

## Section 24

### 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, wood pulp, paper and board, turpentine, rosin, and veneer logs; and other similar data.

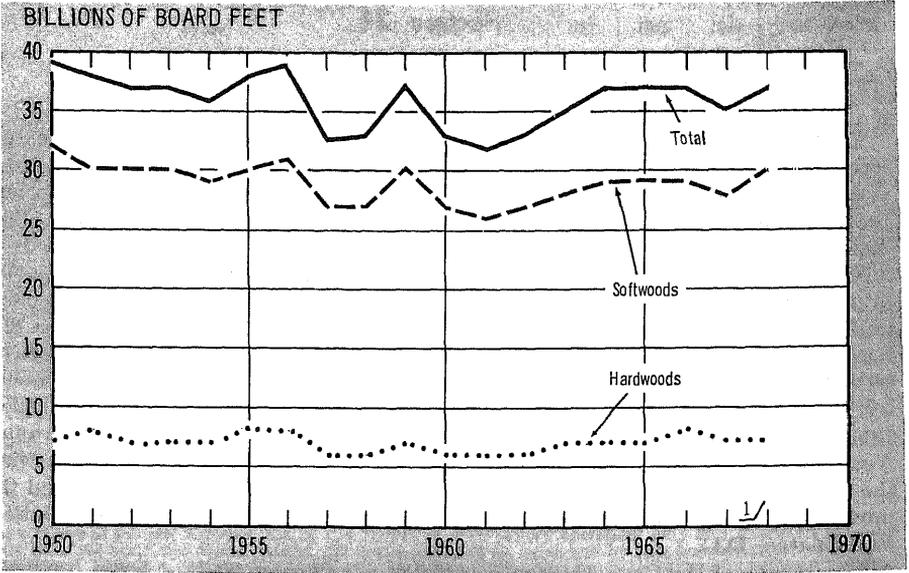
The principal sources of these data are *Timber Trends in the United States*, issued in 1965 by the Forest Service of the Department of Agriculture, and *The Demand and Price Situation for Forest Products, National Forest System*, and *Forest Fire Statistics*, issued annually by the Forest Service; and 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 monthly *Fingertip Facts and Figures* of the National Forest Products Association, Washington, D.C.

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.

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

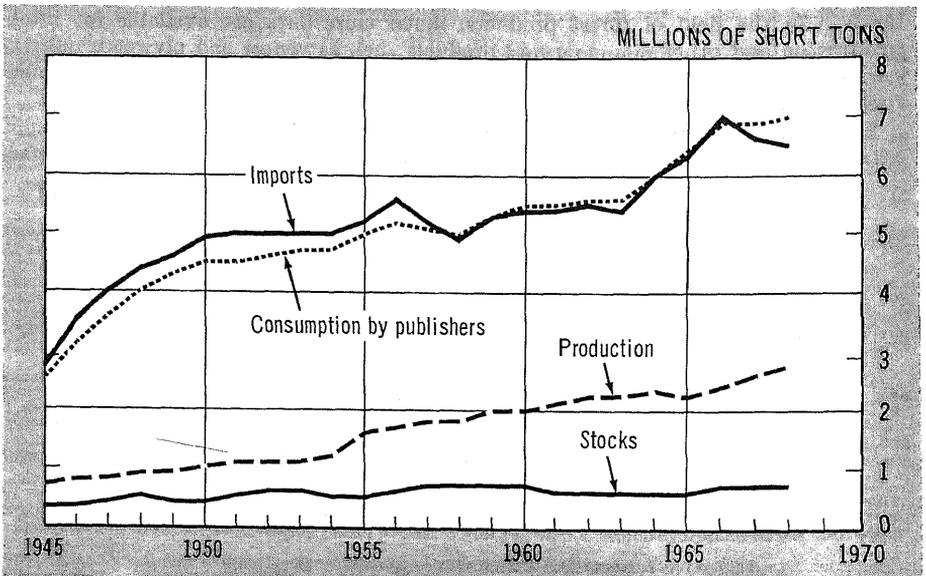
Fig. XXXIX. LUMBER PRODUCTION: 1950 TO 1968  
[See table 977]



<sup>1</sup> 1967 and 1968 data are preliminary.

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

Fig. XL. NEWSPRINT—PRODUCTION, STOCKS, CONSUMPTION, AND IMPORTS: 1945 TO 1968  
[See table 990]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of Commerce, Office of Business Economics, and Bureau of the Census.

