	New Hampshire	198.1	5.7	2.3
				New Jersey	385.6	16.4	3.2
Alabama	367.6	12.1	2.8	New York	4,080.0	64.7	3.8
Arkansas	878.5	9.1	2.7	North Carolina	597.9	15.0	2.8
Colorado	125.5	4.7	1.3	North Dakota	535.7	11.6	2.8
Delaware	17.5	5.0	1.2	Ohio	1,754.6	21.9	3.2
Florida	1,125.0	12.4	2.8	Oklahoma	335.1	16.1	2.7
Georgia	7,309.0	19.5	2.0	Oregon	250.1	8.0	2.6
Idaho	135.2	6.1	2.7	Pennsylvania	2,453.7	32.0	3.5
Illinois	859.6	10.6	2.9	South Carolina	3,766.1	33.0	3.3
Indiana	1,710.5	46.7	2.6				
Iowa	243.7	11.8	3.1	South Dakota	350.1	9.3	2.7
				Tennessee	277.7	4.0	2.3
Kansas	515.5	12.1	2.7	Texas	1,244.5	14.1	2.7
Kentucky	194.1	5.1	2.5	Utah	70.4	5.0	2.5
Louisiana	91.0	5.0	2.1	Vermont	397.4	14.6	2.7
Maine	57.7	1.4	.4	Virginia	511.6	8.2	2.7
Maryland	279.9	7.6	2.7	Washington	85.7	13.1	2.7
Massachusetts	441.5	13.8	1.9	West Virginia	497.2	13.8	2.8
Michigan	577.2	15.6	2.7	Wisconsin	4,029.5	48.9	3.7
Mississippi	2,994.0	10.6	2.7	Wyoming	96.3	4.6	1.0
Missouri	971.1	15.8	2.8				
Montana	190.1	11.0	3.4	Hawaii	38.0	11.3	2.7
Nebraska	866.2	14.4	1.9	Puerto Rico	1,681.8	15.0	4.7

[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; annual report, Agricultural Statistics.

No. 798.—Forest Trees Planted on Farm Lands, With Costs: 1929 to 1946

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]
1929	25,000	370	74	1938	55,360	365	71
1930	26,000	403	80	1939	64,213	398	97
1931	25,000	339	91	1940	87,468	524	140
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

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

No. 799.—Livestock Under Pay Permit on National Forests and Receipts From Grazing: 1929 to 1946

[Livestock for calendar year; receipts for fiscal year ending June 30]

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*
1929	1,370,636	853	6,666,206	1,740	1938	1,250,075	126	5,307,300	1,696
1930	1,357,843	540	6,714,342	1,943	1939	1,208,868	220	5,131,607	1,574
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	3,888,830	2,159
1937	1,283,924	241	5,484,954	1,580	1946	1,203,201	139	3,712,981	2,060

[1] Excludes animals under 6 months of age.

No. 800.—Livestock Under Pay Permit on National Forests and Receipts From Grazing, by States and for Puerto Rico: 1946

[Livestock for calendar year; receipts for fiscal year ending June 30]

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	**1,203,201**	**3,712,981**	**2,060**	Nevada	56,757	168,766	90
Alabama	205		(3)	New Hampshire	61		(3)
Arizona	146,302	107,695	240	New Mexico	86,876	129,407	130
Arkansas	3,247		2	N. Carolina	84		(3)
California	129,233	167,465	195	Ohio	144		
Colorado	183,022	729,893	359	Oklahoma			(3)
Florida	1,096		1	Oregon	71,246	226,150	121
Idaho	111,316	707,039	250	S. Carolina	877		(3)
Illinois	791	2,000	(3)	S. Dakota	26,615	19,734	28
Indiana	50			Tennessee	130		(3)
				Texas	1,199		1
Iowa			(3)	*Utah*	*114,650*	*585,396*	*213*
Louisiana	2,195		(3)	Vermont	104		(3)
Maine	5		(3)	Virginia	288	98	(3)
Michigan	2,327	350	(3)	Washington	20,227	59,121	34
Minnesota	583	32		West Virginia	1,475	2,165	3
Mississippi	1,490		1	Wisconsin	325	32	(3)
Missouri	4,437	177	5	Wyoming	107,470	493,161	167
Montana	115,370	334,300	198				
Nebraska	13,004		21	Puerto Rico			(3)

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

Source of tables 798, 799, and 800: Dept. of Agriculture, Forest Service; annual report, Agricultural Statistics.

No. 801.—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 1943-45 include estimates for the East based on sample surveys.1946 data are preliminary estimates derived by summation of Bureau of Census data for 25 States and Forest Service sample estimates for 22 States. See table 802. 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)	1933	13,961	2,062	11,899	$18.55
1879	18,091			(1)	1934	15,494	2,758	12,735	21.47
1889	23,842			$11.41	1935	19,539	3,291	16,248	20.43
1899	[2] 35,078	8,634	26,146	11.13	1936	24,355	4,113	20,242	22.20
1909	44,510	10,613	33,897	15.38	1937	25,997	4,408	21,589	24.25
1919	34,552	7,145	27,407	30.21	1938	21,646	3,353	18,293	21.45
1921	26,961	4,775	22,186	23.47	1939 [3]	24,975	3,733	21,242	21.97
1923	37,166	6,262	30,904	31.78	1940	28,934	4,031	24,903	23.32
1925	38,339	6,628	31,710	28.02	1941	33,476	5,499	27,977	28.09
1927	34,532	6,090	28,442	25.80	1942	36,332	6,822	29,510	31.50
1929	36,886	7,073	29,813	26.94	1943	34,289	7,371	26,917	36.86
1930	26,051	4,729	21,323	22.81	1944	32,938	7,778	25,160	(1)
1931	16,523	2,671	13,852	18.56	1945	28,122	6,982	21,140	(1)
1932	10,151	1,406	8,746	15.12	1946 [4]	36,426	9,857	26,570	(1)

KIND OF WOOD	PRODUCTION									
	1899	1909	1919	1929	1939 [3]	1941	1942	1943	1944	1945
Softwood, total	**26,146**	**33,897**	**27,407**	**29,813**	**21,242**	**27,977**	**29,510**	**26,917**	[5] **25,160**	[5] **21,140**
Balsam fir		109	68	38	20	11	9	7	(1)	(1)
Cedar	233	346	332	309	264	332	302	268	(1)	303
Cypress	496	956	656	532	422	350	319	254	191	228
Douglas fir	1,737	4,856	5,902	8,689	6,494	8,529	8,550	7,951	7,864	6,237
Hemlock	3,421	3,051	1,755	2,099	665	1,000	1,089	1,213	(1)	1,039
Larch	51	421	388	245	111	149	201	229	(1)	(1)
Lodgepole pine		24	16	31	55	72	66	68	72	65
Ponderosa pine	945	1,500	1,755	3,288	3,360	4,250	4,030	3,872	3,768	3,056
Redwood	360	522	410	486	345	456	462	461	462	444
Spruce	1,442	1,749	980	564	346	532	630	557	(1)	358
Sugar pine	54	97	134	349	309	370	338	278	318	228
White fir		89	223	307	98	209	274	403	492	499
White pine	7,742	3,900	1,724	1,248	1,004	1,407	1,478	1,396	(1)	1,269
Yellow pine	9,659	16,277	13,063	11,630	7,749	10,312	11,762	9,962	8,132	7,210
Other softwood	9								(1)	203
Hardwood, total	**8,634**	**10,613**	**7,145**	**7,073**	**3,733**	**5,499**	**6,822**	**7,371**	[5] **7,778**	[5] **6,982**
Alder		(6)	(6)	24	21	27	15	11	13	14
Ash	269	291	155	152	90	102	117	96	(1)	84
Basswood	308	399	184	133	96	120	133	130	(1)	100
Beech		511	359	187	120	228	317	319	(1)	352
Birch	133	452	375	374	141	214	215	188	(1)	152
Chestnut	207	664	546	268	74	93	74	85	(1)	(1)
Cottonwood	415	266	144	165	130	226	283	244	(1)	209
Elm	457	347	194	176	74	130	167	158	(1)	159
Hickory	97	334	170	57	38	79	119	164	(1)	159
Magnolia		(6)	2	42	20	19	23	(7)	(1)	(1)
Maple	633	1,107	857	824	445	615	642	581	(1)	522
Oak	4,438	4,414	2,708	2,574	1,432	2,163	2,763	3,038	3,292	2,859
Red gum	285	707	851	1,104	383	587	840	1,044	1,017	971
Sycamore	30	57	28	58	27	49	78	68	(1)	(1)
Tupelo		97	144	307	271	272	304	395	372	439
Walnut	39	46	39	72	27	44	56	52	(1)	(1)
Yellow poplar	1,115	859	329	436	276	427	543	589	641	578
Other hardwood	209	62	59	120	68	104	133	[8] 208	(1)	385

[1] Data not available. [2] Includes 298,000,000 board feet of lumber not reported by kind of wood.
[3] Excludes 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] Preliminary; data by kind of wood as shown below incomplete for 1946.
[5] Totals include species not shown separately.
[6] Less than 500,000 board feet were reported. [7] Included in "Other hardwood." [8] Includes magnolia.

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

No. 802.—Lumber—Production, by Regions and States: 1889 to 1946

[See headnote, table 801 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 1944 and subsequent years]

[In millions of board feet]

REGION AND STATE	1889	1899	1909	1919	1929	1939 [1]	1944	1945	1946
United States	**23,842**	**35,078**	**44,510**	**34,552**	**36,886**	**24,975**	**32,938**	**28,122**	[2] 36,426
Northeastern States	**4,726**	**5,709**	**5,197**	**2,584**	**1,232**	**966**	**2,073**	**1,883**	[2] 3,056
Maine	597	785	1,112	596	258	213	402	374	[3] 691
New Hampshire	277	572	650	339	192	187	356	290	382
Vermont	384	376	352	218	120	106	188	195	[3] 261
Massachusetts	212	344	361	167	72	67	109	88	[3] 111
Connecticut	49	108	168	87	30	17	27	17	[3] 30
Rhode Island	8	19	25	11	7	5	4	2	[3] 6
New York	925	878	681	358	160	108	318	283	[3] 656
New Jersey	34	74	62	37	16	14	26	31	[3] 35
Pennsylvania	2,133	2,333	1,463	630	314	186	499	464	[3] 682
Maryland	82	184	268	113	55	51	120	116	[3] 167
Delaware	23	36	55	27	10	11	24	22	[3] 34
Central States	**3,130**	**5,643**	**5,487**	**3,016**	**2,347**	**1,231**	**2,802**	**2,235**	[3] 3,731
Ohio	565	990	543	280	176	111	263	257	[3] 411
Indiana	755	1,037	556	282	170	111	176	147	[3] 264
Illinois	222	388	170	65	38	27	102	66	[3] 167
Missouri	402	724	660	321	228	74	335	241	[3] 525
West Virginia	302	778	1,473	763	633	324	632	476	[3] 891
Kentucky	423	775	861	512	339	207	506	421	[3] 580
Tennessee	460	951	1,224	792	764	376	788	627	893
Southern States	**3,718**	**8,404**	**14,796**	**12,704**	**12,484**	**7,549**	**8,207**	**7,940**	10,034
Georgia	575	1,312	1,342	894	1,386	907	1,408	1,510	1,982
Florida	412	790	1,202	1,137	1,137	603	445	485	503
Alabama	589	1,101	1,691	1,799	2,059	1,412	1,730	1,585	2,158
Mississippi	454	1,206	2,573	2,390	2,669	1,201	1,332	1,313	1,559
Arkansas	538	1,624	2,111	1,772	1,348	1,110	[4] 1,262	[4] 1,090	1,245
Louisiana	304	1,115	3,552	3,164	2,232	1,036	940	1,024	1,066
Texas	843	1,232	2,099	1,380	1,452	1,137	1,090	933	1,343
Oklahoma	3	22	226	168	200	143	(4)	(4)	88
North Carolina Pine States	**1,129**	**2,712**	**5,177**	**3,374**	**2,979**	**2,367**	**3,560**	**2,936**	3,832
Virginia	416	959	2,102	1,098	708	679	1,217	995	1,217
North Carolina	515	1,287	2,178	1,654	1,202	1,042	1,441	1,215	1,614
South Carolina	199	466	898	622	1,068	646	902	727	1,001
Lake States	**8,251**	**8,750**	**5,476**	**2,692**	**1,771**	**781**	**1,228**	**923**	[3] 1,264
Michigan	4,300	3,018	1,890	876	571	333	553	421	[3] 595
Minnesota	1,084	2,342	1,562	700	357	111	242	186	[3] 260
Wisconsin	2,866	3,389	2,025	1,116	843	337	433	316	[3] 409
Pacific States	**2,028**	**2,901**	**6,905**	**8,798**	**14,149**	**10,693**	**13,141**	**10,522**	12,432
Washington	1,064	1,429	3,863	4,961	7,302	4,244	4,350	3,258	3,422
Oregon	446	735	1,899	2,577	4,784	4,765	6,322	5,004	6,328
California and Nevada	[5] 518	738	[5] 1,144	[5] 1,259	2,063	1,685	2,469	2,261	2,681
Rocky Mountain States	**249**	**556**	**1,292**	**1,299**	**1,843**	**1,336**	**1,811**	**1,550**	1,916
Montana	90	256	309	287	389	271	448	342	414
Idaho	28	65	646	765	1,029	675	911	780	864
Arizona	5	36	63	74	175	119	172	158	241
New Mexico	26	31	92	87	148	106	105	99	144
Colorado	80	134	142	65	72	84	87	88	139
Utah	14	18	13	12	5	15	29	29	50
Wyoming	6	17	29	9	26	65	59	54	64
All other	**612**	**401**	[6] 179	[6] 85	**81**	**51**	**116**	**132**	**164**
PERCENTAGE DISTRIBUTION									
United States	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Northeastern States	19.8	16.3	11.7	7.5	3.3	3.9	6.3	6.7	8.4
Central States	13.1	16.1	12.3	8.7	6.4	4.9	8.5	7.9	10.2
Southern States	15.6	24.0	33.2	36.8	33.8	30.2	24.9	28.2	27.5
North Carolina Pine States	4.7	7.7	11.6	9.8	8.1	9.5	10.8	10.4	10.5
Lake States	34.6	24.9	12.3	7.8	4.8	3.1	3.7	3.3	3.5
Pacific States	8.5	8.3	15.5	25.5	38.4	42.8	39.9	37.4	34.1
Rocky Mountain States	1.0	1.6	2.9	3.8	5.0	5.3	5.5	5.5	5.3
All other	2.6	1.1	.4	.2	.2	.2	.4	.5	.4

[1] Excludes 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] Preliminary. [3] Sample estimates of Forest Service. Subject to revision by Census Bureau.
[4] Arkansas and Oklahoma combined.
[5] California only; for 1909 and 1919 Nevada included with "All other." [6] Includes Nevada.

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

No. 803.—Lumber—Average Mill Value per 1,000 Board Feet: 1899 to 1943

[See headnote, table 801]

KIND OF WOOD	1899	1909	1919	1929	1937	1938	1939	1940	1941	1942	1943
All kinds [1]	$11.13	$15.38	$30.21	$26.94	$24.25	$21.45	$21.97	$23.32	$28.09	$31.50	$36.86
Softwoods	(2)	14.08	28.39	24.31	22.97	20.42	20.97	22.48	27.26	30.73	35.57
Balsam fir	(2)	13.99	32.23	25.49	21.82	20.72	19.43	20.92	24.93	28.93	37.92
Cedar	10.91	19.95	33.80	34.83	37.00	36.41	40.68	39.56	44.68	49.77	51.92
Cypress	13.32	20.46	38.38	35.29	36.79	35.14	35.50	36.07	40.64	45.39	51.75
Douglas fir	8.67	12.44	24.62	20.05	19.67	17.29	17.91	19.49	25.45	30.51	33.04
Hemlock	9.98	13.95	29.16	18.90	20.58	18.99	19.39	22.19	27.33	31.36	34.79
Larch	8.73	12.68	23.39	18.35	17.23	16.05	16.80	16.03	19.47	23.89	28.41
Lodgepole pine	(2)	16.25	29.98	17.97	16.34	16.85	17.76	19.01	19.71	23.41	29.77
Ponderosa pine	9.70	15.39	27.75	26.47	24.53	22.22	22.75	24.29	28.65	32.52	36.79
Redwood	10.12	14.80	30.04	31.00	36.30	36.72	34.56	40.35	46.20	50.47	46.80
Spruce	11.27	16.91	30.76	28.64	25.73	23.72	26.68	26.84	31.71	37.70	44.76
Sugar pine	12.30	18.14	35.99	43.08	34.71	30.16	30.10	30.28	38.75	41.66	46.28
White fir	(2)	13.10	25.66	20.63	18.95	18.22	17.34	18.05	23.36	27.64	34.27
White pine	12.69	18.16	32.83	29.87	29.20	26.77	25.90	27.87	30.32	33.17	39.03
Yellow pine	8.46	12.69	28.71	25.66	22.18	19.01	19.70	21.35	25.50	27.80	34.79
Hardwoods [1]	(2)	19.52	37.22	38.04	30.49	27.09	27.66	28.47	32.34	34.87	41.57
Alder	(2)	15.03	34.67	27.18	23.07	25.41	24.63	27.11	28.10	32.57	38.27
Ash	15.84	24.44	52.69	43.14	37.11	34.30	34.33	35.18	42.10	44.03	47.52
Basswood	12.84	19.50	40.03	39.88	35.65	32.78	31.94	32.98	37.85	42.63	48.33
Beech	(2)	13.25	29.98	28.39	25.08	22.33	22.03	24.24	26.49	30.11	36.16
Birch	12.50	16.95	35.79	39.35	36.11	34.72	33.11	34.63	41.78	47.68	55.47
Chestnut	13.37	16.12	32.30	29.51	24.87	19.88	21.94	20.89	24.93	30.43	32.94
Cottonwood	10.37	18.05	32.24	29.70	25.24	22.05	21.41	22.40	26.87	28.77	34.24
Elm	11.47	17.52	36.39	35.28	25.48	23.84	24.54	26.11	29.64	33.14	37.06
Hickory	18.78	30.80	44.37	40.33	32.12	28.17	26.75	29.99	29.70	35.31	37.79
Magnolia	(2)	15.00	28.01	38.11	29.02	29.67	27.26	29.20	39.49	39.46	(2)
Maple	11.83	15.77	35.56	36.93	24.14	32.34	32.51	34.54	38.29	43.56	48.79
Oak	13.78	20.50	37.87	38.43	29.60	25.41	26.32	26.20	29.74	32.96	40.53
Red gum	9.63	13.20	32.68	34.42	26.63	22.43	23.28	25.67	31.15	30.88	35.95
Sycamore	11.04	14.87	30.32	30.07	22.75	21.42	22.26	22.93	26.82	26.81	33.25
Tupelo	(2)	11.87	28.42	25.39	23.31	20.24	22.09	24.01	28.86	30.68	38.20
Walnut	36.49	43.79	72.13	119.15	85.10	71.26	63.18	71.43	77.20	81.13	132.98
Yellow poplar	14.03	25.39	41.65	41.66	31.60	25.75	26.98	26.04	30.70	32.31	41.99

[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 Biennial Census of Manufactures and annual report, Lumber, Lath, and Shingle Production, Facts for Industry Series M 13G.

No. 804.—Lumber and Shingles—Production, for Alaska: 1899 to 1946

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
1944	29	67,414	55,237	11,314	842	21	1,250
1945	35	59,056	51,623	6,258	1,175	----------	565
1946	42	57,506	47,487	8,710	1,296	13	2,432

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

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

No. 805.—Lath and Shingles—Production: 1899 to 1945

[**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 801 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	1935	620, 038	4, 416, 709
1909	3, 703, 195	18, 634, 214	1936	810, 909	5, 901, 692
1919	1, 724, 078	11, 490, 880	1937	839, 085	[1] 5, 649, 792
1926	3, 083, 130	7, 510, 432	1938	583, 777	[1] 6, 319, 236
1927	2, 372, 333	8, 054, 835	1939	562, 207	[1] 6, 500, 242
1928	1, 903, 887	7, 004, 612	1940	523, 428	[1] 6, 126, 230
1929	1, 705, 858	7, 638, 340	1941	521, 406	[1] 5, 957, 040
1930	1, 097, 255	4, 955, 138	1942	306, 959	[1] 5, 266, 673
1931	614, 250	3, 392, 465	1943	189, 512	[1] 3, 736, 961
1932	406, 089	2, 639, 125	1944 [2]	132, 859	[1] 3, 587, 602
1933	408, 192	3, 662, 250	1945	113, 268	[1] 3, 156, 613
1934	416, 308	3, 477, 063			

[1] Includes data for shakes.
[2] Data incomplete since mills idle during war were not canvassed for 1944 production.

No. 806.—Lath and Shingles—Production by States: 1942 to 1945

[**Lath in thousands and shingles in squares.** See headnote, table 805]

STATE	LATH				SHINGLES [1]			
	1942	1943	1944	1945	1942	1943	1944	1945
Alabama	6, 075	1, 663	----------	(2)	5, 233	1, 198	(2)	(2)
Arkansas	7, 393	2, 548	(2)	(2)	2, 085	726	(2)	(2)
California	12, 908	10, 185	(2)	5, 651	55, 235	45, 090	63, 371	89, 328
Florida	26, 302	5, 943	(2)	(2)	14, 331	6, 215	(2)	(2)
Georgia	----------	----------	(2)	----------	14, 862	2, 763	(2)	(2)
Idaho	31, 157	19, 741	19, 620	17, 192	19, 104	15, 975	21, 721	24, 522
Louisiana	16, 521	10, 853	6, 436	(2)	4, 393	3, 228	(2)	----------
Maine	7, 923	2, 671	(2)	16, 629	30, 187	42, 745	24, 898	33, 079
Michigan	5, 166	2, 759	(2)	(2)	17, 923	12, 928	(2)	(2)
Minnesota	4, 937	1, 818	(2)	5, 543	2, 630	714	(2)	(2)
Mississippi	7, 131	4, 715	(2)	(2)	348	115	----------	----------
Montana	11, 691	8, 024	7, 300	(2)	9, 491	3, 081	(2)	(2)
North Carolina	724	714	(2)	(2)	26, 361	15, 467	24, 548	17, 444
Oregon	57, 281	43, 439	39, 918	25, 394	795, 198	656, 329	636, 425	686, 337
South Carolina	996	264	----------	(2)	13, 234	6, 379	(2)	(2)
Texas	9, 891	10, 181	----------	(2)	8, 486	5, 065	(2)	----------
Virginia	5, 554	3, 905	(2)	(2)	10, 410	136	(2)	(2)
Washington	62, 774	44, 951	24, 866	20, 284	4, 201, 464	2, 903, 178	2, 788, 340	2, 288, 219
West Virginia	2, 969	444	----------	(2)	----------	188	----------	----------
Wisconsin	12, 715	9, 864	[3] 9, 302	(2)	24, 135	9, 504	(2)	(2)
All other	16, 851	4, 830	[3] 25, 416	22, 575	11, 563	5, 937	[3] 28, 299	17, 684

[1] Includes data for shakes.
[2] Included in "All other."
[3] Data incomplete since mills idle during war were not canvassed for 1944 production.

Source of tables 805 and 806: Department of Commerce, Bureau of Census (in cooperation with Department of Agriculture, Forest Service, and Tennessee Valley Authority); reports of Biennial Census of Manufactures and annual report, Lumber, Lath, and Shingle Production, Facts for Industry Series M13G.

No. 807.—Veneer and Plywood—Log Consumption and Production: 1943 to 1947

[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			
	1946	1947		1946	1947
Softwood [3]	641,738	750,633	Softwood plywood (M sq. ft., 3/8" equivalent) [3]	1,436,065	1,700,446

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

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

No. 808.—Cooperage Stock—Production, by Kind: 1909 to 1939

[Production of wooden hoops in 1923 was 153,954,000; in 1925, 149,167,000; in 1927, 134,596,000; in 1929, 133,054,00 in 1931, 94,311,000; in 1933, 61,161,000; in 1935, 51,818,000; in 1937, 68,152,000; and in 1939, 32,209,000, nearly all elm]

Year and kind of wood	Staves (thousands)		Heading (thousand sets)		Class	1929	1935	1937	1939
	Tight	Slack	Tight	Slack					
1909	379,231	2,029,548	20,691	140,234	**Tight staves (thousands)**	357,353	221,619	205,286	182,431
1919	353,825	1,121,324	24,274	87,381					
1927	324,127	961,782	26,445	59,337	Whisky, spirit, and wine	16,292	60,887	65,629	48,724
1929	357,353	1,039,450	30,329	72,591	Oil, tierce, and pork	185,801	83,503	76,915	60,274
1931	204,624	537,177	20,090	43,375	Beer and ale	(1)	3,467	2,615	1,956
1933	154,575	426,585	13,031	37,461	Other and not specified	155,260	73,762	60,127	71,477
1935	221,619	439,970	15,259	35,992					
1937	205,286	574,768	13,377	54,318	**Tight heading (thousand sets)**	30,329	15,259	13,377	14,277
1939	182,431	526,315	14,277	46,465					
1939					Whisky, spirit, and wine	1,381	4,371	2,910	1,991
					Oil, tierce, and pork	21,195	4,865	4,241	4,520
Douglas fir	19,573	26,018	1,445	1,639	Beer and ale	(1)	145	418	124
Elm	(1)	35,977	(1)	7	Other and not specified	7,753	5,878	5,808	7,642
Oak	90,451	(1)	5,337	(1)					
Pine	46,637	199,337	3,412	34,776					
Red gum	13,017	169,225	1,529	1,828					
Spruce	2,977	38,140	1,341	5,275					
Other	9,776	57,618	1,213	2,940					

[1] Not called for on schedule.

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

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No. 809.—Pulpwood—Consumption by Mills and Mill Cost

[Data cover domestic and imported wood. Cost is f. o. b. pulp mill]

Year	Quantity, all kinds (cords)	Cost: Total (1,000 dollars)	Cost: Average per cord	Year	Quantity, all kinds (cords)	Cost: Total (1,000 dollars)	Cost: Average per cord	Year	Quantity, all kinds (cords)	Cost: Total (1,000 dollars)	Cost: Average per cord
1899	1,986,310	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	1944	16,757,400	(1)	(1)
1921	4,557,179	91,589	20.10	1933	6,581,674	48,508	7.37	1945	16,911,861	(1)	(1)
1923	5,872,870	95,306	16.23	1935	7,628,274	58,244	7.64	1946	17,817,560	(1)	(1)
1925	6,093,821	94,340	15.48	1937	10,393,800	82,885	7.97	1947	[2] 19,715,677	(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	65,392	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 Biennial Census of Manufactures; alternating with Biennial Census reports, a series of reports for even-numbered years through 1940. See source, table 810 concerning later data.

No. 810.—Pulpwood—Consumption, by Kind of Wood: 1943 to 1947

[**Cords of 128 cu. ft. (rough wood basis).** Data cover domestic and imported wood. Comparable data for detail shown in table 809 not available]

Kind of wood	1943	1944	1945	1946	1947 [3]
Total	15,644,500	16,757,400	16,911,861	17,817,560	19,715,677
Softwoods, total	13,477,074	13,931,075	14,519,870	15,384,176	17,023,422
Spruce and fir	3,633,239	3,290,466	(1)	(1)	(1)
Hemlock	2,081,609	2,246,833			
Pine	7,343,615	7,994,650			
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
Aspen	687,486	661,710	(1)	(1)	(1)
Yellow poplar	149,724	284,882			
Gum	66,617	160,166			
Chestnut	384,156	434,982			
Birch	----------	8,377			
Other woods [2]	641,838	988,873	----------	----------	----------
Saw mill waste	237,605	287,335	----------	----------	----------

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

Source: Data for 1943, 1944 and the first 8 months of 1945 collected and compiled by War Production Board. Thereafter, compiled by Dept. of Commerce, Bureau of the Census. 1945-47 data published in Facts for Industry Series M14A.

