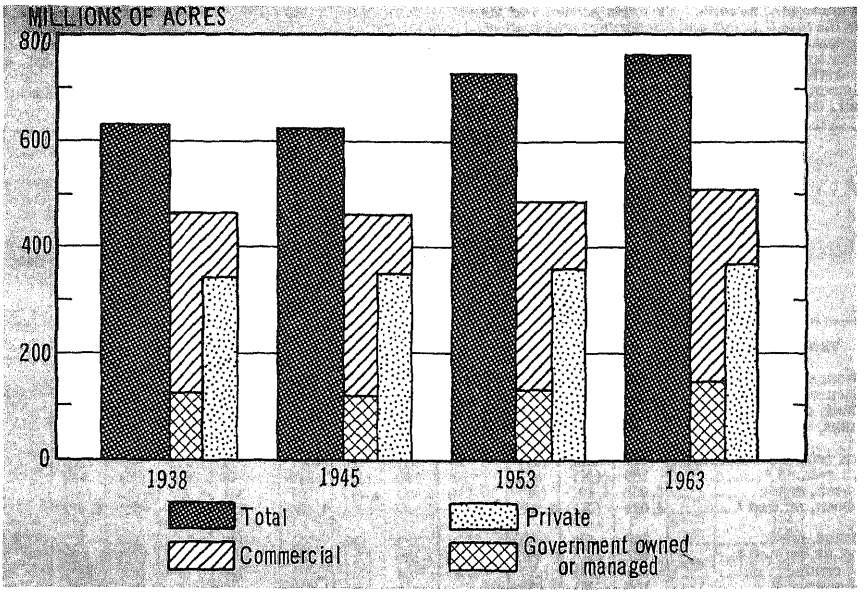
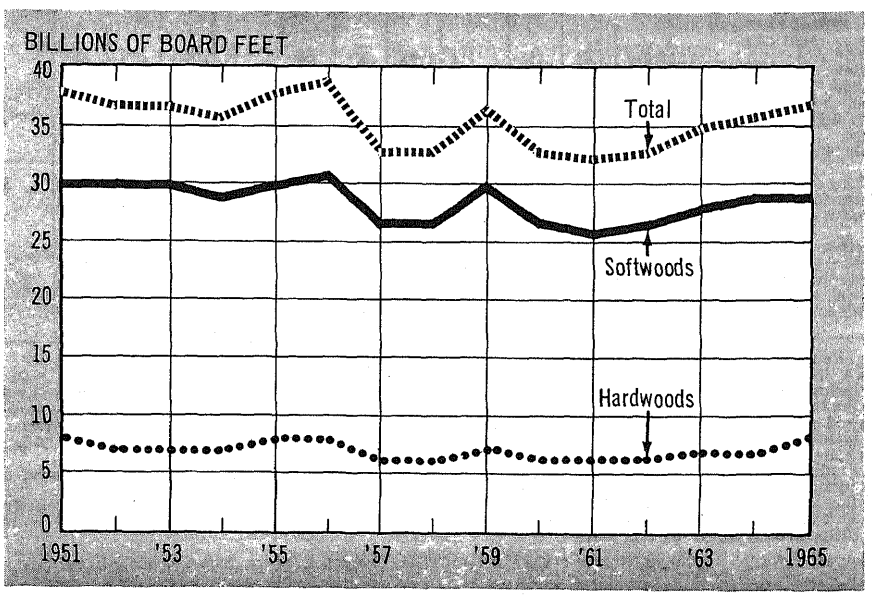
Fig. XLII. FOREST FIRES—NUMBER, BY CAUSE: 1940 TO 1964
[See table 1005]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of Agriculture, Forest Service.

Fig. XLIII. LUMBER PRODUCTION: 1950 TO 1965
[See table 1007]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from National Forest Products Association.

Section 25

Forests and Forest Products

This section presents basic statistics on the area and ownership of commercial forest land, and on the annual growth, cut, and volume of timber on this land; forestry statistics covering the national forests and Forest Service cooperative programs; product statistics for lumber, pulpwood, woodpulp, paper and paperboard, turpentine, rosin, and veneer logs; and other similar data.

The principal sources of these data are *Timber Trends in the United States*, issued in 1965 by the Forest Service of the Department of Agriculture, and *The Demand and Price Situation for Forest Products*, *National Forest Areas*, and *Forest Fire Statistics*, issued annually by the Forest Service; and reports of the quinquennial Census of Manufactures and the monthly and quarterly *Current Industrial Reports*, issued by the Bureau of the Census. Additional information in this field is published in the *Annual Report* of the National Forest Reservation Commission, the *Annual Naval Stores Report* of the Department of Agriculture's Statistical Reporting Service, the monthly *Survey of Current Business* of the Office of Business Economics, and the quarterly *National Survey of Lumber Demand and Supply* of the National Forest Products Association (formerly the National Lumber Manufacturers Association).

The Bureau of the Census also collects statistics on foreign trade of forest products. The Bureau of Labor Statistics publishes monthly and annual statistics of wholesale lumber prices. Information on the domestic movement of forest products is collected by the Interstate Commerce Commission and the Association of American Railroads.

The completeness and reliability of statistics on 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 which have not been surveyed. Estimates of fire damage or causes of fires are not completely reliable, although forest fire statistics for Federal lands are considered much better than those for private lands. In the field of forest products, much more data are available for lumber production and other manufactured products such as veneer and plywood, pulp and paper, naval stores, etc., than for the primary forest products such as poles and piling, fuelwood, and fence posts.

A historical series for production, imports, exports, and consumption of forest products is included in table 1041.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

No. 995. Forest Land Area and Ownership of Commercial Forest Land, by States: 1963

[In thousands of acres. As of January 1]

STATE	Total forest land	COMMERCIAL FOREST LAND [1]							
		All ownerships	Federally owned or managed			State, county, and municipal	Private			
			Total	National forest	Other		Total	Farm	Wood-using industries	Other
United States	758,865	508,845	113,176	96,804	16,372	28,692	366,977	151,017	66,628	149,332
The North	178,440	171,789	12,508	10,265	2,243	19,499	139,782	55,503	14,316	69,963
New England	31,886	31,451	906	831	75	905	29,640	4,727	8,104	16,809
Connecticut	1,990	1,973	1	–	1	154	1,818	349	3	1,466
Maine	17,425	17,169	66	39	27	139	16,964	1,715	6,521	8,728
Massachusetts	3,288	3,259	29	–	29	370	2,860	512	259	2,089
New Hampshire	5,019	4,907	579	569	10	118	4,210	725	793	2,692
Rhode Island	434	430	–	–	–	26	404	62	–	342
Vermont	3,730	3,713	231	223	8	98	3,384	1,364	528	1,492
Middle Atlantic	46,646	43,888	1,538	1,319	219	4,170	38,180	10,136	2,329	25,715
Delaware	392	391	1	–	1	8	382	191	124	67
Maryland	2,920	2,897	54	–	54	160	2,683	953	57	1,673
New Jersey	2,229	2,120	17	–	17	237	1,866	251	4	1,611
New York	14,450	12,002	98	–	98	797	11,107	3,011	1,172	6,924
Pennsylvania	15,186	15,089	485	450	35	2,815	11,789	2,909	442	8,438
West Virginia	11,469	11,389	883	869	14	153	10,353	2,821	530	7,002
Lake	55,211	52,392	7,554	5,933	1,621	13,687	31,151	13,931	3,196	14,024
Michigan	19,699	19,121	2,540	2,420	120	3,780	12,801	3,841	1,548	7,412
Minnesota	19,047	17,056	2,813	2,141	672	6,720	7,523	3,344	715	3,464
North Dakota	439	424	118	–	118	10	296	173	–	123
South Dakota (east)	438	395	173	–	173	21	201	201	–	–
Wisconsin	15,588	15,396	1,910	1,372	538	3,156	10,330	6,372	933	3,025
Central	44,697	44,058	2,510	2,182	328	737	40,811	26,709	687	13,415
Illinois	3,871	3,761	229	188	41	11	3,521	2,216	17	1,288
Indiana	4,018	3,960	177	112	65	117	3,666	2,883	9	774
Iowa	2,620	2,595	13	3	10	24	2,558	2,282	–	276
Kansas	1,668	1,664	1	–	1	–	1,663	1,160	–	503
Kentucky	10,891	10,840	575	438	137	77	10,188	5,188	308	4,692
Missouri	15,296	14,977	1,861	1,310	51	224	13,392	9,228	279	3,885
Nebraska	1,162	1,140	66	43	23	12	1,062	908	–	154
Ohio	5,171	5,121	88	88	–	272	4,761	2,844	74	1,843
The South	220,304	201,069	14,062	10,476	3,586	2,820	184,187	78,897	37,422	67,868
South Atlantic	48,994	47,604	3,361	2,591	770	606	43,637	29,127	8,180	6,330
North Carolina	20,862	20,216	1,247	963	284	290	18,679	13,327	4,047	1,305
South Carolina	11,640	11,559	837	543	294	176	10,546	5,637	2,503	2,406
Virginia	16,492	15,829	1,277	1,085	192	140	14,412	10,163	1,630	2,619
East Gulf	46,269	44,772	3,314	1,771	1,543	715	40,743	18,350	9,971	12,422
Florida	19,904	18,474	1,640	1,030	610	580	16,254	3,485	5,285	7,484
Georgia	26,365	26,298	1,674	741	933	135	24,489	14,865	4,686	4,938
Central Gulf	53,685	53,361	2,900	2,329	571	1,019	49,442	19,211	7,908	22,323
Alabama	21,770	21,742	799	630	169	202	20,741	7,632	4,074	9,035
Mississippi	18,008	17,976	1,267	1,108	159	452	16,257	5,834	2,888	7,535
Tennessee	13,907	13,643	834	591	243	365	12,444	5,745	946	5,753
West Gulf	71,356	55,332	4,487	3,785	702	480	50,365	12,209	11,363	26,793
Arkansas	21,591	21,530	2,641	2,373	268	205	18,684	5,613	4,028	9,043
Louisiana	16,576	16,512	704	575	129	181	15,627	2,808	3,223	9,596
Oklahoma	9,235	5,299	423	219	204	60	4,816	1,353	984	2,479
Texas	23,954	11,991	719	618	101	34	11,238	2,435	3,128	5,675
The West	360,121	135,987	86,606	76,063	10,543	6,373	43,008	16,617	14,890	11,501
Pacific Northwest	172,276	51,884	29,123	24,009	5,114	3,269	19,492	5,896	9,410	4,186
Alaska	118,487	5,761	5,585	5,304	281	146	30	–	–	30
Oregon	30,739	26,613	15,379	12,545	2,834	923	10,311	3,329	5,009	1,973
Washington	23,050	19,510	8,159	6,160	1,999	2,200	9,151	2,567	4,401	2,183
Pacific Southwest	44,523	18,480	9,162	8,656	506	681	8,637	1,952	2,945	3,740
California	42,541	17,391	9,153	8,656	497	194	8,044	1,586	2,945	3,513
Hawaii	1,982	1,089	9	–	9	487	593	366	–	227
Northern Rocky Mt	55,039	39,287	28,467	26,209	2,258	1,753	9,067	4,076	2,323	2,668
Idaho	21,815	15,823	11,817	11,310	507	940	3,066	1,229	1,204	633
Montana	22,048	17,300	11,801	10,578	1,223	639	4,860	2,002	1,047	1,811
South Dakota (west)	1,399	1,311	966	957	9	63	282	223	17	42
Wyoming	9,777	4,853	3,883	3,364	519	111	859	622	55	182
Southern Rocky Mt	88,283	26,336	19,854	17,189	2,665	670	5,812	4,693	212	907
Arizona	19,902	3,870	3,701	2,551	1,150	34	135	46	69	20
Colorado	22,583	12,275	8,907	8,384	523	235	3,133	2,649	14	470
Nevada	12,036	109	32	30	2	–	77	11	–	66
New Mexico	18,807	6,083	4,118	3,441	677	161	1,804	1,447	129	228
Utah	14,955	3,999	3,096	2,783	313	240	663	540	–	123

– Represents zero.

[1] Comprises all land which was (*a*) producing, or physically capable of producing, usable crops of wood, (*b*) economically available on date shown or prospectively, and (*c*) not withdrawn from timber utilization.

Source: Dept. of Agriculture, Forest Service; *Timber Trends in the United States*, 1965.

No. 996. Sawtimber and Growing Stock—Growth and Cut, 1962, and Volume, 1963, on Commercial Forest Land, by States

[Sawtimber comprises all live trees of commercial species which contain at least 1 saw log defined as follows: Softwoods must be at least 9.0 inches in diameter, breast height, except in California, Oregon, Washington, and coastal Alaska where the minimum diameter is 11.0 inches. Hardwoods must be at least 11.0 inches in diameter in all States. Growing stock comprises all live sawtimber trees, poletimber trees, saplings, and seedlings meeting specified standards of quality or vigor; excludes cull trees]

STATE	SAWTIMBER (mil. bd. ft. int'l ¼ inch log rule)					GROWING STOCK (mil. cu. ft.)				
	Net annual growth, 1962 [1]	Net annual cut, 1962 [2]	Net volume, 1963 [3]			Net annual growth, 1962 [1]	Net annual cut, 1962 [2]	Net volume, 1963 [3]		
			Total	Softwood	Hardwood			Total	Softwood	Hardwood
United States	54,853	48,401	2,536,799	2,058,022	478,777	16,265	10,148	627,882	434,082	193,800
The North	12,475	6,126	309,774	66,627	243,147	4,836	1,696	136,469	31,306	105,163
New England	1,967	1,348	54,428	30,368	24,060	1,002	398	30,695	16,003	14,692
Connecticut	90	42	2,277	190	2,087	42	20	1,536	117	1,419
Maine	1,069	890	31,282	20,657	10,625	575	260	17,848	11,679	6,169
Massachusetts	101	86	2,553	851	1,702	52	27	2,027	510	1,517
New Hampshire	395	191	9,011	5,859	3,152	188	50	4,679	2,537	2,142
Rhode Island	6	5	192	27	165	7	3	210	17	193
Vermont	306	134	9,113	2,784	6,329	138	38	4,395	1,143	3,252
Middle Atlantic	4,316	1,759	103,704	13,744	89,960	1,686	486	46,611	5,664	40,947
Delaware	52	31	1,255	546	709	18	8	535	238	297
Maryland	376	181	8,792	1,669	7,123	130	48	3,695	833	2,862
New Jersey	139	60	3,543	604	2,939	51	21	1,462	314	1,148
New York	1,128	469	31,983	7,009	24,974	420	127	14,147	2,757	11,390
Pennsylvania	1,254	573	27,732	2,351	25,381	547	177	14,929	955	13,974
West Virginia	1,367	445	30,399	1,565	28,834	520	105	11,843	567	11,276
Lake	2,604	1,300	59,705	18,213	41,492	1,152	469	31,896	8,350	23,546
Michigan	1,036	495	26,496	7,400	19,096	415	166	12,520	3,233	9,287
Minnesota	875	329	15,519	6,560	8,959	389	135	9,802	3,607	6,195
North Dakota	27	3	637	–	637	10	1	310	–	310
South Dakota (east)	33	6	757	52	705	12	2	398	11	387
Wisconsin	633	467	16,296	4,201	12,095	326	165	8,866	1,499	7,367
Central	3,588	1,719	91,937	4,302	87,635	996	343	27,267	1,289	25,978
Illinois	209	173	8,576	28	8,548	85	30	2,344	16	2,328
Indiana	481	188	12,565	62	12,503	117	33	3,359	33	3,326
Iowa	217	75	6,194	6	6,188	50	15	1,644	4	1,640
Kansas	142	33	4,280	10	4,270	30	7	1,158	9	1,149
Kentucky	1,396	632	29,261	2,485	26,776	365	123	8,687	671	8,016
Missouri	482	335	12,612	879	11,733	182	70	5,021	338	4,683
Nebraska	58	16	1,672	423	1,249	12	4	437	104	333
Ohio	603	267	16,777	409	16,368	155	61	4,617	114	4,503
The South	25,330	15,375	412,070	224,757	187,313	7,469	4,236	134,086	62,688	71,398
South Atlantic	6,738	4,790	117,554	54,697	62,857	2,013	1,197	40,516	17,053	23,463
North Carolina	3,208	2,004	55,443	28,006	27,437	906	489	18,701	8,445	10,256
South Carolina	1,555	1,299	24,991	13,990	11,001	492	340	8,122	4,258	3,864
Virginia	1,975	1,487	37,120	12,701	24,419	615	368	13,693	4,350	9,343
East Gulf	4,913	2,825	69,890	44,661	25,229	1,519	836	24,663	14,854	9,809
Florida	1,342	826	22,034	15,253	6,781	414	254	7,145	4,758	2,387
Georgia	3,571	1,999	47,856	29,408	18,448	1,105	582	17,518	10,096	7,422
Central Gulf	6,166	3,811	93,619	49,746	43,873	1,786	1,121	30,359	13,379	16,980
Alabama	3,297	1,687	46,602	28,307	18,295	856	524	14,448	7,673	6,775
Mississippi	1,969	1,305	26,364	17,111	9,253	611	387	8,436	4,424	4,012
Tennessee	900	819	20,653	4,328	16,325	319	210	7,475	1,282	6,193
West Gulf	7,513	3,949	131,007	75,653	55,354	2,151	1,082	38,548	17,402	21,146
Arkansas	2,369	1,607	42,348	26,363	16,985	707	424	12,702	5,909	6,793
Louisiana	2,985	1,368	52,280	25,140	27,140	839	390	15,204	5,704	9,500
Oklahoma	241	124	4,754	2,483	2,271	77	34	1,608	618	990
Texas	1,918	850	31,625	21,667	9,958	528	234	9,034	5,171	3,863
The West	17,048	26,900	1,814,955	1,766,638	48,317	3,960	4,216	357,327	340,088	17,239
Pacific Northwest	9,951	17,138	1,091,929	1,055,470	36,459	2,379	2,617	203,085	191,867	11,218
Alaska	379	618	182,555	180,930	1,625	64	97	35,064	34,718	346
Oregon	3,655	10,795	536,309	515,879	20,430	874	1,617	95,123	89,203	5,920
Washington	5,917	5,725	373,065	358,661	14,404	1,441	903	72,898	67,946	4,952
Pacific Southwest	3,527	5,923	304,634	302,298	2,336	651	947	55,518	54,861	657
California	3,527	5,920	303,912	302,298	1,614	651	947	55,298	54,861	437
Hawaii	–	3	722	–	722	(NA)	(Z)	220	–	220
Northern Rocky Mt	2,429	2,878	271,192	269,645	1,547	586	487	61,738	60,855	883
Idaho	1,212	1,435	126,801	126,484	317	283	249	26,514	26,244	270
Montana	892	1,277	112,637	111,799	838	197	206	26,770	26,486	284
South Dakota (west)	46	53	3,430	3,423	7	21	12	996	991	5
Wyoming	279	113	28,324	27,939	385	85	20	7,458	7,134	324
Southern Rocky Mt	1,141	961	147,200	139,225	7,975	344	165	36,986	32,505	4,481
Arizona	329	397	28,287	28,098	189	70	65	6,236	6,116	120
Colorado	514	230	64,258	60,477	3,781	161	43	17,337	14,897	2,440
Nevada	5	3	572	565	7	1	1	151	126	25
New Mexico	198	251	31,742	29,872	1,870	56	41	7,437	6,876	561
Utah	95	80	22,341	20,213	2,128	56	15	5,825	4,490	1,335

– Represents zero. NA Not available. Z Less than 500,000 cubic feet.

[1] Comprises natural growth and excludes catastrophic losses.

[2] Sawtimber and poletimber trees removed from inventory by harvesting, land use change, or silviculture treatment. [3] As of Jan. 1.

Source: Dept. of Agriculture, Forest Service; *Timber Trends in the United States*, 1965.

206-820 O-66—44

No. 997. Forest Land—Total and Commercial Area and Volume of Sawtimber: 1938 to 1963

[**Area in millions of acres; sawtimber in billions of board feet.** As of January 1. Prior to 1963, excludes Alaska and Hawaii, except total forest land and all ownership in 1953. Net volume of sawtimber also includes Alaska for 1953. For composition of regions, see table 995]

Year and region	Total forest land	Commercial forest land [1]						
		Land area				Net volume of sawtimber [2]		
		All ownerships	Federally owned or managed	State, county, and municipal	Private	Total	Softwood	Hardwood
United States, 1938	630	462	[3] 121	(3)	341	1,764	1,493	271
United States, 1945	624	461	89	27	345	1,601	1,296	305
The North	212	170	11	19	140	220	66	155
The South	187	183	14	2	167	338	194	144
The West	225	107	64	6	38	1,043	1,037	6
United States, 1953	772	530	99	27	358	2,057	1,648	409
The North	199	174	13	19	142	266	59	207
The South	197	193	14	2	177	357	183	174
The West	376	163	72	5	40	1,434	1,406	28
United States, 1963	759	509	113	29	367	2,537	2,058	479
The North	178	172	13	19	140	310	67	243
The South	220	201	14	3	184	412	225	187
The West	360	136	87	6	43	1,815	1,767	48

[1] See footnote 1, table 995. [2] See headnote, table 996. [3] Included with Federally owned or managed.
Source: Dept. of Agriculture, Forest Service: *A Reappraisal of the Forest Situation, Timber Trends in the United States, 1965*, and *Timber Resources for America's Future.*

No. 998. National Forests—Summary: 1940 to 1965

[**Money figures in thousands of dollars.** For years ending June 30, except as noted. Includes Alaska and Puerto Rico, except as noted. See *Historical Statistics, Colonial Times to 1957*, series J 41-42, for similar but not exactly comparable data, and L 7-22]

Item	1940	1950	1955	1960	1962	1963	1964	1965
Livestock grazing:[1]								
Cattle, horses, and swine [2] ... 1,000	1,314	1,128	1,148	1,307	1,307	1,339	1,360	1,376
Sheep and goats ... 1,000	4,968	3,013	2,830	2,574	2,367	2,280	2,204	2,112
Roads and trails:								
Road construction ... miles	[3] 1,709	213	767	477	305	548	744	1,613
Road reconstruction ... miles	[3] 1,945	240		374	306	602	780	
Trail construction and reconstr ... miles	2,221	828	184	142	181	336	525	671
Expenditures (maint. and constr.)	[3] 23,511	15,036	29,413	43,151	47,430	60,601	77,249	105,472
Timber cut, total value	5,168	31,140	71,231	157,094	129,654	135,173	151,880	161,880
Commercial and cost sales:								
Volume ... mil. bd. ft	1,371	3,195	6,225	9,302	8,946	9,957	10,911	11,229
Value [4]	3,825	29,084	70,105	156,132	128,514	134,148	150,712	160,809
Land exchanges:								
Volume ... mil. bd. ft	369	307	103	65	86	69	43	15
Value	982	1,630	656	292	392	258	363	297
Free use:								
Volume ... mil. bd. ft	326	121	106	123	149	164	186	191
Value [5]	304	215	204	216	226	253	276	280
Misc. forest products, value	57	211	266	454	522	514	529	494
Receipts, total [6]	5,859	34,485	79,521	146,348	112,661	124,512	135,722	147,411
Timber use [6]	3,943	30,269	75,044	139,903	106,159	117,388	127,960	138,769
Grazing use	1,463	3,385	2,953	3,665	3,196	3,386	3,182	3,040
Special land use, water power, etc	453	831	1,524	2,780	3,306	3,738	4,580	5,602
Payments to States and Puerto Rico [7]	1,456	8,478	19,573	35,672	27,441	30,225	33,083	35,757
25-percent fund	1,433	8,363	19,413	35,222	27,077	29,789	32,608	35,295
Ariz. and N. Mex. school fund	23	72	114	140	80	100	108	112
Minnesota	–	44	46	123	125	131	138	141
Alaska (Tongass suspense account) [8]	(NA)	(NA)	(NA)	187	159	205	229	210
Allotments to Forest Service [9]	678	3,484	7,776	14,176	10,930	12,061	13,187	14,255
Roads and trails (10 percent)	573	3,346	7,766	14,166	10,900	12,001	13,141	14,204
Acquisition of lands	105	138	10	10	30	60	46	51

– Represents zero. NA Not available.
[1] Number permitted to graze. Beginning 1960, figures include national grasslands and land utilization project lands. Calendar-year data. Excludes Puerto Rico.
[2] Excludes animals under 6 months of age. [3] Includes forest highway construction.
[4] Beginning 1960, includes collections for forest restoration or improvement under the Knutson-Vandenberg Act, 1930. [5] Includes some free use timber not reducible to board feet.
[6] Beginning 1950, includes Oregon, California railroad grant lands, and Tongass (Alaska) national forest lands.
[7] Payments made in following year. See headnote, table 1002. [8] Total for 1948 through 1956 was $597,133.
[9] For use in following year.

Source: Dept. of Agriculture, Forest Service. In annual report, *Agricultural Statistics*, and unpublished data.

No. 999. National Forest Areas and Purchases: 1940 to 1965

[Area as of June 30, purchases for years ending June 30. Includes Puerto Rico. Lands to be purchased must be approved by National Forest Reservation Commission, which also sets prices at which such lands may be acquired. Actual purchases are made by Department of Agriculture. See also *Historical Statistics, Colonial Times to 1957*, series L 1-5]

ITEM	1940	1950	1955	1960	1962	1963	1964	1965
AREAS[1]								
Gross area within established boundaries ..... mil. acres	228	229	236	227	226	226	226	226
Under Forest Service administration ..... mil. acres	177	181	188	186	186	186	186	187
PURCHASES								
Gross area approved for purchase ..... acres	553,077	61,078	18,665	7,845	22,556	24,698	40,873	28,507
Average price per acre	$3.98	$8.71	$10.30	$14.76	$42.74	$72.69	$39.14	$46.67
Total price $1,000	2,203	532	192	114	964	1,795	1,600	1,331
Purchase completed ..... acres	659,572	96,963	12,063	7,547	10,860	12,001	23,661	33,239
Average price per acre	$4.14	$7.28	$12.23	$31.21	$34.72	$90.23	$58.83	$38.97
Total price $1,000	2,733	706	148	237	377	1,083	1,392	1,295

[1] See headnote, table 1001.

Source: Dept. of Agriculture, Forest Service; annual report, *National Forest Areas*, and National Forest Reservation Commission; *Annual Report*.

No. 1000. National Forest Land Purchases—States and Puerto Rico: Cumulative to June 30, 1965

[Under Act of Mar. 1, 1911, as amended by Act of June 7, 1924, and other related acts. See headnote, table 999]

STATE OR OTHER AREA	Gross area[1] (1,000 acres)	TOTAL NET AREA APPROVED FOR PURCHASE			NET AREA PURCHASED		
		Acres (1,000)	Average price per acre	Total price ($1,000)	Acres (1,000)	Average price per acre	Total price ($1,000)
Total	**55,551**	**19,032**	**$4.23**	**80,439**	**19,000**	**$4.16**	**79,047**
Alabama	1,252	504	3.67	1,851	504	3.67	1,851
Arkansas	3,431	1,217	3.31	4,025	1,213	3.23	3,918
California	2,884	153	9.10	1,393	153	9.00	1,377
Florida	1,223	783	3.21	2,513	783	3.21	2,513
Georgia	1,535	605	5.28	3,188	605	5.24	3,167
Idaho	727	37	3.56	131	37	3.56	131
Illinois	809	200	6.73	1,343	198	6.59	1,306
Indiana	723	119	8.42	999	117	8.03	939
Iowa	5	5	9.11	43	5	9.11	43
Kentucky	2,003	461	4.18	1,930	461	4.16	1,916
Louisiana	957	552	2.99	1,651	552	2.99	1,651
Maine	93	50	6.60	327	50	6.60	327
Michigan	4,771	1,903	3.27	6,224	1,901	3.22	6,131
Minnesota	5,042	1,612	5.13	8,267	1,609	4.86	7,813
Mississippi	2,090	1,005	3.56	3,575	1,005	3.55	3,566
Missouri	3,008	1,333	2.70	3,603	1,329	2.44	3,238
Nevada	3,835	19	9.49	183	19	9.49	183
New Hampshire	803	676	7.76	5,246	676	7.76	5,246
New Mexico	93	21	1.92	40	21	1.92	40
North Carolina	3,163	1,036	5.20	5,384	1,036	5.20	5,384
North Dakota	1	(Z)	10.00	5	(Z)	10.00	5
Ohio	1,455	113	8.04	906	110	7.76	854
Oklahoma	258	186	2.43	450	186	2.43	450
Oregon	70	52	17.03	894	52	17.03	894
Pennsylvania	726	472	6.34	2,994	471	6.29	2,962
South Carolina	1,374	563	6.26	3,527	563	6.25	3,518
Tennessee	1,212	566	4.56	2,581	565	4.55	2,573
Texas	1,182	653	4.62	3,017	653	4.62	3,017
Utah	2,993	152	4.52	689	149	4.28	637
Vermont	629	229	9.33	2,138	229	9.29	2,126
Virginia	3,221	1,465	3.43	5,018	1,462	3.40	4,973
West Virginia	1,825	906	3.43	3,106	906	3.43	3,105
Wisconsin	1,974	1,369	2.19	2,999	1,368	2.19	2,995
Puerto Rico	186	14	13.94	196	14	13.94	196

Z Less than 500 acres.
[1] See headnote, table 1001.

Source: National Forest Reservation Commission; *Annual Report*.

No. 1001. National Forest and Other Areas—States and Puerto Rico: 1965

[**In thousands of acres.** As of June 30. Gross area comprises all publicly and privately owned land within authorized boundaries of national forests, purchase units, experimental areas, and land utilization projects. See *Historical Statistics, Colonial Times to 1957*, series L 1-2, for gross area and area under Forest Service]

STATE OR OTHER AREA	Gross area	Under Forest Service administration	Not under Forest Service administration
Total	226,434	186,577	39,857
Alabama	1,271	632	639
Alaska	20,777	20,742	35
Arizona	12,105	11,422	683
Arkansas	3,663	2,433	1,229
California	24,201	19,993	4,208
Colorado	15,862	14,352	1,510
Florida	1,225	1,075	150
Georgia	1,912	790	1,121
Idaho	21,628	20,347	1,281
Illinois	809	214	595
Indiana	726	133	594
Kansas	107	107	–
Kentucky	2,003	464	1,538
Louisiana	1,017	592	425
Maine	94	50	44
Massachusetts	2	2	–
Michigan	4,778	2,594	2,183
Minnesota	5,042	2,799	2,244
Mississippi	2,312	1,134	1,177
Missouri	3,021	1,381	1,639
Montana	19,057	16,640	2,417
Nebraska	431	340	91
Nevada	5,400	5,063	337
New Hampshire	805	678	127
New Mexico	10,141	9,088	1,053
New York	14	14	–
North Carolina	3,164	1,125	2,038
North Dakota	1,105	1,105	–
Ohio	1,455	115	1,340
Oklahoma	459	276	183
Oregon	17,294	15,471	1,823
Pennsylvania	727	479	248
South Carolina	1,374	589	786
South Dakota	2,272	1,988	283
Tennessee	1,213	602	611
Texas	1,834	775	1,059
Utah	9,085	8,010	1,075
Vermont	629	233	396
Virginia	3,226	1,469	1,757
Washington	10,742	9,707	1,035
West Virginia	1,825	907	918
Wisconsin	1,974	1,471	503
Wyoming	9,598	9,146	452
Puerto Rico	56	28	28

– Represents zero.

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

No. 1002. Payments to States and Puerto Rico From Receipts of National Forests: 1950 to 1966

[**In thousands of dollars.** For years ending June 30. Payments are 25 percent of net receipts collected during the preceding fiscal year from sales of timber, grazing fees, and miscellaneous uses of national forests under Act of May 23, 1908, exclusive of (*a*) payments to Arizona and New Mexico on account school-section lands administered by Forest Service, (*b*) payments for acquisition of land, and (*c*) payments to Minnesota of ¾ percent of the appraised valuation of an area of the Superior National Forest, in lieu of 25 percent of the receipts from it]

STATE OR OTHER AREA	1950	1960	1965	1966
Total	7,753	29,669	32,837	35,504
Alabama	90	320	218	261
Alaska	5	[1] 158	[1] 237	[1] 217
Arizona	244	457	445	462
Arkansas	375	940	748	809
California	1,146	3,980	5,190	5,061
Colorado	218	428	212	196
Florida	66	226	273	185
Georgia	81	237	258	247
Idaho	418	1,281	1,135	1,055
Illinois	17	12	19	22
Indiana	2	5	10	5
Kentucky	25	67	92	88
Louisiana	101	298	246	258
Maine	6	4	5	5
Michigan	65	171	223	170
Minnesota	68	141	98	113
Mississippi	197	670	691	782
Missouri	25	53	79	103
Montana	251	888	1,011	1,146
Nebraska	12	15	15	14
Nevada	39	56	43	40
New Hampshire	23	56	69	73
New Mexico	124	255	172	180
North Carolina	85	233	195	200
Ohio	3	6	12	10
Oklahoma	40	103	102	108
Oregon	2,045	11,207	13,654	15,615
Pennsylvania	14	114	216	261
South Carolina	100	443	421	523
South Dakota	57	114	57	65
Tennessee	40	192	89	85
Texas	263	630	481	590
Utah	129	150	123	111
Vermont	26	33	69	95
Virginia	38	66	102	116
Washington	1,108	5,243	5,442	5,685
West Virginia	29	116	137	289
Wisconsin	66	88	119	134
Wyoming	109	211	127	123
Puerto Rico	3	2	2	2

[1] Includes 25 percent of Tongass (Alaska) suspense account receipts as follows: For 1960, $146,986; 1965, $228,953; and 1966, $209,852.