No. 969. FOREST LAND—AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP, AND VOLUME OF SAWTIMBER AND GROWING STOCK, BY STATES: 1963

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of producing, usable crops of industrial wood, (b) economically available on date shown or prospectively, and (c) not withdrawn from timber utilization]

STATE	Total forest land (1,000 acres)	COMMERCIAL FOREST LAND, OWNERSHIP (1,000 acres)				SAWTIMBER, NET <sup>1</sup> (mil. bd. ft. int'l. ¼ inch log rule)		GROWING STOCK, NET; <sup>2</sup> (mil. cu. ft.)	
		Total	Federal	State, county, municipal	Private	Soft-wood	Hard-wood	Soft-wood	Hard-wood
<b>United States</b> .....	758,865	508,845	113,176	28,692	366,977	2,058,022	478,777	434,082	193,800
<b>North</b> .....	178,440	171,789	12,508	19,499	139,782	66,627	243,147	31,306	105,163
New England.....	31,886	31,451	906	905	29,640	30,368	24,060	16,003	14,692
Connecticut.....	1,990	1,973	1	154	1,818	190	2,087	117	1,419
Maine.....	17,425	17,169	66	39	16,964	20,687	10,625	11,679	6,169
Massachusetts.....	3,288	3,259	29	370	2,860	851	1,702	610	1,517
New Hampshire.....	5,019	4,907	579	118	4,210	5,859	3,152	2,537	2,142
Rhode Island.....	434	430	-	26	404	-	165	17	393
Vermont.....	3,780	3,713	231	98	3,384	2,784	6,329	1,143	3,252
<b>Middle Atlantic</b> .....	46,646	43,888	1,538	4,170	38,180	13,744	89,960	5,664	40,947
Delaware.....	1,392	391	1	8	882	546	709	238	297
Maryland.....	2,920	2,897	54	160	2,683	1,669	7,123	833	2,862
New Jersey.....	2,229	2,120	37	237	1,866	604	2,939	314	1,148
New York.....	14,450	12,002	98	797	11,107	7,009	24,974	2,757	11,890
Pennsylvania.....	15,186	15,089	485	2,815	11,789	2,351	25,381	955	13,974
West Virginia.....	11,469	11,389	883	153	10,353	1,565	28,534	567	11,276
<b>Lake</b> .....	55,211	52,392	7,554	13,687	31,151	18,213	41,492	8,350	23,546
Michigan.....	19,699	19,121	2,540	3,780	12,801	7,400	19,096	3,233	9,287
Minnesota.....	19,047	17,050	2,813	6,720	7,523	6,560	8,959	3,607	6,195
North Dakota.....	439	424	118	10	296	-	637	-	310
South Dakota (east).....	438	395	173	21	201	52	705	11	387
Wisconsin.....	15,588	15,396	1,910	3,155	10,330	4,201	12,095	1,499	7,367
<b>Central</b> .....	44,697	44,058	2,510	737	40,811	4,302	87,635	1,289	25,978
Illinois.....	3,871	3,761	229	11	3,521	28	8,548	18	2,328
Indiana.....	4,018	3,960	177	117	3,666	62	12,603	33	3,326
Iowa.....	2,620	2,595	13	24	2,558	6	6,188	4	1,640
Kansas.....	1,668	1,664	1	-	1,663	10	4,270	9	1,149
Kentucky.....	10,891	10,840	575	77	10,188	2,485	26,776	671	8,016
Missouri.....	15,296	14,977	1,361	224	13,392	879	11,733	338	4,683
Nebraska.....	1,162	1,140	66	12	1,082	423	1,249	104	333
Ohio.....	5,171	5,121	88	272	4,761	409	16,368	114	4,503
<b>South</b> .....	220,304	201,069	14,062	2,820	184,187	224,757	187,313	62,688	71,398
<b>South Atlantic</b> .....	48,994	47,604	3,361	606	43,637	54,697	62,857	17,053	23,463
North Carolina.....	20,862	20,216	1,247	280	18,679	28,006	27,437	8,445	10,266
South Carolina.....	11,640	11,559	837	176	10,546	13,990	11,001	4,258	3,864
Virginia.....	16,492	15,829	1,277	140	14,412	12,701	24,419	4,350	9,343
<b>East Gulf</b> .....	46,269	44,772	3,314	715	40,743	44,661	25,229	14,854	9,809
Florida.....	19,004	18,474	1,640	580	16,254	15,263	6,781	4,758	2,897
Georgia.....	26,365	26,298	1,674	135	24,489	29,408	18,448	10,096	7,422
<b>Central Gulf</b> .....	53,685	53,361	2,900	1,019	49,442	49,746	43,873	13,379	16,980
Alabama.....	21,770	21,742	799	202	20,741	28,307	18,295	7,673	6,775
Mississippi.....	18,008	17,976	1,267	452	16,257	17,111	9,253	4,424	4,072
Tennessee.....	13,907	13,643	834	365	12,444	4,328	16,325	1,282	6,193
<b>West Gulf</b> .....	71,356	55,332	4,487	480	50,365	75,653	55,954	17,402	21,146
Arkansas.....	21,591	21,530	2,641	205	18,684	26,363	15,985	5,909	6,793
Louisiana.....	16,576	16,512	704	181	15,627	25,140	27,140	5,704	9,500
Oklahoma.....	9,235	5,299	423	60	4,816	2,483	2,271	618	990
Texas.....	23,954	11,991	719	34	11,238	21,667	9,658	5,171	3,863
<b>West</b> .....	360,121	135,987	86,606	6,373	43,008	1,766,638	46,317	340,088	17,239
<b>Pacific Northwest</b> .....	172,276	51,884	29,123	3,269	19,492	1,055,470	38,245	191,867	11,218
Alaska.....	118,487	5,761	5,685	146	30	180,930	1,625	34,718	346
Oregon.....	30,739	26,613	15,379	923	10,311	515,879	20,430	89,203	5,920
Washington.....	23,050	19,510	8,159	2,200	9,151	358,661	14,404	67,946	4,952
<b>Pacific Southwest</b> .....	44,523	18,480	9,162	681	8,337	302,298	2,336	54,861	6,667
California.....	42,541	17,391	9,153	194	8,044	302,298	1,614	54,861	437
Hawaii.....	1,982	1,089	9	487	593	-	722	-	220
<b>Northern Rocky Mt.</b> .....	55,039	39,287	28,467	1,753	9,067	269,645	1,547	60,855	883
Idaho.....	21,815	16,823	11,817	940	3,066	126,484	317	26,244	270
Montana.....	22,048	17,300	11,801	639	4,860	111,799	838	26,486	284
South Dakota (west).....	1,399	1,311	966	63	282	3,423	7	991	5
Wyoming.....	9,777	4,853	3,883	111	859	27,939	385	7,134	324
<b>Southern Rocky Mt.</b> .....	88,283	26,336	19,854	670	5,812	139,225	7,975	32,505	4,481
Arizona.....	19,002	3,870	3,701	34	135	28,098	189	6,116	120
Colorado.....	22,583	12,275	8,907	235	3,193	60,477	3,781	14,897	2,440
Nevada.....	12,036	109	32	-	77	565	7	126	25
New Mexico.....	18,807	6,083	4,118	161	1,804	29,872	1,870	6,876	561
Utah.....	14,955	3,999	3,096	240	668	20,213	2,128	4,490	1,335