No. 811.—Wood Pulp and Paper and Paperboard—Production: 1899 to 1947

[Tons of 2,000 pounds]

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	1936	5, 695, 219	11, 975, 552		
1909	2, 495, 523	4, 216, 708	1937	6, 572, 918	12, 837, 003		
1914	2, 893, 150	5, 270, 047	1938	5, 933, 560	11, 380, 814		
1919	3, 517, 952	6, 098, 530	1939	6, 993, 334	13, 509, 642		
1921	2, 875, 601	5, 431, 265	1940	8, 851, 740	14, 483, 709	8, 959, 559	
1923	3, 788, 672	8, 029, 482	1941	10, 046, 193	17, 093, 092	10, 375, 422	[4] 17, 933, 607
1925	3, 962, 217	9, 182, 204	1942	10, 364, 175	16, 477, 663	10, 783, 430	[4] 17, 083, 862
1927	4, 313, 403	10, 002, 070	1943	9, 175, 013	16, 501, 597	9, 680, 462	17, 035, 688
1929	4, 862, 885	11, 140, 235	1944	9, 550, 150	16, 866, 831	10, 108, 443	17, 182, 804
1931	4, 409, 334	9, 381, 840	1945			10, 167, 200	17, 370, 965
1933	4, 276, 204	9, 190, 017	1946			10, 606, 527	19, 277, 667
1935	4, 925, 669	10, 479, 095	1947[5]			11, 951, 548	21, 028, 898

[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; see table 812 for latest State figures available.

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

No. 812.—Wood Pulp—Production, by States and by Process: 1909 to 1946

[Tons of 2,000 pounds]

STATE AND PROCESS	1909	1919	1929	1939	1943[1]	1944[1]	1945[1]	1946[1]
Total	**2, 495, 523**	**3, 517, 952**	**4, 862, 885**	**6, 993, 334**	**9, 680, 462**	**10, 108, 443**	**10, 167, 200**	**10, 606, 527**
Alabama	(2)	(2)	(2)	(2)	[3] 393, 776	[3] 430, 663	[3] 456, 877	[3] 455, 837
Florida	(2)	(2)	(2)	449, 162	625, 690	655, 148	689, 364	694, 594
Louisiana		(2)	246, 590	589, 672	866, 953	929, 313	949, 221	989, 366
Maine	620, 705	916, 764	981, 433	941, 273	1, 103, 770	1, 043, 209	1, 097, 939	1, 185, 232
Michigan	64, 369	106, 194	178, 015	200, 325	195, 048	206, 754	201, 811	219, 873
Minnesota	37, 295	129, 560	189, 664	160, 665	339, 967	338, 501	337, 332	318, 605
Mississippi	(2)	(2)	(2)	(2)	437, 951	453, 114	477, 199	463, 456
New Jersey	(2)	(2)	(2)	(2)	31, 701	46, 158	52, 304	62, 700
New Hampshire	212, 599	232, 134	212, 774	(2)	191, 551	179, 129	182, 964	177, 434
New York	679, 534	811, 958	662, 988	460, 652	509, 762	497, 252	497, 314	555, 847
North Carolina	(2)	(2)	(2)	179, 636	[4] 858, 526	[4] 917, 112	[4] 880, 219	[4] 923, 926
Pennsylvania	135, 525	215, 686	213, 083	193, 958	250, 534	267, 969	262, 498	272, 598
Vermont	(2)	(2)	(2)	(2)	15, 694	20, 508	17, 653	(2)
Virginia	48, 641	(2)	206, 050	402, 929	[5] 610, 085	[5] 657, 312	[5] 612, 085	[5] 647, 172
Washington	(2)	83, 575	523, 948	1, 126, 114	1, 153, 177	1, 256, 374	1, 265, 436	1, 332, 940
Wisconsin	324, 509	506, 549	733, 617	655, 816	835, 076	857, 986	875, 408	889, 139
Other States	372, 346	515, 532	714, 723	1, 633, 132	1, 261, 201	1, 351, 941	1, 311, 576	1, 417, 808
ALL PROCESSES								
Groundwood	1, 179, 266	1, 518, 829	1, 637, 653	1, 444, 875	1, 556, 810	1, 638, 761	1, 696, 184	1, 811, 622
Defibrated, exploded, asplund fiber and similar grades[6]					627, 249	662, 668	690, 675	761, 544
Sulphite	1, 017, 631	1, 449, 829	1, 681, 511	1, 946, 452	2, 436, 502	2, 386, 149	2, 359, 731	2, 476, 468
Sulphate		120, 378	918, 084	2, 962, 657	4, 235, 724	4, 548, 810	4, 471, 875	4, 588, 016
Soda	298, 626	411, 693	520, 729	441, 565	418, 868	412, 755	429, 757	476, 211
Semi-chemical, off quality, screenings and misc		47, 223	104, 908	197, 785	405, 309	459, 300	518, 978	492, 666

[1] New basis, see table 811.
[2] Included in "Other States" to avoid disclosing data for individual establishments.
[3] Includes Tennessee. [4] Includes South Carolina. [5] Includes Maryland.
[6] 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 Biennial Census of Manufactures; 1943 production by process, from Pulp and Paper Series—Special Report D; annual report, Census of Pulp Mills and of Paper and Paperboard Mills, Facts for Industry Series M14A.

No. 813.—Paper and Paperboard—Production, by Type and by Major Use: 1941 to 1947

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

Type and major use	1941	1942	1943	1944	1945	1946	1947*
All types	17,933	17,084	17,036	17,183	17,371	19,278	21,028
Printing and fine papers, total	4,663	4,337	4,010	3,724	3,863	4,642	5,065
Newsprint	1,044	967	811	721	725	773	816
Groundwood printing and specialty paper, total	642	610	586	593	636	776	830
Hanging	132	107	66	81	89	474	--------
Printing	203	218	238	226	257	252	--------
Other groundwood papers	308	285	282	286	290	50	--------
Bookpaper, total	2,026	1,704	1,593	1,436	1,493	1,933	2,190
General printing	1,377	1,216	1,150	1,034	1,111	1,458	--------
Converting	643	481	437	400	380	457	--------
Other bookpaper	6	7	7	2	2	18	--------
Fine papers, total	950	1,055	1,021	974	1,009	1,160	1,229
Writing paper, total	738	770	744	727	756	902	--------
Rag content	109	123	117	129	135	176	--------
Chemical wood pulp	629	647	628	598	620	726	--------
Reproduction	(1)	62	64	50	43	(2)	--------
Cover	37	36	38	45	45	64	--------
Text	25	10	10	8	14	29	--------
Bristols (except bogus)	100	109	99	84	88	97	--------
Thin	50	59	54	58	60	65	--------
Other fine paper	--------	9	11	3	3	3	--------
Coarse and industrial papers, total [3]	2,841	2,778	2,558	2,650	2,730	3,065	3,289
Coarse wrapping, bags, and converting papers, total	2,605	2,526	2,262	2,314	2,403	2,690	2,906
Wrapping papers, total	1,048	1,048	832	789	854	921	--------
Bag paper	720	661	518	375	365	524	--------
Converting papers	568	566	597	758	760	695	--------
Multi-wall and shipping sack paper	270	251	315	392	424	550	--------
Special industrial paper and paperboard [3]	173	188	208	245	238	272	281
Absorbent paper	62	65	88	90	89	103	102
All other paper, total	942	998	969	965	981	1,044	1,073
Sanitary paper, total	738	811	806	808	824	860	869
Toweling stock	195	191	190	193	205	211	--------
Toilet tissue stock	333	415	415	414	416	401	--------
Napkin stock	86	78	76	74	76	92	--------
Facial tissue stock	85	89	84	80	80	114	--------
Other sanitary papers	39	39	41	48	47	42	--------
Tissue paper	175	171	163	158	157	184	204
Paper not elsewhere classified	29	16	(4)	--------	--------	--------	--------
Construction material, total	1,850	2,053	1,941	1,969	2,006	2,293	2,421
Building paper, total	918	1,001	878	881	883	1,021	1,207
Felts	767	842	722	758	765	896	--------
Asbestos and asbestos filled	99	95	103	85	78	96	--------
Other building papers	52	64	53	39	40	29	--------
Building board	[5] 932	[5] 1,052	1,064	1,087	1,123	1,272	1,214
Paperboard for packaging, total	7,265	6,464	6,964	7,095	7,122	7,626	7,584
Container board	4,184	3,755	4,088	4,228	4,131	4,315	4,799
Folding boxboard	1,842	1,712	2,047	2,116	2,270	2,708	2,199
Set-up boxboard	[6] 1,239	997	829	750	721	603	586
Miscellaneous paperboard, total	374	453	592	780	669	607	1,596
Cardboard	80	54	64	70	71	89	80
All other paperboard	294	399	529	711	599	517	1,516

*Preliminary; detail for minor grades not available.
[1] Reported in bookpaper and paper not elsewhere classified.
[2] Reported as writing paper.
[3] 1944 figures include production of special industrial boards; figures for other years represent production of special industrial paper, only.
[4] Less than 500 tons.
[5] Includes estimated production of insulating board for 1 mill. Estimates made on assumption that production of this mill was proportionately the same in 1941 and 1942 as in 1943.
[6] Includes tube stock, classified as all other paperboard in subsequent years.

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

No. 814.—Turpentine and Rosin—Production, 1899 to 1947, and by States, 1943 to 1947

Year [1]	Turpentine (gallons)			Rosin (drums 520 lbs. net)		
	Total	From gum [2]	From wood [3]	Total	From gum [2]	From wood [3]
1899	37,733,500	37,733,500	(4)	1,947,946	1,947,946	(4)
1904	31,129,236	30,687,051	442,185	1,571,739	1,571,739	(4)
1909	[5] 29,714,132	28,988,954	706,868	1,462,208	1,462,208	(4)
1914	[5] 27,648,939	26,980,981	575,557	[5] 1,319,328	1,292,514	23,218
1919	19,228,174	17,693,841	1,534,333	1,015,774	910,928	104,846
1929–30	35,940,124	31,320,871	4,619,253	1,963,349	1,580,505	382,844
1932–33	28,756,550	[6] 25,050,000	[7] 3,706,550	1,658,664	[6] 1,362,720	295,944
1933–34	31,238,050	[6] 26,300,000	[7] 4,938,050	1,837,870	[6] 1,430,448	407,422
1934–35	30,154,650	[6] 25,500,000	[7] 4,654,650	1,783,298	[6] 1,387,200	396,098
1935–36	30,145,400	24,850,000	5,295,400	1,821,193	[8] 1,360,950	460,243
1936–37	31,726,000	24,139,350	7,586,650	1,865,569	[8] 1,286,347	579,222
1937–38	35,016,550	25,922,700	9,093,850	2,049,573	[8] 1,388,343	661,230
1938–39	35,460,900	26,714,550	8,746,350	2,089,913	[8] 1,466,344	623,569
1939–40	30,238,900	19,139,050	11,099,850	1,835,177	[8] 1,054,236	780,941
1940–41	28,317,050	17,196,900	11,120,150	1,717,492	[8] 938,911	778,581
1941–42	27,439,800	14,252,500	13,187,300	1,708,474	[8] 791,710	916,764
1942–43	28,017,550	16,096,500	11,921,050	1,655,803	[8] 868,698	787,105
1943–44	25,421,600	14,419,100	11,002,500	1,462,831	[8] 783,565	679,266
1944–45	23,562,150	12,259,700	11,302,450	1,317,912	[8] 692,212	625,700
1945–46	24,406,550	12,212,600	12,193,950	1,452,036	[8] 694,476	757,560
1946–47	28,499,250	13,514,300	14,984,950	1,720,248	[8] 752,535	967,713

State	Production from crude gum [1]							
	Turpentine (gallons)				Rosin (drums 520 lbs. net) [9]			
	1943–44	1944–45	1945–46	1946–47	1943–44	1944–45	1945–46	1946–47
Alabama	829,500	698,650	686,750	534,100	44,490	38,997	38,550	29,391
Florida	3,272,250	2,881,200	2,199,300	2,890,000	175,639	160,774	123,537	159,160
Georgia	9,931,850	8,376,900	9,035,750	9,850,250	532,953	467,477	507,526	542,364
Mississippi	176,400	160,400	154,950	139,750	9,439	8,962	8,711	7,664
Louisiana	46,000	33,350	45,500	43,850	2,476	1,847	2,538	2,381
South Carolina	163,100	109,200	90,350	56,350	8,745	6,089	5,076	3,125

[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, 18,310 gallons and 92,401 gallons, 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.
[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 Biennial 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.

26. Fisheries

The Fish and Wildlife Service, Division 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 vessels at Boston, Gloucester, and New Bedford, Massachusetts; Portland, Maine; 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.

No. 815.—Fisheries—Summary of Total Catch and Value: 1930 to 1946

[Includes Alaska beginning with 1941, data partly estimated]

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	109, 349	1941	5, 080, 341	134, 172
1931	2, 657, 317	77, 344	1942	3, 876, 524	170, 338
1932	2, 634, 704	55, 532	1943	4, 202, 281	204, 029
1937	4, 352, 549	100, 845	1944	4, 504, 522	207, 292
1938	4, 253, 445	93, 547	1945	4, 600, 000	239, 000
1939	4, 443, 328	96, 532	1946	4, 400, 000	253, 000
1940	4, 059, 524	98, 957			

No. 816.—Fisheries—Catch, by Sections

Section	Year	Fishermen	Fishing vessels	Fishing boats	Catch	
					Quantity	Value to fishermen
		Number	*Number*	*Number*	*1,000 pounds*	*1,000 dollars*
New England States	1944	17, 086	638	7, 714	713, 692	41, 909. 6
Middle Atlantic States	1944	7, 682	427	2, 905	422, 980	21, 329. 9
Chesapeake Bays States	1944	14, 849	281	12, 054	267, 391	19, 823. 2
South Atlantic and Gulf States	1945	[1] 29, 697	[1] 1, 735	[1] 16, 685	748, 595	55, 715. 4
Pacific Coast States	1945	[2] 25, 125	[2] 1, 867	[2] 7, 094	1, 428, 728	62, 694. 3
Great Lakes States	1945	[3] 5, 142	[3] 499	[3] 1, 785	78, 643	13, 800. 1
Mississippi River States	1931	15, 884	----------	14, 546	82, 383	2, 897. 3
Alaska	1945	8, 261	936	2, 746	596, 052	22, 288. 1

[1] Data for Florida for 1940.
[2] Data for 1944.
[3] Data for 1940.

Source of tables 815 and 816: Department of the Interior, Fish and Wildlife Service; annual bulletins.

No. 817.—Fisheries—Quantity and Value of Catch, by Sections and States: 1880 to 1945

[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	15,139.0	173,843	3,257.0	677	53.0
1919	467,340	19,838.7	147,956	3,889.0	529	92.7
1929	694,286	29,072.5	162,939	4,897.2	378	52.1
1930	701,351	27,493.5	143,824	4,329.4	1,069	69.1
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
1942	705,085	36,293.6	168,392	5,229.2	1,652	332.0
1943	645,590	43,003.2	133,920	7,010.1	3,128	611.5
1944	713,692	41,909.6	161,285	7.053.2	1,673	322.4

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
1942	509,099	28,377.5	12,889	1,366.6	13,053	988.3
1943	477,012	32,328.5	16,134	1,619.6	15,396	1,433.5
1944	520,539	31,441.0	15,787	1,797.8	14,408	1,295.1

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
1942	319,193	12,468.2	84,396	6,613.1	145,120	5,080.9	26	1.8	89,651	772.4
1943	321,026	18,045.8	84,898	10,358.8	148,860	6,752.3	--------	--------	87,268	934.7
1944	422,980	21,329.9	102,632	11,523.7	166,051	8,271.2	--------	--------	154,297	1,535.0

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
1941	328,155	9,120.8	47,475	3,378.7	280,680	5,742.1
1942	202,240	10,061.0	46,787	4,089.2	155,454	5,971.8
1944	267,391	19,823.2	51,563	7,377.0	215,828	12,446.2

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
1930	275,807	4,270.0	168,938	1,836.4	5,106	252.9	34,873	536.3	66,890	1,644.4
1934	261,080	3,624.1	163,462	1,672.2	5,891	225.3	27,141	359.5	64,586	1,367.1
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	401,208	14,654.2	198,169	5,495.2	10,856	899.3	21,398	1,349.5	170,785	6,910.2

No. 817.—Fisheries—Quantity and Value of Catch, by Sections and States: 1880 to 1945—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	230.6
1928	191,007	9,866.3	61,121	3,866.5	14,466	586.8
1930	141,953	6,794.9	53,525	3,001.4	7,113	315.5
1934	186,834	6,369.6	54,215	2,267.6	7,964	253.4
1940	250,018	10,580.8	54,676	3,451.6	11,344	561.9
1945	347,387	41,060.9	73,060	11,925.9	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	70,786	1,711.4	166,471	21,395.1	21,933	3,585.2

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
1941	1,813,356	40,361.7	197,253	12,622.4	91,725	5,349.9	1,524,378	22,389.4	736,269	15,039.3
1942	1,374,688	49,244.1	138,162	16,042.1	65,326	7,191.2	1,171,200	26,010.8	522,179	17,933.6
1943	1,453,263	57,322.7	155,310	17,859.5	70,289	7,780.6	1,227,664	31,682.5	594,645	20,505.9
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

Calendar year	Great lakes [1]: Total [2]		Lake Superior		Lake Michigan		Lake Huron		Lake Erie	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1885	99,842	2,691.9	8,826	291.5	23,518	878.8	11,457	276.4	51,457	1,109.1
1899	113,727	2,611.4	5,430	150.9	34,500	876.7	12,418	308.1	58,394	1,150.9
1908	106,631	3,768.0	10,198	342.0	40,019	1,554.0	12,932	486.0	41,922	1,280.0
1917	104,269	6,295.0	15,447	726.7	35,461	2,270.9	13,363	857.5	38,710	2,327.3
1927	81,327	6,794.9	15,302	918.1	23,681	2,354.8	15,711	1,444.4	23,796	1,831.3
1930	94,948	6,050.3	14,694	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
1941	78,065	6,470.3	22,111	1,309.7	22,918	2,374.3	8,727	681.1	22,063	1,882.5
1942	75,246	8,629.5	19,228	1,498.3	21,404	3,203.8	8,465	1,011.5	24,131	2,740.6
1943	78,221	12,267.6	18,372	2,214.8	22,174	4,597.7	8,610	1,075.3	27,114	4,134.3
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	28,631	4,266.9

[1] Collected for most part by State fishery agencies and compiled by Fish and Wildlife Service since 1927.
[2] 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. 817.—Fisheries—Quantity and Value of Catch, by Sections and States: 1880 to 1945—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 [3]	96,797	1,781.0	Atchafalaya	4,579	254.7	9,231	523.1
1903 [3]	93,374	1,841.2	Cumberland	728	14.7	106	13.0
1908 [3]	148,284	3,125.0	Illinois [4]	12,661	617.3	5,985	159.7
1922	105,734	4,503.5	Missouri [4]	1,232	105.2	1,051	94.3
1931	82,383	2,897.3	Ohio River and minor tributaries	7,458	379.1	1,221	96.5
	Mississippi and minor tributaries		Red [4]	6,677	324.5	6,417	277.4
			St. Francis [4]	3,684	108.9	2,173	65.6
			Tennessee [4]	4,990	98.3	5,222	75.0
			Wabash [4]	12,063	357.8	8,388	152.0
			White (Missouri and Arkansas) [4]	14,662	405.9	12,363	256.7
1894	21,242	587.8	Yazoo	1,022	55.6	[4] 1,311	[4] 57.8
1899	68,604	823.0					
1903	53,851	1,157.4					
1922	33,945	1,645.3					
1931	28,139	1,076.3					

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

No. 818.—Fisheries—Catch of Principal Species: 1931 to 1946

[In thousands of pounds. Includes Alaska]

GROUP AND SPECIES	1931	1937	1939	1941	1942	1943	1944	1945	1946
FISH									
Cod	112,303	154,282	124,347	(1)	73,456	71,643	(1)	(1)	(1)
Haddock	182,561	171,769	170,975	177,659	145,687	125,693	142,692	151,927	156,000
Herring, sea	169,574	261,651	262,810	(1)	145,779	154,545	(1)	(1)	235,000
Mackerel	61,645	87,537	113,503	(1)	103,628	134,308	(1)	(1)	107,000
Menhaden	230,398	482,137	575,480	775,087	474,821	615,554	685,980	759,074	950,000
Pilchard or sardine	300,204	1,139,505	1,240,975	1,328,378	974,680	986,563	1,135,582	831,990	515,870
Salmon	601,095	689,074	526,978	629,480	508,598	500,613	430,997	421,000	447,500
Tuna and tunalike	60,059	163,671	182,165	135,720	121,791	130,043	170,053	182,663	223,000
Rosefish	237	58,357	78,206	(1)	128,107	114,744	(1)	(1)	180,000
SHELLFISH									
Crabs	83,701	95,819	109,414	(1)	(1)	(1)	(1)	(1)	(1)
Shrimp	99,432	143,448	150,250	(1)	(1)	(1)	(1)	(1)	(1)
Oysters	101,036	95,627	93,006	(1)	(1)	(1)	(1)	(1)	(1)
Whale products	--------	10,174	5,159	495	806	496	99	--------	--------

[1] Complete data not available.

No. 819.—Fisheries—Disposition of Domestic Catch: 1941 to 1946

[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. In 1941 about 775,000,000 pounds of waste were used in production of meal and oil. In subsequent years about 600,000,000 pounds of waste were used for this purpose each year]

FORM MARKETED	ROUND WEIGHT OF CATCH (thousands of pounds)					
	1941	1942	1943	1944	1945	1946 [1]
Total	5,080,000	3,877,000	4,202,000	4,504,000	4,570,000	4,396,000
Fresh and frozen	1,660,000	1,407,000	1,547,000	1,589,000	1,841,000	1,651,000
Canned	1,645,000	1,230,000	1,150,000	1,225,000	1,230,000	1,220,000
Cured	125,000	115,000	105,000	110,000	110,000	115,000
Byproducts, bait, etc	1,650,000	1,125,000	1,400,000	1,580,000	1,388,000	1,410,000

[1] Preliminary.
Source of tables 817, 818, and 819: Department of the Interior, Fish and Wildlife Service; annual bulletins.

No. 820.—Landings by Fishing Craft at Principal Atlantic Ports: 1942 to 1946

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	158,152	35,655	71,414	2,205	13,028	391	6,684	14,081	5,195	8,035	1,464
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
New Bedford:											
1942	57,884	2,956	4,787	56	83	1	17	3,346	5	40,874	5,759
1943	62,164	5,816	7,926	860	136	1	97	6,330	-------	33,614	7,384
1944	74,936	8,211	22,466	2,174	223	(1)	135	6,196	7	27,580	7,944
1945	101,363	10,768	34,427	5,913	1,131	2	101	12,076	15	28,799	8,131
1946	90,324	11,568	33,020	323	1,394	2	8	2,252	195	31,364	10,198
Portland, Maine:											
1942	20,540	1,497	1,770	514	898	98	1,098	117	13,913	423	212
1943	18,289	2,232	409	893	1,316	70	596	11	12,253	418	91
1944	17,972	2,079	413	1,164	1,584	86	1,255	167	10,478	432	314
1945	21,956	2,445	493	1,766	1,809	158	2,681	490	11,231	390	493
1946	35,612	3,244	727	2,886	3,013	367	2,773	637	20,893	657	415
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	3,593
1946	18,015	1,486	7,530	109	149	(1)	98	375	-------	3,270	4,998
	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	762.9	249.4	482.8	427.8
1944	10,685.4	2,983.9	5,634.5	112.7	381.1	56.6	215.4	799.7	84.0	296.6	120.9
1945	13,789.6	5,198.8	5,224.7	81.0	622.6	19.0	449.4	1,563.5	55.4	430.3	144.9
1946	13,693.8	2,779.5	7,385.3	151.7	562.2	24.0	300.4	1,106.0	236.3	665.9	482.3
Gloucester:											
1942	6,083.9	423.0	486.6	69.0	757.9	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	832.8	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
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
Portland, Maine:											
1942	679.9	87.9	98.9	24.7	36.3	6.1	30.7	8.8	366.5	14.9	5.1
1943	870.0	189.6	40.1	62.0	67.3	5.0	21.9	1.1	450.9	26.8	5.3
1944	793.0	139.8	31.4	76.5	73.9	5.1	30.3	8.0	378.3	25.8	23.9
1945	1,035.3	174.2	38.6	129.3	89.4	8.9	52.8	30.4	419.0	24.5	68.2
1946	1,618.7	233.1	68.5	174.2	122.6	22.9	51.0	37.3	820.7	38.2	50.2

[1] Less than 500 pounds or $500.

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

No. 821.—Canned Fishery Products, Fish Meal, and Fish Oil—Production and Value: 1937 to 1946

[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

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

No. 822.—Canned Fishery Products—Production and Value: 1933 to 1946

[Includes Alaska]

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	34,109	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	26,271	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	246,655	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	3,164	42,217
1946	699,378	221,554	61,315	133,973	93,888	43,297	7,832	40,493	5,472	91,554
	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	5,481	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	3,599	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	73,641	19,549	19,896	59,136	7,575	8,429	11,145	5,249	23,009

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

No. 823.—Fresh and Frozen Packaged Fish—Production, by Principal Species: 1930 to 1946

[Includes Alaska]

Year	Total	Cod	Flounders	Haddock	Rosefish	Whiting [1]	Other
	Quantity (thousands of pounds)						
1930	77,829	6,602	978	62,146	----------	----------	8,103
1931	65,074	8,721	1,494	42,311	----------	----------	12,548
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	129,976	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]	184,480	18,132	21,900	42,441	49,507	22,129	34,371
	Value (thousands of dollars)						
1930	12,277	971	191	9,844	----------	----------	1,271
1931	9,452	1,118	289	6,152	----------	----------	1,893
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	6,848	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]	46,283	4,747	6,877	12,987	11,710	2,168	7,794

[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. 824.—Frozen Fishery Products—Production: 1938 to 1947

[**In thousands of pounds.** Includes Alaska. Through 1942 for month ending on 15th, thereafter for calendar month. For cold storage holdings, see table 778]

Month	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
Total	186,096	183,408	196,155	246,588	247,165	246,053	266,537	286,001	280,065	246,625
January	9,207	6,714	8,849	8,077	8,740	6,740	9,021	4,925	6,228	4,394
February	5,769	6,465	6,895	7,604	6,559	6.792	8,813	4,191	6,231	3,439
March	5,219	4,460	6,324	5,838	7,018	9,150	11,262	6,890	11,077	8,225
April	9,082	6,903	5,664	8,568	10,376	9,958	17,375	12,962	12,504	11,711
May	18,248	15,240	11,772	18,910	22,669	22,220	32,640	27,630	34,375	25,188
June	19,377	21,163	23,200	25,698	25,459	36,025	34,849	39,392	38,203	30,039
July	22,430	22,689	25,064	30,819	34,038	34,438	40,573	42,856	43,269	33,280
August	20,896	22,442	24,616	34,208	35,634	34,766	32,602	45,623	37,940	39,809
September	20,624	20,485	23,707	28,562	28,564	26,913	28,004	33,257	27,372	27,730
October	17,002	17,024	21,558	27,226	26,281	18,806	23,733	27,472	29,983	29,625
November	22,536	18,434	22,190	29,482	22,701	24,948	18,104	26,212	20,308	16,848
December	15,706	21,389	16,316	21,596	19,126	15,297	9,561	14,591	12,575	16,337

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

No. 825.—Fishery Products—Imports and Exports: 1936 to 1946

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
1936	41,872	371,206	30,356	11,516	13,214	111,259	12,263	951
1937	50,636	364,668	33,911	16,725	14,567	119,068	13,729	838
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	40,605	305,483	27,919	12,686	22,008	215,990	21,479	529
1942	38,348	279,010	28,886	9,462	31,989	167,080	27,875	4,114
1943	60,087	321,862	43,412	16,675	48,796	239,138	43,245	5,551
1944	78,519	339,431	53,431	25,088	36,033	112,230	31,929	4,104
1945 (preliminary)	101,192	404,730	76,602	24,591	38,550	135,953	30,893	7,656
1946 (preliminary)	129,615	473,366	89,961	39,654	68,224	205,941	39,629	28,596

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

No. 826.—Fish Propagation by Fish and Wildlife Service—Output of Eggs, Fry, and Fingerlings, 1895 to 1946, and by Species, 1946

[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
1925	5,301,862	1,050,393	4,114,514	136,954	135.61
1930	7,570,482	2,553,481	4,766,831	250,170	120.50
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
1942 (Dec. 31)	7,820,836	5,090,802	2,645,638	84,396	116.82
1943 (Dec. 31)	6,894,962	4,649,768	2,163,796	81,398	144.82
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

Group	1946			Group	1946		
	Eggs	Fry	Fingerlings or larger		Eggs	Fry	Fingerlings or larger
Catfish (bullheads)			874	Crappie (black)			681
Channel catfish		120	175	Crappie (white)			139
Mud catfish			5	Largemouth black bass		3,768	5,051
Buffalofish	60,750		21	Smallmouth black bass		672	208
Shad	2,461	9,288	(2)	Rock bass			42
Whitefish	780	967		Warmouth bass			13
Lake herring		4,900		Yellow bass			(2)
Striped bass		3,517		Bluegill sunfish			16,071
Atlantic salmon			40	Common sunfish			(2)
Chinook salmon	8,941	15,768	39,171	Green sunfish			64
Chum salmon		3,401	70	Red-breasted sunfish			10
Humpback salmon			237	Red-eared sunfish			1,542
Landlocked salmon			58	Round sunfish			1
Landlocked sockeye salmon			29	Pickerel			(2)
Silver salmon	51	324	1,158	Pike perch	2,000	17,235	68
Sockeye salmon	1,279		1,738	Yellow perch	420	1,739	218
Steelhead trout	7	50	229	Fresh-water drum			4
Rainbow trout	14,467	578	7,509	White perch		1,100	
Cut-throat trout	17,872	4,742	3,251	White bass			(2)
Lock Laven trout or brown trout	1,848	37	2,509	Cod	1,691,745	386,319	
Lake trout		3	963	Haddock	354,163	137,269	
Brook trout	16,242	737	5,017	Flounder		965,237	
Grayling	1,737		52	Pollock	716,299	113,399	
Northern pike	8,180	200	(2)	Lobster		3,147	321
				Terrapin			10

[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.