Source: Dept. of Agriculture, Forest Service; unpublished data.

No. 1003. Forest Tree Distribution Program and Costs: 1930 to 1965

[For years ending June 30, except calendar-year data for trees distributed, 1930 to 1948. Excludes Alaska; includes Puerto Rico]

YEAR	Trees distributed (1,000)	COSTS ($1,000)			YEAR	Trees distributed (1,000)	COSTS ($1,000)		
		Total	Federal contribution	State expenditure			Total	Federal contribution	State expenditure
1930	25,836	403	81	322	1955	496,571	3,929	372	3,557
1935	26,150	206	55	151	1956	560,456	4,770	429	4,341
1940	87,468	482	98	384	1957	712,272	5,769	820	4,949
1945	37,743	572	114	458	1958	764,364	7,365	1,131	6,234
1948	77,324	1,178	113	1,065	1959	945,464	6,949	658	6,291
1949	102,903	1,406	113	1,293	1960	844,599	6,573	186	6,387
1950	136,395	1,503	189	1,314	1961	774,159	7,135	194	6,941
1951	291,875	3,021	377	2,644	1962	679,968	6,748	195	6,553
1952	299,665	3,658	376	3,282	1963	587,647	6,543	234	6,309
1953	434,982	3,988	386	3,602	1964	535,429	7,453	229	7,224
1954	465,639	4,029	383	3,646	1965	508,651	6,865	216	6,649

Source: Dept. of Agriculture, Forest Service. In annual report *Agricultural Statistics*.

No. 1004. Forest Fires—Number, and Area Burned Over on Federal and on State and Private Forest Lands: 1940 to 1965

[**Area in thousands of acres.** For years ending December 31. See also *Historical Statistics, Colonial Times to 1957*, series L 100-105]

YEAR	FEDERAL LANDS, PROTECTED AREA [1]			STATE AND PRIVATE FORESTS [2]					
				On protected area			*On unprotected area*		
	Forest area	Number of fires	Area burned over	Forest area	Number of fires	Area burned over	Forest area	Number of fires	Area burned over
1940	153,723	14,076	482	281,706	73,527	2,934	146,749	107,824	22,432
1945	213,210	8,539	445	302,942	48,176	2,456	126,959	68,013	14,780
1950	212,622	8,418	391	360,564	96,578	3,407	66,130	103,404	11,720
1951	212,502	8,638	471	363,414	97,230	3,055	63,280	58,222	7,255
1952	212,518	9,634	281	368,692	118,363	6,347	58,002	60,280	7,559
1953	212,394	10,149	318	373,826	94,446	2,534	52,868	49,565	7,124
1954	217,850	8,592	176	382,387	118,681	2,787	48,722	49,614	5,830
1955	216,728	6,830	364	387,156	80,774	2,448	43,953	57,576	4,976
1956	217,108	11,341	372	389,924	82,997	1,613	41,185	49,147	4,621
1957	217,518	6,219	188	395,864	59,483	1,099	38,906	17,690	2,123
1958	215,828	12,942	288	398,306	67,366	1,173	36,464	17,602	1,819
1959	360,346	8,935	897	400,679	77,802	1,681	34,091	17,925	1,577
1960	362,836	12,090	622	402,800	77,537	1,909	32,030	13,760	1,947
1961	323,851	14,122	303	412,008	72,247	1,125	30,306	12,148	1,608
1962	356,333	10,421	270	418,483	94,487	1,645	24,447	10,437	2,163
1963	356,674	11,493	209	431,334	134,427	3,108	21,767	18,263	3,804
1964	[3] 653,691	[4] 8,877	194	[5] 446,420	90,480	1,670	32,003	17,001	2,333
1965	655,001	9,073	147	[5] 472,018	91,495	1,206	30,299	13,116	1,300

[1] Prior to 1952, excludes Hawaii, and 1959, Alaska; comprises national forests, public domain, land administered by Dept. of the Interior, Soil Conservation Service, TVA, etc.
[2] Prior to 1960, excludes Alaska. 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.
[3] Includes 298,107,000 acres of nonforest watershed areas under Dept. of the Interior protection.
[4] Excludes an area burned on the acreage shown in footnote 3.
[5] For 1964, includes 20,525,000 acres of State and privately owned nonforest watershed areas, and for 1965, 51,092,000 acres.

Source: Dept. of Agriculture, Forest Service; annual report, *Forest Fire Statistics*, and unpublished data.

No. 1005. Forest Fires—Number of Fires, by Cause, and Expenditures for Control of Fires on Federal, State, and Private Forest Lands: 1940 to 1965

[See *Historical Statistics, Colonial Times to 1957*, series L 106–109, for expenditures]

ITEM	1940	1950	1955	1960	1962	1963	1964	1965
NUMBER AND CAUSE OF FIRES [1]								
Total	**87,603**	**105,182**	**87,688**	**89,627**	**104,908**	**145,920**	**99,357**	**100,568**
Lightning	10,913	6,518	6,282	11,068	10,596	11,565	7,887	8,730
Campfires	4,956	3,802	3,924	3,614	3,304	4,218	3,954	3,404
Smoking	21,066	18,287	15,882	16,030	17,766	24,521	15,455	16,517
Debris burning	13,307	18,768	20,338	21,870	26,378	38,756	26,252	22,882
Incendiary	22,701	40,127	25,775	21,162	29,180	41,429	25,431	26,860
Machine use	(NA)	(NA)	(NA)	(NA)	6,237	8,208	8,353	6,734
Miscellaneous [2]	14,660	17,680	15,487	15,883	11,447	17,223	12,025	15,441
EXPENDITURES [3] ($1,000)								
Total	**9,188**	**28,934**	**39,216**	**56,641**	**64,314**	**65,828**	**72,411**	**75,627**
Federal	1,988	8,551	8,945	9,401	11,675	11,632	11,589	11,848
State and county	5,155	18,121	28,168	45,059	51,194	52,586	59,751	62,612
Private agencies	2,045	2,262	2,103	2,181	1,445	1,610	1,071	1,167

NA Not available. [1] Includes fires on protected forest land only. For 1940, excludes Alaska.
[2] Prior to 1962, lumbering and railroads included in "Miscellaneous"; thereafter, in various other classifications as applicable.
[3] For years ending June 30. For 1940 to 1960, excludes Alaska.

Source: Dept. of Agriculture, Forest Service; annual report, *Forest Fire Statistics*.

No. 1006. Lumber Production, by Kind of Wood: 1950 to 1964

[**In millions of board feet, lumber tally.** Prior to 1961, excludes Alaska and Hawaii. Based on sample surveys; see source for sampling reliability. See also *Historical Statistics, Colonial Times to 1957*, series L 45–60]

KIND OF WOOD	1950	1955	1958	1959	1960	1961	1962	1963	1964 (prel.)
Total	**38,007**	**37,380**	**33,385**	**37,166**	**32,926**	**32,019**	**33,178**	**34,706**	**36,559**
Softwoods	**30,633**	**29,815**	**27,379**	**30,509**	**26,672**	**26,066**	**26,819**	**27,552**	**29,284**
Cedar	[1] 313	(S)	[1] 507	(S)	(S)	561	603	556	651
Douglas fir	9,984	10,414	9,329	10,265	8,832	8,378	8,504	8,353	8,868
Hemlock	1,508	1,568	1,386	1,658	2,032	2,031	2,279	2,486	2,490
Larch	246	346	541	672	418	441	443	390	431
Ponderosa pine	3,865	3,663	3,233	3,374	3,169	3,127	3,275	3,516	3,729
Redwood	875	991	917	1,221	1,000	1,011	1,024	1,138	1,199
Southern yellow pine	9,939	7,360	6,420	6,716	5,660	5,622	5,740	6,055	6,414
Engelmann and sitka	(NA)	(NA)	563	(S)	471	553	583	529	626
Sugar pine	425	390	385	432	408	392	413	463	467
White fir	1,114	2,059	2,475	2,838	2,224	2,216	2,234	2,158	2,540
White pine	1,292	1,105	(S)	(S)	(S)	(S)	(S)	[2] 933	[2] 1,135
Other softwoods	1,072	777	871	1,127	675	606	589	975	734
Hardwoods [3]	**7,374**	**7,565**	**6,006**	**6,657**	**6,254**	**5,953**	**6,359**	**7,154**	**7,275**
Ash	81	125	114	142	125	103	105	143	136
Basswood	([4])	119	101	101	92	63	66	92	69
Beech	325	226	198	190	195	166	169	166	176
Birch	137	144	[2] 159	145	126	103	89	107	121
Cottonwood [5]	225	327	176	149	206	167	178	192	205
Elm	([4])	198	160	162	195	181	186	200	204
Maple	546	568	572	450	602	526	522	556	642
Oak	3,347	3,716	2,882	3,369	2,789	2,817	3,068	3,170	3,417
Sweet (red and sap) gum	758	529	412	432	331	316	328	418	380
Tupelo and black gum	342	364	347	294	292	281	268	398	381
Yellow poplar	833	690	615	655	592	541	617	644	645
Other hardwoods	780	559	270	508	593	564	620	1,068	899

NA Not available. S Suppressed; standard error more than 15 percent.
[1] Incense, Port Orford, and western red cedar only; eastern red cedar included in "Other softwoods."
[2] Standard error more than 15 percent. [3] Beginning 1959, includes estimate for western hardwoods, not reported by species.
[4] Included in "Other hardwoods." [5] Includes aspen.

Source: Dept. of Commerce, Bureau of the Census; reports of Census of Manufactures and *Current Industrial Reports*, Series M24T.

No. 1007. Lumber Production, Consumption, Stocks, Exports, and Imports: 1950 to 1965

[**In millions of board feet, except ratios.** Excludes Alaska, Hawaii, and Puerto Rico, except as noted. See *Historical Statistics, Colonial Times to 1957*, series L 23-35, for series from Bureau of the Census and Forest Service]

ITEM	1950	1955	1960	1962	1963	1964 (prel.)	1965 (prel.)
Production [1]	38,902	37,858	32,926	33,178	34,706	36,559	36,895
Softwoods	31,528	30,293	26,672	26,819	27,552	29,284	29,240
Hardwoods	7,374	7,565	6,254	6,359	7,154	7,275	7,655
Domestic consumption [2]	41,627	41,088	35,226	37,546	39,016	41,094	42,064
Softwoods	34,277	32,830	28,974	31,060	31,915	33,176	33,645
Hardwoods	7,350	8,258	6,252	6,486	7,101	7,918	8,419
Gross mill stocks, end of year	6,183	8,669	7,352	6,598	6,587	6,434	5,708
Softwoods	4,207	5,386	5,285	4,851	4,616	4,898	4,552
Hardwoods	1,976	3,283	2,067	1,747	1,971	1,536	1,156
Ratio of total mill stocks to total consumption, percent	15	21	21	18	17	16	14
Softwoods	12	16	18	16	14	15	14
Hardwoods	27	40	33	27	28	19	14
Exports [3]	518	844	861	760	875	956	922
Softwoods	407	652	688	621	740	797	777
Hardwoods	111	189	173	139	135	159	145
Imports [3]	3,432	3,597	3,922	4,880	5,335	5,222	5,233
Softwoods	3,140	3,327	3,631	4,571	5,027	4,913	4,895
Hardwoods	283	266	291	309	308	309	338

[1] Beginning 1962, includes Alaska. [2] Represents shipments and net imports.
[3] Includes box shooks and railroad ties (sawed). Includes Alaska, Hawaii, and Puerto Rico.

Source: Compiled by Mackay-Shields Economics, Inc., New York, N.Y., from data supplied by National Forest Products Association, Washington, D.C.

No. 1008. Lumber Production, by Geographic Divisions: 1962 to 1964

[**Production in millions of board feet, lumber tally.** Data shown for all divisions except the Mountain and Pacific are based in part on a sample of sawmills and are estimates which may vary from the figures which would be obtained from a complete census. See figure I, p. XII, for States comprising geographic divisions. See *Historical Statistics, Colonial Times to 1957*, series L 36-44, for data by regions]

GEOGRAPHIC DIVISION	1962			1963			1964 (prel.)		
	Production	Percent	Standard error [1] (percent)	Production	Percent	Standard error [1] (percent)	Production	Percent	Standard error [1] (percent)
United States	**33,178**	**100.0**	(2)	**34,706**	**100.0**	(2)	**36,559**	**100.0**	(2)
New England	672	2.0	(2)	609	1.8	(2)	678	1.8	(2)
Middle Atlantic	730	2.2	(3)	870	2.5	(2)	857	2.3	(3)
East North Central	956	2.9	(2)	1,173	3.4	(4)	1,198	3.3	(2)
West North Central	528	1.6	(3)	503	1.4	(4)	540	1.5	(4)
South Atlantic	4,588	13.8	(2)	5,241	15.1	(2)	5,147	14.1	(2)
East South Central	2,975	9.0	(2)	2,912	8.4	(2)	3,186	8.7	(2)
West South Central	2,849	8.6	(2)	3,083	8.9	(2)	3,209	8.8	(2)
Mountain	3,621	10.9	(2)	3,791	10.9	(2)	4,104	11.2	(2)
Pacific	16,259	49.0	(2)	16,524	47.6	(2)	17,640	48.3	(2)

[1] See Technical Note, p. 765, for explanation of standard error.
[2] Standard error of estimate 5 percent or less.
[3] Standard error of estimate more than 5 percent but not exceeding 10 percent.
[4] Standard error of estimate more than 10 percent but not exceeding 15 percent.

Source: Dept. of Commerce, Bureau of the Census; reports of Census of Manufactures and *Current Industrial Reports*, Series M24T.

No. 1009. Lumber—Establishments and Production, by Production Size-Classes: 1960 to 1964

[Production in millions of board feet, lumber tally. 1960, excludes Alaska and Hawaii. Based on sample surveys; see source for sampling variability]

SIZE-CLASS (in 1,000 bd. ft. of production)	NUMBER OF ESTABLISHMENTS				PRODUCTION			
	1960	1962	1963	1964 (prel.)	1960	1962	1963	1964 (prel.)
Total	[1] 33,343	[2] 32,916	12,337	[2] 11,681	32,926	33,178	34,706	36,559
Less than 999	[3] 29,017	[2] 28,835	8,037	[2] 7,433	[2] 4,343	4,254	3,768	4,416
1,000 to 2,999	2,588	2,446	2,436	2,433	4,466	4,265	4,099	4,052
3,000 to 4,999	566	470	590	520	2,212	1,913	2,269	1,954
5,000 to 9,999	532	508	546	575	3,796	3,922	3,816	3,658
10,000 to 14,999	[2] 239	211	211	216	3,000	2,746	2,541	2,626
15,000 to 24,999	166	192	233	217	3,219	3,886	4,384	4,309
25,000 to 49,999	169	180	199	196	6,057	6,163	7,124	7,227
50,000 and over	66	74	85	91	5,833	6,029	6,705	8,317

[1] Standard error of estimate is more than 10 percent but not exceeding 15 percent.
[2] Standard error of estimate is more than 5 percent but not exceeding 10 percent.
[3] Standard error of estimate is 16 percent.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M24T.

No. 1010. Roundwood Products—Softwoods and Hardwoods, by Regions: 1962

[In thousands of cubic feet. For States represented in regions shown, see table 995]

REGION	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods
	ALL PRODUCTS			SAW LOGS			VENEER		
U.S.	10,319,884	7,264,259	3,055,625	5,270,565	4,223,526	1,047,039	857,095	708,278	148,817
The North	1,952,062	574,171	1,377,891	638,125	191,907	446,218	39,806	245	39,561
New England	394,746	264,309	130,437	124,570	102,750	21,820	12,901	217	12,684
Middle Atlantic	559,145	124,880	434,265	188,710	39,335	149,375	8,840	3	8,837
Lake	562,635	162,851	399,784	126,525	37,193	89,332	8,337	24	8,313
Central	435,536	22,131	413,405	198,320	12,629	185,691	9,728	1	9,727
The South	4,177,319	2,569,684	1,607,635	1,676,358	1,097,018	579,340	111,911	2,724	109,187
South Atlantic	1,275,527	798,115	477,412	584,442	379,959	204,483	41,176	1,899	39,277
East Gulf	833,501	678,018	155,483	246,038	193,548	52,490	31,276	646	30,630
Central Gulf	1,021,380	498,533	522,847	387,205	213,092	174,113	24,354	128	24,226
West Gulf	1,046,911	595,018	451,893	458,673	310,419	148,254	15,105	51	15,054
The West	4,190,503	4,120,404	70,099	2,956,082	2,934,601	21,481	705,378	705,309	69
Pacific Northwest	2,747,333	2,692,980	54,353	1,691,345	1,674,345	17,000	601,000	601,000	-
Pacific Southwest	822,083	812,739	9,344	721,378	719,387	1,991	85,616	85,588	28
Northern Rocky Mt.	451,834	450,440	1,394	406,899	405,581	1,318	18,762	18,721	41
Southern Rocky Mt.	169,253	164,245	5,008	136,460	135,288	1,172	-	-	-
	PULPWOOD			MISCELLANEOUS INDUSTRIAL			FUELWOOD		
U.S.	2,603,101	1,885,829	717,272	465,403	238,717	226,686	1,123,720	207,909	915,811
The North	596,176	309,845	286,331	178,172	39,710	138,462	499,783	32,464	467,319
New England	196,770	148,880	47,890	4,540	3,338	1,202	55,965	9,124	46,841
Middle Atlantic	117,340	47,250	70,090	73,154	20,547	52,607	171,101	17,745	153,356
Lake	240,517	109,963	130,554	45,964	11,376	34,588	141,292	4,295	136,997
Central	41,549	3,752	37,797	54,514	4,449	50,065	131,425	1,300	130,125
The South	1,621,497	1,231,275	390,222	206,319	120,413	85,906	561,234	118,254	442,980
South Atlantic	426,713	308,210	118,503	32,462	24,275	8,187	190,734	83,772	106,962
East Gulf	486,628	437,998	48,630	33,627	29,082	4,545	35,932	16,744	19,188
Central Gulf	387,629	243,872	143,757	69,294	28,769	40,525	152,898	12,672	140,226
West Gulf	320,527	241,195	79,332	70,936	38,287	32,649	181,670	5,066	176,604
The West	385,428	344,709	40,719	80,912	78,594	2,318	62,703	57,191	5,512
Pacific Northwest	360,974	323,974	37,000	54,066	54,004	62	39,948	39,657	291
Pacific Southwest	4,048	464	3,584	6,365	6,209	156	4,676	1,091	3,585
Northern Rocky Mt.	12,202	12,202	-	13,135	13,103	32	836	833	3
Southern Rocky Mt.	8,204	8,069	135	7,346	5,278	2,068	17,243	15,610	1,633

- Represents zero.

Source: Dept. of Agriculture, Forest Service; *Timber Trends in the United States*, 1965.

No. 1011. Stumpage and Lumber Prices for Selected Species: 1940 to 1965

[In dollars per 1,000 board feet. See also *Historical Statistics, Colonial Times to 1957*, series L 85-91]

YEAR	STUMPAGE PRICES				Douglas-fir lumber prices (wholesale)
	Douglas-fir	Southern pine	Sugar pine	Ponderosa pine	
1940	2.30	4.50	3.00	2.20	22.20
1950	16.40	26.70	25.00	18.30	73.30
1955	28.90	32.00	30.00	26.10	80.90
1960	32.00	34.50	29.00	19.10	75.00
1961	27.60	26.80	18.40	12.10	71.30
1962	24.80	26.00	20.00	16.10	73.30
1963	27.90	25.10	19.20	15.80	74.60
1964	38.10	27 80	23.30	19.00	76.00
1965 (prel.)	42.60	31.70	23.30	19.80	76.10

Source: Dept. of Agriculture, Forest Service. In annual report, *Agricultural Statistics*.

No. 1012. Industrial Timber Products From Roundwood—Summary: 1940 to 1965

[In millions of cubic feet. Excludes Alaska and Hawaii, except as noted. Excludes fuelwood. See also *Historical Statistics, Colonial Times to 1957*, series L 72-84]

ITEM	1940	1950	1959	1960	1961	1962	1963	1964	1965 (prel.)
Total:									
Domestic production	6,975	8,520	9,330	8,860	8,650	8,970	9,320	9,910	10,170
Net imports	400	1,355	1,425	1,300	1,365	1,555	1,595	1,615	1,725
New supply	7,375	9,960	10,815	10,110	10,070	10,540	10,950	11,510	11,895
Saw logs:									
Domestic production	4,845	5,905	5,745	5,080	4,945	5,120	5,335	5,640	5,820
Net imports	[1] 35	455	515	480	545	645	695	665	675
New supply [2]	4,810	6,360	6,260	5,560	5,485	5,765	6,050	6,305	6,495
Veneer logs:									
Domestic production	235	345	720	705	765	800	870	955	1,015
Net imports	[1] 5	10	115	90	100	130	150	175	200
New supply	230	355	835	800	860	930	1,015	1,125	1,215
Pulpwood: [2]									
Domestic production	930	1,500	2,330	2,565	2,450	2,585	2,635	2,855	2,875
Net imports	440	890	795	730	720	780	750	775	850
New supply [3]	1,370	2,475	3,185	3,240	3,235	3,380	3,425	3,620	3,725
Other products, new supply [4]	965	770	535	510	490	465	460	460	460

[1] Net exports. [2] Includes Alaska.
[3] Beginning 1950, includes changes in stocks.
[4] Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc.

Source: Dept. of Agriculture, Forest Service; *The Demand and Price Situation for Forest Products*.

No. 1013. Selected Timber Products—Wholesale Price Indexes: 1940 to 1965

[1957-59=100. Prior to 1961, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series L 92-96, for indexes on 1947-49 base]

YEAR	Lumber	Plywood [1]	Woodpulp	Paper	Paperboard
1940	28.0	38.5	42.1	44.3	35.7
1945	42.2	48.0	52.7	50.5	47.4
1950	93.9	122.9	79.4	74.7	77.1
1955	102.4	116.4	93.8	91.1	93.3
1960	99.8	90.6	100.2	102.0	99.4
1961	94.7	87.6	95.0	102.2	92.5
1962	96.5	84.1	93.2	102.6	93.1
1963	98.9	87.7	91.7	102.4	94.7
1964	100.7	85.3	96.1	103.6	96.4
1965	101.9	85.1	98.1	104.1	96.4

[1] Softwood plywood, interior grade A-D.

Source: Dept. of Labor, Bureau of Labor Statistics. Current data in *Monthly Labor Review*.

No. 1014. Millwork, Wood Products, and Paints—Production: 1950 to 1965

ITEM	1950	1955	1960	1963	1964	1965 (prel.)
Hardwood flooring ... mil. bd. ft.	1,077	1,268	915	866	871	808
Softwood plywood [1] ... mil. sq. ft., 3/8" basis	2,676	5,284	7,759	10,375	11,455	12,370
Insulation boards ... 1,000 tons	838	1,100	1,098	1,139	1,215	1,268
Hardboard ... 1,000 tons	381	530	686	959	1,048	1,010
Particleboard ... mil. sq. ft., 3/4" basis	(NA)	78	268	496	638	785
Ponderosa pine doors [2] ... 1,000 units	3,330	2,253	1,948	1,986	2,094	2,041
Hardwood doors [2] ... 1,000 units	1,221	6,786	3,763	5,304	5,228	5,307
Sash [2] ... 1,000 units	9,414	12,734	7,958	8,927	8,640	8,891
Exterior frames [2] ... 1,000 units	4,644	7,260	5,345	5,835	5,934	6,250
Paint, varnish, and lacquer [3] ... mil. gal.	(NA)	255	344	373	395	411

NA Not available.
[1] Principally Douglas fir.
[2] Covers only reports of shipments from members of National Woodwork Manufacturers' Association, not adjusted to represent full coverage.
[3] Production for trade sales. Beginning 1960, figures not comparable with earlier years because of different method of collection.

Source: Dept. of Commerce, Business and Defense Services Administration; *Construction Review*. Data compiled from reports by various trade associations and Bureau of the Census.

No. 1015. Turpentine, Rosin, and Naval Stores—Production: 1940 to 1966

[**In barrels of 50 gallons, except rosin in drums of 520 pounds net.** For crop years ending March 31. Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series L 70-71, for crop years beginning April 1]

PRODUCT	1940	1950	1960	1963	1964	1965	1966
TURPENTINE							
Total	**604,778**	**673,290**	**636,750**	**653,060**	**673,530**	**679,100**	**700,660**
Gum	382,781	323,010	107,400	152,100	140,520	119,580	111,370
Wood	[1] 221,997	350,280	529,350	500,960	533,010	559,520	589,290
Steam distilled	158,575	199,630	175,950	152,610	157,480	157,450	168,630
Sulphate	56,631	147,500	353,400	348,350	375,530	402,070	420,660
ROSIN							
Total	**1,813,710**	**2,023,510**	**1,915,770**	**2,064,260**	**2,084,940**	**2,015,010**	**2,067,270**
Gum	1,054,236	924,900	334,110	492,890	458,960	392,600	361,310
Wood, steam distilled [2]	759,474	1,098,610	1,198,690	1,093,770	1,098,050	1,036,370	1,079,560
Tall oil	–	–	382,970	477,600	527,930	586,040	626,400
MISCELLANEOUS NAVAL STORES							
Dipentene	(NA)	29,710	20,620	(3)	(3)	(3)	(3)
Pine oil	(NA)	141,260	197,140	[4] 231,610	[4] 218,230	[4] 233,740	[4] 266,620
Other terpenes	(NA)	44,030	73,070	[3] 107,350	[3] 110,760	[3] 125,040	[3] 114,910
Rosin oil	(NA)	21,500	32,080	39,160	41,140	(5)	(5)

– Represents zero. NA Not available.
[1] Includes "Destructively distilled," not shown separately.
[2] Beginning 1950, total primary production of FF wood rosin.
[3] Dipentene included in other terpenes.
[4] Beginning 1963, includes pine oil from all sources; therefore, not comparable with figures for earlier years.
[5] Discontinued.

Source: Dept. of Agriculture, Statistical Reporting Service; *Annual Naval Stores Report*.

No. 1016. Pulpwood, Woodpulp, and Paper and Paperboard—Production: 1945 to 1965

[**Cords of 128 cubic feet.** Prior to 1954, excludes Alaska; also excludes Hawaii except for woodpulp beginning 1962. See also *Historical Statistics, Colonial Times to 1957*, series L 61, L 64, and L 67]

YEAR	Pulpwood [1]	Woodpulp	Paper and paperboard [2]	YEAR	Pulpwood [1]	Woodpulp	Paper and paperboard [2]
	1,000 cords	*1,000 short tons*	*1,000 short tons*		*1,000 cords*	*1,000 short tons*	*1,000 short tons*
1945	15,253	10,167	17,371	1956	35,196	22,131	31,441
1946	16,982	10,707	19,278	1957	34,422	21,800	30,678
1947	18,542	11,946	21,114	1958	33,239	21,796	30,823
1948	20,026	12,872	21,897	1959	36,716	24,383	34,015
1949	17,619	12,207	20,315	1960	40,011	25,316	34,444
1950	20,712	14,849	24,375	1961	40,272	26,523	35,698
1951	25,128	16,524	26,047	1962	42,772	27,908	37,552
1952	25,065	16,473	24,418	1963	44,708	30,121	39,231
1953	26,319	17,537	26,540	1964	[3] 48,477	[4] 32,429	41,748
1954	26,972	18,256	26,876	1965 (prel.)	[3] 50,452	[4] 33,296	43,458
1955	30,948	20,740	30,178				

[1] Includes slabs, chips, and mill waste. Production is equal to receipts from domestic sources by woodpulp mills located in the United States.
[2] Includes the major grades of paper, paperboard, wet machine board, and construction paper and board.
[3] Source: American Pulpwood Association; *Monthly Pulpwood Statistics*.
[4] Source: United States Pulp Producers Association; *Monthly Statistical Summary*.

Source: Dept. of Commerce, Bureau of the Census. Current data in *Current Industrial Reports*, Series M26A. Includes data compiled from sources cited in footnotes.

No. 1017. Pulpwood and Veneer Log Consumption, Plywood, and Woodpulp Production: 1950 to 1965

[**Cords of 128 cubic feet.** Excludes Alaska and Hawaii, except as noted]

YEAR	Pulpwood consumption [1]			Veneer log consumption, softwood [2]	Plywood production, softwood [2]	Woodpulp production, by process [3]			
	Total	Softwood	Hardwood			Sulphate		Groundwood	Other
						Unbleached	Bleached and semi-bleached		
	1,000 cords	*1,000 cords*	*1,000 cords*	*Mil. ft., log scale*	*Mil. sq. ft. 3/8" equiv.*	*1,000 short tons*	*1,000 short tons*	*1,000 short tons*	*1,000 short tons*
1950	23,627	20,406	3,221	1,157	2,676	5,709	1,793	2,216	5,132
1955	33,356	27,728	5,628	2,431	5,284	7,665	3,625	2,729	6,720
1956	35,749	29,691	6,058	2,493	5,432	7,983	4,148	3,041	6,959
1957	35,746	29,446	6,300	2,455	5,653	7,651	4,284	3,089	6,776
1958	35,144	28,833	6,311	2,884	6,487	7,647	4,669	2,890	6,589
1959	38,691	30,885	7,806	3,488	7,736	8,540	5,289	3,230	7,324
1960	40,485	32,061	8,424	3,446	7,759	8,681	5,909	3,292	7,434
1961	42,191	33,095	9,097	3,836	8,496	9,115	6,307	3,208	7,892
1962	44,070	34,193	9,877	4,068	9,315	9,517	6,784	3,397	8,210
1963	46,435	35,661	10,774	3,108	10,375	10,502	7,439	3,468	8,712
1964	[4] 49,711	[4] 38,315	[4] 11,395	3,390	11,454	[5] 11,810	[5] 8,196	[5] 3,596	[5] 8,826
1965 (prel.)	[4] 50,740	[4] 38,708	[4] 12,032	(NA)	(NA)	[5] 11,744	[5] 8,739	[5] 3,920	[5] 8,893

NA Not available.
[1] Beginning 1955, includes Alaska, and 1962, Hawaii.
[2] Softwood plywood industry, principally Douglas fir.
[3] Includes Alaska and, beginning 1962, Hawaii.
[4] Source: American Pulpwood Association; *Monthly Pulpwood Statistics*.
[5] Source: United States Pulp Producers Association; *Monthly Statistical Summary*.

Source: Dept. of Commerce, Bureau of the Census; reports of Census of Manufactures and *Current Industrial Reports*, Series M26A and M24H. Includes data from sources cited in footnotes.