- Represents zero. <sup>1</sup> Comprises 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 Calif., Oreg., Wash., and coastal Alaska where the minimum diameter is 11.0 inches. Hardwoods must be 11.0 inches in all States. <sup>2</sup> Comprises all live sawtimber trees, polelimber trees, saplings, and seedlings meeting specified standards of quality or vigor; excludes cull trees.

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

No. 970. 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 969]

YEAR AND REGION	Total forest land	COMMERCIAL FOREST LAND, OWNERSHIP <sup>1</sup>				NET VOLUME OF SAWTIMBER <sup>2</sup>		
		All owner-ships	Fed-erally owned or managed	State, county, and municipal	Private	Total	Soft-wood	Hard-wood
United States, 1938.....	630	462	<sup>3</sup> 121	( <sup>3</sup> )	341	1,764	1,493	271
United States, 1945.....	624	461	89		345	1,601	1,296	305
North.....	212	170	11	19	140	220	66	155
South.....	187	183	14	2	167	338	194	144
West.....	225	107	64	6	38	1,043	1,037	6
United States, 1953.....	772	530	99	27	358	2,057	1,648	409
North.....	199	174	13	19	142	266	59	207
South.....	197	193	14	2	177	357	183	174
West.....	376	163	72	5	40	1,434	1,406	28
United States, 1963.....	759	509	113	29	367	2,537	2,058	479
North.....	178	172	13	19	140	310	67	243
South.....	220	201	14	3	184	412	225	187
West.....	360	136	87	6	43	1,815	1,767	48

<sup>1</sup> For definition of commercial forest land, see headnote, table 969.

<sup>2</sup> See footnote 1, table 969. <sup>3</sup> 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. 971. NATIONAL FORESTS—SUMMARY: 1940 TO 1968

[Money figures in thousands of dollars. For years ending June 30, except as noted. Includes Alaska and Puerto Rico, except as noted. See also *Historical Statistics, Colonial Times to 1967*, series J 41-42 and L 7-22]

ITEM	1940	1950	1955	1960	1965	1966	1967	1968
Livestock grazing: <sup>1</sup>								
Cattle, horses, and swine <sup>2</sup> .....1,000..	1,314	1,128	1,148	1,307	1,376	1,475	1,521	1,531
Sheep and goats.....1,000..	4,968	3,013	2,830	2,574	2,112	2,309	2,264	2,246
Roads and trails:								
Road construction and reconstr.....miles	<sup>3</sup> 3,654	453	767	851	1,613	<sup>4</sup> 1,496	<sup>4</sup> 1,435	<sup>4</sup> 1,270
Trail construction and reconstr.....miles	2,221	828	184	142	671	<sup>4</sup> 668	<sup>4</sup> 701	<sup>4</sup> 964
Expenditures (maint. and constr.).....	<sup>2</sup> 23,511	15,036	29,413	43,151	105,472	125,058	119,309	122,668
Timber cut, total value <sup>5</sup> .....	5,168	31,140	71,231	157,094	161,880	196,427	189,563	240,226
Commercial and cost sales: <sup>6</sup>								
Volume.....mil. bd. ft.	1,740	3,502	6,328	9,367	11,244	12,138	10,851	12,129
Value.....	4,807	30,714	70,761	156,424	161,106	195,590	188,711	239,311
Free use:								
Volume.....mil. bd. ft.	326	121	106	123	191	181	170	175
Value <sup>7</sup> .....	304	215	204	216	280	265	277	293
Misc. forest products, value.....	57	211	266	454	494	572	575	622
Receipts, total.....	5,859	34,485	79,521	146,348	147,411	173,901	182,664	216,389
Timber use.....	3,943	30,269	75,044	139,903	138,769	164,936	172,789	205,609
Grazing use.....	1,463	3,385	2,953	3,665	3,040	3,325	3,588	3,499
Special land use, water power, etc.....	453	831	1,524	2,780	5,602	5,640	6,287	7,281
Payments to States and Puerto Rico <sup>8</sup> .....	1,456	8,478	19,573	35,672	35,757	42,190	44,164	52,562
25-percent fund.....	1,433	8,363	19,413	35,222	35,295	41,669	43,516	51,820
Ariz. and N. Mex. school fund.....	23	72	114	140	112	103	106	90
Minnesota.....	-	44	46	123	141	145	146	146
Alaska (Tongass suspense account) <sup>9</sup> .....	-	(NA)	(NA)	187	210	273	396	506
Allotments to Forest Service <sup>10</sup> .....	678	3,484	7,776	14,176	14,255	16,826	17,622	20,960