[2] Less than 500.

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

27. 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 29, 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.

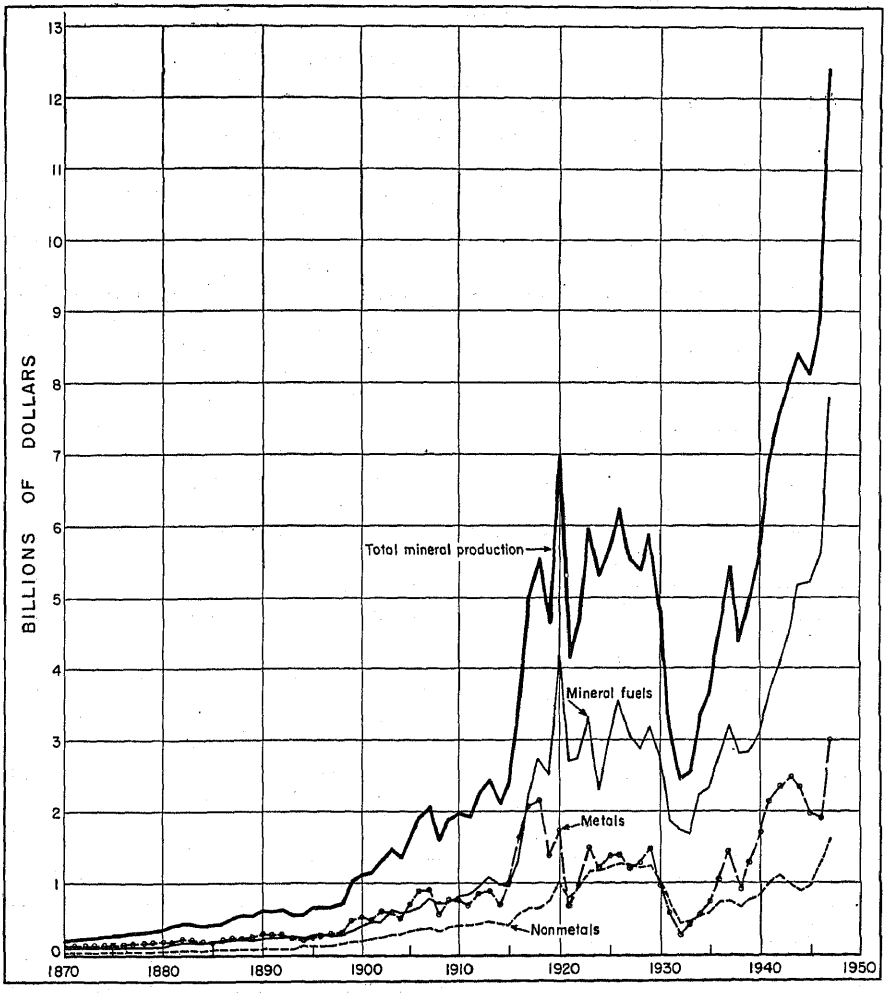
Censuses of mineral industries have been taken approximately every 10 years since 1840. The statistics are collected and published in the Census volumes in such a manner as to relate the statistics on the production of the various minerals as nearly as possible to data on employment, principal expenses, 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 tables 831–833 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 827 and 830, are not comparable with the Census value totals, as shown in tables 831–833. 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, the value of natural gas at points of consumption rather than at wells, and the value of such manufactured products as cement and lime rather than the value of the limestone used in producing them.

FIGURE T.—VALUE OF MINERAL PRODUCTION: 1870 TO 1947

[See table 827]



Source: Department of the Interior, Bureau of Mines.

No. 827.—Mineral Products of the United States—Value, for Metallic and Nonmetallic: 1881 to 1946

[All figures in millions of dollars. See general note, p. 740]

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	1928	5,385	1,288	4,097	2,885	1,212
1886–1890	541	249	292	215	78	1929	5,888	1,480	4,407	3,191	1,217
1891–1895	592	245	347	248	99	1930	4,765	986	3,779	2,765	1,015
1896–1900	828	366	462	307	154	1931	3,167	570	2,597	1,892	704
1901–1905	1,392	578	814	546	267	1932	2,462	286	2,176	1,743	432
1906–1910	1,887	769	1,118	746	372	1933	2,555	417	2,138	1,683	455
1911–1915	2,220	821	1,400	967	433	1934	3,325	549	2,776	2,233	543
1916–1920	5,129	1,798	3,331	2,602	729	1935	3,650	733	2,917	2,330	587
1921–1925	5,151	1,154	3,997	2,943	1,054	1936	4,557	1,082	3,475	2,759	716
1926–1930	5,556	1,276	4,280	3,088	1,192	1937	5,413	1,468	3,945	3,201	745
1931–1935	3,032	511	2,521	1,977	544	1938	4,363	893	3,471	2,820	650
1920	6,981	1,764	5,218	4,193	1,025	1939	4,914	1,292	3,623	2,834	788
1921	4,139	655	3,484	2,703	780	1940	5,614	1,679	3,935	3,117	819
1922	4,647	988	3,659	2,738	921	1941	6,878	2,132	4,746	3,708	1,038
1923	5,987	1,512	4,475	3,317	1,157	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	8,140	1,974	6,166	5,212	954
1927	5,530	1,221	4,309	3,060	1,249	1946 (prel.)	8,859	1,823	7,036	5,725	1,311

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

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

No. 828.—Nonferrous Metals—Yearly Average Prices, by Kind: 1896 to 1947

[Prices are cents per pound, except quicksilver (dollars per flask[1]) and platinum (dollars per ounce)]

Year	Copper, electrolytic (New York)	Lead (New York)	Tin [2] (New York)	Zinc (St. Louis)	Aluminum, delivered[3]	Antimony (New York)	Quicksilver (New York)	Platinum (New York)
1896–1900	[4] 13.41	3.84	19.54	[5] 4.55	37.15	8.204	42.17	[6] 16.66
1901–1905	13.877	4.330	28.19	[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	26.58
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	15.063	105.71	103.54
1921–1925	13.474	6.933	42.64	6.189	23.88	9.331	64.76	105.42
1924	13.024	8.097	50.18	6.344	27.03	10.836	69.76	118.82
1925	14.042	9.020	57.89	7.622	27.19	17.494	83.13	119.09
1926	13.795	8.417	65.29	7.337	26.99	15.988	91.90	113.27
1927	12.920	6.755	64.35	6.242	25.40	12.393	118.16	84.64
1928	14.570	6.305	50.43	6.027	23.90	10.305	123.51	78.58
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

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

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

No. 829.—Mineral Production, by States and for Alaska: 1940 to 1946

[Sum of State totals in table below does not agree with total for United States given in tables 827 and 830 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; and (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]

[Values in thousands of dollars]

DIVISION AND STATE	1940	1941	1942	1943	1944	1945	1946
Continental United States	4,646,533	5,587,851	6,184,095	6,589,224	6,979,809	6,897,254	7,706,062
New England	24,902	29,918	26,450	21,558	21,357	21,028	33,826
Maine	4,375	4,692	3,614	2,720	2,150	2,521	4,389
New Hampshire	1,065	1,383	1,211	1,350	1,164	802	1,451
Vermont	6,980	8,132	7,266	6,404	7,672	8,249	12,096
Massachusetts	7,573	9,293	8,467	5,441	5,263	5,450	9,745
Rhode Island	995	1,133	836	808	612	508	561
Connecticut	3,914	5,285	5,055	4,835	4,496	3,498	5,584
Middle Atlantic	728,121	867,801	984,067	1,015,076	1,106,918	1,059,392	1,232,572
New York	76,120	91,583	103,298	88,416	87,638	91,968	108,270
New Jersey	33,654	39,075	38,921	37,583	33,828	31,267	33,518
Pennsylvania	618,348	737,144	841,847	889,077	985,452	936,157	1,090,784
East North Central	605,902	725,363	772,217	770,931	788,580	780,713	881,966
Ohio	130,655	164,827	175,549	189,422	192,194	196,756	243,637
Indiana	58,975	80,572	89,571	83,513	90,465	89,856	107,800
Illinois	277,943	320,510	327,665	322,050	330,961	332,052	355,578
Michigan	124,775	142,434	161,434	157,016	152,162	139,832	146,355
Wisconsin	13,554	17,021	17,998	18,930	22,798	22,217	28,596
West North Central	366,971	475,528	534,100	514,329	498,701	491,467	552,437
Minnesota	128,572	178,790	191,650	177,687	170,488	167,138	155,734
Iowa	26,007	28,872	28,278	24,187	22,452	25,008	34,962
Missouri	50,325	61,545	76,122	72,212	72,960	74,387	87,100
North Dakota	2,987	3,328	4,028	4,422	4,393	4,578	5,587
South Dakota	23,529	24,502	24,139	8,608	5,472	7,139	18,410
Nebraska	4,692	6,499	8,428	6,800	5,060	4,963	7,237
Kansas	130,860	171,992	201,454	220,413	217,876	208,254	243,407
South Atlantic	451,803	581,931	658,728	740,958	768,275	745,416	837,216
Delaware	457	493	402	367	182	131	491
Maryland	12,605	17,292	18,384	17,508	15,264	15,329	21,468
District of Columbia	640	700	600	100	111	229	710
Virginia	50,004	71,341	79,771	85,825	87,001	82,012	92,107
West Virginia	329,892	425,626	493,995	564,230	598,425	582,990	632,654
North Carolina	21,113	18,915	17,373	22,172	22,199	14,766	20,428
South Carolina	5,306	7,246	5,891	4,759	4,192	5,043	8,189
Georgia	16,932	21,049	22,009	20,927	19,005	19,988	30,076
Florida	14,854	19,269	20,304	25,070	21,896	24,928	31,093
East South Central	246,895	325,792	401,733	424,825	468,788	466,753	511,687
Kentucky	131,974	169,009	204,294	236,578	276,701	275,487	288,606
Tennessee	42,683	56,302	67,224	64,485	63,998	58,676	70,051
Alabama	64,998	82,730	100,223	102,584	109,149	110,360	117,764
Mississippi	7,240	17,751	29,993	21,178	18,940	22,230	35,266
West South Central	1,187,173	1,407,368	1,487,278	1,708,693	1,937,153	2,013,386	2,257,084
Arkansas	37,479	47,081	60,337	81,249	68,681	63,256	69,881
Louisiana	189,153	228,440	246,439	269,412	288,374	293,963	342,944
Oklahoma	235,535	263,764	271,298	254,642	260,832	296,564	326,148
Texas	725,005	868,083	909,203	1,103,390	1,319,266	1,359,603	1,518,111
Mountain	539,774	626,019	728,405	777,553	736,527	657,027	657,418
Montana	79,488	86,583	96,682	91,743	89,052	75,978	68,630
Idaho	40,800	45,674	54,290	57,475	51,321	44,348	44,444
Wyoming	43,074	52,751	64,070	70,737	74,175	81,101	87,057
Colorado	63,188	73,961	95,279	88,534	80,202	77,458	77,960
New Mexico	80,970	97,849	106,811	123,805	124,827	118,947	129,044
Arizona	85,291	100,473	117,991	124,584	115,592	98,574	118,055
Utah	104,393	122,387	146,969	164,150	149,558	129,314	96,774
Nevada	42,571	46,341	46,313	56,525	51,800	31,307	35,454
Pacific	494,992	548,133	591,117	615,301	653,510	662,072	741,856
Washington	28,090	28,507	35,660	37,593	36,483	31,301	33,076
Oregon	11,230	12,830	14,066	12,267	9,657	9,463	11,783
California	455,672	506,795	541,392	565,441	607,370	621,308	696,997
Alaska	28,724	26,809	20,094	9,055	6,903	10,174	12,430

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

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No. 830.—Mineral Products of the United States—Quantities and Values: 1930 to 1946

[**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 1946 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]

Product	Quantity						Value (thousands of dollars)					
	1930	1935	1940	1944	1945	1946	1930	1935	1940	1944	1945	1946
Grand total (approximate)							4,764,800	3,650,000	5,613,900	8,417,000	8,140,000	8,859,000
Total metallic products (approximate)							985,790	733,130	1,678,600	2,340,000	1,974,000	1,823,000
Aluminum ... 1,000 pounds	229,037	119,295	412,560	1,552,892	990,120	819,260	50,961	22,070	75,292	222,416	140,864	115,812
Antimonial lead [1] ... short tons	13,711	[1] 16,384	[1] 29,752	[1] 57,902	[1] 56,495	[1] 50,480	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	13,501	14,966	13,962	----------	(4)	73	563	562	798
Bauxite ... long tons	330,612	233,912	434,988	[5] 2,823,724	[5] 981,009	[5] 1,072,825	1,928	1,557	2,579	[5] 14,402	[5] 5,591	[5] 6,709
Beryllium ore ... short tons	(4)	(4)	121	388	39	100	(4)	(4)	4	56	6	18
Cadmium:												
Metal ... pounds	2,777,762	3,477,091	6,467,260	8,551,424	7,938,658	6,180,265	1,778	(4)	4,527	6,435	6,107	6,095
Compounds ... do	(4)	(4)	205,900	285,203	451,050	270,789	(4)	(4)	144	214	347	267
Chromite ... long tons	80	515	2,662	40,740	12,476	3,666	2	6	29	1,668	532	105
Copper,[6] sales value ... 1,000 pounds	1,394,389	762,587	1,818,168	2,006,758	1,565,452	1,199,312	181,271	63,295	205,453	[7] 236,797	[7] 184,723	[7] 172,701
Ferro-alloys ... short tons	728,269	663,237	1,292,660	1,860,956	1,661,657	1,551,624	51,900	48,892	128,128	246,014	210,510	176,274
Gold [8] ... 1,000 troy ounces	2,286	3,609	6,003	1,022	929	1,462	47,248	126,325	210,109	35,778	32,511	51,182
Iron, ore [9] ... 1,000 long tons	55,201	33,426	75,198	95,136	88,137	70,090	145,619	83,035	189,087	256,886	243,761	215,006
Iron, pig ... 1,000 short tons	33,494	23,719	46,959	60,996	53,265	45,076	512,165	358,145	840,442	1,278,981	1,172,435	1,103,929
Lead (refined),[6] sales value ... short tons	573,740	310,505	433,065	394,443	356,535	293,309	57,374	24,840	43,307	[7] 50,489	[7] 45,636	[7] 49,276
Magnesium (new ingot) ... do	280	2,121	6,412	146,585	43,496	8,916	269	(4)	[10] 3,462	60,141	17,874	3,654
Manganese ore (35% or more Mn) ... long tons	67,035	26,428	40,123	221,086	162,801	128,246	1,437	557	1,169	9,015	7,320	4,811
Manganiferous ore (5% to 35% Mn) ... do	785,390	524,184	1,136,547	1,328,225	1,359,691	1,045,699	2,402	1,323	3,348	3,856	3,514	3,127
Mercury, metal ... flasks (76 pounds net)	21,553	17,518	37,777	37,688	30,763	25,348	2,479	1,261	6,682	4,461	4,150	2,490
Molybdenum ... 1,000 pounds	3,759	10,892	25,329	39,423	32,524	16,304	2,068	7,261	17,189	27,999	23,107	11,167
Nickel ... short tons	308	160	554	988	1,155	352	214	130	(4)	(4)	(4)	(4)
Ores (crude), old tailings, etc.:												
Copper ... 1,000 short tons	47,382	19,103	69,278	91,064	76,856	61,741						
Lead-copper, zinc-copper, zinc-lead-copper ... do	246	1	93	1,085	992	810						
Dry and siliceous (gold and silver) ... do	7,767	14,016	18,700	2,620	1,984	2,995						
Lead ... do	8,080	3,494	6,144	6,805	6,730	5,651	(11)	(11)	(11)	(11)	(11)	(11)
Zinc-lead ... do	10,645	7,471	12,866	15,418	12,355	12,730						
Zinc ... do	5,980	7,944	9,521	16,470	16,308	14,895						
Platinum, etc., value, N. Y. C. ... troy ounces	43,502	42,060	47,339	33,021	33,592	30,237	2,049	1,414	1,986	1,481	1,543	1,802
Selenium ... pounds	278,309	232,831	368,709	423,906	604,445	405,226	455	(4)	(4)	(4)	(4)	(4)
Silver [12] ... 1,000 troy ounces	50,748	45,924	69,586	35,651	29,063	21,103	19,538	33,008	49,483	25,352	20,667	17,051
Tantalum and columbium ores ... pounds	5,100	7,681	----------	10,412	6,649	3,475	3	5	----------	24	14	9
Tellurium ... do	4,717	22,610	88,996	45,323	60,328	38,523	8	(4)	(4)	(4)	(4)	(4)

Tin (metallic equivalent) ..... short tons	17	50	49	6	----	----	10	50	55	6	----	----
Titanium concentrates (ilmenite) ..... do	(4)	(4)	20,702	280,791	308,518	282,708	(4)	(4)	184	7,371	7,359	4,879
Titanium concentrates (rutile) ..... do	(4)	(4)	2,657	6,770	6,837	7,514	(4)	(4)	393	1,088	870	997
Tungsten ore (60 percent concentrates) ..... do	702	2,395	5,319	10,283	5,534	5,193	509	1,921	6,576	14,407	7,693	6,283
Vanadium ..... 1,000 pounds	(4)	(4)	2,091	3,527	2,964	1,272	(4)	(4)	(4)	1,690	1,767	711
Zinc,[6] sales value ..... short tons	489,361	412,184	589,988	574,453	467,084	459,205	46,979	36,272	74,338	[7] 98,806	[7] 80,338	[7] 81,738
Total nonmetallic products (approximate)	----	----	----	----	----	----	**3,779,010**	**2,916,870**	**3,935,300**	**6,077,000**	**6,166,000**	**7,036,000**
Arsenious oxide ..... short tons	17,425	12,670	23,339	34,472	24,810	12,476	1,008	497	561	1,697	1,197	678
Asbestos ..... do	4,242	8,920	20,060	6,667	12,226	14,075	289	293	675	380	446	505
Asphalt, native ..... do	702,777	349,938	500,281	789,516	703,873	845,898	4,463	2,201	2,766	3,691	3,816	4,263
Asphalt, oil (including road oil) [9] ..... do	2,167,068	2,715,104	5,262,959	6,408,766	6,311,815	7,056,882	20,851	24,112	41,399	70,311	68,930	82,911
Barite (crude) ..... do	234,932	225,111	409,353	518,617	696,062	724,362	1,538	1,251	2,597	3,558	5,349	5,243
Boron minerals ..... do	177,360	272,967	243,355	277,586	325,935	430,689	5,352	5,382	5,643	6,580	7,635	9,576
Bromine ..... 1,000 pounds	8,463	16,429	59,266	102,112	79,710	42,783	2,110	3,483	11,773	19,713	14,796	8,560
Calcium-magnesium chloride (75 percent $NaCl_2$) short tons	116,160	83,546	99,536	200,964	218,320	262,147	2,208	1,039	998	1,621	1,818	2,279
Cement ..... 1,000 bbl. (376 lb. net)	160,846	76,244	132,864	95,592	107,833	172,101	231,249	114,810	193,465	151,997	175,431	296,549
Clay products [13]	----	----	----	----	----	----	275,134	155,536	114,000	65,472	86,275	178,756
Clay, raw (sold by producers) ..... 1,000 short tons	3,963	2,923	4,701	6,275	18,628	30,265	[9] 12,521	[9] 10,824	18,162	23,525	39,795	57,160
Coal, bituminous [14] ..... do	467,526	372,373	[15] 460,772	619,576	577,617	532,000	795,483	658,063	[15] 879,327	1,810,901	1,768,204	1,806,153
Coal, Pennsylvania anthracite ..... do	69,385	52,159	51,485	63,701	54,934	60,507	354,574	210,131	205,490	354,583	323,944	413,417
Coke [9] ..... do	47,972	35,141	57,072	74,038	67,308	58,498	209,137	176,853	273,832	527,922	508,540	486,729
Emery ..... short tons	555	176	1,046	6,940	7,856	6,188	6	2	9	65	76	62
Feldspar (crude) ..... long tons	171,788	189,550	290,763	327,408	373,054	508,380	1,067	1,005	1,272	1,814	2,022	2,594
Fluorspar ..... short tons	95,849	123,741	233,600	413,781	323,961	277,940	1,747	1,861	4,745	12,503	9,897	9,039
Fuller's earth ..... do	335,644	227,745	146,568	294,737	296,368	298,752	4,327	2,230	1,471	3,297	3,464	3,703
Garnet for abrasive purposes ..... do	5,003	3,060	4,716	(4)	6,306	7,743	314	257	259	(4)	375	570
Graphite, amorphous ..... do	1,941	(4)	(4)	} 5,768	5,334	4,844	{ 21	(4)	(4)	} 350	289	253
Graphite, crystalline ..... do	(4)	(4)	----				(4)	(4)	----			
Grindstones and pulpstones ..... do	18,700	14,587	3,323	(4)	(4)	11,677	771	505	496	(4)	(4)	505
Gypsum [16] ..... 1,000 short tons	3,471	1,904	3,699	3,761	3,812	5,629	27,051	18,860	5,228	6,451	6,984	12,442
Helium [17] ..... M cu. ft	9,806	10,218	9,451	137,268	128,441	63,403	140	114	85	873	937	479
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	6,474	5,921	5,993	25,616	21,749	33,956	48,698	45,918	51,033
Lithium minerals ..... short tons	1,797	1,154	2,011	13,319	2,446	3,065	56	27	81	553	286	304
Magnesite (crude) ..... do	129,320	177,154	333,166	561,450	336,458	324,640	1,033	1,192	2,488	4,407	2,325	2,226
Magnesium oxide, hydrated (brucite) ..... 1,000 pounds	----	----	} 216,532	1,023,158	539,612	430,744	{ ----	----	} 2,453	18,394	9,675	8,316
Magnesium salts, natural ..... do	73,255	109,602					1,071	1,287				
Marl, calcareous ..... short tons	34,012	88,062	25,516	178,036	154,122	213,448	113	97	42	172	188	249
Marl, greensand ..... do	12,761	7,589	6,697	4,908	4,986	5,140	221	220	390	506	478	425
Mica, scrap [18] ..... do	6,732	18,852	22,386	51,727	41,060	53,602	109	244	315	1,089	812	1,041
Mica, sheet ..... 1,000 pounds	1,465	937	1,625	1,523	1,299	1,079	177	161	292	3,263	737	218
Millstones	----	----	----	----	----	----	18	10	7	10	15	15

For footnotes, see p. 747.

No. 830.—Mineral Products of the United States—Quantities and Values: 1930 to 1946—Continued

Product	Quantity						Value (thousands of dollars)					
	1930	1935	1940	1944	1945	1946	1930	1935	1940	1944	1945	1946
Nonmetallic—continued												
Mineral pigments:												
Natural pigments and manufactured iron oxide pigments ..... short tons	(19)	(19)	(19)	97,018	101,014	115,097	(19)	(19)	(19)	8,016	8,825	10,004
Zinc and lead pigments [20] ..... do	147,948	137,972	164,775	211,403	194,448	225,822	18,420	13,828	19,334	28,992	26,556	32,355
Natural gas ..... 1,000,000 cu. ft.	1,943,421	1,916,595	2,660,222	3,711,039	3,918,686	4,095,000	416,090	429,374	577,939	797,255	837,852	885,032
Natural gasoline and allied products:												
Natural gasoline and cycle products ..... 1,000 gal.	2,210,494	1,651,986	2,339,400	3,031,308	3,290,949	3,435,535	128,160	70,940	68,261	148,200	145,570	142,900
Liquefied petroleum gases ..... do	(21)	(21)	(21)	1,170,624	1,413,224	1,400,877	(21)	(21)	(21)	34,300	41,994	36,100
Oilstones, etc ..... short tons	651	439	(4)	(4)	(4)	(4)	137	106	(4)	(4)	(4)	(4)
Olivine ..... do	(4)	(4)	2,500	3,270	(4)	7,649	(4)	(4)	15	35	(4)	93
Peat ..... do	(22)	37,060	70,097	97,000	107,000	140,707	(22)	199	517	878	821	1,006
Petroleum ..... 1,000 barrels (42 gal.)	898,011	996,596	1,353,214	1,677,904	1,713,655	1,733,424	1,070,200	961,440	1,385,440	2,032,960	2,094,250	2,441,810
Phosphate rock ..... 1,000 long tons	3,926	3,042	4,003	5,377	5,807	6,861	13,997	10,952	12,335	20,856	23,951	31,044
Potassium salts (K_2O) ..... short tons	56,610	224,721	393,058	817,892	870,370	928,374	2,986	4,993	12,562	29,487	30,314	32,176
Pumice ..... do	56,843	60,000	82,407	88,757	157,011	319,883	336	247	450	704	1,051	1,586
Pyrites ..... long tons	347,512	514,192	626,640	788,530	722,596	813,372	1,029	1,583	1,920	2,598	2,700	3,228
Salt ..... 1,000 short tons	8,054	7,927	10,360	15,717	15,394	15,132	25,009	21,838	26,475	43,715	43,914	44,913
Sand and gravel:												
Sand, glass ..... do	1,849	2,126	2,760	4,443	4,682	4,849	3,211	3,735	4,882	8,228	8,374	9,541
Sand (molding, building, etc.) and gravel ..... 1,000 short tons	195,203	121,798	235,548	190,340	190,842	249,282	111,966	58,242	105,806	116,936	120,463	161,845
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)
Silica (quartz) ..... short tons	13,156	17,178	31,865	82,379	57,764	73,179	121	112	176	286	237	294
Slate ..... do	463,610	330,200	473,450	477,840	551,890	759,770	7,912	3,650	5,738	5,004	5,659	8,844
Sodium salts (carbonates and sulfates), natural ..... short tons	122,930	131,936	317,267	353,749	372,241	414,406	1,792	1,449	3,158	4,447	4,559	5,122
Stone ..... 1,000 short tons	126,996	[23] 83,159	[23] 153,733	[23] 155,580	[23] 153,405	[23] 178,852	178,949	[23] 87,824	[23] 160,044	[23] 175,642	[23] 179,308	[23] 234,339
Sulfur ..... 1,000 long tons	1,990	1,635	2,559	3,519	3,833	4,128	35,800	29,300	40,900	56,300	61,300	66,100
Sulfuric acid, byproduct (60° Baumé) [24] ..... 1,000 short tons	1,188	604	841	1,160	1,085	922	9,544	4,548	6,797	10,416	10,137	8,227
Talc, pyrophyllite, and soapstone [25] ..... short tons	179,385	172,716	281,375	398,863	398,384	457,066	2,108	1,848	3,008	5,017	5,407	6,445
Tripoli ..... do	32,439	27,375	30,212	18,425	18,247	28,955	508	383	367	302	307	549
Vermiculite ..... do	(4)	7,068	22,299	54,116	64,808	86,390	(4)	88	138	542	648	868

[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. Bureau of Mines not at liberty to publish value figures or quantity figures for 1940–1946.