No. 1018. Paper and Board—Production: 1950 to 1965

[In thousands of short tons. Excludes Hawaii and, for 1950, Alaska]

TYPE OF PAPER AND BOARD	1950	1955	1960	1961	1962	1963	1964	1965 (prel.)
All types	24,375	30,178	34,444	35,698	37,552	39,231	41,748	43,458
Paper	10,639	12,905	15,399	15,833	16,537	17,300	18,180	18,910
Newsprint	1,013	1,459	2,004	2,054	2,105	2,213	2,296	2,086
Groundwood paper, uncoated [1]	705	886	938	907	910	956	952	1,025
Paper—machine-coated, printing and converting paper [1]	1,020	1,312	1,875	2,140	2,269	2,401	2,620	2,842
Book paper, uncoated [1]	1,580	1,740	1,887	1,654	1,760	1,886	1,990	2,107
Fine paper	1,197	1,450	1,776	1,924	2,054	2,104	2,210	2,401
Coarse paper	3,297	3,687	3,957	3,997	4,124	4,251	4,396	4,560
Special industrial, incl. absorbent	460	610	760	844	902	912	971	1,069
Sanitary tissue	1,148	1,521	1,964	2,078	2,179	2,340	2,518	2,596
Tissue paper, except sanitary and thin	217	240	238	234	235	236	227	224
Paperboard	10,926	[2] 13,867	15,676	16,474	17,486	18,239	19,623	20,612
Liners	3,872	5,109	5,966	6,356	6,770	7,124	7,850	8,384
Corrugating material	1,634	2,193	2,443	2,664	2,866	3,022	3,239	3,465
Container chipboard	325	250	227	231	288	280	331	295
Folding boxboard [3]	2,350	2,592	2,940	2,878	3,050	3,165	3,325	3,269
Special food board	656	1,154	1,466	1,596	1,727	1,737	1,848	2,043
Other bending board [3]	129	183	192	263	250	240	225	286
Set-up boxboard	713	797	767	609	661	637	649	645
Other nonbending board	164	257	292	410	307	345	365	442
Special paperboard stock	998	1,226	1,262	1,331	1,464	1,581	1,663	1,692
Cardboard	87	86	121	136	102	109	128	91
Wet machine board	165	179	175	155	146	141	148	135
Shoe board	49	55	57	59	61	58	58	47
Binder's board	42	47	52	55	58	55	59	(D)
Other	74	77	65	42	26	27	31	(D)
Construction paper and board	2,646	3,228	3,194	3,236	3,382	3,551	3,797	3,801
Construction paper	1,425	1,598	1,410	1,391	1,429	1,453	1,534	1,542
Insulating board	838	1,100	1,097	1,084	1,080	1,139	1,215	1,253
Wood fiber hardboard	383	530	686	762	873	959	1,048	1,006

D Withheld to avoid disclosure of figures for individual companies.
[1] Beginning 1962, not strictly comparable with figures for earlier years due to difference in coverage.
[2] Includes "Other paperboard," not shown separately.
[3] Beginning 1960 "Folding boxboard" includes "Solid bleached chemical board, except special food board and bleached liner board"; prior to 1960, this grade was reported under "Other bending board."

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M26A.

No. 1019. Newsprint—Production, Stocks, Consumption, Imports, and Price: 1940 to 1965

[In thousands of short tons, except price]

COUNTRY AND ITEM	1940	1945	1950	1955	1960	1963	1964	1965
CANADA, INCLUDING NEWFOUNDLAND								
Production	3,770	3,592	5,279	6,191	6,739	6,630	7,301	7,720
Shipments from mills	3,804	3,553	5,311	6,236	6,752	6,622	7,310	7,747
Stocks at mills, end of year	224	137	89	80	140	186	178	150
UNITED STATES [1]								
Consumption by publishers [2] [3]	2,856	2,455	4,542	5,045	5,532	5,585	6,031	6,387
Production [3]	1,013	724	1,015	1,552	2,038	2,218	2,261	2,180
Shipments from mills [3]	1,013	725	1,017	1,550	2,031	2,208	2,273	2,183
Stocks, end of year: [3]								
At mills	13	6	8	8	26	34	22	19
At and in transit to publishers	356	266	425	458	628	545	585	573
Imports [4]	2,763	2,669	4,864	5,164	5,412	5,413	5,954	6,323
Wholesale price, average [5] ...dollars per ton	50.00	60.25	101.63	125.94	134.40	134.40	134.23	132.40

[1] Excludes Alaska and Hawaii, except as noted.
[2] As reported by publishers accounting for about 76 percent of total newsprint consumption in 1965.
[3] Beginning 1963, includes Alaska and Hawaii.
[4] Based on reports of the Bureau of the Census. Includes Alaska, Hawaii, and Puerto Rico.
[5] Source: Dept. of Labor, Bureau of Labor Statistics. Standard newsprint, rolls, contract, delivered to principal ports. Annual averages; prior to 1950, represents New York price for rolls.

Source: Dept. of Commerce, Office of Business Economics (except as noted); based on data from the American Newspaper Publishers Association, New York, N.Y., and The Newsprint Service Bureau, New York, N.Y. Monthly data in *Survey of Current Business*.

Section 26

Fisheries

This section presents statistics relating to quantity, value, species, and disposition of fish caught for commercial purposes, and to fishery products. The principal sources of such data are the annual report, *Fishery Statistics of the United States*, and the monthly and annual bulletins in the *Current Fishery Statistics* series published by the Fish and Wildlife Service of the Department of the Interior.

The Fish and Wildlife Service conducts annual surveys of the fishery industries. Results from the surveys include data on the quantity and value of the catch of individual species of fish, employment in fisheries, gear operated, fishing and transporting craft used, employment in wholesale and manufacturing establishments, and the volume and value of production of manufactured fishery products. In addition, the reports include data on imports, exports, freezings, and cold storage holdings of fishery products; and monthly landings in most coastal States, and in Ohio, Michigan, and Wisconsin. Information is also collected covering shad fisheries of the Hudson and Potomac Rivers; alewife fisheries of the Potomac; seed oyster fisheries; Pacific Coast halibut fisheries; New England offshore fisheries; South Atlantic and Gulf shrimp fisheries; the fur seal industry of the Pribilof Islands; and the Pacific Coast whaling industry.

The first comprehensive survey of fisheries and fishery industries of the United States was made for the year 1880, although it did not include the Mississippi River and its tributaries. A complete survey of the United States was conducted in 1908 and again in 1931. Various sections of the country have been surveyed from time to time. A complete survey of all sections, including manufacturing and wholesaling operations, was made for 1950. Beginning in 1954, complete data have been collected annually, except for a portion of the Mississippi River and its tributaries in 1961.

A report on the 1963 Census of Commercial Fisheries was released by the Bureau of the Census in 1966. It presents statistics on the number of commercial fishing operators, receipts from fishing activities, employment, vessels operated, value of catch, and fishing gear.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

No. 1020. Fisheries—Quantity and Value of Catch: 1930 to 1965

[Prior to 1950, excludes Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series L 110-111]

Year	Quantity (mil. lb.)			Value (mil. dol.)	Average price per lb. (cents)	Year	Quantity (mil. lb.)			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For industrial products [1]				Total	For human food	For industrial products [1]		
1930	3,224	2,478	746	107	3.4	1959	5,122	2,369	2,753	346	6.8
1940	4,060	2,675	1,385	99	2.4	1960	4,942	2,498	2,444	354	7.2
1945	4,598	3,167	1,431	270	5.9	1961	5,187	2,490	2,697	362	7.0
1950	4,901	3,307	1,594	347	7.1	1962	5,354	2,540	2,814	396	7.4
1955	4,809	2,579	2,230	339	7.1	1963	4,847	2,556	2,291	377	7.8
1957	4,789	2,475	2,314	354	7.4	1964	4,541	2,497	2,044	389	8.6
1958	4,747	2,651	2,096	373	7.9	1965 (prel.)	4,722	2,546	2,176	451	9.6

[1] Manufactured into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States*.

No. 1021. Fisheries—Employment, Fishing Craft, and Establishments: 1950, 1960, and 1964

[1950, excludes Hawaii]

ITEM	1950	1960	1964	ITEM	1950	1960	1964
Persons employed	263,478	224,056	211,851	**Fishery shore establishments**	3,883	4,207	4,121
Direct employment:				Pacific Coast States [1]	700	515	600
Fishermen	161,463	130,431	127,875	Atlantic Coast and Gulf States	2,699	2,898	2,848
Shore workers	102,015	93,625	83,976	Great Lakes and Mississippi River States	484	772	656
Craft utilized	92,310	77,057	76,412	Hawaii	(NA)	22	17
Fishing craft:							
Vessels, 5 net tons and over	11,496	12,018	11,808				
Motorboats	46,067	56,889	60,945				
Other boats	34,747	8,150	3,659				

NA Not available. [1] Includes Alaska.

No. 1022. Fisheries—Fishermen, Fishing Craft, and Catch, by Areas: 1964

[See *Historical Statistics, Colonial Times to 1957*, series L 110–123, for data on quantity of catch]

AREA	Fishermen	Fishing vessels	Fishing boats [1]	CATCH (mil. lb.)			VALUE OF CATCH ($1,000)		
				Total	Fish	Shellfish	Total	Fish	Shellfish
United States	[2] 127,875	[2] 11,808	[2] 64,604	4,541	3,829	[3] 712	389	213	[3] 176
New England States	20,194	721	10,593	682	621	61	68	34	34
Middle Atlantic States	9,118	608	4,314	370	315	55	21	9	12
Chesapeake Bay States	18,554	1,245	10,943	537	424	113	36	10	26
South Atlantic States	11,281	1,108	6,001	336	261	75	21	9	12
Gulf States	25,171	3,582	10,744	1,318	1,085	233	99	26	73
Pacific Coast States	33,099	4,567	13,545	1,152	988	164	129	111	18
Great Lakes States	2,533	386	1,178	57	57	–	5	5	–
Mississippi River States	9,457	4	8,177	77	66	11	7	6	1
Hawaii	743	57	374	12	12	(Z)	3	3	(Z)

– Represents zero. Z Less than 500,000 pounds or $500.
[1] Refers to craft having capacity of less than 5 net tons. [2] Exclusive of duplication.
[3] Includes whale products.

Source of tables 1021–1022: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States*.

No. 1023. Commercial Fishing Operators: 1963

[Money figures in thousands of dollars]

ITEM	Total	OPERATORS WITH PRIMARY CATCH OF—	
		Finfish	Other marine products [1]
Total number	23,249	(NA)	(NA)
Total gross receipts	338,787	(NA)	(NA)
Operators without paid employees: [2]			
Number	13,998	(NA)	(NA)
Gross receipts	61,673	(NA)	(NA)
Operators with paid employees:			
Number	9,251	5,377	3,874
Gross receipts [3]	277,114	170,937	106,177
Employees, annual average	20,300	12,504	7,796
Payroll	102,332	66,938	35,394
Vessels	10,666	5,898	4,768
Number with—			
Less than 5 employees	8,237	4,720	3,517
5 to 9 employees	590	367	223
10 to 19 employees	342	233	109
20 to 99 employees	79	54	25
100 employees or more	3	3	–

– Represents zero. NA Not available.
[1] Includes catches of shellfish and miscellaneous marine products such as sponges, frogs, and turtles.
[2] Represents commercial fishermen who filed income tax returns as self-employed businessmen. Each return was counted as an operating unit.
[3] Gross receipts by legal form of organization are as follows: Individual proprietors, $119,410,000; partnerships, [illegible]3,000; corporations, $113,178,000; cooperative associations, $661,000; and other (including joint ventures, es-[illegible]istrators, and trusteeships), $532,000.

[illegible]pt. of Commerce, Bureau of the Census; *Census of Commercial Fisheries, 1963*.

No. 1024. Commercial Fishing Operators—States: 1963

STATE	Operators with paid employees	Employees, annual average	Gross receipts ($1,000)
Total	**9,251**	**20,300**	**277,114**
New England	**729**	**4,218**	**45,086**
Maine	148	434	4,984
Massachusetts	450	3,438	35,325
Rhode Island	79	190	2,819
Connecticut	52	156	1,958
Middle Atlantic	**394**	**1,027**	**12,004**
New York	141	361	4,661
New Jersey	244	629	7,235
Pennsylvania	9	37	108
East North Central	**337**	**472**	**4,685**
Ohio	52	148	1,259
Illinois	6	34	294
Michigan	170	189	1,961
Wisconsin	109	101	1,171
West North Central [1]	**26**	**31**	**210**
Minnesota	19	23	151
South Atlantic	**2,318**	**4,467**	**50,530**
Delaware	34	182	1,183
South Atlantic—Con.			
Maryland	379	154	2,817
Virginia	572	909	9,905
North Carolina	273	507	4,553
South Carolina	127	247	1,398
Georgia	193	356	3,203
Florida	740	2,112	27,471
East South Central	**272**	**1,055**	**12,351**
Alabama	125	437	3,261
Mississippi	147	618	9,090
West South Central	**1,373**	**3,390**	**47,121**
Louisiana	760	1,564	21,518
Texas	613	1,826	25,603
Mountain [1]	**5**	**13**	**131**
Pacific	**3,797**	**5,627**	**104,996**
Washington	1,320	1,581	30,393
Oregon	320	229	4,651
California	980	2,398	44,196
Alaska	1,100	1,144	23,451
Hawaii	77	275	2,305

[1] West North Central includes Iowa, Missouri, North Dakota, and South Dakota, Mountain includes Idaho and Utah; such data not shown separately to avoid disclosure of individual operations.

Source: Dept. of Commerce, Bureau of the Census; *Census of Commercial Fisheries, 1963.*

No. 1025. Fisheries—Catch and Value of Principal Species: 1950 to 1965

[Catch in millions of pounds; value in millions of dollars. Prior to 1960, excludes Hawaii]

SPECIES	1950		1955		1960		1965 (prel.)	
	Catch	Value	Catch	Value	Catch	Value	Catch	Value
FISH								
Cod, Atlantic	57	4	36	2	40	3	35	3
Flounder	132	12	110	11	127	13	134	15
Haddock	159	12	135	8	119	9	134	14
Halibut, Pacific	51	8	49	5	51	6	40	9
Herring, sea	364	3	172	2	239	4	111	2
Mackerel, Pacific and jack	166	3	59	1	118	2	72	2
Menhaden	1,026	10	1,868	25	2,018	20	1,704	27
Ocean perch, Atlantic	208	9	157	6	141	5	84	3
Salmon, Pacific	329	37	290	41	235	45	327	67
Sardine, Pacific	715	12	146	3	58	1	2	(Z)
Tuna	391	61	[1] 270	[1] 39	[1] 298	[1] 38	[1] 319	[1] 42
Whiting	67	1	119	2	112	3	84	2
SHELLFISH								
Clams	41	11	34	10	50	12	70	16
Crabs	159	9	136	10	222	17	320	29
Lobsters, northern	23	8	29	11	31	14	29	21
Oysters (meats)	76	30	78	30	60	29	54	28
Shrimp (heads-on)	191	43	244	62	249	67	242	82

Z Less than $500,000.
[1] Excludes landings of tuna by U.S. vessels in Puerto Rico.

Source: Dept. of the Interior, Fish and Wildlife Service; annual reports, *Fishery Statistics of the United States* and *Fisheries of the United States.*

No. 1026. Fisheries—Catch of Principal Species, by Areas, and Quantity and Value of Catch, by States: 1940 to 1964

[**Catch in thousands of pounds; value in thousands of dollars.** Values represent the value of fish to fishermen. See also *Historical Statistics, Colonial Times to 1957*, series L 114-154]

STATE, CATCH, AND VALUE	1940	1950	1955	1960	1961	1962	1963	1964
New England States:								
Catch	626,054	1,006,590	955,418	851,964	760,078	871,681	828,889	681,857
Value	20,494	60,577	57,243	61,474	60,858	65,775	68,289	67,596
Maine:								
Catch	88,088	356,266	257,174	294,641	197,970	294,323	285,636	192,575
Value	2,606	14,689	16,083	20,071	19,029	20,365	21,216	21,958
New Hampshire:								
Catch	788	645	948	1,188	1,146	1,089	1,201	1,209
Value	105	219	345	430	426	401	443	601
Massachusetts:								
Catch	510,938	591,188	566,413	480,421	470,774	493,414	467,693	446,495
Value	15,756	40,768	35,057	35,947	36,900	40,265	41,234	40,184
Rhode Island:								
Catch	12,060	38,265	115,323	69,318	84,046	76,839	69,312	36,928
Value	966	2,788	4,738	3,846	3,317	3,528	4,149	3,740
Connecticut:								
Catch	14,180	20,226	15,560	6,396	6,142	6,016	5,047	4,650
Value	1,060	2,114	1,020	1,180	1,186	1,216	1,247	1,113
Catch, by species:								
Cod	82,289	53,968	32,369	35,255	42,169	43,946	39,901	37,853
Flounder	57,572	66,824	50,064	61,559	67,155	86,711	106,767	112,172
Haddock	141,193	157,765	135,029	118,615	133,536	134,169	123,881	133,450
Herring, sea	44,052	195,154	104,286	154,667	57,856	158,255	154,513	63,202
Lobster	11,165	22,559	27,624	29,260	25,931	28,286	29,120	29,318
Ocean perch	85,016	207,793	156,989	141,433	132,062	123,983	108,292	89,268
Whiting	40,869	65,464	110,630	103,637	93,945	97,737	86,558	87,672
Middle Atlantic States:								
Catch	[1] 355,553	491,685	871,096	783,848	825,443	944,374	550,464	370,223
Value	[1] 7,651	28,843	28,937	21,757	23,952	25,209	21,345	20,897
New York:								
Catch	91,959	142,341	132,791	125,932	124,011	225,759	191,256	197,022
Value	4,216	15,502	9,498	8,781	9,177	10,201	9,718	10,790
New Jersey:								
Catch	160,554	188,623	421,286	373,688	396,752	446,929	255,020	139,362
Value	2,957	10,201	13,074	9,607	11,032	11,824	10,335	9,423
Delaware:								
Catch	103,017	160,721	317,019	284,228	304,680	271,686	104,188	33,839
Value	475	3,141	6,365	3,369	3,743	3,184	1,292	684
Catch, by species:								
Clams	7,658	21,681	16,671	31,776	34,157	37,448	45,801	46,016
Menhaden	245,369	372,947	763,827	670,799	715,049	782,487	372,851	139,258
Oysters	13,983	18,170	9,848	1,154	2,021	2,362	951	1,356
Scup	5,777	20,556	20,686	26,638	25,742	25,575	22,037	16,896
Chesapeake Bay States:								
Catch	320,736	380,892	496,208	435,797	477,906	521,475	430,203	536,596
Value	7,456	25,007	31,601	34,861	37,093	33,627	29,804	35,948
Maryland:								
Catch	51,085	67,092	55,249	69,113	66,492	67,574	55,457	70,828
Value	2,599	8,888	11,147	13,936	12,778	11,926	10,748	11,729
Virginia:								
Catch	269,651	313,800	440,959	366,684	411,414	453,901	374,746	465,768
Value	4,858	16,119	20,454	20,925	24,315	21,701	19,056	24,219
Catch, by species:								
Alewives	16,112	34,629	26,988	18,989	17,970	27,678	27,551	27,954
Clams	1,843	1,701	3,950	7,823	7,084	8,918	9,508	10,987
Crabs	41,816	80,046	45,128	70,716	74,894	86,571	66,129	78,608
Menhaden	143,227	170,913	315,359	248,905	298,679	327,910	259,015	336,414
Oysters	37,457	29,954	39,227	27,111	27,500	19,939	18,274	22,098
South Atlantic States:								
Catch	325,515	260,881	346,574	378,879	402,246	305,416	370,717	335,997
Value	4,064	18,944	17,274	20,230	19,936	23,462	19,468	20,619
North Carolina:								
Catch	170,581	172,339	233,096	265,248	286,751	182,384	256,652	238,579
Value	1,865	6,800	7,284	7,020	6,669	6,755	7,047	8,023
South Carolina:								
Catch	9,446	14,726	22,033	24,252	19,242	22,680	22,015	21,723
Value	266	2,810	2,487	4,039	3,345	4,720	3,236	3,001

[1] Includes Pennsylvania.

No. 1026. Fisheries—Catch of Principal Species, by Areas, and Quantity and Value of Catch, by States: 1940 to 1964—Continued

[Catch in thousands of pounds; value in thousands of dollars]

STATE, CATCH, AND VALUE	1940	1950	1955	1960	1961	1962	1963	1964
South Atlantic States— Continued								
Georgia:								
Catch	12,672	17,351	19,025	27,968	20,532	22,136	21,011	18,338
Value	381	3,584	2,472	3,391	3,018	4,553	2,613	2,973
Florida (east coast):								
Catch	132,816	56,465	72,420	61,411	75,721	78,216	71,039	57,357
Value	1,553	5,749	5,031	5,780	6,904	7,434	6,572	6,622
Catch, by species:								
Crabs	15,290	20,275	32,606	44,927	40,476	38,927	51,009	52,274
Menhaden	224,882	147,125	227,811	215,023	254,505	157,169	215,886	190,146
Shrimp	22,702	36,481	28,539	31,214	19,749	26,078	15,529	17,341
Gulf States:								
Catch	250,018	570,641	829,638	1,265,950	1,377,112	1,437,410	1,399,512	1,317,834
Value	10,581	50,358	76,287	85,459	75,521	94,504	98,790	99,298
Florida (west coast):								
Catch	54,676	62,013	105,756	135,535	125,379	119,607	124,683	129,659
Value	3,452	9,955	21,190	21,048	20,303	24,921	22,477	24,165
Alabama:								
Catch	11,344	10,988	13,441	12,106	8,458	9,081	14,888	15,067
Value	562	2,122	2,265	3,003	1,991	2,509	3,714	3,975
Mississippi:								
Catch	38,002	84,139	183,137	314,214	391,689	370,074	341,313	331,898
Value	623	3,371	5,685	7,606	7,549	7,983	8,591	8,045
Louisiana:								
Catch	126,627	316,250	397,203	566,411	648,334	766,540	752,284	696,140
Value	4,952	23,645	23,418	25,949	21,432	28,923	33,941	33,585
Texas:								
Catch	19,369	97,251	130,101	237,684	203,252	172,108	166,344	145,070
Value	993	11,265	23,729	27,853	24,246	30,168	30,067	29,528
Catch, by species:								
Crabs	18,636	19,218	20,337	35,768	36,345	26,802	27,517	26,259
Menhaden	25,195	326,030	480,992	840,907	1,020,433	1,056,625	967,693	904,141
Mullet	30,417	23,892	27,508	32,708	34,830	35,301	35,077	36,890
Oysters	17,584	12,292	13,881	16,098	18,240	18,838	24,139	23,385
Shrimp	127,838	151,753	212,402	205,725	133,795	141,726	203,116	179,032
Great Lakes: [2]								
Catch [3]	79,296	70,882	76,754	68,243	70,641	65,572	59,006	56,687
Value [3]	5,623	10,846	9,699	7,133	6,971	5,533	5,289	5,572
Superior:								
Catch	20,672	12,584	13,581	13,771	14,749	12,602	12,125	9,642
Value	904	1,977	1,886	1,301	1,264	1,086	1,011	849
Michigan:								
Catch	22,601	27,078	30,036	24,311	25,559	23,475	21,021	26,201
Value	2,050	3,661	3,221	2,447	2,497	1,899	1,871	2,601
Huron:								
Catch	9,012	5,073	4,553	6,338	6,918	5,880	5,206	4,094
Value	680	411	484	1,249	1,193	897	785	678
Erie:								
Catch	22,944	23,982	26,796	21,258	19,563	19,660	17,238	13,354
Value	1,772	4,572	3,954	1,920	1,767	1,461	1,439	1,252
Pacific Coast States:								
Catch	2,019,969	1,997,542	1,115,427	1,060,825	1,182,829	1,125,747	1,116,733	1,151,612
Value	40,190	139,199	106,532	112,118	127,990	138,983	124,105	129,337
Washington:								
Catch	111,632	118,694	155,305	113,115	120,381	117,504	149,687	100,924
Value	6,676	19,071	20,906	15,551	18,716	18,939	21,437	15,632
Oregon:								
Catch	54,203	58,256	46,710	49,160	50,542	61,005	61,362	57,206
Value	2,742	7,151	5,683	6,055	6,521	7,833	7,679	7,030
California:								
Catch	1,290,446	1,338,299	598,089	540,837	598,438	518,020	513,746	500,868
Value	20,160	81,605	53,175	49,578	56,283	54,969	49,286	50,659
Alaska:								
Catch	563,688	482,293	315,323	357,713	413,468	429,218	391,938	492,614
Value	10,612	31,372	26,768	40,934	46,470	57,242	45,703	56,016

[2] Collected largely by State fishery agencies, and compiled by Fish and Wildlife Service.
[3] Includes, in addition to lakes shown, small amounts for Lake Ontario, Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

No. 1026. Fisheries—Catch of Principal Species, by Areas, and Quantity and Value of Catch, by States: 1940 to 1964—Continued

[Catch in thousands of pounds; value in thousands of dollars]

STATE, CATCH, AND VALUE	1940	1950	1955	1960	1961	1962	1963	1964
Pacific Coast States—Con.								
Catch, by species:								
Crabs	16,132	23,810	20,004	64,847	76,270	76,357	103,844	110,042
Flounder	20,415	49,799	46,912	47,683	47,723	50,875	51,299	47,395
Halibut	23,733	12,455	22,410	50,932	53,238	53,757	45,569	35,047
Herring	1,060	1,864	2,413	83,820	54,491	41,570	38,834	52,246
Mackerel	120,504	32,650	23,310	36,810	44,110	48,579	40,243	26,828
Pilchard or sardine	913,944	714,522	145,608	57,533	43,169	15,363	7,131	13,138
Salmon	500,561	328,644	289,880	235,447	310,398	314,566	294,177	352,246
Shrimp	1,138	974	1,553	12,418	20,912	22,906	21,260	14,497
Tuna	204,882	389,891	269,362	287,765	310,970	293,880	297,343	286,311
Mississippi River and tributaries:								
Catch	(NA)	105,796	103,166	85,605	[4] 75,982	69,353	79,850	77,131
Value	(NA)	10,104	8,205	7,829	[4] 6,992	6,515	7,393	7,383
Hawaii:								
Catch	(NA)	15,917	15,096	11,118	14,472	13,157	11,735	12,685
Value	(NA)	3,508	3,113	2,704	2,897	2,820	2,679	2,848
Tuna catch	(NA)	11,918	11,958	9,020	12,463	11,063	9,508	10,407

NA Not available.
[4] Includes a combination of 1960 and 1961 data.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States.*

No. 1027. Catch Landed at Certain Leading Ports—Quantity, Value, and Important Species: 1964 and 1965

[Catch in thousands of pounds; value in thousands of dollars]

PORT	1964		1965 (prel.)		Important species
	Catch	Value	Catch	Value	
Beaufort-Morehead City, N.C.	136,000	(NA)	130,200	3,200	Menhaden, shrimp.
Boston, Mass.	107,500	10,300	103,600	11,600	Haddock, cod.
Cameron, La.	213,600	5,000	167,800	5,000	Menhaden, shrimp.
Empire, La.	217,500	6,100	185,000	6,000	Menhaden, shrimp.
Gloucester, Mass.	124,200	6,100	121,400	7,000	Whiting, ocean perch, haddock.
Houma, La.	80,400	5,200	151,700	6,300	Menhaden, shrimp.
Lewes, Del.	30,700	(NA)	45,600	(NA)	Menhaden.
Morgan City, La.	133,200	5,500	134,700	6,400	Menhaden, shrimp.
New Bedford, Mass.	135,700	16,700	147,300	19,800	Flounder, sea scallops.
Pascagoula, Miss.	283,600	4,800	325,100	6,200	Menhaden and other industrial fish.
Portland, Maine	51,200	2,100	48,700	1,900	Ocean perch, sea herring, lobster.
Reedville, Va.	225,500	(NA)	289,300	(NA)	Menhaden.
Rockland, Maine	33,600	1,500	37,800	1,500	Ocean perch, sea herring, lobster.
San Diego, Calif.	55,000	7,300	52,500	6,900	Tuna.
San Pedro, Calif.	341,300	30,900	330,600	33,600	Tuna, mackerel.

NA Not available.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fisheries of the United States.*

No. 1028. Fisheries—Disposition of Domestic Catch: 1950 to 1965

[**Round weight of catch in millions of pounds.** Prior to 1959, excludes Hawaii. 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. From 600 million to 1 billion pounds of waste were used in production of meal and oil each year shown. See also *Historical Statistics, Colonial Times to 1957*, series L 155-161]

DISPOSITION	1950	1955	1959	1960	1961	1962	1963	1964	1965 (prel.)
Total	4,884	4,794	5,122	4,942	5,187	5,354	4,847	4,541	4,722
Fresh and frozen	1,692	1,568	1,539	1,631	1,572	1,621	1,657	1,643	1,730
Canned	1,720	1,039	977	1,043	1,077	1,106	1,073	1,033	1,017
Cured	100	86	83	82	81	80	78	71	76
Reduced to meal, oil, etc.	1,372	2,101	2,523	2,186	2,457	2,547	2,039	1,794	1,899

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fisheries of the United States.*

No. 1029. Canned Fishery Products—Production and Value, by Species: 1940 to 1965

[**Production in thousands of pounds; value in thousands of dollars.** Prior to 1955, excludes Hawaii, Puerto Rico, and American Samoa. See also *Historical Statistics, Colonial Times to 1957*, series L 176–195]

YEAR	Total	Salmon	Sardines		Tuna	Mackerel	Shrimp	Clam products	Oysters	Other
			Maine[1]	Calif.						
PRODUCTION										
1940	681,194	269,040	22,690	132,565	81,844	63,985	16,744	24,257	9,668	60,401
1945	646,386	235,596	51,061	169,469	87,239	31,174	3,225	21,502	3,164	43,956
1950	967,115	206,871	78,037	228,186	173,462	65,567	11,794	38,868	6,893	157,437
1955	843,695	157,855	25,758	63,657	196,412	25,399	13,516	43,324	7,834	309,940
1958	1,094,602	179,134	49,139	100,016	277,131	18,199	14,308	42,562	5,580	408,533
1959	969,135	118,330	41,024	33,956	282,192	26,407	13,832	41,726	5,896	405,772
1960	1,083,556	136,049	46,744	27,714	301,388	42,064	14,268	45,256	5,747	464,326
1961	1,042,739	177,443	17,635	18,859	310,612	62,026	9,284	50,221	6,240	390,419
1962	1,133,710	182,435	50,248	6,168	335,506	54,917	13,249	54,019	4,501	432,667
1963	1,035,909	158,153	37,890	2,568	326,712	57,395	15,904	58,742	6,249	372,296
1964	1,095,565	180,442	20,259	5,438	349,834	48,187	9,740	60,348	5,912	415,405
1965 (prel.)	1,126,254	176,277	29,646	337	357,655	31,866	15,625	67,595	4,083	443,220
VALUE										
1940	94,182	38,050	3,736	8,975	20,148	4,101	4,318	3,778	2,527	8,549
1945	152,801	52,586	12,077	15,346	46,112	4,047	1,919	7,391	2,030	11,293
1950	331,335	109,541	21,209	26,346	112,136	7,492	12,773	10,840	7,096	23,902
1955	303,165	81,356	9,333	10,014	125,223	3,334	13,562	12,057	7,004	41,282
1958	388,582	92,822	15,874	16,497	161,793	2,657	20,791	12,551	5,445	60,152
1959	348,251	71,827	14,902	5,399	159,143	4,235	16,948	13,291	5,721	56,735
1960	387,595	88,197	16,700	4,659	172,679	5,804	17,233	13,676	5,640	63,607
1961	422,836	116,955	7,560	3,664	189,173	8,529	11,742	15,824	5,776	63,613
1962	456,866	106,712	20,077	1,300	209,821	7,560	18,973	17,115	4,557	70,751
1963	421,607	87,963	13,244	685	201,588	7,603	19,531	17,449	5,633	67,911
1964	436,660	95,761	7,584	1,030	217,585	6,760	12,986	17,957	5,292	71,705
1965 (prel.)	484,059	120,933	10,868	69	228,091	5,233	20,874	18,097	3,701	76,193

[1] Also known as Atlantic sea herring.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States*.

No. 1030. Canned and Industrial Fishery Products—Production and Value: 1940 to 1965

[Excludes Hawaii except that, beginning 1955, canned fishery products and meal include Hawaii, Puerto Rico and American Samoa. See also *Historical Statistics, Colonial Times to 1957*, series L 177 and L 196–201]

YEAR	Canned		Scrap and meal		Oil (except vitamin)		Vitamin oil, value
	Production	Value	Production	Value	Production	Value	
	1,000 lb.	*$1,000*	*Tons*	*$1,000*	*1,000 gal.*	*$1,000*	*$1,000*
1940	681,194	94,182	193,244	7,834	18,250	5,632	5,088
1945	646,386	152,801	200,675	14,405	23,698	16,034	11,202
1950	967,115	331,335	239,713	29,226	21,432	14,042	3,431
1955	845,019	303,165	264,502	34,749	24,679	14,280	589
1957	991,665	335,829	264,085	32,592	20,196	12,077	542
1958	1,099,252	388,582	248,140	31,759	21,977	12,098	235
1959	974,576	348,251	306,551	35,926	24,945	12,791	301
1960	1,083,556	387,595	290,137	25,282	27,853	13,037	350
1961	1,042,739	422,836	311,265	31,940	34,409	14,318	55
1962	1,133,710	456,866	312,259	35,573	33,334	10,961	41
1963	1,035,909	421,607	255,907	30,235	23,974	10,824	29
1964	1,095,565	436,660	235,252	28,039	23,248	13,273	24
1965 (prel.)	1,126,254	484,059	253,371	35,282	25,243	15,392	(NA)

NA Not available.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States*.