- Represents zero. NA Not available.

<sup>1</sup> Number permitted to graze. Beginning 1960, figures include national grasslands and land utilization project lands. Calendar-year data. Excludes Puerto Rico. <sup>2</sup> Excludes animals under 6 months of age.

<sup>3</sup> Includes forest highway construction. <sup>4</sup> Includes national grasslands.

<sup>5</sup> Includes all National Forest system lands. <sup>6</sup> Includes land exchanges.

<sup>7</sup> Includes some free use timber not reducible to board feet. <sup>8</sup> Payments made in following year.

<sup>9</sup> Total for 1948 through 1956 was \$597,133.

<sup>10</sup> For use in following year.

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

No. 972. NATIONAL FOREST LANDS AND PURCHASES: 1940 TO 1968

[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 on such lands. Actual purchases are made by Department of Agriculture. See also *Historical Statistics, Colonial Times to 1967*, series L 1-5]

ITEM	1940	1950	1955	1960	1965	1966	1967	1968
<b>Areas: <sup>1</sup></b>								
Gross area.....mil. acres..	228	229	236	227	226	227	228	227
National Forest System lands mil. acres..	177	181	188	186	187	<sup>2</sup> 186	<sup>2</sup> 187	<sup>2</sup> 187
<b>Purchases:</b>								
Gross area approved for purchase acres..	553,077	61,078	18,665	7,845	28,507	171,947	104,507	112,767
Average price per acre.....	\$3.98	\$8.71	\$10.30	\$14.76	\$46.67	\$77.39	\$67.34	\$83.47
Total price.....\$1,000..	2,203	532	192	114	1,331	13,307	7,037	9,413
Purchase completed.....acres..	659,572	96,963	12,063	7,547	33,239	36,091	144,558	114,888
Average price per acre.....	\$4.14	\$7.28	\$12.23	\$31.21	\$88.97	\$50.93	\$87.96	\$70.66
Total price.....\$1,000..	2,733	706	148	237	1,295	1,838	12,715	8,118

<sup>1</sup> Comprises all publicly and privately owned land within authorized boundaries of national forests, purchase units, experimental areas and land utilization projects. <sup>2</sup> Excludes lands in process of acquisition.

No. 973. NATIONAL FOREST AND OTHER LANDS—AREA AND PURCHASES, STATES AND PUERTO RICO: 1968

[Area figures in thousands of acres. Gross area within unit boundaries as of June 30; purchases cumulative to June 30. See headnote, table 972. See also *Historical Statistics, Colonial Times to 1967*, series L 1-2]