[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 $83,000,000 in 1944, $79,000,000 in 1945, and $77,000,000 in 1946.

[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. For 1940, total is estimate based on figures issued by Bureau of the Census as somewhat incomplete. For 1944–46 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] Includes brown coal and lignite, and anthracite mined elsewhere than in Pennsylvania.

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

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

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

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

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

[20] Includes sublimed blue lead, sublimed white lead, leaded zinc oxide, and zinc oxide except that in 1946 data for sublimed blue and white lead are excluded but value is included in total value of nonmetallic products.

[21] Figures not available.

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

[23] Includes soapstone used as dimension stone.

[24] From copper and zinc smelters and zinc roasters and from roasting of high-sulfide gold and silver concentrates.

[25] 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. 831.—Mineral Industries—

[See headnote,

Line number	INDUSTRY	Number of operating companies [1]	Number of mines, quarries, and wells	Number of preparation plants	Quantity of major product (tons of 2,000 pounds except as noted)	Value of all products (thousands of dollars) [2]	NUMBER OF PERSONS ENGAGED: Total	Wage earners (average for year) [3]	Salaried employees [4]	Proprietors and firm members [5]
1	**All operations**	20,927	361,202	5,450	(8)	[9] 3,430,259	[10] 878,180	779,032	[10] 82,809	16,339
2	**Producing operations**	18,920	361,040	5,418	(8)	3,221,927	[10] 827,410	736,150	[10] 77,019	14,241
3	**Fuels, total**	13,345	353,969	1,291	(8)	2,392,754	635,506	566,956	57,509	11,041
4	Crude petroleum and natural gas.	7,782	347,645	------	(13)	1,375,954	141,592	105,166	30,322	6,104
5	Natural gasoline	295	------	734	[14] 2,141,779	96,338	10,347	8,332	2,005	10
6	Bituminous coal	5,009	5,686	365	391,728,862	727,358	393,308	369,156	19,656	4,496
7	Lignite	130	131	------	2,978,046	3,457	1,739	1,480	115	144
8	Pennsylvania anthracite [15]	346	507	192	51,865,328	189,648	88,520	82,822	5,411	287
9	**Metallic ores, total**	1,733	1,992	678	(8)	515,009	99,608	88,394	10,110	1,104
10	Iron ore	100	177	41	[17] 51,645,269	150,872	22,397	20,137	2,228	32
11	Major nonferrous metallic ores.	1,487	1,640	508	(16)	338,092	72,544	64,232	7,337	975
12	Gold, total	1,124	1,180	329	(16)	114,090	23,398	20,507	2,089	802
13	Lode gold	820	841	329	(16)	86,063	19,433	17,279	1,612	542
14	Placer gold	306	339	(19)	(16)	28,027	3,965	3,228	477	260
15	Silver ore	150	163	32	(16)	19,716	4,697	4,244	368	85
16	Copper ore	35	51	27	(16)	141,635	26,752	23,844	2,908	------
17	Lead ore	62	76	29	(16)	31,467	8,015	6,984	998	33
18	Zinc ore	138	170	91	(16)	31,184	9,682	8,653	974	55
19	Other nonferrous metallic ores.	153	175	129	(8)	26,045	4,667	4,025	545	97
20	Bauxite	10	12	11	[20] 388,000	2,527	827	727	100	------
21	Chromite and antimony ore.	4	3	1	[17] 3,417	47	40	31	8	1
22	Manganese ore	26	34	14	[17] 47,672	945	557	504	41	12
23	Mercury	64	61	58	[21] 18,222	1,830	721	602	74	45
24	Molybdenum ore	5	5	5	21,068	15,411	1,025	910	112	3
25	Titanium ore	3	3	3	16,471	458	196	183	13	------
26	Tungsten ore	35	49	31	[23] 3,214	3,354	855	690	134	31
27	Vanadium and uranium ore.	8	8	6	103,846	1,473	446	378	63	5
28	**Stone, total**	1,521	1,929	1,369	133,991,959	117,034	41,302	37,287	3,158	857
29	Crushed and broken	1,183	1,533	1,335	130,240,936	101,581	34,350	30,937	2,770	643
30	Rough dimension	345	396	34	3,751,023	15,453	6,952	6,350	388	214
31	Limestone, total	965	1,256	1,041	109,777,773	80,656	28,312	25,619	2,129	564
32	Crushed, etc	911	1,192	1,028	108,436,772	77,147	27,055	24,482	2,031	542
33	Rough dimension	55	64	13	1,341,001	3,509	1,257	1,137	98	22
34	Granite, total	199	242	86	7,460,299	12,876	4,913	4,417	384	112
35	Crushed, etc	59	79	74	6,500,177	7,030	2,354	2,100	232	22
36	Rough dimension	141	163	12	960,122	5,846	2,559	2,317	152	90
37	Basalt, total	101	120	116	9,822,020	9,658	2,226	1,910	278	38
38	Crushed, etc	97	116	115	9,801,339	9,632	2,198	1,886	278	34
39	Rough dimension	4	4	1	20,681	26	28	24	------	4
40	Sandstone, total	117	127	55	3,295,036	4,445	1,916	1,737	132	47
41	Crushed, etc	60	68	50	2,522,789	2,930	1,246	1,134	98	14
42	Rough dimension	57	59	5	772,247	1,515	670	603	34	33

[1] Companies with operations in more than 1 industry are counted only once in totals.
[2] See note 3, table 833. [3] See note 4, table 833. [4] See note 5, table 833. [5] See note 6, table 833.
[6] Represents permanent additions and major alterations (including installation costs); minor additions and replacements and cost of land are excluded.
[7] See note 9, table 833. [8] Not shown because of dissimilar products.
[9] Includes amounts received by or due contractors for services performed during year.
[10] Includes statistics for 334 salaried employees paid $1,091,000 at central offices that served more than 1 mineral industry.
[11] Contractors performing oil- and gas-field services were not asked to report expenditures for supplies and materials, fuel, purchased electric energy, or contract work, and contractors performing general services for mineral industries were not asked to report expenditures for contract work. These expenditures are not included in totals shown. Expenditures by "Contract-service operations" duplicate in part expenditures for "Contract work" reported by producing operations.
[12] Oil- and gas-field contractors were not asked to report expenditures for buildings, machinery, and equipment, and contractors performing general services for mineral industries were asked to report only combined expenditures for these items, which amounted to $150,000. These expenditures are not included in totals shown.
[13] Crude petroleum, 1,228,133,816 barrels (42 gallons); natural gas, 2,929,184,828 M cubic feet, of which 2,287,413,256 M cubic feet were marketed.
[14] Thousands of gallons. [15] Includes data for 58 strip-pit and culm-bank contractors.

SUMMARY, BY INDUSTRIES: 1939

table 833]

Total man-hours worked by wage earners (thousands)	PRINCIPAL EXPENSES DESIGNATED BELOW (THOUSANDS OF DOLLARS)							COST OF BUILDINGS, MACHINERY, AND EQUIPMENT ERECTED OR INSTALLED DURING YEAR (THOUSANDS OF DOLLARS) [6]		Aggregate horsepower rating of prime movers and electric motors driven by purchased energy [7]	Line number
	Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Buildings	Machinery and equipment		
1,296,611	[10] [11] 1,829,398	975,442	[10] 205,399	[11] 307,980	[11] 60,965	[11] 69,245	[11] 210,368	[12] 27,435	[12] 263,097	14,323,958	1
1,224,707	[10] 1,747,282	915,558	[10] 189,355	306,297	60,374	68,892	206,805	27,020	261,475	13,045,784	2
875,808	1,324,284	707,640	140,306	200,509	35,318	38,338	202,174	18,121	228,694	8,543,120	3
190,078	533,947	155,170	78,792	78,037	19,460	6,739	195,748	9,588	188,578	3,386,341	4
16,634	37,856	13,212	5,052	8,653	6,600	355	3,984	1,460	11,569	772,302	5
542,100	594,512	430,427	44,120	88,064	5,291	24,711	1,898	5,303	25,258	3,326,209	6
3,027	2,182	1,384	219	342	80	145	11	16	94	21,052	7
123,969	155,787	107,446	12,123	25,412	3,887	6,389	[16] 532	1,753	3,196	1,037,216	8
188,060	250,882	125,411	26,404	67,898	10,212	18,527	2,431	5,284	17,568	2,196,013	9
38,187	50,183	27,201	5,794	10,621	2,267	4,083	217	770	3,603	573,296	10
141,489	189,479	93,199	19,187	53,969	7,290	13,798	2,036	4,136	12,917	1,537,602	11
48,930	63,111	32,563	5,166	17,369	2,101	4,796	1,117	1,775	7,369	396,549	12
40,842	50,224	26,931	4,004	13,588	1,402	3,323	976	1,640	3,579	286,115	13
8,088	12,887	5,631	1,162	3,780	699	1,473	142	135	3,790	110,434	14
9,036	10,213	6,004	895	2,502	178	573	61	161	391	43,260	15
51,241	75,703	34,486	8,078	23,562	4,168	4,899	511	1,822	4,084	752,707	16
14,085	19,922	9,921	2,848	4,897	267	1,851	137	144	470	193,248	17
18,198	20,530	10,225	2,201	5,639	577	1,679	209	234	603	151,838	18
8,384	11,219	5,012	1,422	3,308	655	645	178	378	1,048	85,115	19
1,176	1,380	578	241	269	187	60	46	20	180	13,290	20
59	75	42	12	11	3	6	--------	7	27	686	21
959	805	483	84	162	37	40	--------	3	35	5,035	22
1,388	1,289	737	155	222	138	34	3	66	185	8,388	23
1,987	4,120	1,435	534	1,713	39	358	42	30	77	33,981	24
322	270	140	42	38	15	35	(22)	15	72	2,251	25
1,614	2,241	1,100	241	648	97	114	42	160	286	14,660	26
879	1,038	497	112	244	140	--------	45	77	186	6,824	27
74,665	72,698	37,591	6,983	16,961	4,756	5,534	873	1,203	5,372	1,096,649	28
62,366	63,349	31,492	6,163	15,733	4,309	4,867	786	1,155	5,047	961,604	29
12,299	9,348	6,099	820	1,228	447	667	87	48	325	135,045	30
51,101	50,355	26,167	4,638	11,584	3,466	3,800	699	895	4,210	790,138	31
48,901	48,544	24,903	4,453	11,425	3,404	3,684	675	886	4,141	756,332	32
2,200	1,811	1,264	185	159	62	117	25	9	69	33,806	33
8,841	8,146	4,156	937	1,956	392	656	50	109	415	105,248	34
4,574	4,343	1,782	573	1,405	223	334	26	75	260	48,142	35
4,267	3,803	2,373	364	551	169	321	24	33	155	57,106	36
4,037	5,416	2,465	651	1,346	418	504	32	137	386	96,713	37
4,001	5,395	2,452	651	1,344	413	503	32	137	384	96,211	38
36	21	13	--------	2	5	1	--------	(22)	2	502	39
3,131	2,969	1,651	230	742	180	137	30	23	92	35,502	40
1,990	2,027	1,084	174	519	123	105	23	23	69	24,991	41
1,141	942	567	56	223	56	32	7	(23)	23	10,511	42

[16] Excludes, to avoid duplication, $10,618,000 paid strip-pit and culm-bank contractors by colliery companies.
[17] Tons of 2,240 pounds.
[18] Recoverable metals contained:

Industry	Gold (fine ounces)	Silver (fine ounces)	Copper (pounds)	Lead (pounds)	Zinc (pounds)
Major nonferrous metallic ores, total	3,867,632	62,736,783	1,434,481,327	800,010,658	1,131,548,549
Lode gold	2,455,725	6,985,914	5,978,207	20,925,993	3,295,133
Placer gold	824,555	96,896	--------	--------	--------
Silver ore	96,296	31,008,891	31,071,853	40,245,076	9,215,058
Copper ore	429,518	13,138,381	1,385,985,075	14,431,555	52,840,656
Lead ore	40,650	9,433,615	10,313,111	602,316,964	131,872,086
Zinc ore	20,888	2,073,086	1,133,081	122,091,070	934,325,616

[19] Data not available separately.
[20] Dried bauxite equivalent. Tons of 2,240 pounds.
[21] Flasks of 76 pounds.
[22] Less than $501.
[23] 60 percent WO_3.

No. 831.—MINERAL INDUSTRIES—SUMMARY,

Line number	INDUSTRY	Number of operating companies [1]	Number of mines, quarries, and wells	Number of preparation plants	Quantity of major product (tons of 2,000 pounds except as noted)	Value of all products (thousands of dollars) [2]	NUMBER OF PERSONS ENGAGED		
							Total	Wage earners (average for year) [3]	Salaried employees [4]
1	Slate, total	70	79	11	683,900	4,163	1,516	1,341	115
2	Crushed and broken	6	11	11	308,268	2,137	450	407	43
3	Rough dimension	64	68	-------	375,632	2,025	1,066	934	72
4	Marble, total	31	44	8	316,155	2,709	1,452	1,405	41
5	Crushed and broken	6	6	5	34,815	177	80	70	9
6	Rough dimension	25	38	3	281,340	2,532	1,372	1,335	32
7	Miscellaneous, crushed and broken.	60	61	52	2,636,776	2,528	967	858	79
8	**Sand and gravel, total**	**1,253**	**1,563**	**1,528**	**122,547,976**	**79,402**	**20,573**	**16,959**	**2,818**
9	Common sand and gravel	1,129	1,380	1,383	115,543,448	69,130	17,740	14,584	2,445
10	Glass sand	32	39	40	3,175,417	6,136	1,527	1,280	242
11	Foundry sand	97	144	105	3,829,111	4,136	1,306	1,095	131
12	**Clay and shale, total**	**833**	**1,061**	**205**	**21,722,410**	**24,847**	**11,624**	**10,648**	**760**
13	Kaolin and ball clay	75	95	53	1,049,810	7,239	3,460	3,168	266
14	Fire clay	200	306	44	4,200,729	7,178	4,018	3,655	255
15	Common clay and shale	517	609	70	16,061,529	6,341	3,043	2,906	61
16	Fuller's earth	21	22	18	186,961	2,107	680	562	116
17	Bentonite	27	29	20	223,381	1,982	423	357	62
18	**All other, total**	**439**	**526**	**347**	(8)	**92,881**	**18,463**	**15,906**	**2,330**
19	Asbestos	9	9	7	15,423	492	172	160	9
20	Barite	37	47	32	348,022	2,065	870	792	62
21	Diatomite	14	14	12	98,461	2,018	370	299	62
22	Feldspar	47	59	2	[17] 214,009	981	605	512	54
23	Fluorspar	60	61	53	305,557	3,398	1,445	1,287	109
24	Graphite, lithium minerals, pinite, and Iceland spar.	6	6	2	(8)	96	48	36	10
25	Greensand	4	3	4	4,054	285	96	79	15
26	Gypsum	34	59	25	3,302,208	4,569	1,431	1,327	97
27	Kyanite, andalusite, and dumortierite.	7	8	5	3,730	139	101	83	16
28	Magnesite and brucite	3	4	1	188,349	1,396	228	216	12
29	Mica	22	21	10	20,731	327	221	190	20
30	Native asphalt and bitumens.	23	23	15	494,864	2,968	860	730	123
31	Natural abrasives	33	41	31	101,476	1,295	435	366	45
32	Natural sodium compounds.	10	12	9	255,385	3,067	643	533	105
33	Peat	23	25	23	55,556	378	195	157	27
34	Phosphate rock	33	40	50	[17] 3,957,884	12,286	3,766	3,372	382
35	Potash	5	5	4	531,621	13,964	1,801	1,516	284
36	Pyrites	6	5	4	[17] 169,760	602	209	189	15
37	Rock salt	17	17	17	2,046,880	6,896	1,565	1,380	181
38	Sulfur	8	10	2	[17] 2,091,179	31,812	2,025	1,517	507
39	Talc and soapstone	29	38	26	253,992	3,269	1,154	970	167
40	Tripoli	9	12	8	28,995	427	159	139	20
41	Vermiculite	7	7	5	22,638	150	64	56	8
42	**Contract-service operations** [24]	**2,067**	-------	-------	-------	[25] **208,332**	**48,595**	**41,426**	**5,279**
43	Oil- and gas-field services	1,888	-------	-------	-------	[25] 203,844	46,939	40,061	5,153
44	General services for mineral industries.	179	-------	-------	-------	[25] 4,488	1,656	1,365	126
45	Nonproducing operations [26]	453	162	32	-------	-------	2,175	1,456	511

[1] Companies with operations in more than one industry are counted only once in totals.
[2] See note 3, table 833. [3] See note 4, table 833. [4] See note 5, table 833. [5] See note 6, table 833.
[6] Represents permanent additions and major alterations (including installation costs); minor additions and replacements and the cost of land are excluded.
[7] See note 9, table 833.
[8] Not shown because of dissimilar products.
[11] Contractors performing oil- and gas-field services were not asked to report expenditures for supplies and materials, fuel, purchased electric energy, or contract work, and contractors performing general services for mineral industries were not asked to report expenditures for contract work. These expenditures are not included in totals shown. Expenditures by "Contract-service operations" duplicate in part the expenditures for "Contract work" reported by producing operations.
[12] Oil- and gas-field contractors were not asked to report expenditures for buildings, machinery, and equipment, and contractors performing general services for mineral industries were asked to report only combined expenditures for these items, which amounted to $150,000. These expenditures are not included in totals shown.
[17] Tons of 2,240 pounds. [22] Less than $501.

BY INDUSTRIES: 1939—Continued

NUMBER OF PERSONS ENGAGED—con.		Total man-hours worked by wage earners (thousands)	PRINCIPAL EXPENSES DESIGNATED BELOW (THOUSANDS OF DOLLARS)							COST OF BUILDINGS, MACHINERY, AND EQUIPMENT ERECTED OR INSTALLED DURING YEAR (THOUSANDS OF DOLLARS) [6]		Aggregate horsepower rating of prime movers and electric motors driven by purchased energy [7]	Line number
Proprietors and firm members [5]			Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Buildings	Machinery and equipment		
60		2,611	2,747	1,252	232	881	113	242	28	5	72	29,554	1
--------		803	1,420	426	93	716	39	138	8	--------	24	12,594	2
60		1,808	1,327	825	139	165	74	104	20	5	48	16,960	3
6		2,973	1,543	1,100	105	139	87	101	11	1	30	18,247	4
1		127	99	44	30	11	6	8	--------	--------	2	2,087	5
5		2,846	1,444	1,057	75	127	81	92	11	1	28	16,160	6
30		1,970	1,521	800	190	314	101	95	23	34	165	21,247	7
796		35,786	42,683	18,822	6,393	8,493	4,632	3,806	537	1,030	5,302	699,215	8
711		31,324	37,190	16,482	5,447	7,432	4,156	3,273	399	870	4,780	643,026	9
5		2,667	3,568	1,456	600	747	322	366	77	124	324	29,154	10
80		1,794	1,925	884	346	314	154	166	62	35	197	27,035	11
216		18,848	15,773	8,735	1,676	2,918	1,252	705	487	308	1,559	147,895	12
26		5,987	4,269	1,830	637	896	530	241	135	203	1,017	32,777	13
108		5,642	4,875	3,366	499	622	115	130	143	34	153	31,840	14
76		5,481	4,213	2,793	94	629	384	214	99	40	219	61,525	15
2		1,051	1,450	438	308	374	164	95	72	17	68	14,795	16
4		687	966	309	137	396	59	26	38	15	103	6,958	17
227		31,540	39,871	17,358	6,503	9,518	4,205	1,983	304	1,074	2,981	362,892	18
3		344	320	151	18	86	22	40	3	7	13	4,179	19
16		1,439	1,166	597	155	246	94	52	21	31	96	10,452	20
9		751	1,101	338	138	446	96	83	--------	34	48	6,648	21
39		1,016	618	383	113	81	28	8	5	7	39	5,668	22
49		2,568	2,104	1,134	228	506	118	61	57	106	456	20,506	23
2		63	63	26	13	16	3	4	1	1	1	679	24
2		146	154	67	30	34	22	1	--------	--------	--------	709	25
7		2,466	2,671	1,640	217	624	37	146	6	27	277	28,538	26
2		165	131	68	31	18	8	6	--------	2	32	1,574	27
--------		437	432	300	24	80	5	11	11	1	39	1,820	28
11		361	190	118	20	25	10	16	(22)	1	9	1,696	29
7		1,330	1,306	608	285	317	68	28	1	26	89	12,966	30
24		711	692	349	106	148	65	24	(22)	13	37	6,147	31
5		1,070	1,994	779	314	429	251	198	24	131	146	16,066	32
11		246	184	101	43	21	15	4	(22)	8	18	2,759	33
12		6,680	7,012	2,871	858	1,503	826	931	23	109	470	112,531	34
1		3,318	6,462	2,666	997	1,607	1,174	--------	18	246	545	44,600	35
5		348	384	204	37	95	7	34	8	3	15	2,525	36
4		2,608	3,148	1,434	540	868	153	151	3	149	212	23,002	37
1		3,031	7,406	2,545	1,911	1,690	1,128	15	116	84	297	45,135	38
17		2,068	2,017	807	382	619	45	162	2	62	102	12,049	39
--------		284	220	116	34	46	16	8	--------	22	34	1,595	40
--------		91	95	54	11	10	16	--------	4	5	6	1,048	41
1,890		69,159	[11] 74,226	58,085	15,157	[11] 624	[11] 335	[11] 25	(11)	(12)	(12)	1,148,201	42
1,725		66,479	[11] 71,289	56,419	14,870	(11)	(11)	(11)	(11)	(12)	(12)	1,096,381	43
165		2,680	[11] 2,937	1,666	287	624	335	25	(11)	(12)	(12)	51,820	44
208		2,744	7,890	1,799	886	1,059	255	328	3,562	415	1,622	129,973	45

[24] Contractors engaged chiefly in development work for other concerns in mineral industries; Pennsylvania anthracite strip-pit and culm-bank contractors are excluded. Statistics for contractors performing oil- and gas-field services exclude data for oil- and gas-field work performed on contract by concerns that also operated oil and gas wells for their own account unless separate reports were obtained for each of these two types of activities. Statistics are also excluded for concerns rendering oil- and gas-field services or producing crude petroleum, natural gas, or natural gasoline whose reports covering these activities indicated that neither the value of products and services rendered, nor reported principal expenses, nor cost of buildings, machinery, and equipment, nor cost of drilling and equipping wells amounted to as much as $2,500 during 1939. Statistics for contractors performing general services for mineral industries exclude data for contractors that received or were due less than $2,500 for work done during 1939.

[25] Represents amounts received or due for services performed during year.

[26] Statistics cover, in general, only those operations that had reported principal expenses or cost of buildings, machinery, and equipment during year of at least $2,500; for common sand and gravel corresponding minimum was $15,000. Statistics include data for oil- and gas-field operations in States in which the reporting concerns had no products, provided the concerns were large enough to come within the scope of the census as defined in head-note of table 833.