No. 1031. Fresh and Frozen Packaged Fish and Frozen Fishery Products—Production and Value: 1940 to 1965

[Excludes Alaska and Hawaii, except as noted. For cold storage holdings, see table 983. See *Historical Statistics, Colonial Times to 1957*, series L 160, for frozen fishery products]

Item and year	Fresh and frozen packaged fish							Frozen fishery products[1]
	Total	Cod	Flounder	Haddock	Ocean perch	Whiting	Other	
PRODUCTION (1,000 lb.)								
1940	129,420	14,805	11,245	37,140	23,014	13,256	29,960	196,155
1950	191,524	12,990	28,331	51,192	63,128	2,537	33,346	287,190
1955	159,039	11,737	22,740	38,276	50,229	3,703	32,354	314,684
1959	147,237	12,583	24,386	30,613	38,749	4,642	36,264	336,602
1960	153,166	9,483	28,378	33,324	43,551	2,951	35,479	328,741
1961	158,112	10,128	31,517	38,160	37,494	3,297	37,515	319,585
1962	171,528	11,236	38,198	41,553	35,485	3,180	41,876	343,479
1963	165,985	10,432	45,894	36,708	30,250	2,405	40,296	351,466
1964	161,121	10,116	48,554	37,331	23,815	2,094	39,211	332,284
1965 (prel.)	167,521	9,955	49,508	40,139	22,696	2,286	42,937	366,781
VALUE ($1,000)								
1940	14,345	1,793	1,542	4,521	2,272	561	3,656	(NA)
1950	53,482	3,101	9,916	14,275	15,126	399	10,665	
1955	44,865	2,785	8,769	9,848	11,436	591	11,437	
1959	46,170	3,552	9,740	10,143	9,435	806	12,494	
1960	48,437	2,851	11,204	10,839	10,177	571	12,795	
1961	51,764	3,204	12,207	12,009	9,475	630	14,239	
1962	59,307	3,618	14,097	14,170	9,429	641	17,352	
1963	57,461	3,395	16,426	13,284	8,490	535	15,331	
1964	57,364	3,351	17,457	13,710	6,324	460	16,062	
1965 (prel.)	65,527	3,526	20,200	16,281	6,156	509	18,855	

NA Not available. [1] Includes Alaska.

No. 1032. Manufactured Fishery Products—Summary: 1960, 1964, and 1965

[**Production in thousands of pounds, except as indicated.** Includes Puerto Rico and American Samoa]

Product	1960		1964		1965 (prel.)	
	Production	Value ($1,000)	Production	Value ($1,000)	Production	Value ($1,000)
Total	(X)	812,847	(Z)	964,720	(Z)	(NA)
Packaged, fresh and frozen	584,220	315,811	708,492	410,366	(NA)	(NA)
Fish, not breaded:						
Fillets and steaks, raw	153,166	48,437	161,363	57,521	167,521	65,527
Other[1]	6,166	1,262	11,047	2,470	(NA)	(NA)
Fish, breaded, raw and cooked:						
Sticks	65,142	28,671	73,574	29,986	82,282	35,701
Fillets, portions, and pan-dressed	51,924	18,965	109,416	38,373	(NA)	(NA)
Shellfish:						
Not breaded	191,749	138,022	214,007	180,500	(NA)	(NA)
Breaded	84,221	57,412	103,327	73,570	(NA)	(NA)
Fish and shellfish specialties	31,852	23,043	35,758	27,946	(NA)	(NA)
Canned products	1,083,556	387,595	1,095,565	436,660	1,126,254	484,059
Fish and shellfish for human consumption	661,066	342,747	742,114	391,026	746,876	434,415
Salmon eggs for bait	718	869	1,051	2,163	754	1,548
Animal food	[1] 421,772	[1] 43,979	352,400	43,471	378,623	48,096
Cured fish	68,319	42,845	65,519	47,783	(NA)	(NA)
Salted and pickled[2]	35,949	14,388	37,877	16,965	(NA)	(NA)
Smoked	31,512	27,557	27,213	29,732	(NA)	(NA)
Dried shrimp	[3] 857	[3] 900	429	1,086	(NA)	(NA)
Industrial products	(X)	66,595	(X)	69,911	(X)	81,853
Meal and scrap ... 1,000 tons	290	25,282	235	28,039	253	35,282
Oil (body and liver) ... 1,000 gallons	27,886	13,386	23,251	13,297	25,243	15,392
Fish solubles and homogenized condensed fish ... 1,000 tons	99	4,021	93	5,662	98	5,397
Oyster and marine clam-shell lime and grit ... 1,000 tons	471	6,821	363	4,915	339	4,684
Marine pearl-shell buttons ... 1,000 gross	1,426	2,676	634	1,277	409	1,017
Other	(X)	14,409	(X)	16,721	(X)	20,081

NA Not available. X Not applicable. [1] Includes whale meat for animal feeding.
[2] Includes lutefisk from dried cod. [3] Includes mackerel and tuna.

Source of tables 1031 and 1032: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States*.

No. 1033. Fishery Products—Imports and Exports: 1940 to 1965

[**Quantity in thousands of pounds; value in thousands of dollars.** Includes Puerto Rico, beginning 1955, imports also include landings of tuna by foreign vessels in American Samoa. See *Historical Statistics, Colonial Times to 1957*, series L 162, for edible imports]

YEAR	IMPORTS				EXPORTS			
	Total value	Edible products		Non-edible, value	Total value	Edible products		Non-edible, value
		Quantity	Value			Quantity	Value	
1940	41,830	302,518	29,073	12,757	17,785	144,804	17,115	670
1945	101,254	404,768	76,434	24,820	38,510	135,979	30,855	7,655
1950	198,296	639,725	158,414	39,882	27,474	121,623	18,856	8,618
1955	258,869	780,185	208,973	49,896	39,977	109,750	24,923	15,054
1960	363,281	1,095,014	310,596	52,685	44,165	61,454	25,622	18,543
1961	400,619	1,087,175	339,318	61,301	34,710	40,137	19,594	15,116
1962	489,807	1,255,532	405,832	83,975	35,728	56,530	22,470	13,258
1963	500,712	1,196,917	399,928	100,784	56,605	64,745	30,376	26,229
1964	564,243	1,318,099	433,674	130,569	64,204	94,835	42,878	21,326
1965 (prel.)	(NA)	(NA)	(NA)	(NA)	69,483	96,444	49,308	20,175

NA Not available.

Source: Dept. of the Interior, Fish and Wildlife Service; annual reports, *Fishery Statistics of the United States*, and *Fisheries of the United States*. Compiled from data furnished by Dept. of Commerce, Bureau of the Census.

No. 1034. Fishery Products—Imports and Exports of Selected Products: 1955 to 1965

[**Quantity in thousands of pounds; value in thousands of dollars.** Includes Puerto Rico. See *Historical Statistics, Colonial Times to 1957*, series L 164–171, for selected imports]

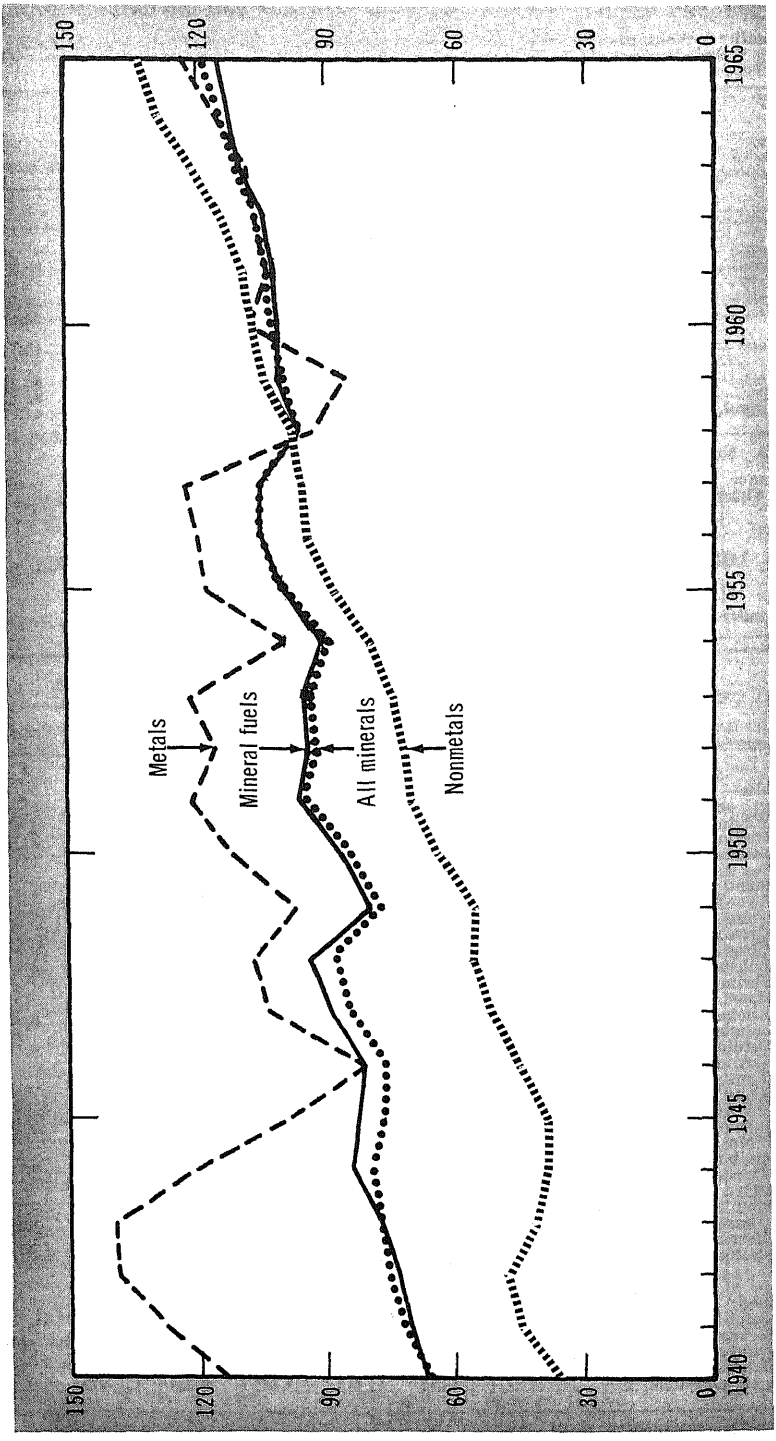
PRODUCT	1955		1960		1964		1965 (prel.),
	Quantity	Value	Quantity	Value	Quantity	Value	quantity
IMPORTS							
Edible:							
Fresh or frozen:							
Whitefish (exc. fillets)	10,161	3,421	14,483	5,520	13,518	5,260	(NA)
Halibut (exc. fillets)	15,988	3,187	24,124	5,832	22,567	6,211	21,726
Salmon (exc. fillets)	16,945	5,488	13,472	6,340	8,818	5,560	7,861
Sea herring	6,302	151	74,682	1,728	97,280	1,832	(NA)
Smelt	6,176	1,230	8,437	1,402	8,637	1,321	(NA)
Swordfish (exc. fillets)	6,742	2,000	7,256	2,994	10,317	4,173	(NA)
Tuna	145,246	19,047	234,648	29,595	336,256	50,859	286,316
Groundfish fillets	128,312	24,768	155,550	33,265	246,569	57,548	294,954
Other fillets and steaks	55,223	17,627	61,713	20,955	73,554	26,126	74,839
Lobster and spiny lobster	45,441	30,104	53,749	44,767	55,490	59,588	56,412
Shrimp and prawn	53,772	24,532	113,418	56,406	151,168	104,355	163,088
Canned:							
Anchovies, in oil	5,753	2,695	5,160	2,173	4,735	3,917	(NA)
Salmon	14,644	5,173	19,113	7,541	236	128	101
Sardines, in oil	20,930	7,502	21,236	8,330	20,033	9,578	21,532
Sardines and herring, not in oil	9,886	2,366	16,732	3,467	33,590	6,843	23,537
Tuna, in oil	818	355	596	221	201	106	211
Tuna, not in oil	34,745	13,846	51,159	18,921	54,446	23,167	50,751
Bonito and yellowtail:							
In oil	11,725	2,822	7,109	1,699	3,050	894	2,046
Not in oil	3,589	688	2,795	599	1,940	469	1,889
Crab meat	4,951	4,718	4,507	5,514	4,550	5,358	4,151
Lobster, common and spiny	3,775	5,073	2,939	5,239	3,010	6,963	3,086
Pickled or salted:							
Cod, haddock, hake, pollock, and cusk	50,626	7,793	47,355	9,435	8,889	2,884	(NA)
Herring	32,390	3,641	29,294	3,924	27,296	3,880	(NA)
Nonedible (scrap and meal)	196,000	12,956	264,000	11,068	878,000	44,181	542,000
EXPORTS							
Canned:							
Salmon	10,429	6,599	11,924	9,830	20,924	14,852	24,892
Mackerel	1,548	244	1,305	211	8,588	1,140	2,174
Sardines, in oil	1,179	246	264	65	839	244	3,376
Sardines, not in oil	45,431	7,232	20,955	3,443	2,426	485	
Fish oil, nonedible	143,042	11,913	143,659	10,688	151,469	13,096	103,807

NA Not available.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States*. Compiled from data furnished by Dept. of Commerce, Bureau of the Census.

FIG. XLIV. INDEXES OF THE PHYSICAL VOLUME OF MINERAL PRODUCTION: 1925 TO 1965

[1957-59=100. See table 1042]



Source: Dept. of the Interior, Bureau of Mines.

Section 27

Mining and Mineral Products

This section presents statistics relating to the mineral industries and mineral products. The data are arranged in four broad groupings: General summary statistics, fuels, nonmetals other than fuels, and metals. Summary measures of production and employment are presented for mining and its products. More detailed data on value and quantity of production, prices, imports and exports, consumption, and distribution are shown for specific mineral industries and products.

The principal source of these data is the *Minerals Yearbook*, published by the Bureau of Mines of the Department of the Interior, in four volumes, as follows: *Metals and Minerals (Except Fuels)*, *Fuels*, *Area Reports*, and *International Review*. Other government sources are the Censuses of Mineral Industries conducted by the Bureau of the Census; *Statistics of Oil Pipe Line Companies*, issued annually by the Interstate Commerce Commission as Part 6 of *Transport Statistics;* and the Bureau of the Mint's *Annual Report of the Director*, which presents data on gold and silver. Nongovernment sources include the *Engineering and Mining Journal*, issued monthly by the McGraw-Hill Publishing Co., and *The Iron Age*, issued weekly by the Chilton Co.

Mineral statistics, with principal emphasis on commodity detail, have been collected by the United States Geological Survey or by the Bureau of Mines since 1880. Current 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; and consumption of mineral raw materials. The Bureau of Mines also collects and publishes data on man-hours, active days, length of shift, and accidents. The *International Review* presents mineral statistics for major countries and areas.

Decennial censuses of mineral industries were conducted by the Bureau of the Census from 1840 to 1940. Censuses were taken again for the years 1954, 1958, and 1963. They provide, for the various types of mineral establishments, information on operating costs, capital expenditures, and labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many of the manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series.

Data on mining and mineral products may also be found in other sections of this *Abstract*. For example, data on iron and steel, aluminum and magnesium, copper products, clay products, and other manufactured mineral products appear in section 29, Manufactures; and summary data for outlying areas of the U.S. appear in section 32.

In general, figures shown in the individual commodity tables include data for outlying areas, and may therefore not agree with summary table 1038. Except for crude petroleum, the export and import figures include foreign trade passing through the customs districts of Alaska, Hawaii, and Puerto Rico, but exclude shipments between conterminous U.S. and outlying areas.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

No. 1035. Value of Mineral Production: 1931 to 1965

[**In millions of dollars.** Prior to 1953, excludes Alaska and Hawaii. Includes some products, as cement, lime, and natural gas liquids in all years, and, through 1946, heavy clay products; also, nonferrous metals are valued at the refined price. See also *Historical Statistics, Colonial Times to 1957*, series M 13–14, M 20, and M 30]

YEARLY AVERAGE	Total	Mineral fuels [1]	Nonmetals	Metals	YEAR	Total	Mineral fuels [1]	Nonmetals	Metals
1931–1935	2,463	1,691	520	252	1960	18,032	12,142	3,868	2,022
1936–1940	3,879	2,545	711	623	1961	18,230	12,357	3,946	1,927
1941–1945	5,840	3,993	937	910	1962	18,838	12,784	4,117	1,937
1946–1950	10,277	7,678	1,503	1,097	1963	19,615	13,295	4,318	2,002
1951–1955	14,285	10,070	2,480	1,734	1964	20,472	13,585	4,622	2,265
1956–1960	17,557	12,026	3,595	1,936	1965 (prel.)	21,300	14,000	4,800	2,500

[1] Through 1948, comprises coal, natural gas, natural gas liquids, and petroleum; beginning 1949, also includes asphalt and related bitumens, carbon dioxide, helium, and peat.

No. 1036. Principal Metals and Minerals—U.S. Production as Percent of World Production: 1964

[**In thousands of short tons, except as indicated**]

MINERAL	World production	As percent of world	MINERAL	World production	As percent of world
Fuels:			Metals, mine basis—Continued		
Coal	3,035,958	17	Mercury ... 1,000 76-lb. flasks	251	6
Petroleum (crude) ... 1,000 bbl	10,327,591	27	Molybdenum [4] ... 1,000 lb	94,400	69
Nonmetals:			Nickel [4]	427	3
Asbestos	3,540	3	Silver	249,500	15
Cement [1] ... 1,000 bbl	2,374,109	16	Titanium concentrates: [3]		
Feldspar ... 1,000 long tons	1,770	36	Ilmenite	2,576	39
Fluorspar	2,770	8	Rutile	212	4
Gypsum	51,530	21	Tungsten (WO_3 equiv.) short tons	64,900	14
Mica (including scrap) 1,000 lb	410,000	56	Vanadium [3 4] ... short tons	7,600	57
Nitrogen, agricultural [1 2 3]	15,400	29	Zinc [4]	4,395	13
Phosphate rock 1,000 long tons	57,910	40	Metals, smelter basis:		
Potash (K_2O equivalent)	13,000	22	Aluminum	6,730	38
Salt [1]	108,800	29	Copper	5,750	23
Sulfur, elemental 1,000 long tons	13,800	45	Iron, pig	350,092	25
Metals, mine basis:			Lead	2,830	16
Bauxite ... 1,000 long tons	33,145	5	Magnesium ... short tons	165,900	48
Copper [4]	5,420	23	Steel ingots and castings	480,780	26
Iron ore ... 1,000 long tons	566,716	15	Tin ... 1,000 long tons	189	3
Lead [4]	2,735	10	Uranium oxide (U_3O_8) [3] short tons	25,590	46
			Zinc	4,055	24

[1] Includes Puerto Rico. [2] For year ended June 30. [3] Excludes U.S.S.R. [4] Ore and concentrate.

Source of tables 1035 and 1036: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

No. 1037. Average Prices of Selected Mineral Products: 1936 to 1965

[Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1957*, series M 91, M 134, M 199, and M 238, for bituminous coal, crude petroleum, iron ore, and lead, respectively]

YEARLY AVERAGE OR YEAR	Iron ore [1] (Lake Erie ports)	Copper, electrolytic [2]	Lead (New York)	Tin (New York) [3]	Zinc (St. Louis)	Aluminum, delivered [4]	Sulfur, crude (f.o.b. works)	Bituminous coal [5]	Crude petroleum [6]
	Dol. per long ton	*Cents per lb.*	*Cents per lb.*	*Cents per lb.*	*Cents per lb.*	*Cents per lb.*	*Dol. per long ton*	*Dol. per short ton*	*Dol. per barrel*
1936–1940	4.76	10.980	5.138	48.39	5.495	20.12	17.10	1.88	1.09
1941–1945	4.47	11.779	6.355	52.01	8.095	15.37	16.00	2.64	1.19
1946–1950	6.29	19.451	13.897	85.32	11.765	16.09	17.48	4.46	2.20
1951–1955	9.36	28.877	15.330	106.00	13.610	20.96	23.88	4.75	2.66
1956–1960	11.33	32.078	13.388	99.26	11.919	25.00	24.50	4.84	2.93
1961–1965	10.71	31.620	12.247	136.08	12.646	24.04	23.90	4.47	2.89
1960	11.45	32.053	11.948	101.44	12.946	26.00	23.50	4.69	2.88
1963	10.65	30.600	11.137	116.65	11.997	22.62	23.50	4.39	2.89
1964	10.55	31.960	13.596	157.60	13.568	23.74	23.50	4.45	2.88
1965	10.55	35.017	16.000	178.20	14.500	24.51	25.50	4.45	2.88

[1] Lake Superior, Mesabi, non-Bessemer. [2] Domestic market. [3] Straits tin.
[4] Prices 1936–1955, for 99+ percent virgin ingot aluminum; beginning 1956, for 99+ percent unalloyed ingot.
[5] Average value at mine. Includes Alaska.
[6] Average value at well. Beginning 1958, includes Alaska, and 1959, Hawaii.

Source: Compiled from *Engineering Mining Journal; The Iron Age; Wholesale Prices and Price Indexes* (Bureau of Labor Statistics); and *Minerals Yearbook* and unpublished data (Bureau of Mines).

No. 1038. Mineral Production, 1960 to 1964, and Principal Producing States, 1964

[Value in thousands of dollars. Data represent production as measured by mine shipments, mine sales, or marketable production (including consumption by producers). See *Historical Statistics, Colonial Times to 1957*, series M 13-37, for selected values]

MINERAL	1960		1962		1963		1964		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Principal producing States in order of quantity
Total mineral production	(X)	18,032,000	(X)	18,838,000	(X)	19,615,000	(X)	20,472,000	(X)
Mineral fuels	(X)	12,142,000	(X)	12,784,000	(X)	13,295,000	(X)	13,585,000	(X)
Asphalt and related bitumens (native): Bituminous limestone and sandstone and gilsonite ... short tons	1,625,911	13,090	1,647,063	14,601	1,632,645	8,383	1,935,344	10,038	Tex., Utah, Ala., Mo.
Carbon dioxide, natural (estimated) ... 1,000 cubic feet	521,169	99	1,144,107	146	1,295,545	178	1,232,816	166	N. Mex., Colo., Utah, Calif.
Coal:									
Bituminous and lignite [1] ... 1,000 short tons	415,512	1,950,425	422,149	1,891,553	458,928	2,013,309	486,998	2,165,582	W. Va., Pa., Ky., Ill.
Pennsylvania anthracite ... 1,000 short tons	18,817	147,116	16,894	134,094	18,267	153,503	17,184	148,648	Pa.
Helium ... 1,000 cubic feet	475,179	7,768	599,519	20,905	627,344	21,957	667,440	23,360	Tex., Okla., N. Mex., Kans.
Natural gas ... million cubic feet	12,771,038	1,789,970	13,876,622	2,145,301	14,746,663	2,328,030	15,546,592	2,387,689	Tex., La., Okla., N. Mex.
Natural-gas liquids:									
Natural gasoline and cycle products ... 1,000 gallons	5,842,507	416,819	6,244,522	444,817	6,534,967	439,173	7,000,181	463,600	Tex., La., Okla., N. Mex.
LP-gases ... 1,000 gallons	8,444,074	391,566	9,409,083	353,334	10,302,250	359,770	10,743,591	362,792	
Peat ... short tons	470,889	5,138	566,441	5,186	546,621	5,423	639,365	6,181	Mich., Ind., Pa., Wash.
Petroleum (crude) ... 1,000 (42-gal.) bbl	2,574,933	7,420,181	2,676,189	7,774,051	2,752,723	7,965,743	2,786,822	8,017,078	Tex., La., Calif., Okla.
Nonmetallic minerals (except fuels)	(X)	3,868,000	(X)	4,117,000	(X)	4,318,000	(X)	4,622,000	(X)
Abrasive stone [2] ... short tons	2,539	240	2,653	260	1,693	255	3,186	292	(NA)
Aplite ... long tons	(D)	(3)	125,156	912	(D)	(3)	(D)	(3)	Va.
Asbestos ... short tons	45,223	4,231	53,190	4,677	66,396	5,108	101,092	8,143	Calif., Vt., Ariz., N.C.
Barite ... short tons	714,276	8,574	860,312	9,820	823,615	9,402	829,741	9,796	Mo., Ark., Nev., Ga.
Boron minerals ... short tons	640,591	47,550	646,613	49,336	700,183	54,981	776,000	60,871	Calif.
Bromine ... 1,000 pounds	175,010	44,637	190,747	46,617	203,333	48,558	286,813	65,316	Mich., Tex., Ark., Calif.
Cement:									
Portland ... 1,000 (376-lb.) bbl	321,646	1,089,134	325,476	1,070,371	342,036	1,095,884	358,378	1,145,108	Calif., Pa., Tex., Mich.
Masonry ... 1,000 (280-lb.) bbl			19,998	57,405	20,997	59,599	22,397	63,305	
Natural and slag ... 1,000 (376-lb.) bbl			402	1,611	352	1,407	283	1,057	
Clays ... 1,000 short tons	49,069	162,411	47,797	163,012	50,135	180,810	52,853	192,537	Ohio, Ga., Tex., Calif.
Emery ... short tons	8,169	142	4,316	71	6,732	119	9,214	172	N.Y.
Feldspar ... long tons	502,380	4,779	492,476	5,076	548,954	5,525	629,894	6,132	N.C., Calif., Conn., Ga.
Fluorspar ... short tons	229,782	10,391	206,026	9,166	199,948	9,001	217,137	9,723	Ill., Ky., Mont., Nev.
Garnet (abrasive) ... short tons	10,522	986	14,166	1,172	14,626	1,412	16,123	1,622	N.Y., Idaho.
Gem stones (estimated)	(4)	1,188	(4)	1,296	(4)	1,421	(4)	1,474	(NA)
Gypsum ... 1,000 short tons	9,825	35,690	9,969	36,343	10,388	38,138	10,684	38,874	Calif., Mich., Iowa, Tex.
Lime ... 1,000 short tons	12,935	172,731	13,752	186,754	14,521	199,389	16,089	223,167	Ohio, Pa., Mich., Tex.

See footnotes at end of table.

No. 1038. Mineral Production, 1960 to 1964, and Principal Producing States, 1964—Continued

[Value in thousands of dollars]

MINERAL	1960		1962		1963		1964		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Principal producing States in order of quantity
Nonmetallic minerals (except fuels)—Continued									
Magnesite ... short tons	498,528	2,051	492,471	1,621	527,655	1,779	(D)	(3)	Nev., Wash.
Magnesium compounds from sea water and brines (except for metals) ... short tons (MgO equivalent)	293,454	21,903	408,129	28,742	520,699	39,323	599,698	42,177	Mich., Calif., Tex., N.J.
Mica:									
Scrap ... short tons	97,912	2,698	107,702	2,639	109,323	2,776	114,729	3,353	N.C., Ga., Ala., S.C.
Sheet ... pounds	587,401	3,108	363,016	1,299	102,961	13	242,662	58	N.C.
Perlite ... short tons	312,153	2,665	320,330	2,663	325,132	2,727	349,867	3,073	N. Mex., Ariz., Nev., Calif.
Phosphate rock ... 1,000 long tons	17,516	117,041	19,382	134,304	19,855	139,861	22,960	161,067	Fla., Tenn., Idaho, Mont.
Potassium salts ... 1,000 short tons (K_2O equivalent)	2,638	89,676	2,452	94,859	2,864	110,164	2,897	114,100	N. Mex., Calif., Utah, Mich.
Pumice ... 1,000 short tons	2,210	5,569	2,271	6,301	2,618	6,578	2,776	6,443	Ariz., Oreg., Calif., Hawaii.
Pyrites ... 1,000 long tons	1,016	7,936	916	6,809	825	5,698	847	5,471	Tenn., Pa., Colo., Ariz.
Salt (common) ... 1,000 short tons	25,479	161,140	28,807	174,841	30,641	184,589	31,623	200,706	Tex., La., N.Y., Ohio.
Sand and gravel ... 1,000 short tons	709,792	720,432	776,701	794,725	821,850	847,272	868,779	894,092	Calif., Mich., N.Y., Ohio.
Sodium carbonate (natural) ... short tons	808,624	20,865	977,584	24,330	1,119,081	27,616	1,274,745	30,451	Wyo., Calif.
Sodium sulfate (natural) ... short tons	449,631	8,706	457,881	9,092	435,257	8,392	575,033	10,989	Calif., Tex., Wyo.
Stone [5] ... 1,000 short tons	616,784	952,555	656,954	1,025,697	688,366	1,068,108	725,269	1,134,335	Pa., Calif., Ill., Tex.
Sulfur:									
Frasch-process mines ... 1,000 long tons	5,003	115,494	4,917	107,069	4,995	99,014	5,859	117,228	Tex., La.
Other mines ... 1,000 long tons	181	1,732	151	1,439	1	15	794	8	Calif., Nev.
Talc, pyrophyllite and soapstone ... short tons	734,473	5,378	771,728	5,278	804,358	5,505	889,949	6,218	N.Y., Calif., N.C., Vt.
Tripoli ... short tons	57,713	247	61,732	244	66,635	266	64,613	268	Ill., Okla., Pa.
Vermiculite ... 1,000 short tons	199	3,108	205	3,293	226	3,572	226	3,613	Mont., S.C., Colo.
Nonmetallic minerals, undistributed [6]	(X)	42,664	(X)	49,436	(X)	53,150	(X)	60,392	(X)

Metals									
	(X)	2,022,000	(X)	1,937,000	(X)	2,006,000	(X)	2,265,000	(X)
Antimony ore and concentrate short tons (antimony content)	635	(7)	631	(7)	645	(7)	632	(7)	Idaho, Nev., Alaska.
Bauxite long tons (dried equivalent)	1,997,827	21,107	1,369,007	15,609	1,524,700	17,234	1,600,722	17,875	Ark., Ala., Ga.
Beryllium concentrate short tons (gross weight)	509	162	[8] 978	(7)	[8] 751	(7)	(D)	(7)	S. Dak.
Copper (recoverable content of ores, etc.) short tons	1,080,169	693,468	1,228,421	756,707	1,213,166	747,310	1,246,780	812,901	Ariz., Utah, Mont., N. Mex.
Gold (recoverable content of ores, etc.) troy ounces	1,666,772	58,336	1,542,511	53,990	1,454,010	50,889	1,456,308	50,971	S. Dak., Utah, Ariz., Wash.
Iron ore, usable (excluding byproduct iron sinter) 1,000 long tons (gross weight)	82,963	724,131	69,969	618,242	73,563	678,181	84,300	802,331	Minn., Mich., Calif., N.Y.
Lead (recoverable content of ores, etc.) short tons	246,669	57,722	236,956	43,602	253,369	54,727	286,010	74,935	Mo., Idaho, Utah, Colo.
Manganese ore (35 percent or more Mn) short tons (gross weight)	80,021	5,352	24,758	(7)	10,622	(7)	26,058	(7)	Mont., N. Mex.
Manganiferous ore (5 to 35 percent Mn) short tons (gross weight)	658,455	4,466	338,501	(7)	543,125	(7)	238,776	(7)	Minn., N. Mex., Mont.
Mercury 76-pound flasks	33,223	7,002	26,277	5,024	19,117	3,623	14,142	4,452	Calif., Nev., Alaska, Ariz.
Molybdenum (content of concentrate) 1,000 pounds	69,941	87,406	50,506	69,390	65,839	91,096	65,097	97,121	Colo., Utah, Ariz., N. Mex.
Nickel (content of ore and concentrate) short tons	14,079	(7)	13,110	(7)	13,394	(7)	15,420	(7)	Oreg.
Silver (recoverable content of ores, etc.) 1,000 troy ounces	30,766	27,846	36,798	39,929	35,243	45,076	36,334	46,980	Idaho, Ariz., Mont., Utah.
Titanium concentrate:									
Ilmenite short tons (gross weight)	789,237	14,655	809,037	13,974	890,071	16,529	1,003,997	19,178	N.Y., Fla., N.J., Va.
Rutile short tons (gross weight)	9,226	957	8,033	933	11,311	1,262	10,547	1,016	
Tungsten ore and concentrate short tons (60-percent WO_3 basis)	7,325	9,815	8,429	11,639	5,657	7,202	9,244	11,251	Calif., Colo., N.C., Nev.
Uranium ore short tons	7,970,211	152,188	7,052,870	138,294	5,645,921	115,821	5,666,252	116,297	N. Mex., Colo., Utah, Wash.
Vanadium (recoverable in ore and concentrate) short tons	4,971	17,749	5,211	18,605	3,862	13,788	4,362	13,061	Colo., Utah, Idaho, Ariz.
Zinc (recoverable content of ores, etc.) short tons	435,427	112,365	505,491	116,413	529,254	122,533	574,858	156,308	Tenn., N.Y., Idaho, Colo.
Metals, undistributed [9]	(X)	26,903	(X)	35,071	(X)	36,827	(X)	40,357	(X)

D Withheld to avoid disclosing individual company data.
NA Not available. X Not applicable.
[1] Includes small quantity of anthracite mined in States other than Pennsylvania.
[2] Grindstones, pulpstones, millstones (weight not recorded), grinding pebbles, sharpening stones, and tube-mill liners.
[3] Included with "Nonmetallic minerals, undistributed."
[4] Weight not recorded.
[5] Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table. Includes calcareous marl and slate.
[6] Comprises value of items that cannot be disclosed: Calcium-magnesium chloride, diatomite, epsom salts from epsomite (1962–64) graphite, iodine, kyanite, lithium minerals, greensand marl, olivine, staurolite (1960–64), wollastonite, and values indicated by footnote reference 3.
[7] Included with "Metals undistributed."
[8] Includes 760 short tons of low-grade beryllium ore in 1962, and 750 short tons in 1963.
[9] Comprises value of items that cannot be disclosed: Chromite, cobalt, magnesium chloride for magnesium metal, manganiferous residuum, platinum-group metals (crude), rare earth metal concentrates, tin, zirconium concentrate, and values indicated by footnote reference 7.