STATE OR OTHER AREA	GROSS AREA <sup>1</sup>			PURCHASES <sup>2</sup>			
	Total	National Forest System	Other	Gross area <sup>1</sup>	Net area		
					Acres	Average price per acre	Total price (\$1,000)
<b>Total.....</b>	<b>226,502</b>	<b>186,921</b>	<b>39,580</b>	<b>55,867</b>	<b>19,293</b>	<b>\$5.38</b>	<b>103,737</b>
Alabama.....	1,270	631	639	1,252	505	3.77	1,900
Alaska.....	20,777	20,735	43	-	-	-	-
Arizona.....	12,108	11,430	678	-	-	-	-
Arkansas.....	3,495	2,443	1,052	3,432	1,229	3.88	4,767
California.....	24,299	19,965	4,304	2,867	136	10.09	1,372
Colorado.....	15,823	14,320	1,504	-	-	-	-
Florida.....	1,225	1,076	149	1,223	783	3.24	2,535
Georgia.....	1,912	806	1,106	1,538	619	7.37	4,559
Idaho.....	21,618	20,347	1,271	727	37	3.56	131
Illinois.....	848	229	619	848	216	12.61	2,720
Indiana.....	723	146	577	723	133	16.80	2,239
Iowa.....	(Z)	(Z)	(Z)	5	5	9.11	43
Kansas.....	108	108	-	-	-	-	-
Kentucky.....	2,003	539	1,464	2,003	537	8.43	4,530
Louisiana.....	1,017	593	424	967	552	3.00	1,658
Maine.....	94	50	44	93	50	6.60	327
Michigan.....	4,781	2,633	2,148	4,775	1,938	6.88	13,326
Minnesota.....	5,042	2,784	2,258	5,042	1,614	5.39	8,717
Mississippi.....	2,312	1,134	1,177	2,090	1,006	3.58	3,595
Missouri.....	3,021	1,401	1,620	3,008	1,353	3.56	4,814
Montana.....	19,053	16,669	2,384	(Z)	-	-	-
Nebraska.....	441	350	91	-	-	-	-
Nevada.....	5,410	5,074	336	3,896	19	9.79	189
New Hampshire.....	805	679	126	805	676	7.78	5,258
New Mexico.....	10,176	9,153	1,022	93	21	1.92	40
New York.....	14	14	-	-	-	-	-
North Carolina.....	3,164	1,127	2,036	3,163	1,039	5.72	5,943
North Dakota.....	1,105	1,105	-	1	(Z)	10.00	5
Ohio.....	1,455	127	1,328	1,455	125	11.64	1,453
Oklahoma.....	460	287	173	266	196	8.70	1,707
Oregon.....	17,360	15,471	1,888	71	54	27.02	1,443
Pennsylvania.....	727	480	247	727	475	7.64	3,633
South Carolina.....	1,374	589	786	1,374	564	6.41	3,616
South Dakota.....	2,265	1,982	282	(Z)	(Z)	200.00	28
Tennessee.....	1,213	604	610	1,212	568	5.17	2,934
Texas.....	1,834	775	1,059	1,182	653	4.91	3,206
Utah.....	9,117	8,000	1,117	3,170	156	4.91	764
Vermont.....	629	236	393	629	231	9.69	2,239
Virginia.....	3,230	1,495	1,735	3,225	1,498	4.45	6,670
Washington.....	10,714	9,711	1,004	(Z)	(Z)	293.88	123
West Virginia.....	1,851	920	931	1,855	918	3.92	3,603
Wisconsin.....	1,974	1,479	495	1,974	1,374	2.51	3,448
Wyoming.....	9,599	9,165	433	-	-	-	-
Puerto Rico.....	56	28	28	186	14	13.94	196

- Represents zero. Z Less than 500 acres. <sup>1</sup> See footnote 1, table 972. <sup>2</sup> Purchase completed.

Source of tables 972 and 973: Dept. of Agriculture, Forest Service; annual report, *National Forest System*; and National Forest Reservation Commission; *Annual Report*.

## No. 974. FOREST TREE DISTRIBUTION PROGRAM AND COSTS: 1930 TO 1968

[For years ending June 30, except calendar years for trees, 1930 to 1945. 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	1960.....	844,599	6,573	186	6,387
1935.....	26,150	206	55	151	1964.....	535,429	7,453	229	7,224
1940.....	37,468	482	98	384	1965.....	508,651	6,865	215	6,649
1945.....	37,743	572	114	458	1966.....	521,440	6,812	219	6,593
1950.....	136,395	1,503	189	1,314	1967.....	572,088	7,989	220	7,769
1955.....	496,571	3,929	372	3,557	1968 (prel.)	573,067	8,528	224	8,304

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

## No. 975. FOREST FIRES—SUMMARY: 1950 TO 1968

[Area in thousands of acres; expenditures in thousands of dollars. See also *Historical Statistics, Colonial Times to 1857*, series L 100-109]

ITEM	1950	1955	1960	1964	1965	1966	1967	1968
Federal, protected area: <sup>1</sup>								
Forest area <sup>2</sup> .....	\$ 212,622	\$ 216,728	362,836	653,691	655,001	655,443	654,601	650,039
Number of fires.....	8,418	6,830	12,090	8,877	9,073	11,571	11,495	10,032
Area burned.....	391	364	622	194	146	1,265	342	1,205
State and private: <sup>6</sup>								
Forest area.....	426,694	431,109	434,830	478,423	502,317	516,076	517,210	515,000
Protected <sup>7</sup> .....	360,564	387,156	402,800	446,420	472,023	469,328	479,623	486,461
Unprotected.....	66,130	43,953	32,030	32,003	30,294	46,748	37,587	28,539
Number of fires.....	199,982	138,350	91,297	107,481	104,611	110,929	113,530	115,344
Protected.....	96,578	80,774	77,537	90,480	91,495	98,157	102,267	107,689
Unprotected.....	103,404	57,576	13,760	17,001	13,116	12,772	11,263	7,655
Area burned.....	15,127	7,424	3,856	4,003	2,506	3,309	4,316	3,027
Protected.....	3,407	2,448	1,909	1,670	1,206	1,908	1,926	1,633
Unprotected.....	11,720	4,976	1,947	2,333	1,300	1,401	2,390	1,394
Fire protection expenditures <sup>8</sup> .....	\$ 28,934	\$ 39,216	\$ 56,641	73,337	76,562	85,858	90,964	96,070
Federal.....	8,551	8,945	9,401	12,515	12,783	12,803	12,834	14,357
State and county.....	18,121	28,168	45,059	59,751	62,612	71,812	76,626	80,464
Private agencies.....	2,262	2,103	2,181	1,071	1,167	1,243	1,504	1,249
Total fires.....	208,588	145,264	103,387	116,358	113,684	122,500	125,025	125,376
On protected areas.....	105,182	87,688	89,627	99,357	100,568	109,728	113,762	117,721
Percent of total.....	50.4	60.4	86.7	85.4	88.5	89.6	91.0	93.9
Lightning.....	6,518	6,282	11,068	7,887	8,730	10,232	10,335	9,066
Campfires.....	3,802	3,924	3,614	3,954	3,404	3,666	3,405	2,986
Smoking.....	18,287	15,882	16,030	15,455	16,517	16,807	16,844	17,162
Debris burning.....	18,768	20,338	21,870	26,252	22,882	26,726	28,253	31,192
Incendiary (arson).....	40,127	25,775	21,162	25,431	26,860	28,388	33,116	32,417
Machine use.....	(NA)	(NA)	(NA)	8,353	6,734	8,509	8,763	8,387
Miscellaneous <sup>9</sup> .....	17,680	15,487	15,853	12,025	15,441	15,400	13,046	16,511