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

No. 832.—Mineral Industries—Summary, by States: 1939

[Statistics cover producing operations only. For explanations of terms, see headnote, table 833, and appropriate footnotes, tables 831 and 833]

STATE	Number of operating companies	Number of mines and quarries	Number of oil and gas wells producing, Dec. 31, 1939	Number of preparation plants	Value of all products (thousands of dollars)	Number of persons engaged: Total	Number of persons engaged: Wage earners (average for year)	Number of persons engaged: Salaried employees	Number of persons engaged: Proprietors and firm members	Total man-hours worked by wage earners (thousands)
United States	**18,920**	**13,395**	**347,645**	**5,418**	**3,221,927**	**827,410**	**736,150**	**77,019**	**14,241**	**1,224,707**
Alabama	282	340	--------	106	41,685	27,078	25,661	1,181	236	39,603
Arizona	164	172	--------	57	54,127	10,432	9,335	981	116	21,944
Arkansas	261	140	2,987	52	25,345	6,456	5,821	480	155	8,935
California	1,642	771	16,657	474	364,619	37,805	30,252	6,604	949	62,635
Colorado	486	544	223	107	52,059	14,884	13,259	1,288	337	22,912
Connecticut	52	63	--------	44	2,917	725	635	71	19	1,370
Delaware	9	9	--------	7	242	86	68	15	3	130
Florida	68	83	--------	83	11,155	3,480	3,070	385	25	5,995
Georgia	92	106	--------	61	8,077	3,910	3,646	224	40	7,373
Idaho	98	105	--------	48	21,918	4,989	4,550	384	55	9,507
Illinois	1,006	783	16,981	287	187,219	44,724	39,920	3,971	833	61,212
Indiana	483	455	1,885	153	35,443	12,588	11,250	978	360	18,258
Iowa	365	383	--------	91	10,816	6,260	5,580	339	341	8,583
Kansas	748	212	20,238	124	77,531	13,327	11,290	1,475	562	19,572
Kentucky	637	613	9,868	126	91,285	54,001	51,278	2,370	353	73,656
Louisiana	451	40	6,529	62	121,202	11,782	9,645	1,925	212	18,648
Maine	33	34	--------	11	896	439	379	41	19	659
Maryland and Dist. of Col.	144	171	--------	58	8,451	3,876	3,526	236	114	5,952
Massachusetts	102	112	--------	87	5,230	1,617	1,206	362	49	2,512
Michigan	463	173	3,002	106	75,397	16,144	14,293	1,566	285	27,426
Minnesota	110	170	--------	83	98,711	8,027	6,716	1,255	56	12,971
Mississippi	49	45	47	37	2,139	644	551	80	13	1,106
Missouri	387	456	132	157	27,167	11,066	9,258	1,531	277	16,422
Montana	444	296	2,067	70	44,173	11,738	10,114	1,284	340	19,560
Nebraska	37	64	--------	47	1,323	557	463	60	34	1,030
Nevada	265	279	--------	90	25,171	5,714	5,026	538	150	11,162
New Hampshire	24	26	--------	13	653	316	266	41	9	535
New Jersey	117	135	--------	108	14,124	4,010	3,369	609	32	6,451
New Mexico	241	100	2,981	30	55,559	8,266	7,340	792	134	13,463
New York	419	286	14,729	217	40,278	8,887	6,817	1,679	391	14,254
North Carolina	85	111	--------	60	4,257	1,997	1,787	178	32	3,720
North Dakota	105	106	--------	4	2,503	1,078	874	86	118	1,724
Ohio	1,189	1,102	15,011	334	63,221	28,028	24,579	2,351	1,098	40,751
Oklahoma	1,302	235	50,384	223	196,803	30,949	23,279	6,839	831	42,495
Oregon	114	123	--------	80	5,120	1,485	1,257	158	70	2,548
Pennsylvania	2,524	2,271	65,484	658	458,038	207,494	192,026	13,142	2,326	294,101
Rhode Island	20	21	--------	16	828	259	212	36	11	435
South Carolina	34	44	--------	23	3,457	1,400	1,291	97	12	2,756
South Dakota	57	55	2	23	22,680	2,924	2,633	264	27	5,960
Tennessee	220	256	41	88	22,133	12,578	11,723	739	116	19,578
Texas	2,891	192	89,568	282	555,208	52,149	38,420	11,819	1,910	71,269
Utah	160	183	7	38	62,791	10,789	9,446	1,278	65	18,294
Vermont	60	77	--------	21	5,348	1,735	1,574	121	40	3,148
Virginia	221	253	--------	113	34,436	20,122	18,988	1,041	93	28,955
Washington	146	165	12	77	13,688	4,317	3,864	343	110	6,553
West Virginia	1,041	793	26,137	239	222,780	107,488	101,815	4,934	739	155,554
Wisconsin	131	153	--------	126	8,176	2,396	2,093	229	74	4,177
Wyoming	146	89	2,673	17	35,548	6,394	5,705	619	70	8,855

No. 832.—Mineral Industries—Summary, by States: 1939—Continued

STATE	PRINCIPAL EXPENSES DESIGNATED BELOW (THOUSANDS OF DOLLARS)							COST OF BUILDINGS, MACHINERY, AND EQUIPMENT ERECTED OR INSTALLED DURING YEAR (THOUSANDS OF DOLLARS)		Aggregate horsepower rating of prime movers and electric motors driven by purchased energy
	Total	Wages	Salaries	Supplies and materials	Fuel	Purchased electric energy	Contract work	Buildings	Machinery and equipment	
United States	**1,747,282**	**915,558**	**189,355**	**306,297**	**60,374**	**68,892**	**206,805**	**27,020**	**261,475**	**13,045,784**
Alabama	34,253	23,674	2,666	5,846	483	1,342	242	549	2,307	253,211
Arizona	30,604	14,495	2,492	10,428	2,012	1,059	118	789	3,118	280,525
Arkansas	15,943	5,905	1,032	2,783	872	374	4,977	149	4,138	122,902
California	132,197	51,788	17,934	28,538	7,619	6,116	20,202	3,618	37,886	1,257,118
Colorado	29,650	16,561	2,899	6,987	844	1,803	556	441	1,642	192,296
Connecticut	1,656	753	180	436	137	127	21	49	142	28,420
Delaware	153	69	33	25	14	12	------	2	6	3,067
Florida	6,265	2,406	775	1,453	771	816	43	146	331	116,656
Georgia	5,076	2,257	503	1,263	577	345	130	240	1,079	47,770
Idaho	12,267	6,936	1,044	3,202	237	802	46	118	746	77,816
Illinois	102,901	47,441	9,773	17,529	2,303	3,784	22,071	2,545	18,795	737,958
Indiana	24,656	13,505	2,143	5,592	814	1,477	1,124	443	1,869	233,285
Iowa	7,923	5,482	570	1,147	309	362	53	46	302	64,949
Kansas	36,475	12,776	3,259	5,710	1,167	1,240	12,323	731	9,644	357,383
Kentucky	71,359	52,173	4,606	10,211	765	2,561	1,043	556	2,784	325,424
Louisiana	60,234	14,744	5,188	10,240	3,280	448	26,334	917	23,418	284,785
Maine	593	376	72	83	27	33	2	5	11	10,952
Maryland and Dist. of Col.	5,243	3,344	487	852	298	204	59	79	618	38,469
Massachusetts	3,517	1,486	1,042	433	294	256	6	64	321	58,418
Michigan	37,311	18,418	3,687	7,302	2,570	2,033	3,300	414	3,950	403,941
Minnesota	20,402	9,816	3,340	4,014	1,576	1,558	97	367	1,394	309,190
Mississippi	1,170	362	173	212	140	72	210	16	265	13,811
Missouri	18,801	8,904	3,678	3,885	541	1,621	172	146	613	220,954
Montana	27,212	14,463	2,987	6,915	504	1,793	550	380	2,273	224,646
Nebraska	811	358	86	175	89	75	29	15	88	15,059
Nevada	15,853	7,754	1,318	4,110	620	1,188	862	836	1,474	102,169
New Hampshire	479	266	87	63	44	19	(1)	2	73	6,650
New Jersey	8,947	4,314	1,612	1,720	570	636	95	163	478	90,674
New Mexico	25,815	9,468	1,945	5,223	1,389	313	7,476	983	5,624	144,175
New York	23,477	9,399	5,703	4,126	1,478	1,373	1,398	404	2,420	278,038
North Carolina	2,532	1,123	321	709	181	193	7	8	161	26,285
North Dakota	1,518	871	171	274	73	124	6	16	56	15,251
Ohio	45,573	28,334	5,041	7,001	1,704	2,048	1,445	418	3,986	358,401
Oklahoma	83,873	30,413	17,880	15,652	4,324	1,870	13,734	1,028	11,623	947,665
Oregon	3,184	1,580	317	864	254	163	6	84	216	32,405
Pennsylvania	352,536	243,512	30,539	50,947	8,125	14,048	5,365	3,596	14,103	2,301,660
Rhode Island	527	262	61	129	44	30	2	13	35	6,998
South Carolina	2,132	782	283	698	136	176	58	26	162	20,366
South Dakota	7,711	4,681	840	1,715	282	172	21	352	735	46,047
Tennessee	16,194	10,458	1,486	2,602	589	968	89	223	1,007	136,526
Texas	207,036	55,826	31,855	32,023	8,447	2,240	76,645	3,935	86,788	1,224,293
Utah	27,870	13,159	3,303	7,603	560	2,988	257	552	1,475	272,301
Vermont	3,230	1,719	297	842	92	273	6	37	92	32,120
Virginia	26,879	18,864	2,037	4,186	424	1,324	44	198	1,174	145,791
Washington	8,739	5,341	816	1,911	245	381	45	168	326	75,443
West Virginia	175,856	128,402	10,804	25,355	1,795	7,142	2,358	1,030	9,217	922,293
Wisconsin	5,069	2,604	513	1,078	365	491	18	27	413	72,806
Wyoming	15,582	7,932	1,478	2,204	388	422	3,159	99	2,095	108,422

[1] Less than $501.

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

No. 833.—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]

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	261,475	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. 834.—Aluminum—Production, Exports, and Imports: 1913 to 1946

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	678,586	98,290	13,086	3,064
1946	1,375,406	819,260	556,146	194,451	115,812	78,639	114,200	12,236	34,668	10,132

[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. 835.—Copper—Production, Exports, Imports, and Consumption: 1910 to 1946

[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	1944	1945	1946
UNREFINED COPPER								
Copper ore produced (1,000 tons) [1]	28,497	36,765	47,382	19,112	69,278	91,064	77,473	62,232
Average copper yield, percent	1.88	1.63	1.43	1.89	1.20	.99	.93	.91
Smelter output from domestic ore	540,080	604,530	697,195	381,294	909,084	1,003,379	782,726	599,656
Mine production	544,119	612,275	705,074	380,491	878,086	972,549	772,894	608,737
Imports, unrefined: [2]								
Ore (copper content)	32,102	26,023	50,658	7,660	[3] 11,293	6,415	8,858	4,784
Concentrates (copper content)	10,511	23,399	28,435	30,198	[3] 71,574	59,054	48,632	40,061
Matte and regulus (copper content)		8,797	2,353	2,733	60,115	51,012	19,862	732
Unrefined, in bars, pigs, etc	[4] 129,605	122,348	280,235	197,975	278,212	175,424	243,101	192,221
REFINED COPPER PRODUCTION								
New copper (primary)	711,020	763,083	1,078,530	588,805	1,313,556	1,221,187	1,108,599	878,662
Domestic	535,947	591,212	695,612	338,321	927,239	973,852	775,738	578,429
Foreign	175,072	171,871	382,917	250,484	386,317	247,335	332,861	300,233
Secondary copper	94,500	312,460	467,200	448,900	532,046	950,942	1,006,516	803,546
From new scrap	30,000	143,500	125,000	87,200	198,156	494,232	509,421	397,093
From old scrap	64,500	168,960	342,200	361,700	333,890	456,710	497,095	406,453
REFINED COPPER CONSUMPTION								
New copper produced (refinery)	711,020	763,083	1,078,530	588,805	1,313,556	1,221,187	1,108,599	878,662
Refined copper imported [2]	(1)	54,372	43,105	18,071	68,337	492,395	531,367	154,371
Refined copper exported	[5] 354,158	275,613	334,626	275,006	377,108	[6] 68,373	[6] 48,563	[6] 52,629
Stocks, Dec. 31 (refined)	61,402	329,500	307,500	175,000	91,500	81,000	130,000	96,000
Withdrawn on domestic account:								
New refined copper	366,203	526,919	632,508	441,371	1,008,785	1,504,000	1,415,000	1,391,000
New and old copper	460,700	839,500	1,099,500	890,000	1,541,000	2,455,000	2,422,000	2,195,000

[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.

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

No. 836.—Copper—Mine Production, by States: 1910 to 1946

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

STATE	1910	1920	1930	1935	1940	1944	1945	1946
Total	544,119	612,275	705,074	380,491	878,086	972,549	772,894	608,737
Alaska	2,121	35,218	16,326	7,750	55	2	5	2
Arizona	148,746	279,128	288,095	139,015	281,169	358,303	287,203	289,223
California	24,350	6,313	13,643	977	6,438	12,721	6,473	4,240
Colorado	4,180	2,022	5,257	7,327	12,152	1,048	1,485	1,754
Idaho	3,519	1,269	1,556	1,048	3,349	1,688	1,548	1,038
Michigan	111,342	77,348	84,691	32,054	45,198	42,421	30,401	21,663
Missouri	----------	756	88	34	685	3,302	3,399	1,857
Montana	142,404	88,530	98,094	77,479	126,391	118,190	88,506	58,481
Nevada	32,180	25,280	54,602	37,133	78,454	61,232	52,595	48,616
New Mexico	2,307	27,200	32,575	2,253	69,848	69,730	56,571	50,191
Tennessee	8,419	8,364	(1)	(1)	[2] 12,732	[2] 12,860	[3] 12,385	[3] 12,850
Utah	63,799	58,466	90,263	64,758	231,864	282,575	226,376	114,284
Washington	43	992	603	43	9,612	6,169	5,821	4,527
Other States	710	1,390	19,282	10,620	139	2,308	126	11

[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. 837.—Copper—Smelter and Refinery Output: 1850 to 1946

[**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 835) include copper from foreign materials smelted and refined or only refined in the United States]

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	1923	717,500	210,945	989,918	732,082	257,835	410,900
1860	8,064	3,709	1924	817,125	214,087	1,130,038	837,107	292,931	388,300
1870	14,112	5,977	1925	837,435	237,832	1,102,287	841,448	260,839	420,210
1871–1875	17,136	8,895	1926	869,811	243,547	1,161,243	865,649	295,594	479,800
1876–1880	24,976	9,679	1927	842,020	220,609	1,162,882	859,476	303,406	490,200
1881–1885	58,867	17,236	1928	912,950	262,930	1,243,804	895,899	347,905	536,400
1886–1890	105,214	30,345	1929	1,001,432	352,504	1,370,056	991,366	378,690	626,550
1891–1895	169,328	37,266	1930	697,195	181,271	1,078,530	695,612	382,917	467,200
1896–1900	265,544	74,424	1931	521,356	94,887	750,721	537,303	213,418	347,000
1901–1905	366,095	103,859	1932	272,005	34,273	340,434	222,539	117,895	248,180
1906–1910	490,248	150,924	1933	225,000	28,800	370,789	240,669	130,120	338,100
1911–1915	610,313	185,592	1934	244,227	39,076	445,360	233,029	212,331	377,400
1916–1920	821,799	395,270	1935	381,294	63,295	588,805	338,321	250,484	448,900
1921–1925	619,999	171,275	1936	611,410	112,499	822,489	645,462	177,027	484,600
1926–1930	864,682	252,172	1937	834,661	201,988	1,066,814	822,253	244,561	532,100
1931–1935	328,776	52,066	1938	562,328	110,216	792,416	552,574	239,842	359,800
1936–1940	726,032	155,678	1939	712,675	148,236	1,009,515	704,873	304,642	499,700
1941–1945	986,621	232,843	1940	909,084	205,453	1,313,556	927,239	386,317	532,046
1917	943,060	514,911	1941	966,072	227,993	1,395,309	975,408	419,901	726,396
1918	954,267	471,408	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

[1] Excludes premiums paid to miners by Government.

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

No. 838.—Copper—Exports and Imports: 1891 to 1946

[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	1936	262,417	50,663	183,788	29,884
1896–1900 [2]	137,684	36,745	24,634	5,866	1937	350,317	93,626	227,479	52,562
1901–1905 [2]	190,451	54,942	83,237	22,611	1938	422,014	86,809	205,718	37,872
1906–1910 [2]	289,445	92,334	130,111	38,026	1939	427,579	97,185	230,669	44,230
1911–1915 [2]	416,840	123,655	176,635	46,129	1940	427,944	110,119	364,997	73,492
1916–1920 [3]	376,877	208,909	244,948	103,805	1941	158,906	47,690	720,708	141,789
1921–1925	438,337	129,761	298,975	77,811	1942	217,082	82,348	782,361	165,307
1926–1930	491,290	149,999	407,630	108,244	1943	296,016	108,719	736,464	156,514
1931–1935	246,658	39,920	211,116	29,662	1944	237,521	102,697	764,228	165,479
1936–1940	378,054	87,680	242,530	47,608	1945	132,592	55,212	896,239	194,672
1934	312,743	49,765	199,538	27,786	1946	97,513	38,587	354,497	86,190
1935	302,873	48,933	240,528	33,213					

[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.

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce through April 1941 and Bureau of the Census thereafter; annual report, Foreign Commerce and Navigation of the U. S.

No. 839.—Iron Ore—Production, Shipments, Exports, and Imports, 1881 to 1946, and Production, by District and Kind, 1942 to 1946

[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]

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
1936	48,789	51,466	645	2,232
1937	72,094	72,348	1,264	2,442
1938	28,447	26,431	592	2,122
1939	51,732	54,827	1,057	2,413
1940	73,696	75,198	1,386	2,479
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	1,194
1946	70,843	70,090	1,506	2,821

Production	1942	1943	1944	1945	1946
District					
Lake Superior	91,005	85,789	79,111	74,821	59,042
Southeastern	9,159	8,479	7,122	6,330	6,247
Northeastern	3,120	3,468	3,849	3,620	2,596
Western	1,599	2,860	3,442	3,088	2,451
Undistributed (byproduct ore)	643	653	593	517	507
Kind					
Hematite	[3] 99,705	94,418	86,727	81,295	65,728
Brown ore	1,637	1,627	1,219	943	686
Magnetite	[3] 3,541	4,549	5,579	5,621	3,921
Carbonate	(4)	1	1	1	1
Byproduct material (pyrites cinder and sinter)	643	653	593	517	507

[1] Excludes ore sold for paint.
[2] Not available.
[3] Some magnetite included with hematite.
[4] Less than 500.

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

No. 840.—Lead, Recoverable—Mine Production, by States and for Alaska: 1920 to 1946

[In short tons (2,000 pounds)]

State	1920	1925	1930	1935	1940	1944	1945	1946
Total	496,814	684,439	558,313	331,103	457,392	416,861	390,831	335,475
Western States and Alaska	248,131	364,387	312,413	193,439	244,974	209,018	184,152	165,092
Alaska	875	789	1,365	670	779	44	11	115
Arizona	6,935	11,938	4,246	7,783	13,266	16,707	22,867	23,930
Colorado	23,315	31,483	22,130	5,673	11,476	17,698	17,044	17,036
Idaho	118,565	126,521	134,058	79,020	104,834	83,530	68,447	59,987
Montana	14,846	18,765	10,653	15,589	23,036	13,105	9,999	8,280
Nevada	10,100	12,238	11,529	12,676	7,499	6,605	6,275	7,175
New Mexico	1,435	3,210	10,378	7,289	3,822	7,265	7,662	4,899
Utah	66,898	153,335	115,495	63,510	75,688	52,519	40,817	30,711
Washington	2,749	2,814	576	103	2,555	5,825	3,802	2,987
Other	2,413	3,294	1,983	1,126	2,019	5,720	7,228	9,972
Central States	246,780	317,375	237,533	132,682	207,587	201,577	201,520	164,804
Kansas	16,452	22,775	12,910	10,892	11,927	9,394	7,370	6,445
Missouri	161,812	211,566	199,632	97,493	172,052	174,683	176,575	139,112
Oklahoma	64,086	79,946	23,052	23,405	21,240	13,944	12,664	13,697
Other	4,430	3,088	1,939	892	2,368	3,556	4,911	5,550
Eastern States	[1] 1,903	2,677	8,367	4,982	4,831	6,266	5,159	5,579
New York	----------	----------	8,367	4,982	1,973	1,644	862	1,073
Tennessee	1,880	448			573	----------	54	125
Virginia	----------	2,229			2,285	4,622	4,243	4,381

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

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

No. 841.—Lead—Production of Refined Primary and Secondary Lead, 1830 to 1946, and by Class and Source, 1880 to 1946

[**Production in short tons (2,000 pounds); values, except price per pound, in thousands of dollars.** Figures, except those for antimonial and secondary lead, relate to new (primary) lead only; totals include lead derived from both domestic (including Alaska) and foreign ore. General production figures and production of desilverized lead exclude lead content of antimonial lead, shown in next to last column]

YEAR	Production	Value	YEAR	Production	Value	YEAR	Production	Value
1830	8,000	608	1911	486,979	43,828	1929	774,633	97,604
1840	17,000	1,666	1912	480,894	43,280	1930	643,033	64,303
1850	22,000	2,112	1913	462,460	40,696	1931	442,764	32,765
1860	15,600	1,778	1914	542,122	42,286	1932	281,941	16,916
1870	17,830	2,247	1915	550,055	51,705	1933	263,676	19,512
1880	95,725	9,573	1916	571,134	78,817	1934	311,236	23,031
1890	157,844	14,206	1917	610,769	105,052	1935	324,560	25,965
1895	235,822	15,093	1918	640,195	90,908	1936	399,156	36,722
1900	367,773	32,364	1919	482,220	51,115	1937	467,317	55,143
1902	367,892	30,167	1920	529,657	84,745	1938	383,669	35,298
1903	368,939	30,991	1921	448,589	40,373	1939	484,035	45,499
1904	393,452	33,837	1922	532,662	58,593	1940	533,179	53,318
1905	388,307	36,501	1923	618,322	86,565	1941	570,967	65,090
1906	404,746	46,141	1924	690,493	110,479	1942	566,839	71,422
1907	413,389	43,819	1925	766,969	133,453	1943	469,612	60,110
1908	396,564	33,311	1926	798,941	127,831	1944	464,763	59,490
1909	446,909	38,434	1927	796,530	100,363	1945	443,585	56,779
1910	470,272	41,384	1928	781,071	90,604	1946	338,197	56,817

YEAR	CLASS		SOURCE			Average value per pound	Antimonial lead, at primary refineries	Secondary lead recovered, total
	Desilverized [1] [2]	Soft undesilverized [2]	Domestic ores and bullion [3]	Foreign ores	Foreign base bullion			
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
1941	406,257	164,710	470,517	74,166	26,284	.057	40,237	397,416
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

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

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

No. 842.—Lead—Apparent Shipments of Refined Primary Pig to Domestic Consumers: 1935 to 1946

[**In short tons (2,000 pounds).** Figures are approximate]

ITEM	1935	1940	1942	1944	1945	1946
Supply, total	325,882	683,068	963,270	897,860	778,296	564,842
Stocks at primary refineries, Jan. 1	(1)	(1)	[2] 12,000	36,464	16,788	37,691
Government-owned stocks, Jan. 1 [3]	----------	----------	17,934	173,875	90,454	68,700
Production	324,560	533,179	566,839	464,763	443,585	346,210
Imports	[4] 1,322	149,889	366,497	222,758	227,469	112,241
Withdrawn, total	6,982	49,079	293,430	122,765	108,174	87,156
Stocks at primary refineries, Dec. 31	(1)	(1)	39,255	16,788	37,690	40,963
Government-owned stocks, Dec. 31 [3]	----------	----------	248,361	90,454	68,700	45,493
Exports	6,982	[5] 49,079	[5] 5,814	[5] 15,523	[5] 1,784	[5] 700
Apparent shipments to domestic consumers	318,900	633,989	669,840	775,095	670,122	477,686

[1] Not available.
[2] Estimate based upon American Bureau of Metal Statistics data.
[3] Data from Tin-Lead-Zinc Division of the Civilian Production Administration.
[4] Includes some old, reclaimed, and scrap lead.
[5] Includes reexports of foreign refined lead.

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

No. 843.—Zinc—Production of Ore, by States, Smelter Production, and Primary Slab Zinc Available for Consumption: 1920 to 1945

[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]

ITEM	1920	1925	1930	1935	1940	1943	1944	1945
Mine production (recoverable zinc content of ore)	587,524	710,847	595,425	517,903	665,068	744,196	718,642	614,358
Arizona	729	3,666	815	3,337	15,456	19,677	20,077	40,226
Colorado	24,395	30,811	36,259	1,202	5,060	44,094	39,955	35,773
Idaho	13,966	15,619	37,649	31,053	70,601	86,707	91,372	83,463
Kansas	61,073	118,778	74,304	54,110	57,032	56,944	63,703	48,394
Missouri	24,509	14,794	10,811	7,263	12,703	30,413	36,626	22,175
Montana	92,169	57,658	26,421	54,781	52,587	37,606	36,127	17,403
Nevada	5,349	7,411	14,584	15,536	11,833	13,647	20,699	21,457
New Jersey	78,511	89,261	97,526	85,708	91,406	92,864	80,288	81,392
New Mexico	5,007	9,246	32,765	22,126	30,313	59,524	50,727	40,295
New York	5,654	5,158	22,471	23,720	35,686	46,000	35,541	24,978
Oklahoma	219,727	283,371	136,153	129,763	162,935	114,085	91,449	69,300
Tennessee	19,217	16,256	[1] 48,147	[1] 48,832	[1] 51,723	[1] 60,369	[1] 60,498	[1] 49,899
Utah	4,679	26,306	44,495	31,107	43,788	46,896	38,994	33,630
Washington	213	609	352	1	11,560	12,203	11,904	11,693
Wisconsin	27,285	20,230	12,558	8,923	5,770	14,387	15,549	15,561
Other States	5,641	11,673	15	441	6,615	8,780	16,133	18,719
Smelter production (excluding remelted secondary zinc)	484,748	612,127	532,894	449,284	724,192	990,524	918,339	813,803
Primary zinc	463,377	572,946	498,045	420,634	675,275	942,309	869,302	764,561
From domestic ore	450,045	555,631	489,361	412,184	589,988	594,250	574,453	467,084
From foreign ore	13,332	17,315	8,684	[2] 8,450	[2] 85,287	[2] 348,059	[2] 294,849	[2] 297,477
Secondary, redistilled	21,371	39,181	[3] 34,849	28,650	48,917	48,215	49,037	49,242
Value of primary product from domestic ore ($1,000)	72,907	84,456	46,979	36,272	74,338	[4] 102,211	[4] 98,806	[4] 80,338
Primary slab zinc:								
Supply, total	500,170	593,700	584,230	549,861	775,471	1,072,481	1,099,628	1,094,476
Stock at smelters, Jan. 1	36,793	20,754	85,904	124,783	83,728	82,498	168,777	233,044
Production	463,377	572,946	498,045	420,634	675,275	933,828	867,225	764,316
Imports for consumption	([5])	([5])	281	4,444	[6] 16,468	[6] 56,155	[6] 63,626	[6] 97,116
Deductions:								
Exports	102,178	76,351	4,633	1,617	79,091	97,439	21,576	7,782
Stock at smelters, Dec. 31	71,037	13,080	167,293	90,539	19,212	168,790	233,044	254,765
Apparent deliveries to domestic consumers	326,955	504,269	412,304	457,705	677,168	806,265	845,008	826,627

[1] Includes Virginia.
[2] From Mexico in 1935; from Mexico, Canada, Newfoundland, and Peru in 1940; from Canada, Mexico, and Australia in 1943; from Mexico, Canada, Australia, Newfoundland, and Argentina in 1944; 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 the Government.
[5] Less than one-half of 1 ton. [6] General imports.

No. 844.—Zinc, Primary—Smelter Production From Domestic Ore: 1875 to 1945

[Quantities in short tons (2,000 pounds); values [1] in thousands of dollars]

YEARLY AVERAGE OR YEAR	Quantity	Value	YEARLY AVERAGE OR YEAR	Quantity	Value	YEAR	Quantity	Value
1875	15,833	[2] 2,217	1921–1925	426,261	56,149	1936	491,803	49,180
1880 [3]	23,239	2,277	1926–1930	576,395	73,119	1937	551,165	71,651
1885	40,688	3,540	1931–1935	314,541	25,432	1938	436,007	41,857
1886–1890	54,285	5,219	1936–1940	512,004	57,619	1939	491,058	51,070
1891–1895	82,396	6,787	1930	489,361	46,979	1940	589,988	74,338
1896–1900	109,963	10,180	1931	291,996	22,192	1941	652,599	97,890
1901–1905	169,504	17,067	1932	207,148	12,429	1942	629,957	[4] 109,613
1906–1910	219,378	24,165	1933	306,010	25,705	1943	594,250	[4] 102,211
1911–1915	346,867	52,416	1934	355,366	30,561	1944	574,453	[4] 98,806
1916–1920	508,731	99,812	1935	412,184	36,272	1945	467,084	[4] 80,338

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

Source of tables 843 and 844: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 845.—Gold and Silver—Production in Continental United States, Alaska, Puerto Rico, and Philippine Islands: 1792 to 1946

[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]

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

STATE OR OTHER AREA	GOLD (1,000 FINE OUNCES)					SILVER (1,000 FINE OUNCES)				
	1930	1940	1944	1945	1946	1930	1940	1944	1945	1946
Total	2,286	6,003	1,022	929	1,462	50,748	69,586	35,651	29,063	21,103
Alaska	407	757	51	60	192	392	173	15	9	36
Arizona	149	299	128	78	70	4,910	6,130	4,674	3,411	2,991
California	450	1,444	116	143	350	1,434	2,225	792	950	1,196
Colorado	218	369	111	102	130	4,852	9,378	2,136	2,407	2,041
Idaho	21	145	22	19	30	9,710	17,477	10,645	8,228	6,219
Michigan	------	------	------	------	------	11	90	54	20	------
Missouri	------	------	------	------	------	------	------	104	21	68
Montana	47	273	49	42	62	8,597	12,152	6,669	5,494	2,748
Nevada	140	380	116	91	90	4,179	5,102	1,408	1,156	1,339
New Mexico	32	39	12	13	9	1,160	1,576	545	654	477
Oregon	14	114	1	1	17	10	192	19	12	8
South Dakota	406	587	11	41	308	105	171	5	41	89
Texas	([4])	([4])	([4])	------	([4])	469	1,295	21	21	34
Utah	209	352	354	271	152	14,451	11,686	8,105	6,244	3,531
Washington	4	84	50	53	50	30	389	317	288	249
Philippine Islands	185	1,140	------	13	([5])	121	1,299	------	17	([5])
Other	3	20	3	2	1	317	251	141	90	77

[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. 846.—Gold and Silver for Use in Manufactures and the Arts

Yearly average or year	Gold in thousands of dollars [1]					Silver in thousands of fine ounces				
	Grand total	New material			Old material	Grand total	New material			Old material
		Total	United States coin [2]	Bullion and foreign coin			Total	United States coin	Bullion and foreign coin	
1880	10,105	8,811	3,300	5,511	1,294	2,794	2,590	464	2,126	204
1881–1885	12,568	10,706	3,715	6,991	1,863	4,155	3,840	155	3,685	315
1886–1890	16,041	12,012	3,500	8,512	4,029	5,662	4,986	155	4,831	676
1891–1895	16,508	11,448	3,500	7,948	5,060	7,997	7,046	108	6,938	951
1896–1900	16,965	12,899	3,500	9,399	4,067	10,214	9,014	77	8,937	1,200
1901–1905	28,496	21,718	3,500	18,218	6,778	19,526	16,524	77	16,447	3,002
1906–1910	38,149	30,441	3,500	26,941	7,708	24,553	20,884	77	20,807	3,669
1911–1915	40,588	30,621	2,500	28,121	9,967	30,444	23,516	77	23,438	6,928
1916–1920	61,864	39,831	1,000	38,831	22,033	31,214	22,089	77	22,011	9,126
1921–1925	59,596	30,321	1,000	29,321	29,275	36,805	28,616	77	28,538	8,189
1926–1930	55,197	24,747	1,000	23,747	30,450	38,461	28,137	77	28,059	10,325
1931–1935	21,288	[3] 20,101	420	[3] 20,521	41,389	33,631	13,278	77	13,200	20,353
1936–1940	36,543	4,150	-------	4,150	32,393	52,481	31,232	77	31,155	21,249
1939	38,789	7,461	-------	7,461	31,328	69,585	44,613	77	44,536	24,972
1940	41,178	13,306	-------	13,306	27,872	67,063	44,499	77	44,422	22,564
1941	67,977	37,002	-------	37,002	30,975	92,794	72,509	77	72,432	20,285
1942	75,742	47,295	-------	47,295	28,448	131,419	101,399	77	101,321	30,021
1943	96,864	86,343	-------	86,343	10,521	162,113	118,000	77	117,923	44,113
1944	122,977	97,298	-------	97,298	25,679	176,289	120,100	77	120,023	56,189
1945	139,936	108,944	-------	108,944	30,992	184,661	126,300	309	125,991	58,361
1946	199,687	153,687	-------	153,687	46,000	123,647	87,000	89	86,911	36,647

[1] Value prior to 1934 calculated on basis of $20.67+ per fine ounce; in 1934 and thereafter, $35.00 per fine ounce.
[2] U. S. gold coin not a factor after passage of Gold Reserve Act of Jan. 30, 1934.
[3] Excess of return from industry over new material issued to industry.