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

No. 1039. Mineral Production—Value, 1960 to 1964, and Rank and Principal Minerals in Order of Value, 1964, by States

[In thousands of dollars]

STATE	1960	1962	1963	1964		
				Value	Rank	Principal minerals in order of value
U.S.[1]	18,032,000	18,838,000	19,615,000	20,472,000	(X)	Petroleum, natural gas, coal, cement.
N.E.	91,775	98,892	100,668	111,769	(X)	
Maine	14,108	14,947	14,104	17,574	47	Sand and gravel, cement, stone, peat.
N.H.	5,439	6,032	6,091	7,302	48	Sand and gravel, stone, feldspar, clays.
Vt.	22,903	25,130	24,391	26,127	44	Stone, asbestos, sand and gravel, talc.
Mass.	28,245	30,035	32,661	36,367	43	Sand and gravel, stone, lime, clays.
R.I.	5,727	2,994	2,807	2,549	49	Sand and gravel, stone, gem stones.
Conn.	15,353	19,754	20,614	21,850	45	Stone, sand and gravel, lime, feldspar.
M.A.	1,155,537	1,130,162	1,189,761	1,268,667	(X)	
N.Y.	260,922	240,972	259,074	288,445	18	Cement, stone, sand and gravel, salt.
N.J.	56,469	65,686	73,276	78,172	35	Stone, sand and gravel, zinc, iron ore.
Pa.	838,146	823,504	857,411	902,050	4	Coal, cement, stone, iron ore.
E.N.C.	1,723,306	1,707,000	1,768,778	1,883,358	(X)	
Ohio	406,142	396,055	418,980	454,937	14	Coal, stone, cement, lime.
Ind.	210,932	203,426	203,966	211,783	23	Coal, cement, stone, petroleum.
Ill.	589,874	592,718	586,962	591,136	8	Coal, petroleum, stone, sand and gravel.
Mich.	437,598	446,512	492,029	555,495	9	Iron ore, cement, copper, sand and gravel.
Wis.	78,760	68,289	66,841	70,007	37	Sand and gravel, stone, cement, zinc.
W.N.C.	1,493,613	1,424,659	1,476,229	1,544,348	(X)	
Minn.	515,521	428,936	453,543	497,495	13	Iron ore, sand and gravel, stone, cement.
Iowa	99,319	96,561	97,670	106,630	29	Cement, stone, sand and gravel, gypsum.
Mo.	162,244	153,307	158,988	189,305	25	Stone, cement, lead, iron ore.
N. Dak.	78,378	90,619	94,703	92,866	30	Petroleum, sand and gravel, natural gas, coal.
S. Dak.	47,675	45,787	54,116	52,824	41	Gold, sand and gravel, cement, stone.
Nebr.	103,942	108,373	98,907	91,959	31	Petroleum, sand and gravel, cement, stone.
Kans.	486,534	501,076	518,302	513,269	11	Petroleum, natural gas, cement, natural gas liquids.
S.A.[1]	1,338,939	1,388,095	1,471,075	1,582,373	(X)	
Del.	989	1,531	1,341	1,742	50	Sand and gravel, stone, clays.
Md.	57,697	66,629	70,250	73,893	36	Stone, cement, sand and gravel, coal.
Va.	208,880	222,494	229,064	237,415	19	Coal, stone, cement, sand and gravel.
W. Va.	722,628	715,464	768,242	822,691	6	Coal, natural gas, natural gas liquids, stone.
N.C.	45,096	54,597	44,525	56,470	40	Stone, sand and gravel, cement, feldspar.
S.C.	30,987	33,901	36,479	38,713	42	Cement, stone, clays, sand and gravel.
Ga.	92,305	107,705	119,476	127,958	28	Clays, stone, cement, sand and gravel.
Fla.	180,286	185,700	201,620	223,409	21	Phosphate rock, stone, cement, clays.
E.S.C.	981,103	985,221	1,029,482	1,066,227	(X)	
Ky.	414,553	398,536	432,693	444,379	15	Coal, petroleum, stone, natural gas.
Tenn.	145,538	154,019	160,725	173,965	27	Stone, zinc, cement, coal.
Ala.	221,802	219,785	215,870	235,690	20	Coal, cement, stone, petroleum.
Miss.	199,210	212,881	220,194	212,193	22	Petroleum, natural gas, sand and gravel, cement.
W.S.C.	7,059,412	7,759,425	8,110,681	8,374,144	(X)	
Ark.	159,519	153,955	167,284	174,789	26	Petroleum, stone, bauxite, cement.
La.	1,990,895	2,426,623	2,638,389	2,785,007	2	Petroleum, natural gas, natural gas liquids, sulfur.
Okla.	782,579	855,290	877,534	881,270	5	Petroleum, natural gas, natural gas liquids, cement.
Tex.	4,126,419	4,323,557	4,427,474	4,533,078	1	Petroleum, natural gas, natural gas liquids, cement.
Mt.	2,606,281	2,687,613	2,724,807	2,849,609	(X)	
Mont.	179,406	190,656	182,018	211,435	24	Petroleum, copper, sand and gravel, stone.
Idaho	57,606	82,614	82,787	86,262	32	Silver, lead, zinc, phosphate rock.
Wyo.	439,256	462,570	502,237	504,846	12	Petroleum, natural gas, uranium, iron ore.
Colo.	345,418	308,164	317,144	316,011	17	Petroleum, molybdenum, coal, sand and gravel.
N. Mex.	653,766	675,814	688,606	720,124	7	Petroleum, potassium salts, natural gas, copper.
Ariz.	417,225	474,131	481,115	534,364	10	Copper, sand and gravel, cement, molybdenum.
Utah	432,712	410,590	385,423	391,430	16	Copper, petroleum, coal, uranium.
Nev.	80,892	83,074	85,477	85,137	33	Copper, sand and gravel, iron ore, diatomite.
Pac.	1,581,490	1,657,308	1,743,510	1,791,308	(X)	
Wash.	72,404	68,474	71,430	80,977	34	Sand and gravel, cement, stone, zinc.
Oreg.	55,772	52,458	62,692	64,269	39	Sand and gravel, stone, cement, nickel.
Calif.	1,422,087	1,467,340	1,526,241	1,560,510	3	Petroleum, natural gas, cement, sand and gravel.
Alaska	21,860	54,192	67,840	65,947	38	Petroleum, sand and gravel, coal, gold.
Hawaii	9,367	14,844	15,307	19,605	46	Cement, stone, sand and gravel, pumice.

X Not applicable. [1] Includes District of Columbia, not shown separately.

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

No. 1040. Principal Minerals—Net Supply and Components of Gross Supply, 1963 and 1964, and Imports Distributed by Area of Origin, 1963

[In thousands of short tons, except as indicated. Net supply is the sum of primary shipments, secondary production, and imports, minus exports. Gross supply is the total before subtraction of exports]

Commodity	Net supply		Gross supply: percent from—						Imports for consumption, 1963: percent from—				
			Primary shipments		Secondary production		Imports						
	1963	1964	1963	1964	1963	1964	1963	1964	Canada and Mexico	East and South Pacific [1]	Other Western Hemisphere	Other free world	U.S.S.R. bloc [2]
Ferrous ores, scrap, and metals:													
Chromite (Cr_2O_3 content)	601	643	-	-	-	-	100	100	-	-	-	90	10
Cobalt (content) ... 1,000 lb.	[3] 10,768	[3] 12,591	(D)	(D)	[4] 2	[4] 1	98	99	6	-	-	94	-
Iron (equivalent) [5]	100,970	118,585	48	46	[6] 30	[6] 30	22	24	54	10	33	3	-
Manganese (content)	1,038	997	6	4	-	-	[7] 94	[7] 96	6	1	40	53	-
Molybdenum (content) ... 1,000 lb.	39,012	37,705	100	100	-	-	(Z)	(Z)	-	-	-	100	-
Nickel (content)	139	151	10	11	4	4	86	85	92	-	-	8	-
Tungsten ore and concentrate (W content) ... short tons	4,758	4,119	57	58	-	-	[7] 43	[7] 42	4	6	27	63	-
Other metallic ores, scrap, and metals:													
Aluminum (equivalent) [8]	2,678	2,809	11	10	4	4	85	86	2	-	95	3	-
Antimony (recoverable content)	39,203	40,191	4	4	53	54	[7] 43	[7] 42	[9] 25	[9] 6	[9] 7	[9] 62	-
Cadmium (content) ... short tons	[10] 4,834	[10] 5,062	[10 11] 36	[10 11] 34	(11)	(11)	[10] 64	[10] 66	[12] 73	[12] 13	[12] 2	[12] 12	-
Copper (content)	1,858	1,978	56	54	19	21	[7] 25	[7] 25	25	69	(Z)	6	-
Lead (content)	1,119	1,156	23	25	42	46	[7] 35	[7] 29	40	34	5	21	-
Mercury ... 76-lb. flasks	72,322	76,500	26	18	15	30	59	52	13	12	2	73	-
Platinum-group metals ... 1,000 troy oz.	1,107	1,188	4	3	[13] 10	[13] 9	86	88	15	-	3	59	23
Tin (content) ... 1,000 long tons	55,499	47,786	(D)	(D)	22	27	78	73	6	-	4	90	-
Titanium concentrates: Rutile, ilmenite and slag (TiO_2 content)	682	720	92	96	-	-	108	104	46	47	-	7	-
Zinc (recoverable content)	1,018	1,034	50	54	6	6	[7] 44	[7] 40	71	14	4	11	-
Nonmetallic minerals:													
Asbestos	724	840	9	12	-	-	91	88	96	(Z)	-	4	-
Barite, crude	1,402	1,429	59	58	-	-	41	42	50	18	-	32	-
Fluorspar, finished	832	968	24	22	-	-	76	78	79	-	-	21	-
Gypsum, crude	15,531	16,702	65	63	-	-	35	37	97	-	3	(Z)	-
Mica (except scrap) ... 1,000 lb.	9,349	10,834	1	2	-	-	99	98	-	-	17	83	-
Potash (K_2O equivalent)	2,878	3,165	82	80	-	-	18	20	4	(Z)	-	93	3
Sulfur, all forms (content) ... 1,000 long tons	[14] 6,140	[14] 6,515	[14] 88	[14] 88	-	-	[14] 12	[14] 12	100	-	-	(Z)	-

- Represents zero. D Withheld to avoid disclosing individual company data. X Not applicable. Z Less than 0.5 percent. [1] Australia, New Caledonia, New Zealand, and west coast of South America (Chile, Ecuador, and Peru). [2] Albania, Bulgaria, China, Czechoslovakia, East Germany, Hungary, North Korea, North Viet-Nam, Poland, Romania, and U.S.S.R. [3] Secondary production and imports only. [4] Consumption of purchased scrap. [5] Includes iron ore, pig iron, and scrap. [6] Receipts of purchased scrap. [7] General imports. [8] Calculated from the percentage of bauxite mine production (rather than shipments): Bauxite imports, and alumina imports used in producing aluminum metal, and converted to aluminum equivalent. [9] Excludes antimony from foreign silver and lead ores. [10] Primary shipments are calculated as a percentage of total primary production of metal, as part of domestic primary output is recovered from foreign raw material sources. The quantities recovered from imported raw materials plus imports of cadmium metal are accounted for under imports. [11] Secondary statistics are included in the primary statistics to avoid disclosing company confidential data. [12] Metal and flue dust only. [13] Recovery from both old and new scrap. [14] Includes sulfur content of pyrites production.

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

No. 1041. Summary of Value of Raw Materials in Constant Dollars, by Major Groups: 1940 to 1961

[In millions of 1954 dollars. Includes outlying areas except for agricultural materials, which also exclude Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series M 38-50, for minerals figures]

Item and year	All raw materials [1]	Agricultural materials			Fishery and wildlife products	Forest products	Minerals			
		Total	Crops	Livestock			Total [1]	Metallic ores [1]	Mineral fuels	Other minerals
Production:										
1940	31,315	19,459	8,010	11,449	391	2,531	8,934	1,248	6,789	897
1950	38,779	23,383	9,381	14,002	421	2,714	12,261	1,387	9,342	1,532
1955	44,753	26,899	10,965	15,934	438	2,793	14,623	1,578	10,905	2,140
1957	45,800	27,242	10,829	16,413	460	2,609	15,489	1,636	11,549	2,304
1958	45,473	28,206	12,192	16,014	454	2,586	14,227	1,229	10,704	2,294
1959	46,313	28,219	11,564	16,655	442	2,868	14,784	1,106	11,207	2,471
1960	48,184	29,728	12,733	16,995	450	2,692	15,314	1,455	11,325	2,534
1961	47,690	29,193	11,739	17,454	446	2,659	15,392	1,389	11,451	2,602
Imports:										
1940	5,934	4,218	3,651	567	247	175	1,294	945	239	110
1950	8,063	4,871	4,076	795	295	379	2,518	1,382	865	271
1955	8,644	4,726	4,151	575	336	404	3,178	1,607	1,303	268
1957	9,429	4,900	4,303	597	368	374	3,787	1,853	1,634	300
1958	9,206	4,926	4,143	783	375	383	3,522	1,436	1,825	261
1959	10,154	5,658	4,705	953	434	445	3,617	1,524	1,777	316
1960	10,036	5,490	4,698	792	423	420	3,694	1,498	1,902	294
1961	10,253	5,678	4,763	915	479	449	3,647	1,419	1,947	281
Exports:										
1940	2,321	1,238	1,084	154	71	90	922	430	452	40
1950	3,523	2,684	2,274	410	42	83	714	202	438	74
1955	4,208	2,975	2,296	679	62	100	1,071	379	593	99
1957	6,089	4,361	3,730	631	67	99	1,562	519	928	115
1958	4,809	3,669	3,127	542	58	91	991	374	506	111
1959	4,920	3,907	3,322	585	74	108	831	300	411	120
1960	6,294	4,949	4,360	589	75	125	1,145	610	398	137
1961	6,394	5,052	4,412	640	76	121	1,145	639	367	139
Apparent consumption: [2]										
1940	34,054	21,565	9,736	11,829	567	2,616	9,306	1,763	6,576	967
1950	43,515	25,766	11,218	14,548	674	3,010	14,065	2,567	9,769	1,729
1955	47,994	27,455	11,299	16,156	712	3,097	16,730	2,806	11,615	2,309
1957	49,271	27,911	11,424	16,487	762	2,884	17,714	2,970	12,255	2,489
1958	48,276	27,869	11,519	16,350	771	2,878	16,758	2,291	12,023	2,444
1959	50,733	29,156	12,095	17,061	802	3,205	17,570	2,330	12,573	2,667
1960	50,891	29,233	12,029	17,204	799	2,996	17,863	2,343	12,829	2,691
1961	51,586	29,855	12,305	17,550	850	2,987	17,894	2,119	13,031	2,744

[1] Excludes gold.
[2] Represents "production" plus "imports" minus "exports," except for agricultural materials, for which "consumption" is adjusted for a major portion of stock changes.

Source: Dept. of Commerce, Bureau of the Census; *Raw Materials in the United States Economy: 1900-1961*, Working Paper No. 6.

No. 1042. Bureau of Mines Indexes of Mineral Production and Value: 1940 to 1965

[1957-59=100. Includes Puerto Rico, and, beginning 1955, outlying areas of U.S. See *Historical Statistics, Colonial Times to 1957*, series M 51-62, for indexes of physical volume on 1947-49 base]

Year	Physical volume of production				Implicit unit value [1]			
	All minerals	Metals	Nonmetals	Mineral fuels	All minerals	Metals	Nonmetals	Mineral fuels
1940	65.1	113.1	36.6	65.8	38.4	45.8	53.3	34.7
1945	76.4	97.9	38.8	82.5	47.6	48.4	60.6	46.8
1950	85.2	111.8	64.2	87.1	81.8	73.4	82.7	83.6
1955	98.9	118.2	89.0	99.0	98.8	103.9	96.4	92.5
1957	104.8	122.1	96.1	104.6	100.9	102.5	98.6	101.2
1958	95.9	93.3	97.4	95.9	99.6	95.5	99.5	100.0
1959	99.4	84.5	105.4	99.6	99.5	101.5	101.9	98.6
1960	102.1	107.5	108.0	100.3	100.9	106.8	100.7	99.3
1961	102.9	103.3	110.3	101.2	101.1	102.8	100.4	100.5
1962	106.0	106.2	115.4	104.0	101.6	103.6	99.7	101.3
1963	110.8	107.6	121.7	108.8	101.4	106.7	98.9	100.8
1964	115.0	115.6	129.5	111.9	102.0	114.6	99.1	100.2
1965 (prel.)	118.7	122.6	134.2	115.0	102.9	119.1	99.0	100.6

[1] Reflects unit price change; obtained by dividing an index of value by index of physical volume. For details, see *Minerals Yearbook, 1961*, Vol. I.

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

No. 1043. Federal Reserve Board Production Indexes—Mining and Metals: 1950 to 1965

[1957-59=100. Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series M 63-66, for indexes on 1947-49 base]

ITEM	1950	1955	1960	1963	1964	1965 (prel.)
Mining	83	99	102	108	111	114
Coal, oil, and gas	85	100	100	107	110	112
Coal	126	110	94	103	107	112
Crude oil	77	98	101	108	110	112
Gas and gas liquids	61	88	113	129	136	143
Metal, stone, and earth minerals	75	96	111	112	118	125
Metal mining	91	104	112	112	117	123
Stone and earth minerals	65	91	110	112	119	127
Primary metals	100	118	101	113	129	138
Iron and steel	103	121	101	110	127	134
Nonferrous metals and products	86	108	103	127	138	152

Source: Board of Governors of the Federal Reserve System; *Industrial Production, 1957-59 Base*, and *Federal Reserve Bulletin*.

No. 1044. Imports and Exports of Selected Mineral and Metal Products: 1950 to 1965

[**Quantities in thousands of short tons, except as indicated; value in thousands of dollars.** Includes trade of Puerto Rico with foreign countries]

MINERAL	QUANTITY				VALUE			
	1950	1960	1964	1965	1950	1960	1964	1965
IMPORTS FOR CONSUMPTION								
Fuels: Petroleum, crude..mil. barrels	174	401	483	501	369,208	895,055	1,080,290	1,118,220
Nonmetallic minerals:								
Asbestos	705	669	699	684	47,284	63,345	68,137	65,878
Diamonds:								
Gem ..... 1,000 carats	1,166	2,167	2,645	3,160	102,187	165,555	258,533	307,285
Industrial ..... 1,000 carats	11,198	13,146	13,864	12,241	37,001	51,837	59,021	53,957
Mica	19	11	8	7	23,660	8,305	7,059	8,807
Ores and concentrates:								
Bauxite ..... 1,000 long tons	2,516	9,586	11,292	12,702	15,730	78,024	128,787	142,989
Chromite	1,304	1,387	143	1,513	23,299	24,313	22,713	25,239
Copper ..... 1,000 short tons of metal	94	83	43	11	35,899	49,380	25,430	6,570
Iron ore ..... 1,000 long tons	8,297	34,584	42,417	45,105	44,027	321,939	421,337	443,807
Lead ..... 1,000 short tons of metal	96	138	128	129	21,184	27,911	21,789	26,923
Manganese ore	2,017	2,280	3,035	3,892	41,882	82,357	77,260	110,281
Nickel [1] ..... 1,000 short tons of metal	27	30	28	31	18,087	29,937	32,027	41,226
Tin ..... 1,000 long tons of metal	26	14	9	4	47,163	31,104	11,539	13,228
Tungsten ..... short tons of metal	8,024	1,762	1,574	1,809	15,309	3,478	2,008	3,886
Metals (incl. scrap): [2]								
Aluminum	245	160	402	554	62,517	77,406	164,791	226,699
Copper	366	177	118	137	145,344	113,224	70,815	93,715
Lead [3]	422	221	224	461	110,644	62,417	53,274	69,692
Nickel	64	80	107	136	54,124	116,679	158,897	206,430
Platinum group ..... 1,000 troy ounces	391	650	911	1,220	21,123	31,900	52,330	72,877
Tin [4] ..... 1,000 long tons	86	40	33	41	155,092	87,968	101,762	160,389
Zinc	158	122	138	159	39,448	29,829	32,551	43,609
EXPORTS [5]								
Fuels:								
Anthracite	3,892	1,440	1,575	851	62,502	28,803	22,060	11,488
Bituminous coal	25,468	36,541	47,969	50,270	206,545	331,616	441,216	466,463
Petroleum, crude ..... 1,000 barrels	34,824	3,087	1,361	1,004	102,717	8,032	3,806	2,841
Nonmetallic minerals:								
Cement, hydraulic ..... 1,000 barrels	2,418	187	713	748	7,275	1,135	3,290	4,288
Phosphate rock	2,052	4,761	6,331	862	14,874	37,585	52,630	10,595
Potash material	117	833	1,048	1,099	5,534	25,926	37,586	42,502
Sulfur [6] ..... 1,000 long tons	1,479	1,787	1,928	2,651	33,200	42,294	40,938	65,548
Metals (incl. scrap): [2]								
Aluminum [7] ..... short tons	1,461	364,493	277,237	242,190	353	155,104	113,704	104,984
Copper [7]	154	615	431	424	61,281	356,628	267,005	312,051
Iron and steel, scrap [8]	217	8,040	7,898	6,170	6,014	241,572	243,333	197,459
Molybdenum [7] ..... short tons	73	148	702	55	115	368	3,630	414
Nickel [7] ..... short tons	[9] 3,176	42,633	54,168	6,723	3,219	10,289	13,770	4,168
Zinc [7]	19	90	39	19	4,708	20,815	11,070	7,900

[1] Includes matte and oxide. [2] Excludes semifabricated forms, except as noted.
[3] Includes alloys in chief value of lead. [4] Includes alloys in chief value of tin.
[5] Includes shipments under foreign aid programs such as UNRRA, interim aid, European recovery, mutual security, and civilian supply.
[6] Includes crude (containing 85 percent or more sulfur), crushed, ground, refined, sublimed, and flowers.
[7] Includes alloys. [8] Includes tin plated and terne plated scrap. [9] Includes some semifabricated forms.

Source: Dept. of Commerce, Bureau of the Census; unpublished data.

No. 1045. Strategic and Critical Materials Inventory: 1960, 1964, and 1965

[**In millions of dollars.** As of December 31. Covers strategic and critical materials essential to military and industrial requirements in time of national emergency. Market values are estimated current trade values of similar materials and not necessarily amount that would be realized at time of sale]

INVENTORY	1960		1964		1965	
	Acquisition cost	Market value	Acquisition cost	Market value	Acquisition cost	Market value
Total	**8,969**	**7,962**	**8,435**	**8,042**	**8,071**	**7,843**
On order	428	413	56	60	38	39
On hand	8,540	7,549	8,379	7,982	8,033	7,804
Within stockpile objectives	4,366	4,345	3,380	3,560	3,328	3,667
Excess to stockpile objectives	4,174	3,204	4,999	4,422	4,705	4,138
National stockpile	6,130	5,706	5,558	5,774	5,285	5,642
Supplemental stockpile	840	799	1,384	1,289	1,403	1,317
Defense Production Act	1,457	935	1,426	909	1,341	841
Commodity Credit Corporation	104	100	10	10	4	4
Federal Facilities Corporation	10	9	(X)	(X)	(X)	(X)

X Not applicable.

Source: General Services Administration; unpublished data.

No. 1046. Strategic and Critical Materials—Defense Production Act Purchases, Inventory, and Sales: 1950 to 1965

[**In thousands of dollars.** Covers period December 1950–December 1965]

COMMODITY	Total purchases	Dec. 31, 1965, inventory at cost	SALES FROM INVENTORY		Dec. 31, 1965, market value of inventory
			Received from sales	Government cost	
Total	**2,696,951**	**1,341,821**	**1,252,263**	**1,348,892**	**841,652**
Aluminum (pig)	647,553	387,399	255,956	260,136	376,555
Aluminum (sheet)	4,783	-	5,036	4,783	-
Asbestos	2,103	2,097	1	5	1,426
Bauxite	25,304	18,168	7,085	7,136	15,948
Beryllium	1,966	1,426	427	541	839
Bismuth	52	-	92	52	-
Chrome	38,584	35,880	2,468	2,704	14,384
Cobalt	56,660	52,075	3,996	4,585	41,360
Columbium-tantalum	79,789	60,101	11,807	19,688	15,156
Copper	136,256	1,845	150,938	131,966	2,018
Cryolite	15,353	3,112	7,211	12,242	1,690
Fluorspar	14,962	1,395	10,279	13,568	887
Graphite	178	-	29	177	-
Lead	15,146	-	13,240	15,146	-
Magnesium	122,755	-	110,860	122,755	-
Manganese	226,349	174,647	30,167	51,702	56,447
Mercury	6,803	-	6,826	6,803	-
Mica	53,251	41,323	3,961	11,928	19,264
Molybdenum	39,890	-	38,457	39,890	-
Nickel-Nicaro	146,818	-	178,747	146,818	-
Nickel, other	306,104	70,646	175,615	233,815	58,563
Scrap (nonferrous)	533	-	426	533	-
Tin	176,593	-	175,025	176,593	-
Titanium	184,176	178,601	4,696	5,574	57,013
Tungsten	367,272	313,106	37,249	52,034	180,102
Zinc	27,718	-	21,669	27,718	-

- Represents zero.

Source: General Services Administration; unpublished data.

No. 1047. Employment in Mineral Industries, by Industry Group: 1940 to 1964

[**Man-days and man-hours in thousands.** Excludes Alaska and Hawaii, except as noted. Excludes data on iron smelting and steel industries]

ITEM	1940	1950	1960	1961	1962	1963	1964 [1]
Men working daily [2]	(NA)	(NA)	1,045,111	951,378	950,876	926,700	905,278
Coal mines [3]	533,267	483,239	189,679	167,568	161,286	157,126	156,444
Coke	19,962	24,347	16,463	13,534	13,080	13,043	13,447
Petroleum and natural gas	(NA)	517,787	511,107	452,721	469,256	461,021	427,697
Asphalt and related bitumens [4]	(NA)	(NA)	445	383	358	417	369
Metal mines [3]	110,340	68,292	60,595	54,251	52,287	47,844	50,900
Nonmetal mines [5]	9,780	11,977	18,653	18,281	16,917	15,570	16,800
Sand and gravel operations	(NA)	(NA)	52,352	55,726	53,599	52,804	55,400
Stone quarries [6]	79,509	85,730	95,304	91,371	92,241	91,960	94,600
Slag (iron-blast furnace)	(NA)	(NA)	1,680	1,682	1,462	1,421	1,440
Metallurgical plants	49,068	46,277	58,689	56,065	54,807	51,088	53,400
Ore-dressing plants	49,068	14,956	22,529	20,518	19,983	18,016	18,600
Nonferrous reduction plants and smelters		31,321	36,160	35,547	34,824	33,072	34,800
Nonmetal mills	(NA)	(NA)	39,568	39,031	34,900	33,732	34,000
Man-days worked	(NA)	(NA)	(NA)	119,517	115,584	114,575	119,066
Coal mines [3]	106,239	91,231	35,778	32,551	31,716	32,200	33,216
Coke	6,774	8,292	5,768	4,791	4,691	4,596	4,807
Asphalt and related bitumens [4]	(NA)	(NA)	117	98	100	108	94
Metal mines [3]	26,631	18,522	14,910	13,416	12,924	12,096	13,111
Nonmetal mines [5]	2,416	3,512	4,515	4,347	3,979	3,990	4,264
Sand and gravel operations	(NA)	(NA)	(NA)	12,117	11,690	11,400	11,951
Stone quarries [6]	19,121	23,346	(NA)	23,524	23,393	23,553	24,462
Slag (iron-blast furnace)	(NA)	(NA)	(NA)	415	362	358	380
Metallurgical plants	14,484	14,539	18,149	17,669	17,501	16,712	17,058
Ore-dressing plants	14,484	4,348	6,689	6,186	6,123	5,472	5,586
Nonferrous reduction plants and smelters		10,191	11,459	11,483	11,378	11,240	11,472
Nonmetal mills	(NA)	(NA)	10,679	10,471	9,112	9,452	9,590
Man-hours worked	(NA)	(NA)	2,082,521	1,913,481	1,917,475	1,898,476	1,871,395
Coal mines [3]	840,416	711,390	281,528	255,296	248,946	253,185	261,428
Coke	53,624	65,861	46,066	38,306	37,502	36,759	38,418
Petroleum and natural gas	(NA)	1,081,519	1,063,332	951,743	984,172	974,877	910,525
Asphalt and related bitumens [4]	(NA)	(NA)	948	792	800	873	762
Metal mines [3]	211,740	147,765	119,653	107,678	103,867	97,111	105,420
Nonmetal mines [5]	18,988	28,456	36,805	35,517	32,484	32,539	34,520
Sand and gravel operations	(NA)	(NA)	95,749	101,707	97,589	95,786	100,760
Stone quarries [6]	147,244	189,535	202,366	192,705	193,453	193,685	201,790
Slag (iron-blast furnace)	(NA)	(NA)	3,613	3,361	2,927	2,867	3,040
Metallurgical plants	113,116	116,430	145,210	141,415	140,138	133,893	137,110
Ore-dressing plants	113,116	34,815	53,638	49,552	49,163	43,874	44,760
Nonferrous reduction plants and smelters		81,615	91,572	91,862	90,975	90,019	92,350
Nonmetal mills	(NA)	(NA)	86,386	83,925	74,621	75,944	76,500

NA Not available.
[1] Preliminary except for anthracite coal, coke, petroleum and natural gas, peat, native asphalt, and slag.
[2] Average number of men at work each day mine was active. Because absenteeism and labor turnover are taken into consideration, this number is lower than number of men available for work as measured by a count of names on payroll.
[3] Includes Alaska. [4] Native.
[5] Beginning 1960, includes clay mines. Includes Alaska; beginning 1960, includes Hawaii.
[6] Includes manufacture of cement and lime. Beginning 1960, includes Alaska and Hawaii.

Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, and unpublished data.