NA Not available.

<sup>1</sup> Comprises national forests, public domain, land administered by Dept. of the Interior, Soil Conservation Service, Tennessee Valley Authority, etc.<sup>2</sup> Beginning 1964, includes nonforest watershed areas under Dept. of the Interior protection.<sup>3</sup> Excludes Alaska and Hawaii. <sup>4</sup> Excludes Alaska.<sup>5</sup> Excludes number of fires on area burned on nonforest watershed areas under Dept. of the Interior protection.<sup>6</sup> Prior to 1960, excludes Alaska. <sup>7</sup> Includes nonforest watershed areas.<sup>8</sup> For fire protection on State and private forest lands only, years ending June 30.<sup>9</sup> Prior to 1964, lumbering and railroads included in "Miscellaneous"; thereafter, in various other classifications.Source: Dept. of Agriculture, Forest Service; annual report, *Forest Fire Statistics*, and unpublished data.

## No. 976. LUMBER PRODUCTION, BY KIND OF WOOD: 1950 to 1967

[In millions of board feet, lumber tally. Prior to 1962, excludes Alaska and Hawaii. Based on sample surveys; see source for sampling variability. See also *Historical Statistics, Colonial Times to 1957*, series L 45-60]

KIND OF WOOD	1950	1955	1960	1962	1963	1964	1965	1966	1967 (prel.)
<b>Total</b> .....	<b>38,007</b>	<b>37,380</b>	<b>32,926</b>	<b>33,178</b>	<b>34,706</b>	<b>36,559</b>	<b>36,762</b>	<b>36,584</b>	<b>35,275</b>
<b>Softwoods</b> .....	<b>30,633</b>	<b>29,815</b>	<b>26,672</b>	<b>26,819</b>	<b>27,552</b>	<b>29,284</b>	<b>29,295</b>	<b>28,847</b>	<b>27,874</b>
Cedar.....	1 813	(S)	(S)	608	556	651	633	610	575
Douglas fir.....	9,984	10,414	8,832	8,504	8,353	8,868	8,783	8,528	8,180
Hemlock.....	1,508	1,568	2,032	2,279	2,486	2,490	2,576	2,490	2,353
Larch.....	246	346	418	443	300	431	441	421	405
Ponderosa pine.....	3,865	3,663	3,169	3,275	3,516	3,729	3,776	3,808	3,788
Redwood.....	875	991	1,000	1,024	1,138	1,199	1,176	1,038	939
Southern yellow pine.....	9,939	7,360	5,660	5,740	6,055	6,414	6,628	6,609	6,415
Engelmann and sitka.....	(NA)	(NA)	471	583	529	626	641	666	686
Sugar pine.....	425	390	408	413	463	467	464	507	495
White fir.....	1,114	2,059	2,224	2,234	2,158	2,540	2,422	2,321	2,283
White pine.....	1,292	1,105	(S)	(S)	2 933	2 1,135	2 1,151	2 1,111	2 1,083
Other softwoods.....	1,072	777	675	589	975	734	693	738	712
<b>Hardwoods</b> <sup>1</sup> .....	<b>7,374</b>	<b>7,565</b>	<b>6,254</b>	<b>6,359</b>	<b>7,154</b>	<b>7,275</b>	<b>7,467</b>	<b>7,737</b>	<b>7,401</b>
Ash.....	81	125	125	105	143	136	141	154	149
Basswood.....	(4)	119	92	66	92	69	87	90	77
Beech.....	325	226	195	169	166	176	182	175	160
Birch.....	137	144	126	89	107	121	109	104	96
Cottonwood <sup>5</sup> .....	225	327	208	178	192	205	198	211	202
Elm.....	(4)	198	195	186	200	204	208	208	200
Maple.....	546	588	602	522	556	642	786	658	702
Oak.....	3,347	3,716	2,789	3,068	3,170	3,417	3,356	3,675	3,421
Sweet (red and sap) gum.....	758	529	331	328	418	380	387	434	385
Tupelo and black gum.....	342	364	292	268	398	381	385	352	342
Yellow poplar.....	833	690	592	617	644	645	681	692	666
Other hardwoods.....	780	559	593	620	1,068	899	949	984	1,001

NA Not available. S Suppressed; standard error more than 15 percent.