No. 847.—Silver—Prices, London and New York, and Value in the Dollar: 1835 to 1946

[London price converted to basis of ounce 1,000 fine and converted to American money at par of exchange through 1930; from 1931 through 1944, at current rate of exchange. London quotations in depreciated currency after Sept. 21, 1931, also for some prior years, including 1918 to 1924. New York quotations in depreciated currency after early March 1933. Commercial ratio computed on basis of London quotations through 1914; thereafter, on basis of New York average price. Beginning 1945, London and New York prices converted to basis of ounce 0.999 fine at current rate of exchange. Beginning 1934, monetary value of gold is $35.00 per fine ounce, as against $20.67+ in previous years. Value of fine silver (371¼ grains) in dollar computed on basis of London quotations through 1917; thereafter, on basis of New York average price]

[All figures, except "Commerical ratio to gold," expressed in dollars]

Calendar year	London, per fine ounce	New York, per fine ounce			Commercial ratio to gold	Value of silver in dollar	Calendar year	London, per fine ounce	New York, per fine ounce			Commercial ratio to gold	Value of silver in dollar
		Average	High	Low					Average	High	Low		
1835	1.308	------	------	------	15.80	------	1919	1.250	1.121	1.383	1.014	18.44	0.867
1840	1.323	------	------	------	15.62	1.023	1920	1.346	1.019	1.379	.604	20.28	.788
1845	1.298	------	------	------	15.92	1.004	1921	.805	.631	.738	.532	32.76	.488
1850	1.316	------	------	------	15.70	1.018	1922	.754	.679	.742	.629	30.43	.525
1855	1.344	------	------	------	15.38	1.039	1923	.700	.652	.690	.629	31.69	.505
1860	1.352	------	------	------	15.29	1.045	1924	.745	.671	.724	.630	30.80	.519
1865	1.338	------	------	------	15.44	1.035	1925	.703	.694	.732	.668	29.78	.537
1870	1.328	------	------	------	15.57	1.027	1926	.629	.624	.689	.518	33.11	.483
1875	1.242	1.239	1.261	1.210	16.64	.961	1927	.571	.567	.603	.542	36.47	.438
1880	1.145	1.139	1.150	1.113	18.05	.886	1928	.586	.585	.639	.568	35.34	.452
1885	1.065	1.064	1.095	1.028	19.41	.824	1929	.536	.533	.578	.468	38.78	.412
1890	1.046	1.053	1.205	.958	19.75	.809	1930	.387	.385	.472	.311	53.74	.298
1895	.654	.663	.690	.600	31.60	.506	1931	.292	.290	.376	.261	71.25	.224
1900	.620	.621	.658	.598	33.33	.480	1932	.281	.282	.313	.246	73.29	.218
1905	.610	.610	.665	.556	33.87	.472	1933	.346	.350	.453	.248	59.06	.271
1906	.677	.674	.724	.631	30.54	.524	1934	.481	.483	.561	.421	72.49	.373
1907	.662	.660	.710	.528	31.24	.512	1935	.639	.646	.813	.501	54.19	.500
1908	.535	.535	.589	.483	38.64	.414	1936	.449	.454	.501	.451	77.09	.351
1909	.520	.522	.545	.508	39.74	.402	1937	.447	.452	.471	.451	77.44	.350
1910	.541	.542	.576	.508	38.22	.418	1938	.430	.435	.451	.431	80.39	.337
1911	.539	.540	.575	.521	38.33	.417	1939	.408	.394	.431	.351	88.84	.305
1912	.615	.620	.656	.553	33.62	.475	1940	.384	.351	.359	.351	99.76	.271
1913	.605	.612	.651	.580	34.19	.468	1941	.425	.351	.354	.351	99.73	.271
1914	.553	.563	.609	.490	37.37	.428	1942	.427	.386	.451	.354	90.57	.299
1915	.519	.511	.580	.478	40.48	.401	1943	.427	.451	.451	.451	77.67	.349
1916	.686	.672	.791	.573	30.78	.531	1944	.427	.451	.451	.451	77.67	.349
1917	.895	.840	1.165	.731	24.61	.692	1945	.513	.522	.711	.451	67.00	.404
1918	1.042	.984	1.019	.889	21.00	.761	1946	.818	.857	.904	.601	40.83	.663

Source of tables 846 and 847: Treasury Dept., Bureau of the Mint; Annual Report of the Director.

No. 848.—Coke—Production, Exports, and Imports: 1896 to 1946

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	103,730	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
1931	33,484	1,128	32,356	96.6	161,609	754	100
1932	21,789	652	21,137	97.0	104,337	630	117
1933	27,589	911	26,678	96.7	122,951	638	161
1934	31,822	1,029	30,793	96.8	159,426	943	161
1935	35,141	917	34,224	97.4	176,853	614	317
1936	46,275	1,706	44,569	96.3	232,374	670	330
1937	52,375	3,165	49,211	94.0	261,004	527	286
1938	32,496	837	31,658	97.4	167,182	487	135
1939	44,327	1,444	42,882	96.7	212,884	590	142
1940	57,072	3,058	54,014	94.6	273,832	804	113
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

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

No. 849.—Coke—Oven and Beehive Production, by States: 1915 to 1946

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

State	1915	1920	1925	1930	1935	1940	1943	1944	1945	1946
Oven										
Total	14,073	30,834	39,912	45,196	34,224	54,014	63,743	67,065	62,094	53,929
Alabama	2,070	3,124	4,582	3,987	1,994	4,727	5,316	5,728	5,401	4,666
Colorado	-------	517	490	379	207	544	673	651	639	559
Illinois	1,687	2,137	3,012	3,576	1,669	3,015	3,625	3,879	3,682	3,192
Indiana	2,768	4,554	5,142	4,984	3,768	6,413	8,112	8,821	7,814	6,652
Maryland	313	682	1,019	1,169	930	1,683	2,060	2,058	2,025	1,662
Massachusetts	504	488	535	863	1,006	1,130	1,174	1,178	1,150	1,046
Michigan	(1)	1,393	1,751	2,604	2,482	2,872	2,948	3,005	2,806	2,500
Minnesota	128	675	518	641	430	524	956	894	826	861
New Jersey	269	726	904	919	917	1,016	1,014	1,023	1,284	1,259
New York	684	1,040	2,220	3,850	4,099	5,080	5,347	6,103	5,790	5,043
Ohio	666	5,615	7,105	6,163	5,101	7,898	10,271	10,339	9,406	8,452
Pennsylvania	3,092	7,730	9,853	12,529	8,078	14,862	16,519	16,977	15,255	12,795
West Virginia	141	447	1,056	1,479	1,604	1,900	2,612	2,638	2,463	2,163
All other States	1,749	1,706	1,725	2,051	1,939	2,350	3,114	3,773	3,556	3,082
Beehive										
Total	27,508	20,511	11,355	2,776	917	3,058	7,933	6,973	5,214	4,568
Pennsylvania	22,531	15,908	9,574	2,011	564	2,550	6,934	6,171	4,584	4,027
Ohio	19	87	156	-------	-------	-------	-------	-------	-------	-------
West Virginia	1,250	1,381	490	422	155	233	424	379	288	221
Alabama	1,001	890	88	-------	-------	-------	35	-------	-------	-------
Kentucky	285	273	(1)	-------	-------	(1)	29	68	74	85
Tennessee	234	163	128	25	3	5	49	9	-------	-------
Virginia	630	1,028	422	220	138	198	293	243	191	171
Colorado	671	273	155	79	49	62	85	82	73	59
Utah	(1)	(1)	146	7	6	7	84	21	4	5
All other States	887	509	196	12	2	1	-------	-------	-------	-------

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

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

No. 850.—Coal—Production, 1821 to 1946, and by States, 1926 to 1946

[**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]

Year or yearly average	Quantity			Year	Quantity			Value	
	Total	Anthracite	Bituminous		Total	Anthracite	Bituminous	Anthracite	Bituminous [1]
1821–1830	140	66	75	1923	657,904	93,339	564,565	506,787	1,514,621
1831–1840	1,032	722	310	1924	571,613	87,927	483,687	477,231	1,062,626
1841–1850	4,535	2,697	1,837	1925	581,870	61,817	520,053	327,665	1,060,402
1851–1860	12,513	7,645	4,868	1926	657,804	84,437	573,367	474,164	1,183,412
1861–1865	20,538	11,142	9,396	1927	597,859	80,096	517,763	420,942	1,029,657
1866–1870	31,706	16,281	15,425	1928	576,093	75,348	500,745	393,638	933,774
1871–1875	52,179	23,407	28,773	1929	608,817	73,828	534,989	385,643	952,781
1876–1880	62,261	25,800	36,461	1930	536,911	69,385	467,526	354,574	795,483
1881–1885	107,291	36,198	71,093	1931	441,735	59,646	382,089	296,355	588,895
1886–1890	*138,398*	*43,952*	*94,446*	*1932*	*359,565*	*49,855*	*309,710*	*222,375*	*406,677*
1891–1895	178,822	53,405	125,416	1933	383,172	49,541	333,631	206,718	445,788
1896–1900	227,123	55,625	171,498	1934	416,536	57,168	359,368	244,152	628,383
1901–1905	339,357	66,854	272,503	1935	424,532	52,159	372,373	210,131	658,063
1906–1910	454,555	81,142	373,413	1936	493,668	54,580	439,088	227,004	770,955
1911–1915	529,189	89,233	439,956	1937	497,387	51,856	445,531	197,599	864,042
1916–1920	626,386	92,741	533,645	1938	394,644	46,099	348,545	180,600	678,653
1921–1925	558,947	77,648	481,299	1939	446,342	51,487	394,855	187,175	728,348
1926–1930	595,497	76,619	518,878	1940	512,257	51,485	460,772	205,490	879,327
1931–1935	405,108	53,674	351,434	1941	570,517	56,368	514,149	240,275	1,125,363
1936–1940	468,860	51,101	417,758	1942	643,021	60,328	582,693	271,673	1,373,991
1919	553,952	88,092	465,860	1943	650,821	60,644	590,177	306,816	1,584,644
1920	658,265	89,598	568,667	1944	683,277	63,701	619,576	354,583	1,810,901
1921	506,395	90,473	415,922	1945	632,551	54,934	577,617	323,944	1,768,204
1922	*476,951*	*54,683*	*422,268*	1946	592,507	60,507	[2]532,000	413,417	[2]1,806,153

State	1926–1930	1931–1935	1936–1940	1941–1945	1942	1943	1944	1945	1946
Total quantity	**595,497**	**405,108**	**468,860**	**636,037**	**643,021**	**650,821**	**683,277**	**632,551**	**592,507**
Anthracite (Pa.)	76,619	53,674	51,101	59,195	60,328	60,644	63,701	54,934	60,507
Bituminous	518,878	351,434	417,758	576,842	582,693	590,177	619,576	577,617	[2] 532,000
Alabama	18,380	9,252	12,620	17,783	19,301	17,160	18,752	18,236	15,780
Arkansas	1,579	1,012	1,387	1,821	1,985	1,718	1,972	1,854	1,540
Colorado	9,665	5,711	6,435	7,830	8,086	8,324	8,168	7,621	5,915
Illinois	57,310	40,198	48,367	68,442	65,071	72,631	76,792	73,011	62,554
Indiana	18,467	14,386	17,232	25,216	25,388	25,065	27,962	25,183	21,818
Iowa	*3,879*	*3,492*	*3,376*	*2,569*	*2,948*	*2,771*	*2,141*	*2,046*	*1,554*
Kansas	3,215	2,270	2,949	3,654	4,230	3,437	3,369	3,228	[3] 5,890
Kentucky	61,116	38,130	44,970	64,020	62,231	63,211	71,356	69,593	66,756
Maryland	2,700	1,654	1,496	1,854	2,001	1,933	1,870	1,763	2,010
Michigan	705	492	510	195	231	169	140	126	108
Missouri	3,538	3,624	3,577	3,947	3,520	4,310	4,779	3,983	(4)
Montana	3,139	2,396	2,871	4,245	3,829	4,833	4,844	4,467	3,800
New Mexico	2,612	1,338	1,378	1,600	1,669	1,851	1,744	1,484	1,250
North Dakota	1,622	1,750	2,161	2,447	2,537	2,500	2,366	2,522	[5] 2,714
Ohio	21,111	19,151	22,188	32,190	32,764	32,255	33,877	32,737	32,848
Oklahoma	3,346	1,368	1,444	2,623	2,387	2,838	3,209	2,909	2,510
Pennsylvania	137,038	86,592	101,556	138,876	144,073	141,050	146,052	132,965	125,155
Tennessee	5,544	4,062	5,197	7,184	8,158	7,179	7,266	6,271	6,150
Texas	1,107	738	816	200	304	153	109	80	80
Utah	4,683	2,846	3,373	6,012	5,517	6,666	7,119	6,679	5,990
Virginia	12,521	8,923	13,324	19,121	20,136	20,280	19,514	17,235	16,300
Washington	2,513	1,555	1,744	1,641	1,953	1,528	1,524	1,357	990
West Virginia	136,315	95,748	112,932	154,335	155,882	158,804	164,704	152,035	142,060
Wyoming	6,526	4,545	5,617	8,664	8,133	9,155	9,540	9,847	7,805
Other States and Alaska	246	201	238	374	359	356	407	385	423

[1] Excludes selling expenses through 1936 and for 1939. Data for other years include selling expenses.
[2] Preliminary estimate
[3] Includes Missouri.
[4] Included with Kansas.
[5] Includes South Dakota.

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

No. 851.—Coal—Exports, Imports, and Bunker Coal Laden on Vessels in Foreign Trade: 1891 to 1946

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

Yearly average or year	Total exports [1]		Anthracite exports		Bituminous exports [1]		Total imports [2]		Bunker coal	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1891–1895 [3]	3,028	10,012	1,128	4,929	1,900	5,081	1,237	3,984	-------	-------
1896–1900 [3]	4,710	13,300	1,469	6,268	3,241	7,032	1,403	3,831	-------	-------
1901–1905 [3]	7,750	24,254	1,846	8,782	5,903	15,472	2,287	6,376	-------	-------
1906–1910 [4]	12,018	36,805	2,646	13,034	9,372	23,770	1,727	4,530	[5] 5,638	[5] 18,291
1911–1915	19,132	58,362	3,753	19,624	15,379	38,738	1,437	4,069	7,289	23,890
1916–1920	27,160	151,356	4,647	32,960	22,513	118,396	1,258	5,788	7,389	43,975
1921–1925	19,852	124,958	3,502	38,476	16,350	86,482	1,833	11,364	4,908	31,588
1926–1930	21,322	115,057	2,973	32,750	18,349	82,308	865	5,717	4,353	23,126
1931–1935	10,288	47,942	1,254	12,487	9,034	35,455	672	4,295	1,385	6,709
1936–1940	13,055	62,696	1,921	16,867	11,133	45,828	[6] 590	[6] 3,327	1,376	7,370
1939	12,661	62,698	2,313	19,920	10,349	42,778	[6] 583	[6] 3,376	1,318	7,131
1940	17,084	82,043	2,382	21,210	14,702	60,832	[6] 453	[6] 2,477	1,273	6,859
1941	21,536	113,704	3,018	27,691	18,518	86,013	[6] 415	[6] 2,150	1,467	8,900
1942	24,448	144,453	3,963	38,287	20,485	106,165	[6] 570	[6] 3,066	1,415	9,411
1943	26,763	163,023	3,695	37,842	23,068	125,182	[6] 825	[6] 4,464	1,470	10,496
1944	26,981	172,910	3,737	40,580	23,243	132,330	[6] 576	[6] 3,071	1,392	9,940
1945	28,257	184,389	3,296	36,435	24,961	147,954	[6] 418	[6] 2,295	1,594	11,911
1946	42,594	301,931	5,801	63,844	36,793	238,087	[6] 444	[6] 2,308	1,233	9,894

[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.

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce through April 1941; Bureau of Census thereafter. Annual report, Foreign Commerce and Navigation of the U. S.

No. 852.—Coal—Shipments, Value, and Employment in Mines: 1890 to 1946

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
1943	54,036	4,234	2,374	-------	5.06	79,153	270	2.78	751	2.7	67
1944	57,641	3,766	2,295	-------	5.57	77,591	292	2.79	815	2.1	66
1945	48,542	4,274	2,118	-------	5.90	72,842	269	2.79	751	2.2	62
1946	54,109	4,436	1,963	-------	6.83	78,145	271	2.84	770	2.0	67
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
1943	526,052	53,238	2,702	8,185	2.69	416,007	264	5.38	1,419	78.1	689
1944	558,654	50,682	2,713	7,527	2.92	393,347	278	5.67	1,575	75.8	686
1945	518,020	51,248	2,442	5,907	3.06	383,100	261	5.78	1,508	73.5	682

[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.

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

No. 853.—Consumption of Bituminous Coal and Lignite, by Consumer Class, With Retail Deliveries: 1937 to 1946

[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 [5]
1937	432,603	3,052	42,871	1,832	88,080	4,927	69,575	12,853	1,680	5,247	122,410	80,076
1938	338,086	2,493	38,245	1,352	73,921	1,360	45,266	8,412	1,644	4,483	92,390	68,520
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 [7]	500,352	2,250	68,739	1,381	110,166	6,821	76,178	8,603	(6)	6,969	118,659	100,586

[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 1945 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 129,315,950 tons of bituminous coal and lignite. Similar data from the I. C. C. not yet available for 1946.
[4] Includes small amount of anthracite.
[5] Estimates based upon reports collected by Solid Fuels Administration from a selected list of representative manufacturing plants and retail dealers. Truck shipments from mines included "Other industrials."
[6] Included in "Other industrials." [7] Preliminary.

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

No. 854.—Work Stoppages [1] in Anthracite and Bituminous Coal Mining Industries, by Major Issues Involved: 1935 to 1946

[Excludes strikes and lockouts involving fewer than 6 workers or lasting less than 1 day. Figures are for strikes beginning in years shown. For combined statistics covering strikes and lockouts in all industries, see table 243, p. 224]

Coal-mining industry and year	Number of strikes and lock-outs: Total	Major issues: Wages and hours	Major issues: Union organization (2)	Major issues: Miscellaneous	Number of workers involved: 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:												
1935	33	7	1	25	50,191	9,517	1,100	39,574	788,724	75,604	41,800	671,320
1936	26	5	6	15	23,073	3,596	13,005	6,472	264,545	43,043	153,083	68,419
1937	32	13	1	18	59,600	24,902	480	34,218	606,656	144,548	15,360	446,748
1938	*17*	*4*	*3*	*10*	*26,416*	*2,316*	*5,325*	*18,775*	*357,854*	*35,191*	*181,577*	*141,086*
1939	25	3	5	17	22,664	2,813	1,057	18,794	77,909	3,773	15,271	58,865
1940	25	1	3	21	17,355	62	2,308	14,985	105,399	496	30,470	74,433
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
Bituminous:												
1935	42	10	12	20	420,574	403,790	3,174	13,610	2,971,449	2,860,358	24,178	86,913
1936	38	5	9	24	19,648	1,378	2,934	15,336	533,314	356,058	43,431	133,825
1937	54	11	21	22	99,253	45,913	27,878	25,462	1,924,951	1,048,642	400,759	475,550
1938	27	6	10	11	9,505	2,196	2,324	4,985	132,855	8,422	24,151	100,282
1939	25	2	11	12	355,383	1,102	346,524	7,757	7,302,556	22,243	7,191,984	88,329
1940	34	4	10	20	24,372	272	3,451	20,649	153,296	15,954	16,214	121,128
1941	75	19	13	43	593,352	383,829	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	792	208	52	532	229,907	50,918	46,207	132,782	1,056,341	207,859	266,646	581,836
1945 [3]	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

[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] Totals include 6 stoppages, involving 500 workers and 2,000 man-days, in which issues were not reported.

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.—Coal—Average Retail Prices and Indexes for Large Cities Combined: 1929 to 1947

[Unweighted average for bituminous; weighted average for anthracite. Prices not directly comparable because of change in number of dealers reporting, number of quotations received, or number of cities from which prices are collected over period covered]

Year and month	Average price per ton of 2,000 pounds			Index (October 1922–September 1925=100)		
	Bituminous	Pennsylvania anthracite		Bituminous	Pennsylvania anthracite	
		Stove	Chestnut		Stove	Chestnut
1929	$8.85	$14.14	$13.70	91.5	100.5	97.7
1932	7.71	12.55	12.45	79.7	89.2	88.7
1935	8.29	11.38	11.14	85.7	80.9	79.4
1938	8.61	10.96	11.11	88.7	77.9	79.1
1941	9.10	11.92	11.97	92.6	84.7	85.2
1943	9.94	13.15	13.20	100.9	93.4	93.9
1944	10.27	13.89	13.94	104.3	98.7	99.2
1945	10.49	14.36	14.43	106.5	102.1	102.7
1946	10.95	15.96	15.97	112.5	113.4	113.8
1947	12.99	17.23	17.11	131.0	123.0	123.7
1946: September	11.10	16.79	16.81	116.2	119.5	119.8
December	11.22	16.76	16.63	117.6	119.2	119.6
1947: March	11.99	16.99	16.83	122.3	121.1	121.6
June	12.10	16.28	16.17	123.6	116.0	116.8
September	14.04	17.80	17.71	139.4	127.5	128.3
December (preliminary)	14.50	18.14	18.02	144.3	129.9	130.5

Source: Department of Labor, Bureau of Labor Statistics; data through 1941 from Bulletin No. 707. Later data published currently in monthly releases and in Monthly Labor Review.

No. 856.—Natural Gas and Natural Gasoline—Production, 1906 to 1946, and by States, 1930 to 1946

[**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. Consumption figures by States differ greatly from production figures by reason of interstate transportation]

Yearly average	Natural gas produced and marketed		Natural gasoline			Year	Natural gas produced and marketed		Natural gasoline		
	Quantity	Value	Gas treated	Production	Value		Quantity	Value	Gas treated	Production	Value
1906–1910	437,057	57,940	------	------	------	1940	2,660,222	577,939	2,471,400	2,339,400	68,261
1911–1915	575,708	88,492	11,602	30,317	2,481	1941	2,812,658	621,333	2,763,300	2,688,714	105,815
1916–1920	762,681	154,590	412,787	268,038	48,174	1942	3,053,475	692,737	2,864,400	2,725,968	102,565
1921–1925	947,419	229,002	820,445	762,151	82,205	1943	3,414,689	760,950	3,028,000	2,773,218	122,500
1926–1930	1,637,540	362,238	1,613,811	1,852,490	136,123	1944	3,711,039	797,255	3,300,000	3,031,308	148,200
1931–1935	1,697,043	394,148	1,687,902	1,592,613	59,761	1945	3,918,686	837,852	3,653,870	3,290,949	145,570
1936–1940	2,401,592	523,609	2,116,152	2,105,410	85,455	1946 [1]	4,095,000	885,032	3,739,000	3,435,535	142,900

State	Natural gas produced and marketed					Natural gas consumed, 1945	Natural gasoline produced		
	1930	1935	1940	1944	1945		1944	1945	1946 [1]
Total	[2] **1,943,421**	[2] **1,916,595**	[2] **2,660,222**	[2] **3,711,039**	[2] **3,918,686**	[2] **3,900,479**	**3,031,308**	**3,290,949**	**3,435,535**
Arkansas	18,585	6,167	14,379	46,453	46,600	91,198	43,701	53,832	50,198
California	334,789	284,109	351,950	502,017	502,442	502,442	632,768	731,422	732,079
Illinois	2,890	1,448	8,359	18,137	16,663	121,366	61,351	55,023	53,612
Kansas	37,630	57,125	90,003	157,733	145,959	160,406	54,045	58,309	66,289
Kentucky	28,023	39,738	53,056	94,223	81,714	26,802	10,997	9,395	9,227
Louisiana	278,341	249,450	343,191	534,688	542,789	325,888	409,824	428,404	449,057
Michigan	2,075	4,203	12,648	19,653	21,874	59,594	4,055	5,310	4,690
Montana	10,060	19,870	26,231	32,102	31,829	29,575	2,886	2,876	2,634
New Mexico	9,497	27,931	[3] 63,990	[3] 87,727	[3] 105,023	71,459	69,528	86,043	87,693
New York	[4] 9,624	[4] 8,288	[4] 12,187	[4] 7,052	[4] 9,210	29,577	12	8	8
Ohio	63,394	49,592	40,639	51,724	49,967	172,258	7,282	6,452	6,344
Oklahoma	348,116	274,313	257,626	310,888	357,530	249,927	301,246	284,334	285,021
Pennsylvania	88,706	[5] 94,464	[5] 90,725	[5] 92,987	[5] 82,188	149,092	17,023	13,588	10,726
Texas	[6] 517,880	[6] 642,366	[6] 1,063,538	[6] 1,525,515	[6] 1,711,401	1,348,140	1,324,877	1,467,138	1,581,451
West Virginia	144,180	115,772	188,751	181,452	160,225	88,757	57,298	53,242	60,815
Wyoming	43,219	26,643	27,346	34,521	35,282	21,642	[7] 34,415	[7] 35,573	[7] 35,691

[1] Preliminary. [2] Includes States not shown separately.
[3] Includes 685,000,000 cubic feet piped to Mexico in 1940, 1,474,000,000 in 1944, and 3,281,000,000 in 1945.
[4] 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 1944, and 31,000,000 in 1945.
[5] Includes 44,000,000 cubic feet piped to Canada in 1935, 36,000,000 in 1940, 112,000,000 in 1944, and 160,000,000 in 1945.
[6] Includes 1,691,000,000 cubic feet piped to Mexico in 1930, 6,727,000,000 in 1935, 4,788,000,000 in 1940, 12,959,000,000 in 1944, and 14,735,000,000 in 1945. [7] Includes Utah and Colorado.