No. 1048. Mineral Industries—

[For 1954 and 1958, details for individual industries exclude Alaska and Hawaii; totals, however, include them. "N.e.c." means not elsewhere classified. See also

	Mineral industry	1954			1958			
		Establishments	Payroll [1]	Value added in mining [2]	Establishments	All employees: Number [3]	All employees: Payroll [1]	Value added in mining [2]
			Mil. dol.	*Mil. dol.*			*Mil. dol.*	*Mil. dol.*
1	**All industries**	37,641	3,395	[7] 11,559	36,384	733,904	3,749	13,384
2	**Metal mining**	3,668	469	[7] 1,084	2,351	91,582	486	1,180
3	Iron ores	225	157	436	243	30,113	169	488
4	Copper ores	210	136	335	157	27,642	144	266
5	Lead and zinc ores	520	71	107	290	11,227	54	74
6	Lead ores	343	39	63	213	6,883	34	48
7	Zinc ores	177	32	45	77	4,344	21	26
8	Gold and silver ores	695	25	42	477	4,415	23	42
9	Lode gold	313	12	22	251	2,586	12	23
10	Placer gold	281	7	10	165	840	5	9
11	Silver ores	101	6	10	61	989	6	10
12	Bauxite	25	4	13	29	705	4	15
13	Ferroalloy ores	1,086	39	107	297	5,438	27	74
14	Manganese ores	367	9	18	186	2,099	9	20
15	Tungsten ores and ferroalloy ores, n.e.c.	719	29	89	111	3,339	18	54
16	Metal mining services	114	15	27	95	2,184	12	23
17	Miscellaneous metal ores	781	21	[7] 15	763	9,790	53	196
18	Titanium ores	10	4	11	11	962	4	13
19	Uranium-radium-vanadium ores	637	15	(NA)	603	7,939	44	175
20	Mercury ores and misc. metal ores	134	2	4	149	889	4	9
21	**Anthracite mining**	1,436	136	197	1,248	22,813	93	164
22	Anthracite	1,291	118	167	1,163	19,712	79	142
23	Anthracite mining services	145	18	30	85	3,101	14	22
24	**Bituminous coal and lignite mining**	6,865	877	1,424	6,940	187,963	915	1,616
25	Bituminous coal	6,653	866	1,397	6,725	185,933	905	1,591
26	Lignite	60	3	9	58	510	3	9
27	Coal mining services, n.e.c.	152	6	13	157	1,520	7	15
28	**Oil and gas extraction**	17,591	1,463	[9] 7,674	18,522	312,916	1,701	9,032
29	Crude petroleum and natural gas	11,513	836	6,129	12,010	180,121	1,043	7,340
30	Crude petroleum	10,106	791	5,741	10,620	164,804	967	6,823
31	Natural gas	1,407	45	388	1,390	15,317	76	517
32	Natural gas liquids	562	85	(NA)	593	16,514	96	588
33	Oil and gas field services	5,515	542	1,119	5,919	116,281	561	1,108
34	Drilling oil and gas wells	2,869	304	624	3,066	59,411	289	587
35	Oil and gas exploration services	330	49	81	348	9,557	44	64
36	Oil and gas field services, n.e.c.	2,316	188	413	2,505	47,278	228	456
37	**Nonmetallic minerals mining**	8,081	450	1,180	7,323	118,630	553	1,392
38	Dimension stone [10]	351	9	15	335	2,306	7	13
39	Crushed and broken stone [11]	[12] 1,919	145	338	1,970	41,730	190	449
40	Sand and gravel [11]	3,939	147	357	3,708	37,159	173	435
41	Clay and related minerals [11]	632	27	78	490	8,773	36	87
42	Chemical and fertilizer minerals	305	99	341	264	21,899	121	337
43	Barite	44	4	14	53	929	3	11
44	Fluorspar	104	5	10	55	1,235	6	13
45	Potash, soda, and borate minerals	20	33	82	21	6,661	41	111
46	Phosphate rock	75	22	62	65	5,393	27	64
47	Rock salt	15	9	30	22	1,984	11	34
48	Sulfur	20	21	124	24	3,677	25	94
49	Chemical and fertilizer mining, n.e.c.	27	6	18	24	2,020	8	10
50	Nonmetallic minerals, services	62	2	5	75	1,109	4	6
51	Miscellaneous nonmetallic minerals [11]	872	20	48	481	5,654	24	63

NA Not available. Z Less than $500,000.

[1] Gross earnings paid to all employees on payroll.

[2] Computed by subtracting cost of supplies, minerals received for preparation, purchased fuel and electric energy, contract work, and purchased machinery from the value of shipments and capital expenditures.

[3] Excludes proprietors and firm members of unincorporated concerns.

[4] Represents employees up through the working foreman level engaged in manual work. Includes development and exploration workers.

[5] Excludes paid vacations, holidays, and sick leave; includes actual overtime hours (not straight-time equivalent).

[6] Represents value of shipments of primary and secondary products of the industry and amount received for services performed for other establishments on a contract, fee, or other basis.

SUMMARY: 1954, 1958, AND 1963

Excludes establishments for which both value of shipments and expenditures amounted to less than $500. *Historical Statistics, Colonial Times to 1957*, series M 1-12]

1963									
Establishments	All employees		Production workers [4]			Value added in mining [2]	Value of shipments and receipts [6]	Capital expenditures	
	Number [3]	Payroll [1]	Number	Man-hours [5]	Wages				
		Mil. dol.		*1,000*	*Mil. dol.*	*Mil. dol.*	*Mil. dol.*	*Mil. dol.*	
[8] 38,649	615,238	3,741	481,039	972,109	2,676	15,850	21,548	3,228	1
1,614	77,797	522	62,182	125,663	384	1,418	2,128	231	2
208	23,083	162	18,102	34,524	113	549	762	97	3
160	26,486	187	21,372	45,319	142	417	670	87	4
205	9,422	49	7,822	14,781	38	84	136	12	5
125	4,320	22	3,401	5,948	15	34	51	6	6
80	5,102	27	4,421	8,833	23	50	85	6	7
466	4,216	25	3,585	7,605	20	49	60	7	8
201	2,397	14	2,091	4,544	11	21	27	3	9
158	361	2	325	731	2	6	8	1	10
107	1,458	9	1,169	2,330	7	22	26	3	11
17	552	3	414	751	2	17	21	(Z)	12
58	3,102	20	2,627	4,867	15	66	91	6	13
17	224	1	180	351	1	2	7	(Z)	14
41	2,878	19	2,447	4,516	14	64	83	5	15
83	2,206	14	1,891	4,018	11	25	32	3	16
417	8,730	61	6,369	13,798	42	210	355	19	17
8	997	6	846	1,721	5	15	22	2	18
335	7,252	52	5,114	11,251	34	191	326	16	19
74	481	3	409	826	2	4	7	1	20
1,069	11,786	59	10,324	19,544	50	121	237	15	21
1,026	10,692	53	9,331	17,758	45	111	221	13	22
43	1,094	6	993	1,786	5	10	16	2	23
6,305	133,862	762	118,629	217,642	651	1,607	2,396	218	24
6,115	132,046	752	116,975	214,421	642	1,578	2,358	211	25
59	512	3	441	884	2	12	14	5	26
131	1,304	7	1,213	2,337	6	17	24	3	27
[8] 21,240	270,555	1,737	191,549	396,474	1,090	10,959	14,440	2,516	28
[8] 14,376	144,323	1,009	83,017	165,431	492	8,956	9,821	2,174	29
[8] 12,324	124,921	885	71,280	141,973	424	7,747	8,521	1,871	30
[8] 2,052	19,402	124	11,737	23,458	68	1,209	1,299	303	31
652	13,859	97	11,939	24,455	81	762	2,801	114	32
6,212	112,373	632	96,593	206,588	517	1,241	1,818	228	33
2,836	55,416	318	50,333	106,266	281	653	979	148	34
373	8,683	48	7,232	16,246	37	90	120	12	35
3,003	48,274	266	39,028	84,076	199	498	719	68	36
8,421	121,238	661	98,355	212,786	502	1,745	2,347	248	37
319	2,156	8	1,970	3,820	7	15	20	1	38
2,256	43,236	229	36,186	80,834	178	582	795	83	39
4,616	40,142	212	33,042	70,620	170	514	678	76	40
423	8,316	42	7,147	15,061	34	114	162	15	41
235	21,040	137	14,595	31,213	86	433	577	60	42
54	1,434	7	911	1,887	4	11	17	1	43
30	804	4	682	1,346	3	9	16	(Z)	44
23	7,050	52	4,822	9,849	33	156	192	27	45
66	5,624	32	3,996	9,047	21	95	162	22	46
25	2,443	16	1,812	4,260	11	50	59	7	47
17	2,603	21	1,600	3,264	11	100	113	1	48
20	1,082	6	772	1,560	4	12	18	1	49
119	871	5	806	1,575	4	9	13	1	50
453	5,477	28	4,609	9,663	23	78	102	12	51

[7] Excludes figures for uranium-radium-vanadium ores industry (not available).
[8] Not strictly comparable with data for earlier years because of change in reporting procedures for crude petroleum and natural gas companies.
[9] Data were collected on the quantity but not on the cost of gas received for processing and on the value of residue gas shipped. Such costs have been estimated and included in group totals.
[10] Excludes data for dimension stone quarries operated in conjunction with dressing plants.
[11] Excludes data for mining included in establishments, classified in manufacturing industries.
[12] Excludes 1 crushed stone quarry in Hawaii operated as part of an establishment primarily producing ready-mixed concrete.

Source: Dept. of Commerce, Bureau of the Census; *Census of Mineral Industries: 1958* and *Census of Mineral Industries: 1963*.

No. 1049. Injuries in Mineral Industries, by Industry Group: 1940 to 1964

[Excludes Alaska and Hawaii, except as noted. Excludes data on iron smelting and steel industries. See also *Historical Statistics, Colonial Times to 1957*, series M 259–274]

ITEM	1940	1950	1960	1961	1962	1963	1964 [1]
Fatal injuries	1,716	952	603	542	647	568	538
Coal mines [2]	1,388	643	325	294	289	284	240
Coke	15	14	3	3	11	7	1
Petroleum and natural gas [3]	(NA)	109	82	111	121	93	109
Asphalt and related bitumens [4]	(NA)	(NA)	1	1	–	2	2
Metal mines [2]	209	84	84	50	61	41	54
Nonmetal mines [5]	14	19	19	15	14	31	18
Sand and gravel	(NA)	(NA)	25	21	51	33	33
Stone quarries [6]	72	54	39	32	67	61	61
Slag (iron-blast furnace)	(NA)	(NA)	–	–	–	2	1
Metallurgical plants	18	29	12	9	24	12	13
Nonmetal mills	(NA)	(NA)	13	6	9	2	6
Nonfatal injuries	80,856	66,729	36,044	34,173	33,067	32,659	33,151
Coal mines [2]	57,776	37,264	11,902	11,197	10,944	11,133	11,432
Coke	544	780	223	193	252	213	204
Petroleum and natural gas [3]	(NA)	13,500	9,110	8,697	9,336	9,125	8,551
Asphalt and related bitumens [4]	(NA)	(NA)	38	30	13	35	30
Metal mines [2]	13,940	6,611	3,794	3,669	3,263	3,075	3,335
Nonmetal mines [5]	826	1,238	1,056	861	944	857	880
Sand and gravel	(NA)	(NA)	1,919	1,814	2,093	1,894	1,905
Stone quarries [6]	5,188	4,762	4,668	4,280	3,299	3,468	3,780
Slag (iron-blast furnace)	(NA)	(NA)	34	30	29	35	55
Metallurgical plants	2,582	2,574	1,482	1,705	1,492	1,337	1,395
Nonmetal mills	(NA)	(NA)	1,794	1,680	1,383	1,476	1,560
Injury rates per million man-hours:							
Fatal injuries	1.24	0.41	0.29	0.28	0.34	0.30	0.29
Coal mines [2]	1.65	0.90	1.15	1.15	1.16	1.12	0.92
Coke	0.28	0.21	0.07	0.08	0.29	0.19	0.03
Petroleum and natural gas [3]	(NA)	0.10	0.08	0.12	0.12	0.10	0.12
Asphalt and related bitumens [4]	(NA)	(NA)	1.06	1.26	–	2.29	2.62
Metal mines [2]	0.99	0.57	0.70	0.46	0.59	0.42	0.51
Nonmetal mines [5]	0.74	0.67	0.52	0.42	0.43	0.95	0.52
Sand and gravel	(NA)	(NA)	0.26	0.21	0.52	0.34	0.33
Stone quarries [6]	0.49	0.28	0.19	0.17	0.35	0.31	0.30
Slag (iron-blast furnace)	(NA)	(NA)	–	–	–	0.70	0.33
Metallurgical plants	0.16	0.25	0.08	0.06	0.17	0.09	0.09
Nonmetal mills	(NA)	(NA)	0.15	0.07	0.12	0.03	0.08
Nonfatal injuries	58.37	28.51	17.31	17.86	17.25	17.20	17.71
Coal mines [2]	68.75	52.38	42.28	43.86	43.96	43.97	43.73
Coke	10.14	11.84	4.84	5.04	6.72	5.79	5.31
Petroleum and natural gas [3]	(NA)	12.48	8.57	9.14	9.49	9.36	9.39
Asphalt and related bitumens [4]	(NA)	(NA)	40.10	37.90	16.25	40.11	39.37
Metal mines [2]	65.84	44.74	31.71	34.07	31.42	31.66	31.64
Nonmetal mines [5]	43.50	43.51	28.69	24.24	29.06	26.34	25.49
Sand and gravel	(NA)	(NA)	20.04	17.84	21.45	19.77	18.91
Stone quarries [6]	35.23	25.12	23.07	22.21	17.05	17.91	18.73
Slag (iron-blast furnace)	(NA)	(NA)	9.41	8.93	9.91	12.21	17.46
Metallurgical plants	22.83	22.11	10.21	12.06	10.65	9.99	10.17
Nonmetal mills	(NA)	(NA)	20.77	20.02	18.53	19.44	20.38

– Represents zero. NA Not available.

[1] Preliminary except for anthracite coal, coke, petroleum and natural gas, peat, native asphalt, and slag.

[2] Includes Alaska.

[3] Beginning 1960, number of fatalities and permanent total injuries at petroleum and natural gas operations are combined. Fatal-frequency rates 1960–1962 include an unknown number of permanent total injuries which cannot be separated from fatal injuries.

[4] Native.

[5] Beginning 1960, includes clay mines. Includes Alaska; beginning 1960, includes Hawaii.

[6] Includes manufacture of cement and lime. Beginning 1960, includes Alaska and Hawaii.

Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, and unpublished data.

No. 1050. Coal—Summary: 1940 to 1964

[Quantities in thousands of short tons; values in millions of dollars, except as indicated. Includes coal consumed at mines. See also *Historical Statistics, Colonial Times to 1957*, series M 88–108 and M 118–132]

Item	Bituminous [1]				Anthracite (Pa.) [2]			
	1940	1950	1960	1964	1940	1950	1960	1964
Production:								
Quantity	460, 772	516, 311	415, 512	486, 998	51, 485	44, 077	18, 817	17, 184
Value, total	879	2, 500	1, 950	2, 166	205	392	147	149
Average per ton ... dollars	1. 91	4. 84	4. 69	4. 45	3. 99	8. 90	7. 82	8. 65
Exports:								
Quantity	16, 466	25, 468	36, 541	47, 969	2, 668	3, 892	1, 440	1, 575
Value	61	207	332	441, 216	21	63	23	22, 060
Imports:								
Quantity	372	347	260	[3] 293	135	18	1	([3])
Value	2	2	2	[3] 2, 289	1	(Z)	(Z)	([3])
Consumption	430, 910	454, 202	380, 429	431, 116	[4] 49, 000	[4] 39, 900	[4] 17, 600	[4] 14, 400
Number of mines	6, 324	9, 429	7, 865	7, 630	(NA)	(NA)	[5] 1, 365	(NA)
Average number of men employed	439, 075	[6] 415, 582	[6] 169, 400	[6] 128, 698	91, 313	72, 624	19, 051	13, 144
Average number of days worked	202	183	191	225	186	211	176	214
Average tons per man:								
Per day	5. 19	6. 77	12. 83	16. 84	3. 02	2. 83	5. 60	6. 11
Per year	1, 049	1, 239	2, 453	3, 784	562	597	986	1, 308
World production (incl. lignite) mil. short tons	[3] 1, 983	[3] 1, 997	[3] 2, 899	[3] [7] 3, 036	([3])	([3])	([3])	([3])

Z Less than $500,000.
[1] Relates to mines having output of 1,000 tons a year or more, including lignite and small output of anthracite produced outside Pennsylvania.
[2] Beginning 1950, production includes some bootleg coal purchased by anthracite industry for preparation and shipment to market; employment, however, excludes such purchased coal, as complete employment data on "bootleg" holes are not available. Beginning 1951, data not strictly comparable with earlier years. See *Minerals Yearbook*, 1951.
[3] Anthracite included with bituminous. [4] Represents apparent consumption.
[5] Includes 1,055 deep mines, 174 strip pits, 110 culm and silt banks, and 26 dredges.
[6] Average number of men working daily. [7] Preliminary.

Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, and unpublished data.

No. 1051. Coal—Production, by States: 1941 to 1964

[In thousands of short tons. Includes coal consumed at mines]

State	1941–1945, avg.	1946–1950, avg.	1951–1955, avg.	1956–1960, avg.	1960	1962	1963	1964
Total	**636, 037**	**595, 972**	**496, 725**	**469, 288**	**434, 329**	**439, 043**	**477, 195**	**504, 182**
Anthracite (Pa.)	59, 195	52, 323	33, 898	22, 975	18, 817	16, 894	18, 267	17, 184
Bituminous and lignite	576, 842	543, 649	462, 827	446, 313	415, 512	422, 149	458, 928	486, 998
Alabama	17, 783	16, 278	12, 176	12, 413	13, 011	12, 880	12, 359	14, 435
Colorado	7, 830	5, 360	3, 554	3, 394	3, 607	3, 379	3, 690	4, 355
Illinois	68, 442	60, 034	46, 781	46, 090	45, 977	48, 487	51, 736	55, 023
Indiana	25, 216	21, 500	16, 232	15, 659	15, 538	15, 709	15, 100	15, 075
Kentucky	64, 020	74, 791	66, 426	69, 038	66, 847	69, 212	77, 350	82, 747
Missouri	3, 947	3, 720	2, 873	2, 898	2, 890	2, 896	3, 174	3, 254
Ohio	32, 190	35, 458	35, 847	35, 379	33, 957	34, 125	36, 790	37, 310
Pennsylvania	138, 876	120, 441	89, 680	74, 839	65, 425	65, 315	71, 501	76, 531
Tennessee	7, 184	5, 520	5, 923	7, 086	5, 931	6, 213	6, 121	5, 990
Utah	6, 012	6, 613	6, 025	5, 642	4, 955	4, 297	4, 360	4, 720
Virginia	19, 121	17, 190	20, 399	28, 400	27, 838	29, 474	30, 531	31, 654
West Virginia	154, 335	151, 153	138, 858	134, 167	118, 944	118, 499	132, 568	141, 409
Wyoming	8, 664	6, 889	4, 704	2, 060	2, 024	2, 569	3, 124	3, 101
Other States	23, 222	18, 702	13, 349	9, 247	8, 568	9, 094	10, 524	11, 394

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

No. 1052. Bituminous Coal and Lignite—Consumption, by Consumer Class: 1940 to 1965

[In thousands of short tons. See also *Historical Statistics, Colonial Times to 1957*, series M 108-116]

Year	Total	Electric power utilities [1]	Bunker, foreign and lake vessels [2]	Railroads (class I) [3]	Manufacturing and mining industries: Beehive coke plants	Oven coke plants	Steel and rolling mills [4]	Cement mills	Other [4]	Retail-dealer deliveries [4]
1940	430,910	49,126	2,989	85,130	4,803	76,583	14,169	5,559	107,864	84,687
1945	559,567	71,603	3,192	125,120	8,135	87,214	14,241	4,203	126,562	119,297
1950	454,202	88,262	2,042	60,969	9,088	94,757	10,877	7,923	95,862	84,422
1955	423,412	140,550	1,499	15,473	2,869	104,508	7,353	8,529	89,611	53,020
1958	366,703	152,928	955	3,725	1,017	75,563	7,268	8,256	81,372	35,619
1959	366,256	165,788	969	2,600	1,827	77,354	6,674	8,510	73,396	29,138
1960	380,429	173,882	945	2,101	1,640	79,375	7,378	8,216	76,487	30,405
1961	374,405	179,629	770	(5)	1,496	72,385	7,495	7,615	77,280	27,735
1962	387,774	190,833	687	(5)	1,339	72,923	7,319	7,719	78,766	28,188
1963	409,225	209,038	670	(5)	1,613	76,020	7,401	8,138	82,797	23,548
1964	431,116	223,032	711	(5)	2,025	86,732	7,394	8,679	82,928	19,615
1965(prel.)	458,976	242,729	658	(5)	2,519	92,094	7,466	8,848	85,614	19,048

[1] Source: Federal Power Commission. Represents consumption by public-utility power plants in power generation, including a small quantity of coke.
[2] Source: Bureau of the Census.
[3] Source: Association of American Railroads. Represents consumption by class I railways for all uses, including locomotive, powerhouse, shop, and station fuel.
[4] Estimates based on reports collected from a selected list of representative steel and rolling mills, manufacturing plants and retailers.
[5] Canvass discontinued.

Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*. Compiled from sources cited in footnotes.

No. 1053. Coke—Summary, and Production of Oven Coke, by States: 1940 to 1965

[In thousands of short tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for exports and imports. See *Historical Statistics, Colonial Times to 1957*, series M 117, for production]

Item and state	1940	1950	1960	1962	1963	1964	1965 (prel.)
Production	57,072	72,718	57,229	51,910	54,278	62,145	66,466
Oven coke [1]	54,014	66,891	56,219	51,098	53,308	60,908	64,924
Percent of total	94.6	92.0	98.2	98.4	98.2	98.0	97.7
Beehive coke	3,058	5,827	1,010	812	971	1,236	1,542
Value of products at plant ... mil. dol.	442	1,279	1,382	1,228	1,231	1,420	1,465
Coke and breeze ... mil. dol.	282	996	1,075	963	977	1,129	1,154
All coal-chemical materials ... mil. dol.	160	283	307	265	254	291	311
Average market value per ton [2] ... dollars	4.80	13.43	18.31	18.09	17.54	17.74	17.80
Coal charged ... mil. short tons	81.4	94.9	81.4	74.7	78.1	89.2	95.3
Average value per ton ... dollars	3.58	8.41	9.82	9.77	9.40	9.19	9.40
Yield of coke from coal ... percent	70.1	69.9	70.3	69.5	69.5	69.3	70.2
Ovens in existence, end of year ... number	27,884	32,690	22,903	19,540	19,493	19,710	17,790
Slot ovens under construction, end of year ... number	492	706	372	75	50	–	130
Exports	804	398	353	364	451	524	834
Imports	113	438	126	142	153	103	90
Production of oven coke, by State: [1]							
Alabama	4,727	5,833	4,897	4,110	4,282	4,689	5,489
Indiana	6,413	8,256	8,024	7,027	7,541	8,170	8,315
Maryland	1,683	2,367	(3)	(3)	(3)	3,411	(3)
Michigan	2,872	2,731	3,279	3,165	3,460	3,908	3,977
New York	5,080	5,412	(3)	(3)	(3)	3,658	(3)
Ohio	7,898	10,314	8,423	6,849	6,340	7,244	7,665
Pennsylvania	14,862	16,333	14,146	13,986	15,245	17,594	18,840
West Virginia	1,900	3,389	2,758	2,610	3,008	3,390	3,521
Other States	8,579	12,256	14,692	13,352	13,431	8,845	17,117

– Represents zero.
[1] Excludes screenings or breeze.
[2] For 1940 and 1950, data based on value at plant and not comparable with following years.
[3] Included in "Other States."

Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, and unpublished data.

No. 1054. Producing Oil Wells, 1963 and 1964, and Oil and Gas Wells Drilled, 1964 and 1965, 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 [2]		Wells drilled [1]: Dry	
	1963	1964	1963	1964	1964	1965	1964	1965	1964	1965
Total	**588,657**	**588,225**	**12.7**	**12.9**	**20,620**	**18,761**	**4,855**	**4,724**	**17,488**	**16,016**
Ala	502	519	52.8	45.5	17	13	–	–	32	23
Alaska	54	56	555.2	549.4	4	11	2	13	15	4
Ark	6,010	6,018	12.6	12.1	167	100	48	44	206	190
Calif	40,233	40,916	20.7	20.2	1,616	1,622	123	62	550	484
Colo	2,030	1,981	50.7	47.3	99	113	70	53	395	410
Ill	30,149	29,500	6.8	6.4	665	602	17	8	801	608
Ind	5,951	5,381	5.6	5.4	224	140	2	10	321	312
Kans	46,951	46,715	6.4	6.2	2,259	1,466	219	206	1,700	1,422
Ky	14,903	15,226	2.9	3.6	485	379	194	177	655	559
La	27,638	29,452	52.2	52.6	2,542	2,413	538	542	2,250	2,144
Mich	4,234	4,151	10.3	10.2	84	44	53	36	385	288
Miss	2,682	2,580	61.3	59.0	188	201	18	15	513	523
Mont	3,642	3,329	23.1	24.0	142	194	16	10	251	293
Nebr	1,726	1,711	34.3	30.4	136	93	2	1	320	327
N. Mex	16,796	17,570	18.3	18.1	720	495	340	303	403	314
N.Y	13,431	12,526	0.3	0.4	123	375	45	18	57	39
N. Dak	1,824	1,881	37.9	38.0	113	91	–	–	162	148
Ohio	14,605	13,752	1.1	3.1	737	715	288	263	1,452	911
Okla	81,475	80,511	6.8	6.8	2,256	2,183	464	549	1,286	1,277
Pa	54,062	53,065	0.2	0.3	370	572	358	286	148	128
Texas	198,070	199,119	13.5	13.6	6,747	6,183	1,328	1,343	4,650	4,814
Utah	835	840	108.6	93.2	50	71	19	27	109	71
W. Va	13,044	13,205	0.7	0.7	411	257	652	695	170	115
Wyo	7,611	8,019	52.1	49.1	455	398	51	58	529	492
Other States	199	202	13.3	17.3	10	30	8	5	128	120

– Represents zero.
[1] Figures from *The Oil and Gas Journal*. [2] Includes condensate wells.

No. 1055. Petroleum, Crude—Production, 1946 to 1965, and Reserves, 1955, 1960, and 1965, by States

[**In millions of barrels of 42 gallons.** See also *Historical Statistics, Colonial Times to 1957*, series M 133 and M 137]

State	Production: 1946–1950, avg.	Production: 1951–1955, avg.	Production: 1956–1960, avg.	Production: 1955	Production: 1960	Production: 1965 (prel.)	Proved reserves [1] (Dec. 31): 1955	Proved reserves [1] (Dec. 31): 1960	Proved reserves [1] (Dec. 31): 1965
Total	**1,885**	**2,339**	**2,567**	**2,484**	**2,575**	**2,849**	**30,012**	**31,613**	**31,352**
Alabama	(2)	1	5	1	7	8	(2)	(2)	66
Alaska	–	–	–	–	1	11	–	(2)	160
Arkansas	30	29	29	28	30	26	330	302	201
California	330	358	324	355	305	316	3,801	3,659	4,567
Colorado	18	39	51	53	47	34	334	364	327
Illinois	67	66	79	81	77	64	691	556	371
Indiana	8	12	12	11	12	11	61	66	57
Kansas	105	117	120	122	113	105	998	884	752
Kentucky	10	13	20	16	21	19	107	129	108
Louisiana	177	250	341	271	401	595	3,255	4,785	5,246
Michigan	17	13	11	11	16	15	59	78	53
Mississippi	36	36	44	38	52	56	388	407	360
Montana	9	12	27	16	30	33	299	267	274
Nebraska	–	6	21	11	24	17	58	86	71
New Mexico	44	68	99	83	107	119	820	1,084	895
New York	5	4	2	3	2	2	43	32	12
North Dakota	–	5	16	11	22	26	186	431	395
Ohio	3	4	6	4	5	13	56	75	101
Oklahoma	149	194	204	203	193	203	2,016	1,791	1,517
Pennsylvania	12	10	7	9	6	5	93	108	77
Texas	812	1,016	1,004	1,053	927	1,001	14,934	14,758	14,303
Utah	(2)	2	22	2	38	25	37	208	197
West Virginia	3	3	2	2	2	4	47	51	55
Wyoming	50	83	118	99	134	138	1,374	1,427	1,169
Other States [3]	2	1	1	1	1	2	25	65	18

– Represents zero.
[1] From Reports of Committee on Petroleum Reserves, American Petroleum Institute. Figures for California, Louisiana, and Texas include offshore reserves. [2] Included in "Other States."
[3] Prior to 1960, excludes Hawaii.

Source of tables 1054 and 1055: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

No. 1056. Crude Petroleum, Refined Products, and Natural-Gas Liquids—Production and Stocks: 1930 to 1964

[In millions of barrels of 42 gallons, except as indicated. Excludes Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1957*, series M 133-136 and M 168-177]

ITEM	1930	1940	1950	1955	1960 [1]	1962 [1]	1963 [1]	1964 [1]
Crude petroleum:								
Domestic production	898	1,353	1,974	2,484	2,575	2,676	2,753	2,787
Value at wells ... mil. dol.	1,070	1,385	4,963	6,870	7,420	7,774	7,966	8,017
World production	1,412	2,144	3,803	5,626	7,689	8,882	9,537	10,328
U.S. proportion of world total ... percent	64	63	52	44	33	30	29	27
Imports [2]	62	43	178	285	372	411	413	439
Exports [2]	24	51	35	12	3	2	2	1
Stocks, end of period:								
Gasoline-bearing crude	409	265	} 248	266	240	252	237	230
California heavy crude	(3)	12						
Runs to stills	927	1,294	2,095	2,730	2,953	3,070	3,171	3,242
Average price per barrel at wells ... dol.	1.19	1.02	2.51	2.77	2.88	2.90	2.89	2.88
Refined products:								
Imports [2]	43	41	133	170	293	349	362	388
Exports [2]	133	79	76	123	71	60	74	72
Stocks, end of period [4]	[3] 254	281	327	436	516	551	564	573
Output of motor fuel	441	617	1,024	1,374	1,522	1,583	1,625	1,706
Yield of gasoline ... percent	42.0	43.1	43.0	44.0	45.1	44.8	44.1	45.2
Completed refineries, end of year	435	556	357	318	311	308	304	300
Daily crude-oil capacity	3.9	4.7	7.0	8.6	10.0	10.1	10.4	10.8
Average dealer's net price (excl. tax) of gasoline in 50 U.S. cities [5] cents per gal.	14.49	9.08	15.10	16.18	16.08	15.45	15.22	14.82
Natural-gas liquids:								
Production	53	56	182	281	340	373	401	420
Stocks, end of period	2	6	7	14	29	31	34	36

[1] Includes Alaska and Hawaii.
[2] Excludes trade between Alaska (prior to 1960), Hawaii, Puerto Rico, and foreign countries. Exports include shipments from conterminous U.S. to Alaska, Hawaii, and outlying areas.
[3] Figure for California heavy crude included in refined products.
[4] Beginning 1955, new basis; not comparable with earlier years.
[5] Beginning 1955, figures from Platt's Oilgram Price Service; prior years from American Petroleum Institute.

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

No. 1057. Petroleum—Runs to Stills and Refinery Products, by Class: 1950 to 1965

[In millions of barrels of 42 gallons. Excludes Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1957*, series M 152-167]

PRODUCT	1950	1955	1960	1962	1963	1964	1965 (prel.)
Input	2,190	2,857	3,119	3,252	3,361	3,436	3,527
Crude petroleum	2,095	2,730	[1] 2,953	3,070	3,171	3,223	3,301
Domestic	1,919	2,447	[1] 2,582	2,660	2,758	2,786	2,848
Foreign	176	283	371	410	413	437	453
Natural-gas liquids	95	126	167	183	190	213	226
Output	2,190	2,857	3,119	3,252	3,361	3,436	3,527
Gasoline [2]	998	1,332	1,510	1,571	1,604	1,675	1,694
Special naphthas	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	29
Kerosene	119	117	136	156	165	168	93
Distillate fuel oil	399	603	667	720	765	742	765
Residual fuel oil	425	420	332	296	276	267	269
Jet fuel	–	57	88	102	99	108	191
Lubricants	52	56	59	61	63	64	63
Wax (1 bbl.=280 lb.)	4	5	6	5	5	5	6
Coke (5 bbl.=1 sh. ton)	17	28	60	79	81	84	86
Asphalt (5.5 bbl.=1 sh. ton)	58	83	99	110	112	115	124
Road oil	7	8	6	7	7	6	6
Still gas (1 bbl.=3,600 cu. ft.)	84	117	129	131	130	131	135
Liquefied gases	29	44	78	77	56	59	56
Petrochemical feedstocks	(NA)	(NA)	(NA)	(NA)	91	105	108
Other finished products	5	11	24	30	13	13	14
Other unfinished oils (net) [3]	*7*	*11*	*22*	*28*	*32*	*27*	*32*
Shortage [4]	*1*	*12*	*53*	*64*	*74*	*79*	*80*

– Represents zero. NA Not available.
[1] Includes part-year operations of 1 refinery in Hawaii. [2] Includes crude gasoline.
[3] Negative quantities; represent net excess of unfinished oils rerun over unfinished oils produced.
[4] Negative quantities.