<sup>1</sup> Incense, Port Orford, and western red cedar only; eastern red cedar included in "Other softwoods."

<sup>2</sup> Standard error more than 15 percent. <sup>3</sup> Beginning 1960, includes estimate for western hardwoods, not reported by species. <sup>4</sup> Included in "Other hardwoods." <sup>5</sup> Includes aspen.

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

## No. 977. LUMBER PRODUCTION, CONSUMPTION, STOCKS, EXPORTS, AND IMPORTS: 1950 to 1968

[In millions of board feet, except ratios. Excludes Alaska and Hawaii, 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	1965	1966	1967 (prel.)	1968 (prel.)
<b>Production</b> <sup>1</sup> .....	<b>38,902</b>	<b>37,858</b>	<b>32,926</b>	<b>36,762</b>	<b>36,584</b>	<b>35,275</b>	<b>37,094</b>
Softwoods.....	31,528	30,293	26,672	29,295	28,847	27,874	30,134
Hardwoods.....	7,374	7,565	6,254	7,467	7,737	7,401	6,960
<b>Domestic consumption</b> <sup>2</sup> .....	<b>41,627</b>	<b>41,088</b>	<b>35,226</b>	<b>42,109</b>	<b>40,986</b>	<b>39,789</b>	<b>43,043</b>
Softwoods.....	34,277	32,830	28,974	33,685	32,485	32,018	35,071
Hardwoods.....	7,350	8,258	6,252	8,424	8,501	7,771	7,977
<b>Gross mill stocks, end of year</b> .....	<b>6,183</b>	<b>8,669</b>	<b>7,352</b>	<b>5,645</b>	<b>5,737</b>	<b>5,744</b>	<b>5,086</b>
Softwoods.....	4,207	5,386	5,285	4,548	4,668	4,367	4,172
Hardwoods.....	1,976	3,283	2,067	1,097	1,069	1,377	914
<b>Ratio of total mill stocks to total consumption, percent</b> .....	<b>15</b>	<b>21</b>	<b>21</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>12</b>
Softwoods.....	12	16	18	14	14	14	12
Hardwoods.....	27	40	33	13	13	18	11
<b>Exports</b> <sup>1</sup> .....	<b>518</b>	<b>844</b>	<b>861</b>	<b>922</b>	<b>1,024</b>	<b>1,134</b>	<b>1,159</b>
Softwoods.....	407	652	688	777	860	955	1,025
Hardwoods.....	111	189	173	145	164	179	134
<b>Imports</b> <sup>2</sup> .....	<b>3,432</b>	<b>3,597</b>	<b>3,922</b>	<b>5,233</b>	<b>5,200</b>	<b>5,146</b>	<b>6,156</b>
Softwoods.....	3,140	3,327	3,631	4,895	4,776	4,798	5,808
Hardwoods.....	283	266	291	338	424	348	348

<sup>1</sup> Beginning 1965, includes Alaska. <sup>2</sup> Represents shipments and net imports.

<sup>3</sup> 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. 978. LUMBER PRODUCTION, BY GEOGRAPHIC DIVISIONS: 1965 to 1967

[Production in millions of board feet, lumber tally. Data 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 fig. 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	1965			1966			1967 (prel.)		
	Production	Per cent	Standard error <sup>1</sup> (per cent)	Production	Per cent	Standard error <sup>1</sup> (per cent)	Production	Per cent	Standard error <sup>1</sup> (per cent)
United States.....	36,762	100.0	( <sup>2</sup> )	36,584	100.0	( <sup>2</sup> )	35,275	100.0	( <sup>2</sup> )
New England.....	656	1.8	( <sup>2</sup> )	684	1.9	( <sup>2</sup> )	632	1.8	( <sup>2</sup> )
Middle Atlantic.....	872	2.4	( <sup>2</sup> )	896	2.4	( <sup>2</sup> )	882	2.5	( <sup>2</sup> )
East North Central.....	1,211	3.3	( <sup>2</sup> )	1,198	3.3	( <sup>2</sup> )	1,179	3.3	( <sup>2</sup> )
West North Central.....	532	1.4	( <sup>4</sup> )	587	1.6	( <sup>4</sup> )	595	1.7	( <sup>4</sup> )
South Atlantic.....	5,250	14.3	( <sup>2</sup> )	5,375	14.7	( <sup>2</sup> )	5,186	14.7	( <sup>2</sup> )
East South Central.....	3,300	9.0	( <sup>2</sup> )	3,384	9.2	( <sup>2</sup> )	3,275	9.3	( <sup>2</sup> )
West South Central.....	3,344	9.1	( <sup>2</sup> )	3,250	8.9	( <sup>2</sup> )	3,048	8.6	( <sup>2</sup> )
Mountain.....	4,182	11.4	( <sup>2</sup> )	4,223	11.5	( <sup>2</sup> )	4,143	11.7	( <sup>2</sup> )
Pacific.....	17,415	47.3	( <sup>2</sup> )	16,987	46.4	( <sup>2</sup> )	16,835	46.3	( <sup>2</sup> )

<sup>1</sup> See Technical Note, p. 713, for explanation of standard error. <sup>2</sup> 5 percent or less.