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

No. 857.—Gas Utility Industry—Customers and Revenues, by Class of Service: 1932 to 1946

[Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately owned gas utilities and municipally owned gas departments in the United States, except those with annual revenues less than $25,000, which in the aggregate account for only a negligible portion of the industry]

YEAR	CUSTOMERS (1,000)[1]				REVENUES ($1,000)			
	Total	Residential	Commercial [2]	Other	Total	Residential	Commercial [2]	Other
1932	15,536	14,785	742	9	723,272	553,091	167,128	3,053
1933	15,199	14,432	757	10	679,914	510,040	166,865	3,009
1934	15,511	14,644	854	13	702,614	504,742	194,497	3,375
1935	15,874	14,985	877	12	727,092	512,603	210,994	3,495
1936	16,185	15,235	938	12	770,242	522,110	244,481	3,651
1937	16,620	15,647	961	12	801,197	531,938	265,117	4,142
1938	16,907	15,917	978	12	777,074	532,045	241,059	3,970
1939	17,147	16,142	993	12	814,009	546,866	263,293	3,850
1940	17,622	16,590	1,020	12	871,740	584,417	283,170	4,153
1941	18,149	17,097	1,040	12	914,034	587,650	320,919	5,465
1942	18,759	17,688	1,056	15	994,316	633,445	353,987	6,884
1943	19,088	18,024	1,052	12	1,064,040	661,587	394,492	7,961
1944	19,585	18,483	1,089	13	1,108,157	689,683	410,453	8,021
1945	19,977	18,690	1,275	12	1,150,622	711,767	422,948	15,907
1946	20,637	19,246	1,376	15	1,211,262	761,274	438,098	11,890

[1] Figures are yearly averages.
[2] Industrial customers are included with commercial; not available separately before 1945.

Source: American Gas Association, New York, N. Y. Yearbook, Gas Facts.

No. 858.—Manufactured Gas—Solid Fuels and Oil Used by Utilities, by Type of Use: 1932 to 1946

[Solid fuels in thousands of tons; oil in millions of gallons. See headnote, table 857]

FUEL AND TYPE OF USE	1932	1935	1940	1942	1944	1945	1946
ANTHRACITE COAL							
Total	115	126	214	300	291	292	347
Water gas generator fuel	33	44	86	93	115	94	113
Boiler fuel	82	82	128	191	162	160	188
Other	-------	-------	-------	[1] 16	[1] 14	[2] 38	[2] 46
BITUMINOUS COAL							
Total	8,103	7,849	6,882	7,730	7,860	8,069	7,631
Water gas generator fuel	477	480	304	413	408	432	435
Boiler fuel	428	382	340	398	446	462	473
Oven and retort charge	7,191	6,972	6,220	6,902	7,000	7,167	6,720
Bench and producer fuel	7	15	18	17	6	8	3
COKE							
Total	2,915	2,589	2,599	2,803	3,129	3,538	3,754
Water gas generator fuel	1,595	1,284	1,552	1,650	1,942	2,213	2,430
Boiler fuel	539	512	384	453	484	585	590
Bench and producer fuel	781	793	663	700	703	740	[3] 734
OIL							
Total	603	510	677	752	837	927	1,041
Water gas enricher	536	465	592	654	731	800	911
Boiler fuel	9	11	27	24	23	[4] 24	38
Oil gas production	58	34	58	74	83	103	92

[1] Bench and producer fuel.
[2] Oven and retort charge.
[3] Includes 9,000 tons used as oven and retort charge.
[4] Includes 500,000 gallons used as bench and producer fuel.

Source: American Gas Association, New York, N. Y.; yearbook, Gas Facts.

No. 859.—Gas Utility Industry—Customers and Revenues, by Type of Gas, Class of Service, and State: 1946

[See headnote, table 857]

Type of gas, division, and state	Customers (1,000) [1]					Revenues ($1,000)				
	Total	Residential	Commercial	Industrial	Other	Total	Residential	Commercial	Industrial	Other
U. S., all types	20,636.3	19,245.7	1,288.7	87.1	14.8	1,211,262	761,274	153,781	284,317	11,890
Manufactured gas	8,729.5	8,171.4	513.1	37.9	7.1	381,748	286,774	55,837	36,148	2,988
Natural gas	9,365.5	8,682.0	642.5	35.1	5.9	712,804	386,606	82,858	235,201	8,139
Mixed gas	2,418.1	2,281.3	121.7	13.7	1.4	110,625	83,636	13,529	12,836	625
Liquefied petroleum gas	123.2	111.0	11.4	.4	.4	6,086	4,258	1,557	133	139
New England	1,553.1	1,477.1	68.7	6.5	.8	69,466	53,735	8,896	6,463	372
Connecticut	350.7	332.9	16.0	1.7	.1	17,330	12,888	2,276	2,055	112
Maine	41.4	38.6	2.7	.1	(2)	1,969	1,425	403	132	10
Massachusetts	949.0	901.8	42.6	4.0	.6	40,964	32,225	4,994	3,555	191
New Hampshire	37.7	35.3	2.3	.1	(2)	1,688	1,270	345	67	6
Rhode Island	153.5	148.8	4.1	.5	.1	6,654	5,270	731	602	51
Vermont	20.8	19.7	1.0	.1	(2)	861	658	148	53	3
Middle Atlantic	6,177.0	5,746.8	397.9	28.0	4.3	300,336	205,748	38,811	54,025	1,752
New Jersey	1,082.7	1,013.2	63.7	5.6	.2	48,430	36,915	7,121	4,184	210
New York	3,375.8	3,129.8	228.6	14.4	3.0	142,956	103,842	21,387	16,737	990
Pennsylvania	1,718.5	1,603.8	105.6	8.0	1.1	108,950	64,991	10,304	33,104	552
E. N. Central	4,914.9	4,623.3	268.3	21.0	2.3	273,525	176,702	29,938	65,899	986
Illinois	1,556.2	1,468.3	78.0	9.8	.1	75,941	48,817	8,584	18,434	107
Indiana	497.0	472.2	22.4	1.5	.9	30,634	17,732	2,844	9,824	234
Michigan	949.7	901.5	44.4	3.8	(2)	51,541	36,332	5,054	10,060	95
Ohio	1,496.6	1,386.3	104.9	4.1	1.3	98,788	60,815	11,604	25,822	547
Wisconsin	415.4	395.0	18.6	1.8	(2)	16,621	13,006	1,853	1,760	2
W. N. Central	1,574.9	1,471.7	95.6	7.2	.4	117,304	69,294	13,467	32,732	1,811
Iowa	262.6	244.8	16.9	.7	.2	15,049	9,601	1,959	3,442	47
Kansas	289.1	262.0	25.0	2.0	.1	31,022	14,764	3,896	11,443	919
Minnesota	307.3	291.2	14.8	1.3	(2)	19,330	12,584	1,954	4,789	3
Missouri	507.7	481.1	24.1	2.5	(2)	34,160	22,265	2,996	8,814	84
Nebraska	153.1	142.7	9.8	.6	(2)	12,972	7,277	1,525	3,613	556
North Dakota	23.2	21.2	1.9	(2)	.1	1,648	1,155	390	52	51
South Dakota	31.9	28.7	3.1	.1	(2)	3,123	1,648	747	579	151
South Atlantic	1,387.4	1,288.1	92.4	3.3	3.6	88,408	56,077	12,118	18,399	1,814
Delaware	45.3	42.9	2.3	.1	(2)	2,086	1,667	292	122	5
Dist. of Columbia	167.2	154.8	10.8	.4	1.2	10,370	7,998	1,384	629	360
Florida	150.2	139.0	9.7	.2	1.3	9,720	6,118	2,141	894	567
Georgia	157.5	144.6	11.7	1.0	.2	14,889	8,008	1,721	4,908	251
Maryland	333.4	311.6	21.1	.6	.1	16,017	11,504	2,058	2,153	303
North Carolina	63.5	57.3	5.9	.3	(2)	3,663	2,568	925	163	7
South Carolina	36.1	32.8	3.2	(2)	.1	2,092	1,515	497	67	13
Virginia	193.7	185.3	7.6	.3	.5	9,830	7,802	1,313	551	164
West Virginia	240.5	219.8	20.1	.4	.2	19,742	8,898	1,788	8,912	145
E. S. Central	545.8	490.5	52.0	2.5	.8	44,831	22,295	6,493	15,465	578
Alabama	121.0	112.1	8.7	.2	(2)	13,249	4,916	1,303	7,030	(3)
Kentucky	222.5	202.1	19.5	.4	.5	12,719	8,022	1,679	2,627	391
Mississippi	86.4	74.7	10.6	.9	.2	9,022	3,998	1,426	3,436	163
Tennessee	115.9	101.6	13.2	1.0	.1	9,840	5,359	2,085	2,373	24
W. S. Central	1,703.0	1,521.5	169.2	9.8	2.5	135,805	61,120	17,521	53,527	3,638
Arkansas	120.6	103.7	15.8	1.1	(2)	11,068	4,995	1,841	3,853	379
Louisiana	278.8	251.6	25.3	1.1	.8	24,836	8,764	2,165	13,012	895
Oklahoma	341.2	303.3	35.5	1.8	.6	24,783	12,688	4,092	7,716	287
Texas	962.4	862.9	92.6	5.8	1.1	75,118	34,673	9,422	28,946	2,078
Mountain	388.3	346.2	39.7	2.4	(2)	41,479	20,526	6,526	13,640	787
Arizona	62.6	55.8	6.2	.6	(2)	7,981	2,626	922	4,326	108
Colorado	133.4	119.4	13.8	.2	(2)	11,006	5,914	1,694	3,140	258
Idaho	.6	.5	.1	(2)	(2)	35	17	18	-------	-------
Montana	59.5	53.0	6.2	.3	(2)	7,469	4,157	1,571	1,472	269
Nevada	3.5	3.1	.4	(2)	(2)	256	161	64	32	-------
New Mexico	47.2	42.0	4.9	.3	(2)	5,706	2,483	1,077	2,068	79
Utah	49.6	44.6	4.2	.8	(2)	5,233	3,072	380	1,782	-------
Wyoming	31.9	27.8	3.9	.2	(2)	3,794	2,097	802	822	74
Pacific	2,391.9	2,280.5	104.9	6.4	.1	140,108	95,778	20,010	24,167	153
California	2,210.2	2,116.0	88.5	5.7	(2)	127,979	87,081	17,092	23,674	132
Oregon	99.8	91.5	7.7	.5	.1	6,778	5,192	1,312	257	17
Washington	81.9	73.0	8.7	.2	(2)	5,351	3,505	1,606	236	4

[1] Figures are yearly averages. [2] Less than 50 customers. [3] Less than $500.

Source: American Gas Association, New York, N. Y.; yearbook, Gas Facts.

No. 860.—Gas Prices—Net Monthly Bills for Specified Quantities, by Cities

[Based on rates as of December 15, 1946 and 1947]

City and kind of gas	Heating value per cubic foot in British thermal units (Dec. 15, 1947)	Net monthly bills: 10.6 therms [1]		19.6 therms [1]		30.6 therms [1]		40.6 therms [1]	
		1946	1947 [2]	1946	1947 [2]	1946	1947 [2]	1946	1947 [2]
Atlanta ... natural	1,022	$1.58	$1.51	$2.38	$2.09	$3.35	$2.73	$3.94	$3.32
Baltimore [3] ... manufactured	500	1.80	2.73	3.33	4.39	4.78	6.07	6.08	7.60
Birmingham ... do	520	1.62	1.62	2.66	2.66	3.75	3.75	4.52	4.52
Boston ... do	530	2.97	3.07	4.47	4.65	6.31	6.58	7.98	8.35
	532	2.46	2.65	4.55	4.89	6.13	6.68	7.79	8.53
Buffalo [3] ... mixed	900	.77	.78	1.42	1.44	2.21	2.23	2.93	2.96
Butte [4] ... natural	----------	1.11	------	1.59	------	2.17	------	2.70	------
Charleston [4] B-1 [5] ... manufactured	----------	2.70	------	------	------	------	------	------	------
Charleston [4] B-2 ... do	----------	2.95	------	4.42	------	5.92	------	7.28	------
Chicago ... mixed	800	1.65	1.65	2.68	2.68	3.47	3.47	4.17	4.17
Cincinnati ... *do*	*1,000*	.79	1.04	1.42	1.67	2.14	2.39	2.79	3.04
Cleveland ... natural	1,100	[6] .90	[6] .88	1.33	1.31	1.88	1.86	2.38	2.36
Columbus [4] ... do	----------	.90	------	1.34	------	1.86	------	2.34	------
Dallas [4] ... do	----------	1.26	------	1.77	------	2.40	------	2.93	------
Denver [7] ... do	840	1.54	1.54	2.21	2.21	2.88	2.87	3.36	3.36
Detroit [8] ... do	1,004	1.31	1.30	2.24	2.21	3.17	3.14	4.01	3.96
Fall River [4] ... manufactured	----------	3.03	------	4.68	------	6.69	------	8.52	------
Houston ... natural	1,078	.93	.93	1.43	1.43	2.04	2.04	2.60	2.60
	1,081	.93	.93	1.43	1.43	2.04	2.04	2.60	2.60
	1,062	.86	.88	1.32	1.35	1.87	1.91	2.38	2.43
Indianapolis ... manufactured	570	1.58	1.58	2.92	2.92	4.56	4.57	6.05	6.05
Jacksonville ... do	525	4.03	4.09	5.80	6.54	7.69	8.83	9.40	10.73
Kansas City [7] ... natural	1,047	1.33	.67	2.12	1.06	3.05	1.54	3.88	1.98
Little Rock [4] [7] ... do	----------	1.05	------	1.46	------	1.97	------	2.42	------
Los Angeles ... do	1,100	1.18	1.18	1.66	1.66	2.20	2.20	2.67	2.67
Louisville [4] [8] ... mixed	----------	1.14	------	1.79	------	2.48	------	3.08	------
Manchester ... manufactured	526	3.24	3.30	4.90	5.01	6.55	6.72	8.02	8.25
Memphis ... natural	980	1.39	1.39	2.26	2.26	3.27	3.27	3.83	3.83
Milwaukee ... manufactured	520	1.76	1.99	2.89	3.11	4.26	4.48	5.51	5.74
Minneapolis ... mixed [9]	1,000	1.60	1.57	2.24	2.24	2.98	2.94	3.60	3.57
Mobile ... natural	1,067	1.59	1.59	2.29	2.31	3.16	3.18	3.68	3.70
Newark [4] ... manufactured	----------	2.69	------	4.34	------	6.20	------	7.65	------
New Haven [4] ... do	----------	2.41	------	4.11	------	6.20	------	8.09	------
New Orleans ... natural	1,071	1.07	1.07	1.58	1.58	2.20	2.20	2.75	2.75
New York:									
3 boroughs [7] ... manufactured	540	2.30	2.30	4.26	4.26	6.65	6.65	8.82	8.82
Brooklyn [7] ... do	541	2.34	2.44	3.79	3.97	5.24	5.53	6.41	6.79
	537	2.44	2.74	3.93	4.55	5.40	6.32	6.72	7.94
	537	2.59	2.74	4.25	4.58	5.91	6.46	7.13	7.87
Richmond [7] ... do	540	3.12	3.18	5.11	5.26	7.10	7.34	8.90	9.23
Norfolk ... do	530	2.40	2.40	4.36	4.36	6.62	6.62	8.51	8.51
Omaha [4] ... do	----------	1.38	------	2.14	------	3.05	------	3.88	------
Peoria [4] ... natural	----------	1.74	------	2.71	------	3.81	------	4.81	------
Philadelphia ... manufactured	530	1.86	2.01	3.27	3.50	4.82	5.16	6.24	6.67
Pittsburgh ... natural	1,115	[6] 1.00	[6] 1.00	1.06	1.06	1.64	1.64	2.18	2.18
	1,045	1.21	1.22	1.76	1.78	2.43	2.46	3.04	3.09
	1,100	1.18	1.18	1.72	1.72	2.37	2.37	2.96	2.96
Portland, Maine ... manufactured	527	3.46	3.87	5.76	6.35	7.10	7.90	8.80	9.78
Portland, Oreg ... do	556	2.58	2.87	4.32	4.87	5.62	6.43	6.94	8.01
Providence [4] ... do	----------	3.13	------	5.05	------	7.41	------	9.56	------
Richmond ... do	530	2.60	2.60	4.74	4.74	5.99	5.99	7.69	7.69
Rochester, N. Y. [4] ... do	----------	2.26	------	3.99	------	5.35	------	6.88	------
St. Louis [7] ... mixed	800	2.04	2.04	3.20	3.20	4.38	4.38	5.45	5.45
St. Paul ... manufactured	558	1.96	1.96	3.11	3.13	4.52	4.54	5.77	5.80
Salt Lake City [4] [7] ... natural	----------	2.08	------	3.23	------	4.11	------	4.80	------
San Francisco ... do	1,100	.90	.90	1.21	1.21	1.59	1.59	1.93	1.93
Savannah ... manufactured	500	2.65	2.65	4.90	4.90	7.37	7.37	9.37	9.37
Scranton ... do	521	2.87	2.87	4.56	4.56	5.76	5.76	7.58	7.58
Seattle [8] ... *do*	*506*	*3.66*	*4.05*	*6.26*	*6.83*	*6.16*	*6.80*	*7.50*	*8.55*
Springfield, Ill. [4] ... natural	----------	1.74	------	2.71	------	3.81	------	4.81	------
Washington, D. C ... mixed [9]	1,100	1.53	1.52	2.66	2.66	3.98	3.98	5.11	5.11

[1] 1 therm equals 100,000 British thermal units. [2] Preliminary.
[3] Bills include taxes effective July 1947; Baltimore, 2 percent; Buffalo, 1 percent.
[4] Not available for 1947.
[5] Available only to customers using less than 3,200 cubic feet per month, served under this rate schedule on or before Jan. 1, 1944. [6] Minimum bill.
[7] Bills include 2 percent tax. [8] Bills include 3 percent tax. [9] Changed to natural gas last quarter 1947.

Source: Department of Labor, Bureau of Labor Statistics; Monthly Labor Review.

No. 861.—Petroleum, Crude—Production: 1861 to 1946

[Quantities in thousands of barrels (42 gallons); values in thousands of dollars]

YEARLY AVERAGE	Quantity	Value	YEAR	Quantity	Value	YEAR	Quantity	Value
1861-1865	2,479	9,965	1915	281,104	179,463	1931	851,081	550,630
1866-1870	4,013	15,795	1916	300,767	330,900	1932	785,159	680,460
1871-1875	8,221	16,430	1917	335,316	522,635	1933	905,656	608,000
1876-1880	16,816	22,926	1918	355,928	703,944	1934	908,065	904,825
1881-1885	25,508	22,933	1919	378,367	760,266	1935	996,596	961,440
1886-1890	32,990	23,830	1920	442,929	1,360,745	1936	1,099,687	1,199,820
1891-1895	51,095	35,708	1921	472,183	814,745	1937	1,279,160	1,513,340
1896-1900	59,498	56,836	1922	557,531	895,111	1938	1,214,355	1,373,060
1901-1905	102,083	83,524	1923	732,407	978,430	1939	1,264,962	1,294,470
1906-1910	172,769	119,572	1924	713,940	1,022,683	1940	1,353,214	1,385,440
1911-1915	247,739	185,793	1925	763,743	1,284,960	1941	1,402,228	1,602,000
1916-1920	362,661	735,698	1926	770,874	1,447,760	1942	1,386,645	1,643,470
1921-1925	647,961	999,186	1927	901,129	1,172,830	1943	1,505,613	1,809,020
1926-1930	895,762	1,205,217	1928	901,474	1,054,880	1944	1,677,904	2,032,960
1931-1935	889,311	741,071	1929	1,007,323	1,280,417	1945	1,713,655	2,094,250
1936-1940	1,242,276	1,353,226	1930	898,011	1,070,200	1946 [1]	1,733,424	2,441,810

[1] Preliminary.

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

No. 862.—Petroleum, Crude and Refined—Production, Imports, Exports, and Bunker Oil Laden on Vessels in Foreign Trade: 1871 to 1946

[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]

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	34,868	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
1930	898,011	62,129	43,381	23,704	122,167	50,773	64.9	78.7	32.2	438.2	53.6
1931	851,081	47,250	38,702	25,535	91,009	43,714	39.2	52.1	20.8	232.3	38.8
1932	785,159	44,700	30,228	27,391	69,348	38,152	30.4	29.2	27.1	168.1	29.4
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	27,350	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	[3] 1,733,424	89,210	57,047	42,574	90,884	62,494	101.7	57.0	74.1	306.3	94.1

[1] Data not available.
[2] Average for years 1908-10 for total mineral oils. [3] Preliminary.

Sources: Production, Dept. of the Interior, Bur. of Mines; Minerals Yearbook. Imports and exports, Dept. of Commerce, Bur. of Foreign and Domestic Commerce through 1940; thereafter, Bur. of Census; annual report, Foreign Commerce and Navigation of the U. S.

No. 863.—Petroleum, Crude—World Production; United States Production, by Regions and States: 1921 to 1945

[In thousands of barrels of 42 gallons]

Region and state	1921–1925 (average)	1926–1930 (average)	1931–1935 (average)	1936–1940 (average)	1941	1942	1943	1944	1945 (prel.)
World total [1]	**944,777**	**1,316,390**	**1,460,372**	**2,009,651**	**1,222,941**	**2,079,866**	**2,231,423**	**2,614,345**	**2,624,929**
United States [2]	**647,961**	**895,762**	**889,311**	**1,242,276**	**1,402,228**	**1,386,645**	**1,505,613**	**1,677,904**	**1,711,103**
Percent of total	*69*	*68*	*61*	*62*	*63*	*67*	*67*	*64*	*65*
Regions:									
Appalachian	28,504	31,603	30,079	34,817	33,102	34,563	35,237	34,272	33,047
Lima—N. E. Ind.—Mich	2,298	3,603	10,050	18,716	16,933	22,075	20,944	18,709	17,473
Illinois—S. W. Indiana	9,585	7,495	5,326	57,570	139,780	113,110	87,516	82,507	80,054
Mid-continent	343,545	527,944	566,251	694,826	716,544	703,490	736,487	818,678	844,445
Gulf	33,688	54,140	75,401	178,326	225,649	221,495	296,322	366,385	360,432
Rocky Mountain	35,258	29,468	17,984	27,765	39,957	43,586	44,919	45,560	49,170
California	*195,074*	*241,509*	*184,221*	*230,256*	*230,263*	*248,326*	*284,188*	*311,793*	*326,482*
States:									
Arkansas	36,644	35,010	12,144	17,485	26,327	26,628	27,600	29,418	28,613
California	195,074	241,509	184,221	230,256	230,263	248,326	284,188	311,793	326,482
Colorado	392	2,477	1,260	1,539	2,150	2,199	2,320	3,083	4,959
Illinois	8,815	6,654	4,551	55,722	132,393	106,391	82,260	77,413	75,210
Indiana	1,011	937	800	1,870	7,411	6,743	5,283	5,118	4,868
Kansas	32,733	41,123	43,033	63,197	83,242	97,636	106,178	98,762	95,997
Kentucky	8,044	7,103	5,494	5,549	4,762	4,534	7,883	9,621	10,325
Louisiana	25,759	22,338	30,396	92,771	115,908	115,785	123,592	129,645	130,566
Michigan	1	1,913	9,004	18,103	16,359	21,754	20,768	18,490	17,259
Mississippi	--------	--------	(3)	4,507	15,327	28,833	18,807	16,337	18,775
Montana	2,729	4,826	3,153	5,861	7,526	8,074	7,916	8,647	8,397
New Mexico	[4] 554	3,171	15,829	35,720	39,569	31,544	38,896	39,555	37,281
New York	1,274	2,765	3,618	5,057	5,185	5,421	5,059	4,697	4,648
Ohio	7,045	7,022	4,504	3,404	3,510	3,543	3,322	2,937	2,828
Oklahoma	155,088	235,663	176,293	185,293	154,702	140,690	123,152	124,616	138,036
Pennsylvania	7,607	10,613	13,443	17,684	16,750	17,779	15,757	14,118	12,515
Texas	127,009	245,792	364,341	478,063	505,572	483,097	594,343	746,699	755,533
West Virginia	6,575	5,655	4,032	3,680	3,433	3,574	3,349	3,070	2,879
Wyoming	31,901	21,145	13,158	19,987	29,878	32,812	34,253	33,356	35,359

[1] Estimated.
[2] Includes for certain years small quantities not distributed by regions and States.
[3] Not shown separately.
[4] Average for years 1924 and 1925.