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

No. 1058. Natural Gas—Production, Consumption, and Value: 1930 to 1964

[Excludes Hawaii, and prior to 1960, Alaska. See also *Historical Statistics, Colonial Times to 1957*, series M 138–147

ITEM	1930	1940	1950	1955	1960	1963	1964
Total marketed production [1] ... bil. cu. ft.	1,943	2,660	6,282	9,405	12,771	14,747	15,547
Value (at wells) of gas produced ... mil. dol.	147	120	409	978	1,790	2,328	2,388
Average per 1,000 cu. ft. ... cents	7.6	4.5	6.5	10.4	14.0	15.8	15.4
Number of producing gas wells, Dec. 31	55,020	53,880	64,900	71,475	90,761	102,966	103,084
Total consumption ... bil. cu. ft.	**1,942**	**2,655**	**6,026**	**9,070**	**12,509**	**14,640**	**15,536**
Residential ... bil. cu. ft.	296	444	1,198	2,124	3,103	3,589	3,787
Commercial ... bil. cu. ft.	81	135	388	629	1,020	1,268	1,375
Industrial ... bil. cu. ft.	1,565	2,076	4,440	6,317	8,386	9,784	10,374
Value (at point of consumption) of gas consumed ... mil. dol.	**416**	**577**	**1,604**	**3,626**	**6,270**	**7,497**	**8,020**
Residential ... mil. dol.	201	316	826	1,885	3,209	3,750	3,990
Commercial ... mil. dol.	39	64	184	395	791	996	1,059
Industrial ... mil. dol.	176	197	593	1,346	2,270	2,751	2,971
Average per 1,000 cu. ft. ... cents	21.4	21.7	26.6	40.0	50.1	51.2	51.6
Residential ... cents	67.8	71.1	69.0	88.7	103.4	104.5	105.4
Commercial ... cents	47.8	47.8	47.6	62.7	77.5	78.6	77.1
Industrial ... cents	11.3	9.5	13.4	19.6	27.1	28.1	28.6
Number of consumers:							
Residential ... 1,000	5,035	9,245	16,906	26,084	31,148	33,451	34,575
Commercial ... 1,000	413	741	1,347	2,140	2,584	2,788	2,884

[1] Beginning 1950, comprises gas sold or consumed by producers, including losses in transmission, amounts added to storage, and increases in gas in pipelines.

No. 1059. Natural-Gas Liquids—Production and Value: 1930 to 1964

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series M 148–151]

ITEM	1930	1940	1950	1955	1960	1963	1964
Total produced ... mil. gal.	**(NA)**	**(NA)**	**7,642**	**11,818**	**14,287**	**16,837**	**17,744**
Natural gasoline and natural gasoline mixtures [1] ... mil. gal.	2,210	2,174	3,229	4,457	4,479	4,899	5,287
Liquefied petroleum gases ... mil. gal.	(NA)	(NA)	3,036	5,973	8,444	10,302	10,744
Cycle products ... mil. gal.	-	166	1,378	1,388	1,363	1,636	1,713
Value at plants:							
Natural gasoline [1] ... $1,000	128,160	[2] 68,261	213,810	313,075	313,058	320,131	341,714
Liquefied petroleum gases ... $1,000	(NA)	(NA)	97,773	195,231	391,566	359,770	362,792
Cycle products ... $1,000	-	(2)	108,022	110,700	103,761	119,042	121,886
Average value per gallon, all light products ... cents	[3] 5.8	[3] 2.9	5.5	5.2	5.7	4.7	4.7
Natural gas processed ... bil. cu. ft.	2,089	2,471	5,342	8,186	9,768	12,430	13,248
Average yield, all light products gal. per 1,000 cu. ft.	(NA)	(NA)	1.43	1.44	1.46	1.35	1.34

- Represents zero. NA Not available.
[1] Beginning 1955, includes isopentane; included in LP-gases for prior years.
[2] Cycle products included with natural gasoline. [3] Excludes LP-gases.

Source of tables 1058 and 1059: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

No. 1060. Estimates of Natural Gas Reserves: 1950 to 1965

[**In billions of cubic feet.** Prior to 1961, excludes Alaska. Volumes calculated at a pressure base of 14.73 pounds per square inch, absolute, and at a standard temperature of 60° F. See *Historical Statistics, Colonial Times to 1957*, series M 142, for estimated reserves calculated at a pressure base of 14.65 pounds]

YEAR	NATURAL GAS ADDED DURING YEAR			Net increase in underground storage	Net production during year	Estimated proved reserves as of end of year	Increase over previous year
	Total	Extensions and revisions	Discoveries of new fields and new pools in old fields				
1950	11,984	9,123	2,862	54	6,855	184,585	5,183
1955	21,898	16,210	5,688	87	10,063	222,483	11,922
1959	20,621	14,852	5,769	160	12,373	261,170	8,409
1960	13,894	7,293	6,601	281	13,019	262,326	1,156
1961	17,166	10,259	6,908	160	13,379	266,274	3,947
1962	19,484	13,185	6,299	159	13,638	272,279	6,005
1963	18,165	12,587	5,578	254	14,546	276,151	3,872
1964	20,252	13,343	6,909	195	15,347	281,251	5,100
1965	21,320	14,776	6,544	150	16,252	286,469	5,217

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

No. 1061. Natural Gas—Production, 1930 to 1964, and Reserves, 1955, 1960, and 1964, by States

[In billions of cubic feet]

STATE	NATURAL GAS—MARKETED PRODUCTION [1]						NATURAL GAS RESERVES [2]		
	1930	1940	1950	1955	1960	1964	1955	1960	1964
Total	**1,943**	**2,660**	**6,282**	**9,405**	**12,771**	**15,547**	**223,697**	**263,759**	**281,251**
Arkansas	19	14	48	32	55	76	1,164	1,460	2,100
California	335	352	558	538	518	664	8,893	8,844	9,054
Colorado	3	3	11	49	107	114	2,254	2,043	1,729
Illinois	3	8	13	8	12	8	234	173	180
Kansas	38	90	364	471	634	768	16,293	19,620	17,278
Kentucky	28	53	73	73	75	77	1,262	1,144	1,094
Louisiana	278	343	832	1,680	2,988	4,175	42,436	63,386	79,076
Michigan	2	13	11	8	21	32	326	586	774
Mississippi	(Z)	6	114	163	172	181	2,608	2,542	2,356
Montana	10	26	39	28	33	25	720	626	590
Nebraska	(3)	(3)	(Z)	13	15	11	203	118	93
New Mexico	9	64	213	541	799	879	18,585	15,604	15,354
North Dakota	(3)	(3)	1	5	19	35	281	1,151	1,111
Ohio	63	41	43	34	36	37	810	766	709
Oklahoma	348	258	482	615	824	1,323	13,205	17,311	19,757
Pennsylvania	89	91	91	99	114	82	754	1,192	1,244
Texas	518	1,064	3,126	4,731	5,893	6,526	108,288	119,489	118,855
Utah	(3)	(3)	4	17	51	80	421	1,526	1,519
West Virginia	144	189	190	212	209	204	1,565	1,831	2,348
Wyoming	43	27	62	78	182	233	3,196	3,935	3,769
Other States [4]	13	19	5	9	12	15	201	411	2,260

Z Less than 500 million cubic feet.
[1] For 1930 and 1940, amount used by ultimate consumer only; thereafter comprises gas sold or consumed by producers, including losses in transmission, amounts added to storage, and increases in gas in pipelines.
[2] Estimated recoverable proved reserves. Offshore reserves included for California, Louisiana, and Texas. Excludes gas loss due to natural-gas liquids recovery. Source: American Gas Association.
[3] Included with "Other States." [4] Prior to 1960, excludes Alaska.

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

No. 1062. Fuel Oils and Natural Gas—Consumption, by Major Consumer Groups: 1950 to 1964

[Fuel oils in thousands of barrels of 42 gallons; natural gas in billions of cubic feet. Prior to 1960, excludes Alaska and Hawaii]

TYPE OF FUEL	Total	Railroads	Vessels	Gas and electric power plants	Smelters, mines, and manufactures	Space heating and cooking	Military	Oil and gas company fuel	Miscellaneous
Distillate fuel oil:									
1950	395,306	48,703	12,872	13,207	37,121	235,740	6,553	5,692	35,418
1955	581,127	84,668	16,675	5,884	43,606	356,589	10,945	8,597	54,163
1960	683,325	86,490	18,730	4,742	34,271	438,010	10,793	8,347	81,942
1963	748,124	88,117	15,148	4,149	36,647	465,315	13,436	10,253	115,059
1964	747,551	88,198	16,001	3,849	36,007	451,860	13,609	10,576	127,451
Residual fuel oil:									
1950	554,208	60,878	92,947	93,062	148,111	72,716	28,333	53,263	4,898
1955	556,983	15,018	115,128	75,966	173,030	86,282	28,368	53,387	9,804
1960	550,536	5,610	94,084	85,408	157,270	125,088	31,724	45,061	6,291
1963	538,522	5,342	76,502	91,615	149,269	125,248	36,444	46,976	7,126
1964	556,632	5,350	83,024	97,595	157,176	126,215	35,568	43,098	8,606
Natural gas:									
1950	6,026	(X)	(X)	[1] 629	[2] 2,672	1,586	–	1,768	–
1955	9,070	(X)	(X)	[1] 1,153	[2] 3,939	2,753	–	2,378	–
1960	12,509	(X)	(X)	[1] 1,724	[2] 5,484	4,123	–	2,902	–
1963	14,641	(X)	(X)	2,143	4,346	4,857	–	3,295	–
1964	15,536	(X)	(X)	2,322	4,698	5,162	–	3,354	–

– Represents zero. X Not applicable.
[1] Source: Federal Power Commission. Includes gas other than natural gas; therefore excluded from total.
[2] Includes natural-gas component of gas used in gas and electric power plants.

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

No. 1063. Petroleum Asphalt and Road Oil—Supply, Distribution, Stocks, and Shipments: 1945 to 1965

[**In thousands of short tons.** Excludes Hawaii and, prior to 1960, Alaska, except that imports and exports include Alaska, Hawaii, and Puerto Rico for all years]

ITEM	1945	1950	1955	1960	1962	1963	1964	1965 (prel.)
SUPPLY AND DISTRIBUTION								
Petroleum asphalt:								
Production	7,127	10,589	15,113	17,940	19,923	20,354	20,887	22,473
Imports (including natural)	147	324	605	1,117	1,204	1,120	1,075	1,145
Exports	212	144	285	168	150	130	139	71
Stocks, end of year	693	962	1,413	2,362	2,591	2.610	2,588	2,941
Apparent domestic consumption [1]	6,973	10,669	15,325	18,518	20,749	21,325	21,845	23,194
Road oil:								
Production	471	1,260	1,542	1,085	1,287	1,235	1,158	1,194
Stocks, end of year	67	72	102	135	159	137	105	106
Apparent domestic consumption [2]	438	1,255	1,519	1,069	1,266	1,257	1,190	1,193
SHIPMENTS								
Paving products:								
Asphalt cements	(NA)	(NA)	5,867	8,736	9,949	10,488	10,867	12,028
Cutback asphalts	(NA)	(NA)	4,039	4,502	4,705	4,625	4,188	4,391
Emulsified asphalts	(NA)	(NA)	861	1,435	1,669	1,835	1,716	1,888
Road oil	(NA)	(NA)	1,460	1,177	1,109	1,099	1,139	1,188
Roofing products:								
Asphalt cements and fluxes	(NA)	(NA)	3,490	3,516	3,839	3,818	4,379	4,034
Emulsified asphalts	(NA)	(NA)	12	9	3	3	14	11
Miscellaneous products:								
Asphalt cements and fluxes	(NA)	(NA)	1,366	1,800	1,864	1,797	1,965	2,682
Emulsified asphalts	(NA)	(NA)	45	55	68	82	79	150

NA Not available. [1] Production, plus imports, less exports, and plus or minus change in stocks.
[2] Production, plus or minus change in stocks.

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

No. 1064. Cement—Summary: 1930 to 1965

[**In thousands of barrels of 376 pounds, except as indicated.** Beginning 1940, includes Puerto Rico. Excludes Alaska and, prior to 1960, Hawaii, except that imports and exports include Alaska, Hawaii, and Puerto Rico for all years. See also *Historical Statistics, Colonial Times to 1957*, series M 178–179]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965 (prel.)
Production of finished cement	**162,989**	**132,751**	**230,272**	**314,913**	**334,130**	**368,406**	**385,386**	**388,847**
Portland	161,197	130,216	226,026	297,453	319,009	352,543	368,633	371,422
Prepared masonry	(NA)	(NA)	(NA)	16,519	14,553	15,506	16,478	17,146
Natural, slag, and hydraulic lime [1]	1,792	2,535	4,246	941	568	357	275	279
Active plants:								
Portland ... number	163	152	150	157	176	181	181	180
Natural, slag, and hydraulic lime ... number	11	12	9	6	4	4	4	4
Shipments	**160,846**	**132,864**	**231,975**	**310,245**	**327,087**	**365,241**	**383,266**	**391,202**
Value ... $1,000	231,250	193,465	545,951	896,888	1,103,680	1,178,980	1,233,349	1,236,198
Per barrel ... dollars	1.44	1.46	2.35	2.89	3.37	3.23	3.22	3.16
Portland	159,059	130,350	227,756	292,765	312,292	349,253	366,304	373,563
Prepared masonry	(NA)	(NA)	(NA)	16,526	14,247	15,636	16,679	17,287
Natural, slag, and hydraulic lime [1]	1,787	2,514	4,219	954	548	352	283	352
Stocks at mills, Dec. 31 (finished portland cement)	25,899	23,365	13,119	17,539	35,640	39,597	39,301	35,321
Imports	985	538	1,410	5,220	4,108	4,030	3,633	5,506
Exports	756	1,668	2,418	1,795	187	460	713	748
World production (est.)	416,880	474,927	781,500	1,274,501	1,856,059	2,209,950	2,374,109	2,500,000

NA Not available. [1] Through 1950, includes masonry cement from natural, slag, and hydraulic lime plants.

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

No. 1065. Portland Cement—Production, by States: 1930 to 1965

[In thousands of barrels of 376 pounds]

STATE	1930	1940	1950	1955	1960	1963	1964	1965 (prel.)
Total	**161,197**	**130,217**	**226,026**	**297,453**	**319,009**	**352,543**	**368,633**	**371,422**
Alabama	4,821	5,122	10,372	12,161	11,935	12,611	13,059	14,089
California	10,124	14,216	26,277	35,449	39,892	46,092	47,981	45,172
Illinois	7,935	4,975	7,924	8,810	9,270	9,465	9,978	9,235
Iowa	7,088	4,606	7,416	10,182	12,527	12,787	13,651	13,575
Kansas	6,012	3,433	8,616	9,219	7,996	8,248	8,335	8,877
Michigan	11,511	8,603	12,967	18,205	20,971	24,194	26,802	27,018
Missouri	7,809	4,968	9,778	12,001	12,606	12,692	12,399	13,975
New York [1]	10,373	8,437	14,196	20,049	20,134	23,525	27,869	29,622
Ohio	8,632	6,664	10,607	13,966	16,850	16,300	15,606	14,599
Pennsylvania	37,844	26,853	38,646	46,863	37,170	38,358	37,963	39,340
Tennessee	3,875	3,808	6,685	8,110	7,926	8,660	8,471	8,829
Texas	6,782	7,375	17,150	24,241	23,190	29,150	29,792	30,771
Other States [2]	38,393	31,156	55,392	78,197	98,542	110,461	116,727	116,320

[1] Beginning 1950, includes Maine.
[2] Beginning 1940, includes Puerto Rico. Excludes Alaska and, prior to 1960, Hawaii.

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

No. 1066. Sand and Gravel—Quantity Sold or Used by Producers, and Value: 1930 to 1964

[**Quantities in thousands of short tons; values in thousands of dollars, except as indicated.** For 1930, excludes Alaska and Hawaii; for 1940, 1950, and 1955, includes Puerto Rico. See *Historical Statistics, Colonial Times to 1957*, series M 183, for total]

ITEM	1930	1940	1950	1955	1960	1963	1964
Total	**197,052**	**238,308**	**370,455**	**592,153**	**709,792**	**821,850**	**868,208**
USE							
Construction	(NA)	224,956	350,936	562,796	685,542	794,106	839,097
Building	46,605	68,036	132,873	213,712	230,994	258,709	264,319
Paving	84,176	143,158	204,242	327,976	388,950	439,783	464,390
Other	66,271	13,762	13,821	21,108	65,598	95,614	110,388
Industrial sand		10,645	17,238	18,594	18,330	21,099	23,283
Miscellaneous gravel		2,708	2,281	10,763	5,920	6,646	5,828
CLASS OF OPERATION							
Commercial [1]	176,880	131,256	257,556	420,076	522,895	590,671	620,821
Sand [1]	81,754	63,930	124,982	196,528	234,139	271,456	283,283
Gravel	95,126	67,326	132,574	223,548	288,756	319,215	337,538
Government-and-contractor	20,172	107,052	112,899	172,077	186,897	231,179	247,387
Sand	1,905	14,744	13,918	24,591	31,517	42,522	43,358
Gravel	18,267	92,308	98,981	147,486	155,380	188,657	204,029
VALUE							
Total [1]	**115,177**	**110,688**	**295,040**	**536,236**	**720,432**	**847,272**	**893,375**
Average per ton ... dollars	.58	.46	.80	.91	1.01	1.03	1.03
Commercial sand [1]	48,894	40,526	120,350	209,166	271,265	309,986	325,912
Average per ton ... dollars	.60	.63	.96	1.06	1.16	1.14	1.15
Commercial gravel	58,475	37,745	120,974	228,386	318,145	350,010	373,422
Average per ton ... dollars	.61	.56	.91	1.02	1.10	1.10	1.11
Government-and-contractor sand	828	4,806	5,961	13,075	22,334	28,514	32,217
Average per ton ... dollars	.43	.33	.43	.53	.71	.68	.74
Government-and-contractor gravel	6,980	27,612	47,755	85,610	108,688	158,762	161,824
Average per ton ... dollars	.38	.30	.48	.58	.70	.84	.79

NA Not available.
[1] Prior to 1955, excludes ground sand.

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

No. 1067. Stone—Quantity Sold or Used by Producers, 1930 to 1964, and Value, 1950, 1960, and 1964, by Kind and by Use

[For 1930 to 1950, includes Puerto Rico; for 1955, excludes Alaska and Hawaii but includes Panama Canal Zone and islands administered by the U.S.]

Variety and use	Quantity sold or used [1] (1,000 short tons)						Value ($1,000)		
	1930	1940	1950	1955	1960	1964	1950	1960	1964
Total	**127,460**	**154,206**	**252,425**	**471,251**	[2] **616,784**	[2] **725,583**	**404,106**	[2] **952,555**	[2] **1,134,564**
KIND									
Granite	10,048	10,880	21,935	26,079	42,748	56,331	50,697	89,654	114,465
Basalt and related rocks	14,532	15,716	22,895	35,851	57,884	66,090	34,373	87,699	108,929
Sandstone [3]	4,594	6,499	9,101	13,108	21,013	28,169	23,787	48,771	62,087
Marble	477	240	267	1,092	1,644	2,093	10,932	31,060	36,693
Limestone [4]	88,741	112,658	180,919	361,524	451,253	511,026	252,756	623,437	713,675
Other stone	8,604	7,740	16,378	17,706	21,493	40,035	16,514	27,642	53,964
Shell	–	–	–	15,131	18,934	19,493	–	33,706	30,157
Slate	464	473	930	760	532	1,303	15,047	9,233	13,695
USE									
Dimension stone	**4,491**	**2,261**	**2,021**	**2,674**	**2,257**	**2,545**	**65,272**	**86,009**	**96,970**
Building stone	3,555	1,897	1,565	2,129	1,694	1,927	43,509	59,360	66,571
Rough	1,422	555	554	811	578	752	6,815	8,965	10,469
Dressed	900	281	675	876	738	723	29,850	43,988	47,882
Rubble	1,066	916	247	375	330	391	615	1,743	2,041
Roofing and mill-stock slate	167	145	89	67	48	61	6,229	4,664	6,179
Monumental	291	196	237	235	221	241	17,062	19,254	20,464
Paving blocks	294	19	4	6	31	6	51	131	163
Curbing	262	71	78	121	157	168	2,430	3,929	4,682
Flagging	89	78	137	183	154	203	2,220	3,335	5,090
Crushed and broken stone	**122,969**	**151,945**	**250,404**	**468,577**	**614,527**	**723,038**	**338,834**	**866,546**	**1,037,594**
Riprap	4,292	5,264	6,898	10,286	23,863	39,495	7,807	32,468	49,780
Concrete and road-stone	74,293	92,814	146,496	254,588	387,084	456,071	191,534	520,669	628,222
Railroad ballast	12,818	7,454	18,614	15,871	11,158	14,170	17,520	12,780	16,801
Furnace flux	17,091	22,872	35,970	40,068	31,878	31,979	37,932	46,312	46,633
Refractory stone	1,197	1,741	2,158	1,169	749	600	5,849	6,082	5,237
Agricultural	2,542	8,724	19,349	18,360	22,804	27,047	30,393	39,260	46,485
Portland and natural cement (limestone, cement rock, and shell)	(NA)	(NA)	(NA)	84,209	85,551	98,172	(NA)	91,964	102,819
Lime and dead-burned dolomite	(NA)	(NA)	(NA)	16,409	19,724	25,299	(NA)	30,850	43,601
Other uses	10,736	13,076	20,919	27,617	31,716	30,205	47,799	86,161	98,016

– Represents zero. NA Not available.

[1] Quantities of stone not sold by short tons are expressed in approximate equivalents in short tons.

[2] Includes calcareous marl (1,283,000 tons valued at $1,353,000 in 1960, and 1,043,000 tons valued at $899,000 in 1964) excluded in distribution by kind of stone.

[3] Beginning 1955, includes ground sandstone, quartz, and quartzite for abrasives and other uses.

[4] Beginning 1955, includes limestone, cement rock, and dolomite used in making cement, lime, and dead-burned dolomite.

No. 1068. Lime—Quantity Sold or Used by Producers, by Type and Use: 1940 to 1964

[**Quantities in thousands of short tons.** Includes Puerto Rico. See also *Historical Statistics, Colonial Times to 1957*, series M 181-182]

Item	1940	1950	1955	1960	1963	1964
Active plants ... number	314	168	150	157	208	210
Quantity sold or used by producers	4,887	7,478	10,480	12,935	14,521	16,089
Value ... $1,000	33,956	83,248	127,144	172,733	199,389	223,167
Per ton ... dollars	6.95	11.13	12.13	13.35	13.73	13.87
Open-market lime	4,548	7,022	8,930	8,189	8,889	9,801
Captive tonnage lime [1]	339	456	1,550	4,746	5,632	6,28[illegible]
By type:						
Quicklime	2,633	3,834	6,113	8,271	10,128	11,3[illegible]
Hydrated	1,386	1,885	2,238	2,715	2,444	2,5[illegible]
Dead-burned dolomite	868	1,759	2,129	1,949	1,949	2,1[illegible]
By use:						
Agricultural	365	333	305	187	176	200
Building	1,010	1,249	1,310	1,209	1,435	1,481
Chemical and industrial	2,644	4,137	6,736	9,591	10,961	12,239
Refractory (dead-burned dolomite)	868	1,759	2,129	1,949	1,949	2,168

[1] Incomplete; through 1960, only partial coverage of captive plants.

Source of tables 1067 and 1068: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, and unpublished data.

No. 1069. Phosphate Rock—Summary: 1950 to 1964

[Quantities in thousands of long tons]

ITEM	1950	1955	1960	1962	1963	1964
Mine production	(NA)	39,671	54,338	56,746	61,598	66,494
P_2O_5 content	(NA)	4,984	8,282	8,823	9,798	11,368
Marketable production	11,114	12,265	17,516	19,382	19,855	22,960
P_2O_5 content	3,566	3,887	5,443	6,004	6,221	7,230
Value ... $1,000	63,334	75,379	117,041	134,304	139,861	161,067
Per ton ... dollars	5.70	6.15	6.68	6.93	7.04	7.02
Sold or used by producers	10,254	13,186	17,202	19,060	19,860	22,081
P_2O_5 content	3,336	4,180	5,352	5,927	6,187	6,907
Value ... $1,000	59,028	82,904	115,363	134,222	140,642	156,738
Per ton ... dollars	5.76	6.29	6.71	7.04	7.08	7.10
Imports for consumption [1]	87	117	129	134	161	156
Value ... $1,000	[2] 1,114	2,703	3,754	3,551	3,651	3,329
Per ton ... dollars	[2] 12.78	23.05	29.04	26.57	22.68	21.33
Exports [3]	1,760	2,183	3,994	3,934	4,547	5,691
P_2O_5 content	590	720	1,290	1,269	1,480	1,835
Value ... $1,000	10,365	14,269	26,632	27,567	31,881	39,717
Per ton ... dollars	5.89	6.54	6.67	7.01	7.01	6.98
Consumption, apparent [4]	8,581	11,120	13,337	15,260	15,474	16,546
World production	23,000	29,980	41,170	47,320	50,590	57,910

NA Not available.
[1] Data on P_2O_5 content not available.
[2] Market value (price) at port of shipment and time of exportation to the United States.
[3] As reported to the Bureau of Mines by producers.
[4] Measured by "sold or used" plus "imports" minus "exports."

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

No. 1070. Potash—Summary: 1950 to 1964

[Quantities in thousands of short tons]

ITEM	1950	1955	1960	1963	1964
Production of potassium salts (marketable)	2,243	3,514	4,472	4,871	4,954
Approximate equivalent K_2O	1,288	2,067	2,638	2,864	2,897
Value [1] ... $1,000	45,349	78,602	89,676	110,164	114,100
Sales of potassium salts by producers	2,222	3,405	4,412	4,587	5,201
Approximate equivalent K_2O	1,276	2,006	2,602	2,709	3,045
Value at plant ... $1,000	44,938	76,176	88,417	103,828	120,284
Per ton ... dollars	20.22	22.37	20.04	22.64	23.13
Imports for consumption of potash materials	381	331	415	1,041	1,259
Approximate equivalent K_2O	201	178	226	594	738
Value ... $1,000	13,994	11,769	15,370	31,137	36,044
Exports of potash materials	117	229	833	722	1,048
Approximate equivalent K_2O	65	130	491	425	618
Value ... $1,000	5,534	9,203	25,926	25,519	37,586
Apparent consumption of potassium salts [2]	2,486	3,507	3,994	4,906	5,412
Approximate equivalent K_2O	1,412	2,054	2,337	2,878	3,165
World production (marketable), approximate equivalent K_2O	5,300	8,000	10,000	12,100	13,000

[1] Derived from reported value of "sold or used."
[2] Measured by "sold or used" plus "imports" minus "exports."

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

No. 1071. Gypsum—Summary: 1945 to 1965

[**Quantities in thousands of short tons; values in thousands of dollars.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See *Historical Statistics, Colonial Times to 1957*, series M 180, for gypsum mined]

ITEM	1945	1950	1955	1960	1963	1964	1965 (prel.)
Active establishments [1]	75	87	83	96	103	106	109
Crude gypsum: [2]							
Mined	3,812	8,193	10,684	9,825	10,388	10,684	10,516
Imported	509	3,219	3,977	5,301	5,490	6,258	5,911
Apparent supply	4,320	11,412	14,661	15,126	15,878	16,942	16,426
Calcined gypsum produced:							
Quantity	[3] 2,485	7,341	8,848	8,591	9,181	9,440	9,320
Value	[3] 14,474	60,480	88,576	120,984	131,668	135,877	133,028
Gypsum products sold, total value [4]	**60,149**	**205,383**	**319,323**	**361,190**	**414,090**	**431,717**	**419,668**
Uncalcined uses:							
Quantity	1,148	2,218	2,938	3,716	4,209	4,562	4,462
Value	3,433	7,912	11,435	15,486	17,865	19,138	20,361
Industrial uses:							
Quantity	158	266	299	284	279	292	319
Value	2,326	4,530	6,337	6,362	7,094	7,508	8,281
Building uses, value	54,390	192,940	301,551	339,342	389,131	405,071	391,026
Gypsum and gypsum products:							
Imported for consumption, value [5]	549	3,584	7,276	10,426	12,357	14,687	13,328
Exported, value	1,503	1,046	1,348	1,293	1,431	1,808	2,032

[1] Each mine, plant, or combination mine and plant is counted as 1 establishment.
[2] Excludes byproduct gypsum.
[3] Includes production from small quantity of byproduct gypsum.
[4] Made from domestic, imported, and byproduct gypsum.
[5] Beginning 1955, not comparable with earlier years.

Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, and unpublished data.

No. 1072. Sulfur—Summary: 1940 to 1965

[**Quantities in thousands of long tons; values in thousands of dollars, except average.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1957*, series M 185-189]

ITEM	1940	1950	1955	1960	1963	1964	1965 (prel.)
Production:							
Sulfur, all forms [1]	3,227	5,986	7,027	6,661	6,644	7,093	8,212
Sulfur from Frasch mines	2,732	5,192	5,739	4,943	4,882	5,228	6,116
Recovered elemental sulfur (sulfur content)	4	142	399	767	947	1,021	1,170
Pyrites (gross weight)	627	931	1,007	1,016	825	847	875
Sulfur content	262	393	410	416	344	354	365
Value	1,920	4,059	8,391	7,936	5,698	5,471	5,333
Byproduct sulfuric acid [2] (sulfur content)	213	216	325	345	356	366	375
Shipments, Frasch mines	2,559	5,505	5,839	5,003	4,995	5,859	7,250
Approximate value	40,900	104,000	163,156	115,494	99,014	117,228	146,921
Average value per long ton	$15.98	$18.89	$27.94	$23.08	$19.82	$20.01	$20.26
Imports for consumption:							
Sulfur, ore and other (gross weight)	28	(Z)	35	741	1,351	1,462	1,479
Pyrites (gross weight)	407	209	80	306	194	[3] 250	(NA)
Exports, sulfur [4]	766	1,479	1,636	1,787	1,613	1,927	2,600

NA Not available. Z Less than 500 tons.
[1] In addition to forms of recovery cited below, covers sulfur ore and other byproduct sulfur compounds (hydrogen sulfide and liquid sulfur dioxide).
[2] Produced at copper, lead, and zinc plants.
[3] Estimated.
[4] Crude, crushed, ground, refined, sublimed, and flowers.

Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, and unpublished data.

No. 1073. Salt—Summary, by States and by Kind: 1940 to 1965

[**Quantities in thousands of short tons.** Production, exports, and imports include Puerto Rico; production excludes Hawaii for 1940, 1950, and 1960. See *Historical Statistics, Colonial Times to 1957*, series M 28 and M 190, for production and value]

ITEM	1940	1950	1955	1960	1963	1964	1965 (prel.)
Production [1]	**10,360**	**16,630**	**22,704**	**25,479**	**30,641**	**31,623**	**34,687**
By State:							
California	469	868	1,315	1,443	1,716	1,525	1,638
Kansas [2]	684	846	911	1,213	924	930	1,053
Louisiana	1,133	2,279	3,563	4,792	6,199	6,401	8,126
Michigan	2,863	4,447	4,975	4,088	4,244	4,345	4,171
New York	2,118	2,807	3,780	4,008	4,782	4,816	5,002
Ohio	2,080	2,515	2,905	3,108	4,245	4,537	5,026
Texas	402	1,852	3,583	4,756	5,965	6,410	6,964
Utah	71	117	196	231	325	371	384
West Virginia	144	368	638	920	(3)	1,033	1,153
Other States	395	531	839	920	2,241	1,255	1,170
By kind:							
Evaporated (manufactured)	2,783	3,329	3,987	4,104	4,771	4,702	4,925
In brine	5,312	9,373	13,424	14,911	17,525	18,367	19,952
Rock salt	2,266	3,927	5,293	6,466	8,345	8,554	9,810
Total value [4] $1,000	26,475	59,911	123,389	161,140	184,589	200,706	213,097
Exports	147	190	407	420	781	594	688
Imports for consumption	30	8	186	1,057	1,516	2,340	2,118

[1] Represents sales plus quantities used by producers.
[2] Brine included in "Other States." [3] Included in "Other States."
[4] F.o.b. mine or refinery; excludes cost of cooperage or containers.