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

No. 864.—Crude Petroleum, Refined Products, and Natural Gasoline—Production and Stocks: 1920 to 1945

[Barrels of 42 gallons]

ITEM	1920	1925	1930	1935	1940	1943	1944	1945 (prel.)
Crude petroleum:								
Domestic production 1,000 bbls.	442,929	763,743	898,011	996,596	1,353,214	1,505,613	1,677,904	1,711,103
Imports [1] do.	106,175	61,824	62,129	32,239	42,662	13,833	44,805	74,095
Exports [1] do.	9,295	13,337	23,705	51,430	51,496	41,342	34,238	32,998
Stocks, end of period:								
Refinable crude do.	149,448	345,863	408,809	314,855	264,709	243,506 / [2] 242,132	220,862 / [2] 220,663	218,763
California heavy crude do.	(3)	(3)	(3)	(3)	11,906	8,289 / [2] 7,272	6,107	4,496
Run to stills do.	433,915	739,920	927,447	965,790	1,294,162	1,429,738	1,665,684	1,719,534
Total value at wells 1,000 dolls.	1,360,745	1,284,960	1,070,200	961,440	1,385,440	1,809,020	2,032,960	2,093,300
Average price per barrel at wells	$3.07	$1.68	$1.19	$0.97	$1.02	$1.20	$1.21	$1.22
Refined products:								
Imports [1] 1,000 bbls.	2,647	16,376	43,489	20,396	41,089	49,579	47,506	39,278
Exports [1] do.	70,281	100,497	132,794	77,557	78,970	108,615	173,378	151,275
Stocks, end of period do [3]	60,397	206,275	254,311	223,361	282,265	229,362	245,868	235,998
Output of motor fuel do.	118,022	262,252	440,728	468,021	616,695	608,180	739,340	799,059
Yield of gasoline percent	26.1	32.4	42.0	44.2	43.1	37.1	39.4	40.9
Completed refineries, end of year	415	510	435	632	556	452	(4)	(4)
Daily crude-oil capacity of refineries 1,000 bbls.	1,889	2,853	3,943	4,117	4,719	5,093	(4)	(4)
Average dealer's net price (excl. tax) of gasoline in 50 U. S. cities [5] cents per gal.	28.05	17.46	14.49	12.02	9.08	10.45	10.49	10.33
Natural gasoline:								
Production 1,000 bbls.	9,161	26,307	52,631	39,333	55,700	87,716	100,036	111,274
Stocks, end of period do.	(4)	[6] 326	2,377	3,698	5,704	4,541	4,252 / [2] 4,451	4,322

[1] Import and export figures from Bureau of Foreign and Domestic Commerce through 1940 and from Bureau of Census thereafter, 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] For comparison with succeeding year.
[3] Figure for California heavy crude not available for 1920; included in refined products in 1925, 1930, and 1935.
[4] Not available.
[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. 865.—Petroleum—Runs to Stills and Refinery Products, by Class: 1920 to 1945

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

PRODUCT	1920	1925	1930	1935	1940	1943	1944	1945
Input, total	437,068	759,556	970,617	996,815	1,333,709	1,490,936	1,732,891	1,789,858
Crude petroleum, total	433,915	739,920	927,447	965,790	1,294,162	1,429,738	1,665,684	1,719,534
Domestic	372,779	698,582	866,615	933,659	1,252,364	1,417,559	1,622,514	1,645,862
Foreign	61,136	41,338	60,832	32,131	41,798	12,179	43,170	73,672
Natural gasoline	3,153	19,636	43,170	31,025	39,547	61,198	67,207	70,324
Output, total	437,068	759,556	970,617	996,815	1,333,709	1,490,936	1,732,891	1,789,858
Gasoline	116,251	259,601	432,241	457,842	597,375	592,425	722,718	774,460
Kerosene	55,240	59,689	49,208	55,813	73,882	72,270	78,344	81,024
Distillate fuel oil	210,987	364,991	81,551	100,235	183,304	211,516	239,152	249,224
Residual fuel oil			290,947	259,826	316,221	417,306	461,455	469,492
Lubricating oil	24,938	31,055	34,201	27,853	36,765	38,679	41,106	41,867
Wax	(1)	2,135	1,956	1,608	1,833	2,697	2,883	2,921
Coke	(1)	5,281	9,895	7,290	7,633	6,942	9,017	10,115
Asphalt	(1)	15,067	18,194	17,133	29,406	37,162	38,479	39,196
Still gas	(1)	(1)	5,377	51,184	75,950	86,755	102,239	103,458
Wax 1,000 lbs.	541,204	590,577	547,680	450,240	513,240	755,160	807,240	817,880
Coke 1,000 tons [2]	577	991	1,940	1,458	1,527	1,388	1,803	2,023
Asphalt do.	1,291	2,677	3,308	3,115	5,347	6,757	6,996	7,127
Still gas 1,000,000 cu. ft.	(1)	(1)	23,000	197,220	273,420	312,318	368,061	372,449
Road oil	[3] 10,909	8,044	5,425	6,030	7,771	2,295	1,556	2,686
Other finished products			2,377	1,888	3,202	9,660	18,436	19,080
Crude gasoline (net)	----------	----------	----------	1,032	902	1,009	1,745	[4] *4,892*
Other unfinished oils (net)	(3)	[4] *9,221*	2,242	[4] *2,412*	[4] *3,848*	2,597	2,584	[4] *5,737*
Shortage	18,743	22,914	37,003	11,493	3,313	9,623	13,177	6,957

[1] Not available. [2] Of 2,000 pounds. [3] Other finished products includes other unfinished oils.
[4] 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. 866.—Petroleum—Runs to Stills, 1944 and 1945, and Major Refinery Products, 1945, by Regions

[In thousands of barrels of 42 gallons, except wax which is in thousands of pounds]

Region	Crude oil run to stills		Natural gasoline run to stills or blended		Output of refineries, 1945				
	1944	1945	1944	1945	Gasoline	Kerosene	Distillate fuel oil	Residual fuel oil	Wax
Total	**1,665,684**	**1,719,534**	**67,207**	**70,324**	**774,460**	**81,024**	**249,224**	**469,492**	**817,880**
East coast	257,046	273,667	2,073	1,687	98,207	10,755	50,243	85,352	309,400
Appalachian	56,349	56,199	410	435	25,895	3,288	6,101	9,152	102,480
Ind., Ill., Ky., etc	278,785	275,853	8,911	8,309	143,826	12,719	34,601	53,494	60,200
Okla., Kans., and Mo	133,106	139,176	4,850	5,310	72,746	8,039	20,500	24,764	90,160
Texas	491,920	487,927	28,513	30,377	234,703	27,550	79,823	111,108	124,320
Louisiana and Ark	112,509	127,246	6,357	5,563	56,125	14,724	23,119	23,393	82,320
Rocky Mountain	41,254	45,944	1,149	1,502	21,864	1,117	5,135	13,253	25,200
California	294,715	313,522	14,944	17,141	121,094	2,832	29,702	148,976	23,800

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

No. 867.—Petroleum Products—Production, by Kind: 1929, 1937, and 1939

Products	Quantity (thousands of gallons unless otherwise specified)			Value (thousands of dollars)		
	1929	1937	1939	1929	1937	1939
Refinery products, total value				**2,627,533**	**2,537,609**	**2,454,200**
Gasoline	17,538,789	22,626,325	24,393,809	1,531,242	1,447,688	1,424,436
Naphtha, including benzine	712,583	319,983	392,772	70,180	22,032	23,116
Kerosene	2,338,929	2,508,045	2,710,109	164,836	123,681	112,065
Fuel oils	**16,390,954**	**19,243,714**	**19,983,006**	**384,630**	**512,904**	**472,209**
Distillates	1,024,364	2,997,561	2,866,730	39,338	122,187	107,649
Gas oils, including Diesel oils	2,882,959	3,153,937	3,972,609	96,094	110,428	130,467
Residual fuel oils	12,483,631	13,092,216	13,143,667	249,198	280,289	234,093
Partially refined oils sold for rerunning	**1,466,861**	**1,147,454**	**1,331,987**	**49,143**	**38,726**	**38,878**
Above fuel oil	869,056	838,758	1,013,265			
Fuel oil	567,533	247,723	249,674	(1)	(1)	(1)
Below fuel oil	30,273	60,973	69,049			
Lubricating oils [2]	**1,553,711**	**1,517,103**	**1,606,830**	**304,673**	**245,666**	**237,161**
Neutral, cylinder, and black	940,870	970,593	712,372	169,365	133,986	100,149
All other, including compounded and unclassified	612,840	546,510	894,458	135,308	111,681	137,013
Road oils	**323,002**	**592,557**	**861,772**	**11,041**	**19,522**	**25,681**
Liquid asphaltic road oils	323,002	481,135	608,915	11,041	16,418	17,142
Other road oils		111,422	252,858		3,104	8,539
Residuum or tar	104,111	20,421	52,030	3,149	853	822
Greases	**52,017**	**61,926**	**61,885**	**16,646**	**17,216**	**17,324**
Petrolatum, mineral jelly, etc	13,664	23,083	18,875	2,548	3,932	2,873
Lubricating greases [2]	38,354	38,843	43,010	14,098	13,284	14,451
Paraffin wax	84,639	90,608	90,649	22,328	19,213	19,485
Acid oil	34,767	57,633	55,273	663	1,016	784
Liquefied petroleum gases	(1)	116,055	145,429	(1)	3,904	4,942
Asphalt, other than liquid asphalt [3]	3,115	2,971	2,345	34,506	31,352	20,852
Petroleum coke [3]	1,265	1,327	1,522	5,461	5,048	4,987
Other refinery products				29,035	48,787	51,461

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

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

No. 868.—Petroleum Pipe Lines—Summary: 1925 to 1946

[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	77,239	219,057	92,899	94,491	91,742
1937	96,611	802,946	87,389	248,198	99,641	109,994	102,720
1938	95,775	807,657	70,666	228,211	98,756	95,128	92,724
1939	98,681	829,646	65,124	212,466	97,130	83,401	80,823
1940	100,156	841,977	64,095	225,760	101,919	82,558	79,857
1941	105,435	885,317	45,687	251,685	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

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

No. 869.—Oil Wells, Number and Production, 1943 and 1944, and Number of Oil and Gas Wells Drilled, 1944 and 1945, 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	
	1943	1944	1943	1944	1944	1945	1944	1945	1944	1945
Total	**407,170**	**412,220**	**10.2**	**11.2**	**13,029**	**14,297**	**3,067**	**2,899**	**7,010**	**7,471**
Arkansas	3,150	3,250	24.2	25.1	128	115	2	--------	85	70
California [2]	19,700	21,470	40.7	41.4	1,663	1,690	48	56	323	404
Colorado	210	230	30.3	38.3	22	42	1	1	14	17
Illinois	24,000	24,600	9.4	8.7	1,196	1,060	6	1	747	688
Indiana	2,000	2,050	7.4	6.9	144	111	22	28	137	166
Kansas	23,100	25,000	12.5	11.2	824	838	93	201	920	745
Kentucky	15,000	17,000	1.4	1.6	374	382	305	108	314	247
Louisiana	7,250	7,460	47.7	48.2	429	646	82	108	292	354
Michigan	3,380	3,400	17.0	14.9	239	260	59	54	357	454
Mississippi	370	470	143.1	106.3	78	198	1	--------	77	164
Montana	2,070	2,200	10.5	11.1	221	217	63	38	103	57
Nebraska [3]	90	80	19.3	13.4	12	1	3	4	18	27
New Mexico	3,980	4,250	27.2	26.3	283	279	15	21	116	124
New York	22,450	21,700	.6	.6	(4)	(4)	(4)	(4)	(4)	(4)
Ohio	23,000	20,800	.4	.4	(4)	(4)	(4)	(4)	(4)	(4)
Oklahoma	53,100	51,900	6.4	6.5	1,031	1,426	212	250	647	833
Pennsylvania	82,800	83,300	.5	.5	[5] 2,681	[5] 2,820	[5] 1,882	[5] 1,303	[5] 847	[5] 587
Texas	100,800	102,300	16.2	20.1	3,526	4,036	268	714	1,935	2,434
West Virginia	16,900	16,750	.5	.5	(4)	(4)	(4)	(4)	(4)	(4)
Wyoming	3,710	3,900	25.5	24.0	167	162	5	10	33	55
Other States	110	110	1.3	1.7	11	14	--------	2	45	45

[1] Figures, except for California, from Oil and Gas Journal. [2] From American Petroleum Institute.
[3] Includes Missouri and Iowa. [4] Included in Pennsylvania.
[5] Includes New York, Ohio, and West Virginia.

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

No. 870.—Asphalt—Supply, Distribution, and Value: 1940 to 1946

ITEM	1940	1941	1942	1943	1944	1945	1946
SUPPLY (1,000 TONS OF 2,000 LBS.)							
Total	6,525	8,022	7,999	8,172	8,483	8,609	**9,832**
Native asphalt and related bitumens:							
Produced	491	691	975	886	790	704	**846**
Imported (chiefly lake asphalt)	12	14	8	8	8	5	**4**
Petroleum asphalt (excluding road oil):							
Produced at refineries from domestic and foreign petroleum	5,347	6,558	6,297	6,757	6,996	7,127	**8,166**
Imported [1]	126	145	115	110	126	147	**123**
Stocks, Jan. 1	550	614	604	411	563	626	**693**
DISTRIBUTION (1,000 TONS OF 2,000 LBS.)							
Total	6,525	8,022	7,999	8,172	8,483	8,609	**9,832**
Native asphalt and related bitumens:							
Indicated domestic demand	479	680	966	851	752	657	**819**
Exports (unmanufactured)	11	11	9	35	37	47	**27**
Petroleum asphalt (excluding road oil):							
Indicated domestic demand (incl. lake asphalt)	5,161	6,502	6,527	6,637	6,949	6,999	**7,895**
Exports	259	225	85	86	119	213	**389**
Stocks, Dec. 31	614	604	411	563	626	693	**702**
VALUE (1,000 DOLLARS)							
Native asphalt and related bitumens:							
Sales	2,725	3,169	4,279	4,288	3,688	3,816	**4,262**
Imports (chiefly lake asphalt)	143	183	136	222	254	122	**92**
Exports (unmanufactured)	443	329	232	819	730	1,207	**974**
Petroleum asphalt (excluding road oil):							
Sales [2]	45,191	60,513	70,815	78,863	75,715	78,876	**93,991**
Imports [1]	566	777	680	659	726	842	**771**
Exports	4,004	3,690	1,585	2,147	2,606	5,172	**9,509**

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

No. 871.—Gypsum—Supply, Sales, Imports, and Exports: 1940 to 1946

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

ITEM	1940	1941	1942	1943	1944	1945	1946
Crude gypsum: [1]							
Mined	3,699	4,789	4,698	3,878	3,761	3,812	**5,629**
Imported	1,405	1,348	394	231	342	509	**1,457**
Apparent supply	5,104	6,136	5,092	4,109	4,104	4,320	**7,087**
Calcined gypsum produced: [2]							
Short tons	3,308	3,981	3,045	2,558	2,363	2,485	**4,170**
Value	17,255	19,747	16,403	14,752	13,841	14,474	**29,273**
Gypsum products sold: [2]							
Uncalcined uses:							
Short tons	929	1,321	1,515	1,234	1,056	1,148	**1,641**
Value	2,251	3,139	3,534	3,115	2,954	3,433	**5,106**
Industrial uses:							
Short tons	124	152	143	164	200	158	**207**
Value	1,533	1,885	1,841	2,259	2,551	2,326	**3,161**
Building uses, value	49,709	64,734	57,796	53,723	50,196	54,390	**88,928**
Gypsum and gypsum products:							
Imported for consumption, value	1,429	1,282	508	304	395	549	**1,833**
Exported, value	264	530	978	284	490	1,503	**1,065**

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

Source of tables 870 and 871: Department of the Interior, Bureau of Mines; Minerals Yearbook.

No. 872.—Portland Cement—Production, by States; Shipments, Imports, and Stocks: 1910 to 1946

[In thousands of barrels of 376 pounds]

STATE	1910	1920	1925	1930	1935	1940	1945	1946
Production, total	76,550	100,023	161,659	161,197	76,742	[1] 130,217	[1 2] 102,805	[1 2] 164,064
Alabama	[3] 1,481	1,132	6,288	4,821	2,493	5,122	5,542	7,897
California	[4] 6,386	7,098	13,098	10,124	7,974	14,216	15,952	19,541
Illinois	4,459	5,539	7,101	7,935	3,368	4,975	4,367	6,270
Iowa	[5] 2,010	4,849	4,648	7,088	3,520	4,606	3,194	5,513
Kansas	5,656	4,341	6,511	6,012	2,337	3,433	3,001	6,405
Michigan	3,688	4,891	10,936	11,511	4,579	8,603	5,839	9,694
Missouri	4,456	6,018	8,332	7,809	3,392	4,968	3,185	6,512
New York	3,296	5,885	8,770	10,373	4,285	8,437	[6] 5,617	[6] 11,412
Ohio	1,528	1,780	5,715	8,632	3,876	6,664	4,604	8,035
Pennsylvania	26,676	28,269	42,347	37,844	15,502	26,853	15,564	29,202
Tennessee	(7)	(7)	(7)	3,875	2,703	3,808	2,882	5,218
Texas	[8] 2,287	2,562	4,858	6,782	3,787	7,375	8,037	10,713
Other States	14,627	27,659	43,055	38,393	18,925	[1] 31,156	[1 2] 25,022	[1 2] 37,653
Shipments [9]	(10)	96,312	157,295	159,059	75,233	130,350	106,354	169,568
Imports [11]	307	525	3,667	985	619	538	(12)	4
Stocks at mills (Dec. 31)	(10)	8,833	18,336	25,899	23,065	23,365	16,455	10,951

[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 and 1925.
[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.

No. 873.—Portland Cement—Shipments, by State of Destination: 1943 to 1946

[In thousands of barrels of 376 pounds]

STATE	1943	1944	1945	1946
Shipped from cement plant	127,632	94,272	106,354	169,568
Shipments to States	120,658	87,309	96,457	163,094
New England	3,923	2,829	3,279	6,696
Maine	440	248	306	658
New Hampshire	268	212	254	517
Vermont	118	117	158	378
Massachusetts	1,468	1,084	1,299	2,527
Rhode Island	535	305	266	495
Connecticut	1,095	864	997	2,120
Middle Atlantic	15,879	11,441	13,498	25,056
New York	5,932	4,058	5,252	10,232
New Jersey	3,435	2,585	2,772	5,122
Pennsylvania	6,512	4,798	5,474	9,702
E. N. Central	22,404	18,137	21,033	35,064
Ohio	6,384	4,387	4,777	9,027
Indiana	3,407	2,934	3,629	5,256
Illinois	5,985	4,787	5,382	8,767
Michigan	4,826	3,770	4,636	7,571
Wisconsin	1,802	2,260	2,608	4,443
W. N. Central	13,465	9,341	10,468	18,529
Minnesota	1,534	1,638	2,135	3,717
Iowa	2,156	1,996	2,186	3,759
Missouri	2,543	1,970	2,579	4,885
North Dakota	268	287	382	672
South Dakota	670	288	383	728
Nebraska	2,590	1,340	1,030	1,814
Kansas	3,705	1,821	1,772	2,954
South Atlantic	18,648	12,035	11,249	21,380
Delaware	531	212	210	484
Maryland	2,620	1,596	1,656	2,752
Dist. of Col	1,314	667	765	1,011
Virginia	3,496	2,434	2,066	3,492
Shipments to States—Con. South Atlantic—Continued.				
West Virginia	1,191	903	1,080	2,007
North Carolina	3,197	2,709	1,369	3,506
South Carolina	1,049	555	589	1,347
Georgia	2,252	1,246	1,447	3,049
Florida	2,997	1,713	2,068	3,731
E. S. Central	7,977	4,996	5,678	10,416
Kentucky	1,836	1,258	1,206	2,320
Tennessee	3,002	1,883	1,772	3,666
Alabama	2,354	1,194	1,912	2,744
Mississippi	784	662	788	1,687
W. S. Central	14,622	8,837	11,077	16,825
Arkansas	1,280	728	975	1,332
Louisiana	2,998	1,589	1,928	2,564
Oklahoma	3,080	1,300	1,580	3,026
Texas	7,264	5,220	6,595	9,904
Mountain	5,837	3,385	4,666	6,908
Montana	250	259	356	553
Idaho	726	351	432	707
Wyoming	384	248	220	343
Colorado	951	694	1,134	1,727
New Mexico	464	383	799	1,073
Arizona	997	577	740	1,171
Utah	1,454	611	675	933
Nevada	612	262	310	400
Pacific	17,866	16,123	15,017	22,183
Washington	3,700	3,339	2,304	3,364
Oregon	1,008	736	921	1,478
California	13,158	12,048	11,792	17,341
Unspecified	36	185	491	36
Exports direct by manufacturers [1]	6,974	6,963	9,897	6,474

[1] Includes shipments to Alaska, Hawaii, and Puerto Rico, etc., as well as shipments to foreign countries.

Source of tables 872 and 873: Dept. of Interior, Bur. of Mines; Minerals Yearbook.

No. 874.—Cement—Production, by Kind: 1890 to 1946

[Portland cement, in barrels of 376 pounds; masonry, natural, and puzzolan cement in 1921 and later years in 376-pound barrels but prior to 1921 in barrels of 240, 265, and 320 pounds, respectively]

Year	Production in thousands of barrels			Total value in thousands of dollars [1]	Year	Production in thousands of barrels			Total value in thousands of dollars [1]
	Total	Portland	Masonry, natural, and puzzolan			Total	Portland	Masonry, natural, and puzzolan	
1890	7,777	336	7,441	4,527	1930	162,989	161,197	1,792	231,249
1895	8,731	990	7,741	5,482	1931	126,671	125,429	1,242	142,580
1900	17,231	8,482	8,749	13,284	1932	77,198	76,741	457	82,718
1905	40,102	35,247	4,855	35,932	1933	63,984	63,473	511	86,229
1910	77,785	76,550	1,235	68,752	1934	78,419	77,748	672	117,882
1915	86,708	85,915	[2] 794	74,285	1935	77,748	76,742	1,006	114,810
1919	81,307	80,778	[2] 529	138,714	1936	114,469	112,650	1,819	172,778
1920	100,791	100,023	[2] 767	203,198	1937	118,075	116,175	1,901	171,414
1921	99,381	98,842	[2] 539	187,708	1938	107,178	105,357	1,821	156,703
1922	115,679	114,790	[2] 889	203,324	1939 [3]	124,698	122,259	2,439	184,255
1923	138,732	137,460	[2] 1,272	263,122	1940 [3]	132,751	130,217	2,535	193,465
1924	150,777	149,358	[2] 1,418	272,345	1941 [3]	166,907	164,031	2,876	250,589
1925	163,388	161,659	1,729	281,076	1942 [3]	185,342	182,781	2,560	286,905
1926	166,635	164,530	2,105	280,786	1943 [3]	135,254	133,424	1,830	202,460
1927	175,330	173,207	2,124	281,736	1944 [3]	92,152	90,906	1,247	151,997
1928	178,509	176,299	2,210	278,883	1945 [4]	104,289	102,805	1,484	175,431
1929	172,856	170,646	2,209	255,105	1946 [4]	166,539	164,064	2,475	296,549

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

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

No. 875.—Stone—Sales, by Kind and by Use: 1940 to 1946

Variety and use	Quantity sold, thousands of short tons (2,000 pounds) [1]							Value, 1,000 dollars	
	1940	1941	1942	1943	1944	1945	1946	1945	1946
Total	**153,733**	**183,108**	**195,884**	**171,343**	**155,580**	**153,405**	**178,852**	**179,308**	**234,339**
Granite	10,881	14,299	14,065	9,240	7,395	7,740	11,119	17,053	29,492
Basalt and related rocks	15,716	17,937	17,627	14,385	14,043	14,911	16,400	17,533	20,683
Sandstone	6,499	7,593	6,701	7,408	6,427	4,387	4,254	8,712	11,407
Marble	240	176	170	169	153	171	205	5,285	7,920
Limestone	112,658	133,164	142,488	128,980	115,506	112,574	134,717	121,442	155,649
All other	7,740	9,939	14,835	11,160	12,055	13,622	12,156	9,284	9,188
Building stone	836	816	481	319	200	382	707	5,485	13,768
Monumental	196	237	226	210	243	251	300	11,361	17,435
Paving blocks	19	[2] 21	19	7	4	2	5	22	50
Curbing	71	[2] 66	25	12	17	13	30	204	544
Flagging	68	77	52	32	21	21	38	228	525
Rubble	916	729	544	253	135	390	293	549	650
Riprap	5,264	5,153	8,764	4,950	4,011	4,801	3,848	5,590	5,010
Crushed stone	100,268	120,964	125,268	99,648	83,081	85,373	107,267	80,430	110,893
Furnace flux, limestone and marble	22,872	27,436	30,263	[3] 31,571	[3] 31,080	[3] 27,640	[3] 25,158	[3] 22,076	[3] 20,792
Refractory stone	1,740	2,254	2,718	2,708	2,314	2,527	2,088	4,545	4,157
Agricultural limestone	8,724	11,910	13,745	14,522	18,941	17,396	22,782	25,892	32,483
Other uses	12,757	13,444	13,779	17,113	15,534	14,610	16,335	22,926	28,033

[1] Quantities of stones not sold by short ton are expressed in approximate equivalents in short tons; expressed in their selling units, quantities for 1946 are as follows: Building stone (cut stone, slabs, and mill blocks), 6,654,340 cubic feet; monumental stone, 3,677,920 cubic feet; paving blocks, 578,750 (number); curbing, 374,900 cubic feet; and flagging, 475,620 cubic feet.
[2] Sandstone paving blocks included with "curbing."
[3] Limestone only.

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

No. 876.—Salt—Production, Exports, and Imports: 1880 to 1946

[In short tons (2,000 pounds). Production figures represent sales plus that used by producers; they include Puerto Rico. Imports are imports for consumption]

YEAR	Production	Exports	Imports	YEAR	Production	Exports	Imports
1880	834,548	1,642	509,703	1934	7,612,074	105,365	53,124
1885	985,411	2,108	440,290	1935	7,926,897	112,213	51,245
1890	1,242,779	2,464	257,323	1936	8,828,936	76,974	51,041
1895	1,913,751	3,602	279,576	1937	9,241,564	70,111	45,996
1900	2,921,708	7,511	199,909	1938	8,025,768	67,498	39,513
1905	3,635,257	34,238	161,159	1939	9,277,911	124,273	46,033
1910	4,242,792	49,013	137,103	1940	10,359,960	147,044	30,402
1915	5,352,409	80,474	122,326	1941	12,720,629	123,195	15,432
1920	6,840,029	139,272	137,654	1942	13,693,284	118,424	7,754
1925	7,397,500	155,079	85,788	1943	15,214,152	145,803	1,258
1930	8,054,440	70,478	54,021	1944	15,717,171	198,368	5,554
1931	7,358,070	98,710	33,216	1945	15,394,141	190,524	4,553
1932	6,407,973	63,581	28,018	1946	15,132,145	223,426	4,253
1933	7,604,972	105,178	30,132				

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

No. 877.—Salt—Production, by States and by Kind: 1925 to 1946

[Quantity figures in short tons (2,000 pounds). Represents sales plus that used by producers; includes Puerto Rico]

STATE OR KIND	1925	1930	1935	1940	1944	1945	1946
Production, total	7,397,500	8,054,440	7,926,897	10,359,960	15,717,171	15,394,141	15,132,145
By States:							
Michigan	2,172,600	2,558,290	2,128,171	2,863,035	4,287,758	4,285,493	4,334,202
New York	2,053,970	2,009,280	1,927,822	2,117,671	2,925,675	2,862,224	2,813,782
Ohio	1,173,590	1,311,440	1,487,315	2,080,133	2,891,395	2,764,926	2,645,995
Kansas	812,540	759,800	608,204	684,053	932,238	855,806	815,018
Louisiana	500,350	535,250	702,990	1,132,594	1,843,728	1,867,689	1,846,522
California	292,480	350,370	356,222	469,354	712,558	694,609	729,092
Texas	(1)	(1)	268,809	402,165	1,147,397	1,100,791	1,098,589
Utah	88,150	85,240	57,625	71,472	119,809	122,997	121,669
West Virginia	25,870	28,670	65,968	144,312	359,217	370,260	272,841
Other States	277,950	416,100	323,771	395,171	497,396	469,346	454,435
By kinds:							
Manufactured (evaporated)	2,235,170	2,358,610	2,330,042	2,782,741	3,448,578	3,182,570	3,249,457
In brine	2,819,690	3,718,460	3,837,613	5,311,671	8,820,355	8,705,831	8,470,680
Rock salt	2,342,640	1,977,370	1,759,242	2,265,548	3,448,238	3,505,740	3,412,008
Total value [2] (dollars)	26,162,361	25,009,480	21,837,911	26,474,619	43,715,492	43,914,406	44,912,586

[1] Included in "Other States."
[2] F. o. b. mine or refinery; values exclude cost of cooperage or containers.

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

No. 878.—Employment and Injuries in Mineral Industries: 1931 to 1946

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
1931	188	784,347	492,009	147,602,799	1,707	96,412	16,063	3.5	196.0	99.7
1932	165	671,343	368,852	110,655,616	1,368	68,717	9,745	3.7	186.3	91.6
1933	181	677,722	409,292	122,787,658	1,242	72,342	11,029	3.0	176.7	98.6
1934	195	739,737	481,807	144,542,133	1,429	81,660	13,652	3.0	169.5	100.9
1935	195	783,139	507,847	152,354,170	1,495	82,220	16,645	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	1,369	71,618	20,304	2.8	148.1	107.3
1939	202	788,925	531,295	159,388,490	1,334	75,495	21,480	2.5	142.1	102.5
1940	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	88,470	23,876	2.6	128.0	90.5
1944	287	677,005	648,434	194,530,188	1,571	83,466	19,775	2.4	128.7	88.5
1945[2]	273	636,475	579,343	173,803,000	1,281	75,667	16,317	2.2	130.6	82.5
1946[2]	244	674,700	548,647	164,594,000	1,161	74,425	17,625	2.1	135.7	88.9

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

No. 879.—Employment and Injuries in Mineral Industries, by Industry Groups, 1946 and Earlier Years

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
1941	125,290	106,512	230	15,285	487
1942	112,446	104,806	237	13,516	441
1943	100,752	97,579	220	12,585	440
1944	81,741	78,463	147	10,192	(3)
1945[2]	71,841	69,147	112	8,090	(3)
1946[2]	77,500	65,580	110	8,585	(3)
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
1941	86,123	74,566	76	6,675	195
1942	84,270	76,025	112	6,199	150
1943	69,877	63,785	80	5,059	140
1944	58,476	52,302	73	4,322	115
1945[2]	58,180	51,253	53	4,121	(3)
1946[2]	73,500	66,190	50	5,375	(3)
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
1941	54,349	56,388	34	3,268	142
Metallurgical plants—Con.					
1942	51,154	56,911	29	3,518	156
1943	64,735	72,542	31	4,443	223
1944	58,085	63,710	38	3,928	230
1945[2]	46,467	50,893	19	3,271	(3)
1946[2]	44,700	42,533	19	2,810	(3)
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
1941	22,641	25,805	15	770	32
1942	23,909	27,606	13	891	30
1943	25,765	29,825	17	941	45
1944	24,766	28,958	15	952	36
1945[2]	22,987	26,385	18	835	(3)
1946[2]	21,500	24,010	8	855	(3)
Coal mines:					
1911	728,348	532,565	2,656	(3)	(3)
1915	734,008	511,598	2,269	(3)	(3)
1920	784,621	601,283	2,272	(3)	(3)
1925	748,805	480,227	2,234	(3)	(3)
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
1941	546,692	388,146	1,266	61,284	2,181
1942	530,861	430,452	1,471	67,454	2,110
1943	486,516	427,656	1,451	63,281	1,313
1944	453,937	424,998	1,298	63,691	(3)
1945[2]	437,000	381,667	1,079	59,350	(3)
1946[2]	457,500	350,333	974	56,800	(3)

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

Source of tables 878 and 879: 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.