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

No. 1074. Iron Ore—Summary: 1930 to 1965

[**Quantities in thousands of long tons.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1957*, series M 195-206]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965 (prel.)
Production	**58,409**	**73,696**	**98,045**	**103,003**	**88,784**	**73,599**	**84,831**	**87,842**
By district:								
Lake Superior	49,383	61,471	79,627	83,255	71,792	56,132	63,104	66,432
Southeastern	5,838	[1] 7,444	7,508	7,106	4,365	2,419	2,546	[2] 1,964
Northeastern	2,249	3,560	4,475	4,650	4,125	4,922	5,214	5,173
Western	939	[1] 1,221	5,861	6,958	4,583	4,531	6,187	[2] 13,468
Byproduct ore [3]	(NA)	(NA)	575	1,034	3,918	5,595	7,780	805
By type of ore:								
Hematite [4]	55,266	68,870	87,156	92,958	[5] 68,147	46,509	47,603	47,043
Brown ore [4]	720	935	2,615	2,461	1,641	2,443	1,804	2,664
Magnetite [4]	2,421	3,891	7,699	6,550	18,205	23,891	34,392	37,330
Byproduct ore [6]	1	1	575	1,034	791	757	1,032	805
Number of mines	208	230	247	305	247	179	158	183
Shipments [7]	55,201	75,198	97,764	106,258	82,963	73,564	84,300	85,329
Value [7] $1,000	145,619	189,087	487,990	756,853	724,131	678,181	802,331	814,973
Average value per ton at mine	$2.64	$2.51	$4.99	$7.12	$8.73	$9.22	$9.52	$9.52
Stocks at mines, Dec. 31	10,383	3,614	5,726	4,281	12,337	11,099	10,752	12,667
Imports	2,775	2,479	8,281	23,472	34,578	33,263	42,408	45,103
Value $1,000	8,113	6,205	43,968	177,457	321,919	323,158	421,288	443,788
Exports	752	1,386	2,551	45,517	5,273	6,812	6,963	7,085
Value $1,000	2,734	4,625	15,717	36,993	57,899	76,340	79,670	80,814
World production (estimate)	175,600	208,700	247,000	363,421	513,926	513,611	566,716	603,877

NA Not available. [1] Texas included with Southeastern district. [2] Includes byproduct ore.
[3] Beginning 1960, includes undistributed by district. [4] Predominant mineral.
[5] Includes brown ore from Tenn., Mo., and Texas; also magnetite from Calif., Utah, and Wyo.
[6] For 1930 and 1940, carbonate ore; thereafter, pyrites, cinder and sinter.
[7] Beginning 1960, excludes byproduct ore except shipments for 1965.

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

No. 1075. Manganese Ore and Ferromanganese—Summary: 1930 to 1965

[**Gross weight in thousands of short tons.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See *Historical Statistics, Colonial Times to 1957*, series M 211, for mine shipments]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965
Manganese ore (35 percent or more Mn):								
Mine shipments	75	45	134	287	80	11	26	(D)
General imports	656	1,450	1,835	2,078	2,544	2,093	2,065	2,576
Consumption	(NA)	(NA)	1,650	2,110	1,946	1,842	2,242	3,856
World production (estimate)	3,848	6,238	6,200	11,920	14,989	16,138	16,687	19,406
Ferromanganese:								
Domestic production	308	515	720	870	843	751	929	1,020
Imports for consumption	[1] 49	12	110	65	120	149	213	257
Exports	[2] 7	[2] 15	1	2	1	1	4	3
Consumption	(NA)	(NA)	775	934	800	893	1,008	1,041

D Withheld to avoid disclosure of individual company data. NA Not available.
[1] Manganese content; gross weight not reported.
[2] Includes spiegeleisen.

No. 1076. Chromite—Summary: 1930 to 1965

[**Quantities in thousands of short tons; values in thousands of dollars.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. Domestic production (shipments) also includes Alaska. See also *Historical Statistics, Colonial Times to 1957*, series M 213-214]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965
Total supply	366	740	1,455	1,987	1,587	1,508	1,724	1,712
Domestic production (shipments)[1]	(Z)	3	–	153	[2] 107	(X)	(X)	(X)
Value[1]	2	29	–	6,644	3,813	(X)	(X)	(X)
Imports for consumption	366	737	1,304	1,834	1,387	1,391	1,428	1,518
Value	3,513	8,755	23,299	38,063	24,313	20,135	22,713	25,239
Change in stocks	–	–	151	–	93	117	296	194
Exports	(3)	(3)	2	1	5	10	6	7
Consumption by industry	(3)	563	980	1,584	1,220	1,187	1,451	1,529
Stocks (consumer), Dec. 31	(NA)	(NA)	606	(NA)	[4] 1,707	1,583	1,287	1,093
World production (estimate)	600	1,600	2,600	4,020	4,885	4,355	4,720	4,850

– Represents zero. NA Not available. X Not applicable. Z Less than 500 short tons.
[1] Domestic chromite mining inactive since 1961. [2] Produced for Federal Government only.
[3] Not available or Bureau of Mines not at liberty to publish.
[4] Includes stocks at locations other than consumer plants.

No. 1077. Tungsten—Summary: 1940 to 1965

[Excludes Hawaii and, beginning 1955, Alaska. See also *Historical Statistics, Colonial Times to 1957*, series M 215-216]

ITEM	1940	1950	1955	1960	1963	1964	1965
Production:							
Concentrates, 60% WO_3 basis ... short tons	5,120	4,166	16,636	7,007	(D)	(D)	(D)
Tungsten content ... 1,000 lb	4,873	3,965	15,833	6,669	(D)	(D)	(D)
Shipments from mines:							
Concentrates, 60% WO_3 basis ... short tons	5,319	4,820	16,412	7,325	5,657	9,244	7,880
Tungsten content ... 1,000 lb	5,062	4,588	15,619	6,972	5,384	8,798	7,500
Reported value f.o.b. mines ... $1,000	6,576	8,171	60,841	9,815	7,202	11,251	13,028
Average per pound of tungsten ... dollars	1.30	1.78	3.90	1.40	1.34	1.28	1.72
Imports (tungsten content):							
General ... 1,000 lb	9,666	8,342	20,789	5,178	3,882	2,737	3,510
For consumption ... 1,000 lb	5,611	16,147	20,700	3,525	3,060	3,148	3,600
Consumption (tungsten content) ... 1,000 lb	9,955	6,597	8,967	11,605	11,061	12,311	13,000
Stocks (tungsten content)[1] ... 1,000 lb	2,897	5,337	4,025	5,545	6,247	2,670	2,100
World production (estimate)[2] ... short tons	48,100	42,300	82,900	72,200	64,600	64,900	66,000

D Withheld to avoid disclosure of individual company data.
[1] Producers, consumers, and dealers, end of year.
[2] Concentrates, 60 percent WO_3 basis.

Source of tables 1075-1077: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

No. 1078. Nickel—Summary: 1930 to 1965

[**Quantities in short tons.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1957*, series M 221–224]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965 (prel.)
Mine production	-	-	-	4,411	14,079	13,394	15,420	16,000
Plant production:								
Primary	308	554	913	3,807	14,303	11,432	12,185	13,500
Secondary	2,900	4,152	8,795	11,540	9,431	18,996	23,114	23,000
Imports for consumption (estimated nickel content) [1]	25,300	83,760	91,347	142,000	103,000	119,000	129,000	160,000
Exports (gross weight) [2]	2,388	11,994	3,645	20,601	54,109	60,927	68,502	70,000
Consumption	-------	-------	99,989	-------	108,159	124,478	146,920	173,000
Stocks (consumer), Dec. 31	-------	-------	5,907	-------	11,369	17,191	17,076	15,000
Price per pound [3] ..... cents	35	35	40–50.5	64.5	74	79	79	77.75–79
World production (estimate)	59,800	144,800	162,000	264,000	353,000	395,000	427,000	402,000

- Represents zero. [1] Includes metal, ore and matte, oxide powder and oxide sinter, and refinery residues (beginning with 1950); in addition, through 1940, covers scrap, "bars, rods, tubes, etc.," and nickel-silver.
[2] Through 1950, excludes "Manufactures"; weight not recorded.
[3] Price quoted U.S. buyers by International Nickel Co. Inc., for electrolytic nickel, U.S. duty included; 1930 and 1940, f.o.b. New York; thereafter, f.o.b. Port Colborne, Ontario.

No. 1079. Molybdenum Concentrates—Summary: 1930 to 1965

[**In thousands of pounds of contained molybdenum, except as indicated.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1957*, series M 217–218]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965
Production	3,723	34,313	28,480	61,781	68,237	65,011	65,605	77,200
Shipments from mines	3,759	25,329	44,544	64,709	69,941	65,839	65,097	77,126
Average price per pound [1] ..... dollars	[2] .73	.75	.91	1.05	1.25	1.38	1.49	1.55
Exports [3]	(NA)	6,585	6,235	14,580	30,244	26,545	24,940	26,710
Imports for consumption	145	-	3	134	-	-	-	227
Consumption	(NA)	(NA)	26,029	38,799	44,784	49,241	56,409	68,111
Stocks (industry), Dec. 31 [4]	(NA)	(NA)	4,326	2,730	3,481	2,436	4,303	4,189
World production (estimate)	4,200	38,300	32,000	75,000	89,100	90,900	94,400	114,000

- Represents zero. NA Not available.
[1] Per pound of molybdenum contained. Source: *Engineering and Mining Journal.*
[2] July to December only. [3] Includes roasted concentrates.
[4] At mines and at plants making molybdenum products.

No. 1080. Gold and Silver—Summary: 1930 to 1965

[See *Historical Statistics, Colonial Times to 1957*, series M 246–247, for mine production]

ITEM	1930	1940	1950	1955	1960	1964	1965 (prel.)
Mine production:							
Gold ..... 1,000 fine ounces	2,139	4,870	2,394	1,880	1,667	1,456	1,705
Silver ..... 1,000 fine ounces	47,725	70,436	42,459	37,198	30,766	36,334	39,806
Value of production:							
Gold $1,000	44,211	170,448	83,798	65,805	58,337	50,971	59,683
Silver $1,000	18,374	50,088	38,425	33,666	27,846	46,980	51,469
Ore (dry and siliceous) produced: [1]							
Gold ore ..... 1,000 short tons	7,767	16,550	3,584	2,234	2,267	2,631	3,113
Gold-silver ore ..... 1,000 short tons		948	433	120	347	224	205
Silver ore ..... 1,000 short tons		1,201	627	570	641	644	902
Net industrial consumption:							
Gold $1,000	15,178	13,306	97,846	45,500	105,000	168,035	(NA)
Silver ..... 1,000 fine ounces	26,874	44,499	110,000	101,400	102,000	120,500	140,000
Imports: [2]							
Gold $1,000	74,043	4,226,225	162,744	104,420	335,032	40,888	101,675
Silver $1,000	39,177	57,986	79,473	71,168	53,961	64,395	70,739
Exports: [2]							
Gold $1,000	75,496	1,120	514,283	6,953	1,647	422,744	1,291,095
Silver $1,000	43,505	3,347	3,563	4,441	26,593	141,397	51,186
Price, average per fine ounce: [3]							
Gold ..... dollars	20.67	35.00	35.00	35.00	35.00	35.00	35.00
Silver ..... dollars	.385	.711	.905+	.905+	.905+	1.293	1.293
World production (estimate):							
Gold ..... 1,000 fine ounces	20,800	42,300	32,700	36,300	38,200	[4] 46,100	[4] 47,500
Silver ..... 1,000 fine ounces	248,700	275,400	203,300	224,000	241,300	[4] 249,500	[4] 257,000

NA Not available.
[1] Gold and silver are also produced from base-metal ores and placers. In 1964, dry and siliceous ores accounted for 54 percent of gold produced and 32 percent of silver. [2] Excludes coinage.
[3] Treasury buying price, except for silver, 1930, 1964, and 1965, New York price. [4] Preliminary.

Source of tables 1078–1080: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook.*

No. 1081. Gold and Silver—Production, by States: 1930 to 1964

[In thousands of fine ounces. Based upon arrivals at U.S. mints and assay offices and private refineries]

STATE	GOLD						SILVER					
	1930	1940	1950	1960	1963	1964	1930	1940	1950	1960	1963	1964
Total	**2,100**	**4,863**	**2,289**	**1,680**	**1,469**	**1,469**	**50,627**	**68,287**	**42,309**	**36,800**	**35,000**	**37,000**
Alaska	407	757	276	173	100	58	392	173	50	27	14	7
Ariz	149	299	111	158	144	157	4,910	6,130	5,089	5,338	5,460	6,000
Calif	450	1,444	410	125	87	72	1,434	2,225	1,000	188	142	180
Colo	218	369	124	68	35	42	4,852	9,378	3,343	2,070	2,479	2,707
Idaho	21	145	69	6	5	6	9,710	17,477	15,993	17,814	16,500	16,628
Mich	–	–	–	–	–	–	11	90	(Z)	6	322	307
Mo	–	–	–	–	–	–	188	145	233	81	195	5
Mont	47	273	57	46	20	28	8,597	12,152	7,178	3,970	4,011	5,500
Nev	140	380	170	66	101	92	4,179	5,102	1,634	703	212	125
N. Mex	32	39	7	5	8	7	1,160	1,576	365	315	279	250
Oreg	14	114	10	1	2	1	10	192	12	(Z)	36	30
S. Dak	406	587	572	551	577	620	105	171	143	109	118	132
Tenn	1	(Z)	(Z)	(Z)	(Z)	(Z)	86	39	26	123	129	91
Tex	(Z)	(Z)	(Z)	–	–	–	469	1,295	4	–	2	1
Utah	209	352	392	314	291	290	14,451	11,686	6,799	5,132	4,500	4,600
Wash	4	84	89	163	98	96	30	389	358	696	509	390
Other States	2	19	2	3	1	–	44	66	82	229	94	47

– Represents zero. Z Less than 500 ounces.

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

No. 1082. Gold and Silver Issued for Use in Industry and the Arts: 1964

[Quantities in thousands of fine ounces; value in thousands of dollars]

ITEM	GOLD		SILVER	
	Quantity	Value [1]	Quantity	Value [2]
Net material issued [3]	**4,801**	**168,035**	**120,500**	**155,962**
Total issues	**5,887**	**206,059**	**196,600**	**254,457**
By U.S. Mint [4]	3,734	130,696	50,240	65,025
By private refiners and dealers [5]	2,153	75,363	146,360	189,432
Total returns of scrap from domestic sources	**1,086**	**38,024**	**76,100**	**98,495**
To U.S. Mint	484	16,930	[6] 3,475	[6] 4,498
To private refiners and dealers	602	21,094	72,625	93,997
Use of net material issued: [7]				
Batteries	(X)	(X)	7,000	9,060
Brazing alloys and solders	(X)	(X)	13,600	17,602
Dental uses	628	21,996	[8] 5,200	[8] 6,730
Electrical and electronic uses	(X)	(X)	29,000	37,534
Jewelry	[9] 3,043	[9] 106,517	[10] 22,600	[10] 29,251
Mirrors	(X)	(X)	3,100	4,012
Photographic film, plates, and sensitized photographic paper	(X)	(X)	38,000	49,183
Space and defense uses	350	12,233	(X)	(X)
Other	780	27,289	2,000	2,589

X Not applicable. [1] At $35 per fine ounce. [2] At $1.29429 per fine ounce.
[3] Represents equivalent of domestic industrial consumption.
[4] In Government-stamped bars. Gold includes sales and exchanges for scrap; silver includes exchange for scrap and estimated amount of silver issued for domestic consumption in exchange for silver certificates.
[5] Bullion in various forms. Excludes the equivalent amount of Government-stamped bars received from the Mint.
[6] Excludes scrap resulting from coinage operation.
[7] Based on a sampling furnished by private refiners and dealers, trade organizations, and others.
[8] Includes medical. [9] Includes arts. [10] Includes silverware.

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

No. 1083. Copper—Summary: 1951 to 1965

[**In thousands of short tons, except as indicated.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. Production figures also include Alaska. See also *Historical Statistics, Colonial Times to 1957*, series M 225-231]

ITEM	1951-1955 (avg.)	1955	1960	1963	1964	1965
New (primary) copper produced—						
From domestic ores, as reported by—						
Mines	923	999	1,080	1,213	1,247	1,352
Copper ore produced [1]	100,542	112,550	134,994	146,450	155,200	173,286
Average yield of copper ... percent	0.85	0.83	0.73	0.74	0.73	0.70
Smelters	929	1,007	1,143	1,258	1,301	1,403
Percent of world total	28	28	23	23	23	(NA)
Refineries	929	997	1,121	1,219	1,260	1,336
From foreign ores, matte, etc., refinery reports	317	345	398	377	396	376
Total new refined, domestic and foreign	1,246	1,342	1,519	1,596	1,656	1,712
Secondary copper produced	925	989	871	974	1,093	1,235
Recovered from old scrap only	445	515	429	422	474	513
Imports (unmanufactured) [2]	595	594	524	539	586	522
Refined	255	202	143	119	140	137
Exports of metallic copper [3]	224	260	510	345	381	379
Refined (ingots and bars)	167	200	434	311	316	325
Stocks (producers), Dec. 31	230	235	359	304	283	281
Refined copper	34	34	98	52	37	35
Blister and materials in solution	196	201	261	252	246	246
Withdrawals (apparent) from total supply on domestic account:						
Primary copper	1,333	1,336	1,148	1,423	1,495	1,526
Primary and old copper (old scrap only)	1,779	1,851	1,577	1,845	1,969	2,039
Average price [4] ... cents per pound	28.8	37.3	32.1	30.8	32.6	35.4
World smelter production, new copper	3,280	3,630	5,040	5,480	5,750	(NA)

NA Not available.
[1] Includes old tailings smelted or retreated. Not comparable with mine production figures, which include recoverable copper content of ores not classified as "copper."
[2] Data are for "general imports," i.e., include copper imported for immediate consumption plus material entering country under bond. Comprises copper in ingots, plates, and bars, ores and concentrates, regulus, blister, and scrap.
[3] Total exports of copper, exclusive of ore, concentrates, composition metal, and unrefined copper. Exclusive also of "Other copper manufactures," for which quantity figures are not recorded before 1953. Beginning 1960, data not strictly comparable with earlier years due to changes in classification.
[4] Exclusive of copper produced abroad and delivered in the United States.

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

No. 1084. Copper—Mine Production, by States: 1930 to 1965

[**In short tons of recoverable copper**]

STATE	1930	1940	1950	1955	1960	1963	1964	1965
Total	**705,074**	**878,086**	**909,343**	**998,570**	**1,080,169**	**1,213,166**	**1,246,780**	**1,351,734**
Arizona	288,095	281,169	403,301	454,105	538,605	660,977	690,988	703,377
California	13,643	6,438	646	613	1,087	916	1,035	1,165
Colorado	5,257	12,152	3,141	4,323	3,247	4,169	4,653	3,828
Idaho	1,556	3,349	2,107	5,618	4,208	4,172	4,666	5,140
Michigan	84,691	45,198	25,608	50,066	56,385	75,262	69,040	71,749
Montana	98,094	126,391	54,478	81,542	91,972	79,762	103,806	115,489
Nevada	54,602	78,454	52,569	78,925	77,485	81,738	67,272	71,332
New Mexico	32,575	69,848	66,300	66,417	67,288	83,037	86,104	98,658
Pennsylvania	–	(1)	4,142	4,110	[2] 7,907	4,434	3,614	4,354
Tennessee	(3)	[1] 12,732	6,851	9,911	12,723	13,717	13,889	14,823
Utah	90,263	231,864	278,630	232,949	218,049	203,095	199,588	259,138
Washington	603	9,612	5,057	3,958	78	[4] 70	35	30
Other States	35,695	879	6,513	6,033	1,135	1,817	2,090	2,651

– Represents zero.
[1] North Carolina and Pennsylvania included in Tennessee.
[2] Includes North Carolina.
[3] Included in "Other States."
[4] Includes North Carolina and Oregon.

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

No. 1085. Lead—Summary: 1930 to 1965

[**In short tons, except as indicated.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports and as noted. See also *Historical Statistics, Colonial Times to 1957*, series M 232-238]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965
Smelter production of refined primary lead	643, 033	533, 179	508, 314	479, 157	382, 436	394, 732	449, 429	418, 249
From domestic ores and base bullion [1]	573, 740	433, 065	418, 809	321, 132	228, 899	329, 660	294, 254	305, 007
From foreign ores and base bullion	69, 293	100, 114	89, 505	158, 025	153, 537	155, 072	155, 175	113, 242
Recovery of secondary lead	255, 800	260, 346	482, 275	502, 051	469, 903	493, 471	541, 582	[2] 530, 871
Imports, general: [3]								
Lead in pigs, bars, and old	209	151, 568	461, 827	284, 729	213, 671	235, 902	212, 898	225, 050
Lead in base bullion	38, 630	19, 624	3, 488	–	293	5, 437	4, 838	1, 077
Lead in ores and matte	39, 377	111, 300	76, 520	177, 479	145, 692	147, 742	123, 257	122, 662
Exports of refined pig lead [4]	[5] 48, 307	23, 755	2, 735	403	1, 967	1, 088	10, 175	3, 481
Stocks, Dec. 31 (lead content):								
At primary smelters and refineries	(NA)	(NA)	(NA)	(NA)	250, 142	120, 836	84, 398	83, 443
At consumer plants	(NA)	(NA)	(NA)	(NA)	97, 268	119, 930	113, 444	109, 195
Consumption of metal, primary and secondary	[6] 768, 600	[6] 782, 000	1, 237, 981	1, 212, 644	1, 021, 172	1, 163, 358	1, 202, 138	1, 221, 200
Average price, common lead:								
New York ... cents per pound	5. 52	5. 18	13. 30	15. 14	11. 95	11. 14	13. 62	16. 00
London ... cents per pound	3. 92	(7)	13. 29	12. 19	9. 04	7. 93	12. 59	14. 37
Mine production of recoverable lead [8]	558, 313	457, 392	430, 827	338, 025	246, 669	253, 369	286, 010	301, 147
Value [8] ... $1,000	(NA)	(NA)	(NA)	(NA)	57, 722	54, 727	74, 936	93, 959
World smelter production (est.)	1, 869, 000	1, 936, 000	1, 850, 000	2, 250, 000	2, 550, 000	2, 795, 000	2, 830, 000	(NA)

– Represents zero. NA Not available.
[1] Excludes lead content of antimonial lead.
[2] Includes 23,122 short tons of lead, in refined and antimonial lead, recovered from scrap.
[3] Includes lead imported for immediate consumption plus material entering country under bond.
[4] Pigs, bars, and anodes.
[5] Represents pigs, bars, and old.
[6] Source: Estimated by American Bureau of Metal Statistics.
[7] Official maximum price fixed by British Ministry of Supply at £25 per long ton. London Metal Exchange dealings suspended for duration of war.
[8] Includes Alaska.

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

No. 1086. Lead, Recoverable—Mine Production, by States: 1930 to 1965

[**In short tons**]

STATE	1930	1940	1950	1955	1960	1963	1964	1965
Total	558, 313	457, 392	430, 827	338, 025	246, 669	253, 369	286, 010	301, 147
Arizona	4, 246	13, 266	26, 383	9, 817	8, 495	5, 815	6, 147	5, 913
Colorado	22, 130	11, 476	27, 007	15, 805	18, 080	19, 918	20, 563	22, 495
Idaho	134, 058	104, 834	100, 025	64, 163	42, 907	75, 759	71, 312	66, 606
Illinois	248	1, 508	2, 729	4, 544	3, 000	2, 901	2, 180	3, 005
Missouri	199, 632	172, 052	134, 626	125, 412	111, 948	79, 844	120, 148	133, 521
Montana	10, 653	23, 036	19, 617	17, 028	4, 879	5, 000	4, 538	6, 981
Oklahoma	23, 052	21, 240	20, 724	14, 126	936	3, 192	2, 781	2, 813
Utah	115, 495	75, 688	44, 753	50, 452	39, 398	45, 028	40, 249	37, 700
Virginia [1]	8, 367	4, 831	4, 851	4, 036	2, 152	3, 500	3, 857	3, 651
Washington	576	2, 555	10, 334	10, 340	7, 725	5, 374	5, 731	6, 328
Other States	39, 856	26, 906	39, 778	22, 302	7, 149	7, 038	8, 504	12, 134

[1] New York and Tennessee included with Virginia for 1930-1955.

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

No. 1087. Zinc—Production and Prices: 1930 to 1965

[**Quantities in thousands of short tons.** Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1957*, series M 239–240, for production]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965
Smelter production of primary slab zinc [1]	498	675	843	964	800	893	954	1,005
Value ... $1,000	47,812	85,085	240,051	236,829	205,476	206,187	260,274	291,503
Source:								
From domestic ores	489	590	588	583	334	474	532	551
From foreign ores	9	85	255	381	465	419	422	443
Method:								
Electrolytic ... percent of total	26	28	41	40	40	40	41	41
Distilled ... percent of total	74	72	59	60	60	60	59	59
Production of redistilled secondary slab zinc	[2] 35	49	67	66	69	60	72	73
Average price of common zinc at—								
East St. Louis ... cents per pound	4.56	6.34	13.88	12.30	12.95	12.01	13.57	14.50
London [3] ... cents per pound	3.60	(NA)	14.89	11.30	11.05	9.60	14.74	14.12
Mine production of recoverable zinc	595	665	623	515	435	529	575	610
Arizona	1	15	60	23	36	25	25	22
Colorado	36	5	46	35	31	48	54	53
Idaho	38	71	88	53	37	63	59	57
Illinois	(Z)	5	27	22	30	20	14	19
Kansas	74	57	27	28	2	4	5	7
Montana	26	53	68	69	13	33	29	35
New Jersey	98	91	55	12	–	33	33	38
New Mexico	33	30	29	15	14	13	30	36
New York	22	36	38	53	66	53	61	71
Oklahoma	136	163	47	42	2	13	12	12
Pennsylvania	–	–	–	–	14	27	31	27
Tennessee	[4] 48	35	35	40	91	96	116	123
Utah	45	44	32	44	35	36	31	26
Virginia	(4)	17	12	18	20	24	21	20
Washington	(Z)	11	15	29	21	22	24	23
Wisconsin	13	6	6	18	18	15	26	28
Other States [5]	25	26	38	14	5	2	4	13
World smelter production (estimate)	1,536	1,786	2,170	2,930	3,335	3,830	4,055	(NA)

– Represents zero. NA Not available. Z Less than 500 short tons.
[1] Beginning 1960, includes production of zinc used directly in alloying operations.
[2] Includes small quantity of secondary electrolytic zinc.
[3] Average price for foreign zinc, based on average rates of exchange recorded by Federal Reserve Board.
[4] Virginia included with Tennessee.
[5] Includes Alaska.

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

No. 1088. Tin—Summary: 1930 to 1965

[**Quantities in long tons.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. Production figures for domestic mines also include Alaska]

ITEM	1930	1940	1950	1955	1960	1964	1965 (prel.)
Production:							
Domestic mines	15	49	94	99	10	(D)	(D)
Domestic smelters [1]	–	1,391	33,118	22,329	(D)	(D)	(D)
Secondary sources	23,393	29,700	31,680	28,340	22,050	23,508	23,580
Imports for consumption:							
Metal	80,734	124,810	82,838	64,815	39,538	32,132	40,780
Ore (tin content)	289	3,000	25,960	20,112	14,026	5,190	4,292
Exports (domestic and foreign)	2,233	[2] 2,664	799	1,107	857	4,041	3,034
Monthly price of Straits tin at New York, average cents per pound [3]	31.70	49.82	95.56	94.73	101.40	157.72	178.17
Consumption	[4] 78,501	97,154	104,464	90,483	80,560	82,780	82,085
World mine production (estimate) [5]	176,000	238,300	169,300	197,200	180,400	194,200	190,900

– Represents zero. D Withheld to avoid disclosure of individual company data.
[1] Includes tin content of ores used to make alloys.
[2] Foreign only, domestic not separately recorded. [3] Source: *American Metal Market*.
[4] Apparent consumption, primary only. [5] Prior to 1955, excludes production of U.S.S.R.

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

No. 1089. Bauxite—Summary: 1930 to 1965

[**Quantities in thousands of long tons; values in thousands of dollars.** Excludes Alaska and Hawaii prior to 1960, except imports and exports include Alaska, Hawaii, and Puerto Rico for all years. See *Historical Statistics, Colonial Times to 1957*, series M 249, for production]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965
Production:								
Crude ore	(NA)	510	1,585	2,139	2,409	1,831	1,915	1,990
Dried-bauxite equivalent	331	439	1,335	1,788	1,998	1,525	1,601	1,654
Value	1,928	1,754	7,693	14,543	21,107	17,234	17,875	18,632
Shipments: [1]								
Gross weight (as shipped)	(NA)	507	1,452	2,012	1,925	1,779	1,830	2,065
Dried-bauxite equivalent	(NA)	438	1,337	1,727	1,654	1,545	1,588	1,785
Value	(NA)	1,745	9,549	15,559	19,559	18,290	18,668	21,085
Imports for consumption[2] (crude and dried)	410	630	2,516	4,882	8,739	9,212	10,180	11,400
Value	1,996	4,299	15,730	36,656	78,024	114,546	128,787	142,989
Exports (as shipped)	105	82	45	14	29	203	279	147
Value	3,777	1,543	1,156	528	2,588	15,696	22,211	10,736
World production (estimate)	1,603	4,321	8,050	17,500	27,205	30,260	33,230	36,530

NA Not available. [1] Shipments from mines and processing plants to consumers.
[2] Beginning 1955, import figures adjusted to dry equivalent for Jamaican, Haitian, and Dominican Republic bauxite. Other imports on "as shipped" basis.

No. 1090. Aluminum—Summary: 1930 to 1965

[**Quantities in thousands of short tons; values in thousands of dollars.** Excludes Alaska and Hawaii prior to 1960, except that imports and exports include Alaska, Hawaii, and Puerto Rico for all years. See also *Historical Statistics, Colonial Times to 1957*, series M 251–255]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965
Total production	153	287	962	1,902	2,344	2,819	3,105	3,395
Value	68,138	104,624	316,046	830,800	1,201,321	1,268,812	1,458,013	1,651,795
Primary aluminum:								
Production	115	206	719	1,566	2,014	2,313	2,553	2,754
Value	50,961	75,292	235,977	684,038	1,030,007	1,039,812	1,196,013	1,337,795
Price, cents per pound [1]	23.8	18.7	17.7	23.7	26.0	22.6	23.7	24.5
Secondary aluminum:								
Production (recovered) [2]	39	80	244	336	329	506	552	641
From old scrap	39	46	76	76	63	116	124	160
From new scrap		35	167	260	267	390	428	481
Value [3]	17,177	29,332	80,069	146,762	171,314	229,000	262,000	314,000
Imports for consumption [4]	13	18	256	239	196	466	453	621
Value [5]	4,690	4,737	67,533	105,061	103,278	191,081	195,833	265,692
Exports [4]	9	28	23	34	384	292	349	313
Value [5]	3,916	17,919	13,345	19,692	174,414	135,343	169,975	166,794
Total apparent consumption	109	306	1,200	2,111	2,016	3,040	3,216	3,736
World production (est.)	297	868	1,640	3,460	4,950	6,075	6,720	7,415

[1] As quoted. 99+ percent virgin ingot. The use of the term "pig" was discontinued in August 1960. The former pig price is now applied to ingot. Source: *American Metal Market*.
[2] Through 1950, recoverable aluminum-alloy content; thereafter, recoverable aluminum content.
[3] 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*.
[4] Crude and semicrude (including metal and alloys, plates, bars, etc., and scrap).
[5] Beginning 1955, not comparable with earlier years.

No. 1091. Magnesium—Summary: 1930 to 1965

[**In short tons, except as indicated.** Excludes Alaska and Hawaii prior to 1960, except that imports and exports include Alaska, Hawaii, and Puerto Rico for all years. See *Historical Statistics, Colonial Times to 1957*, series M 256–258, for production]

ITEM	1930	1940	1950	1955	1960	1963	1964	1965
Production:								
Primary magnesium, ingot equivalent	587	6,261	15,726	61,135	40,070	75,845	79,488	81,361
Secondary magnesium, ingot equivalent	–	(NA)	9,476	10,246	10,348	9,225	11,790	13,617
Average price per pound, primary (quoted)								
Price, primary, cents per pound	48.0	27.0	22.0	29.5	35.25	35.25	35.25	35.25
Exports: [1]								
Metal and alloys in crude form and scrap	(NA)	859	586	8,230	4,467	15,484	15,949	17,836
Semifabricated forms, powder, etc	(NA)	(NA)	322	[2] 250	665	723	870	484
Imports, metallic and scrap [3]	3	–	843	1,844	401	1,850	2,227	2,551
Domestic consumption [4]	(NA)	5,766	18,051	46,463	37,100	51,240	54,748	69,622
World primary production (estimate)	(NA)	42,000	50,000	132,000	102,500	159,900	166,200	174,000

– Represents zero. NA Not available.
[1] Beginning 1960, some material formerly included with metals and alloys in crude form and scrap, included with semifabricated forms, etc.
[2] Not strictly comparable with 1950. [3] Represents imports for consumption.
[4] 1940 data, primary and secondary; thereafter, primary only.

Source of tables 1089–1091: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.