<sup>3</sup> More than 5 percent but not exceeding 10 percent. <sup>4</sup> 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. 979. 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	1960	1962	1963	1964
Total.....	<sup>1</sup> 33,343	<sup>2</sup> 32,916	12,337	<sup>1</sup> 11,681	32,926	33,178	34,706	36,559
Less than 999.....	<sup>3</sup> 29,017	<sup>2</sup> 28,835	8,037	<sup>2</sup> 7,433	<sup>2</sup> 4,343	4,254	3,768	4,416
1,000-2,999.....	2,588	2,446	2,436	2,433	4,466	4,265	4,069	4,052
3,000-4,999.....	566	470	590	520	2,212	1,913	2,269	1,954
5,000-9,999.....	532	508	546	575	3,796	3,922	3,816	3,658
10,000-14,999.....	<sup>1</sup> 239	211	211	216	3,000	2,746	2,541	2,626
15,000-24,999.....	166	192	233	217	3,219	3,866	4,384	4,309
25,000-49,999.....	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

<sup>1</sup> Standard error of estimate is more than 10 percent but not exceeding 15 percent.

<sup>2</sup> Standard error of estimate is more than 5 percent but not exceeding 10 percent.

<sup>3</sup> Standard error of estimate is 16 percent.

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

## No. 980. ROUNDWOOD PRODUCTS—SOFTWOODS AND HARDWOODS, BY REGIONS: 1962

[In thousands of cubic feet. For States represented in regions shown, see table 969]

REGION	TOTAL <sup>1</sup>		SAW LOGS		VENEER		PULPWOOD		FUELWOOD	
	Soft-woods	Hard-woods	Soft-woods	Hard-woods	Soft-woods	Hard-woods	Soft-woods	Hard-woods	Soft-woods	Hard-woods
U.S. ....	7,264,269	3,055,625	4,223,526	1,047,039	708,278	148,817	1,885,829	717,272	207,909	915,811
North.....	574,171	1,377,891	191,907	446,218	245	39,561	309,845	286,331	32,464	467,319
South.....	2,569,684	1,607,635	1,097,018	579,340	2,724	109,187	1,231,275	390,222	118,254	442,980
West.....	4,120,404	70,099	2,934,601	21,481	705,309	69	344,709	40,719	57,191	5,512

<sup>1</sup> Includes miscellaneous industrial products, not shown separately.

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

**No. 981. INDUSTRIAL TIMBER PRODUCTS FROM ROUNDWOOD—SUMMARY: 1940 TO 1968**

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

ITEM	1940	1950	1960	1963	1964	1965	1966	1967	1968 (prel.)
<b>Total:</b>									
Domestic production .....	6, 975	8, 520	8, 860	9, 320	10, 040	10, 295	10, 455	10, 080	10, 720
Net imports .....	400	1, 350	1, 255	1, 500	1, 495	1, 580	1, 645	1, 495	1, 635
New supply .....	7, 375	9, 955	10, 060	10, 860	11, 490	11, 795	12, 060	11, 510	12, 335
<b>Saw logs:</b>									
Domestic production .....	<sup>1</sup> 4, 845	<sup>1</sup> 5, 905	<sup>1</sup> 5, 080	5, 355	5, 640	5, 670	5, 645	5, 440	5, 765
Net imports .....	<sup>2</sup> 35	455	480	695	665	670	650	625	780
New supply .....	4, 810	6, 360	5, 560	6, 050	6, 305	6, 345	6, 295	6, 065	6, 545
<b>Veneer logs:<sup>1</sup></b>									
Domestic production .....	235	345	705	870	960	1, 030	1, 030	1, 000	1, 130
Net imports .....	<sup>2</sup> 5	5	60	95	110	120	140	135	205
New supply .....	230	350	765	965	1, 070	1, 150	1, 170	1, 135	1, 335
<b>Pulpwood:</b>									
Domestic production .....	<sup>1</sup> 930	<sup>1</sup> 1, 500	<sup>3</sup> 2, 565	2, 635	2, 900	3, 095	3, 215	3, 125	3, 255
Net imports .....	440	890	715	710	720	790	855	735	650
New supply .....	<sup>4</sup> 1, 370	2, 475	3, 225	3, 385	3, 575	3, 800	4, 030	3, 795	3, 885
<b>Other products, new supply<sup>1</sup> ..</b>	965	770	510	460	540	500	565	515	570

<sup>1</sup> Excludes Alaska and Hawaii.   <sup>2</sup> Net exports.

<sup>3</sup> Excludes Hawaii.   <sup>4</sup> Excludes changes in stocks.

<sup>5</sup> Includes cooperate 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. 982. STUMPAGE AND LUMBER PRICES FOR SELECTED SPECIES: 1940 TO 1968**

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

ITEM	1940	1950	1955	1960	1965	1966	1967	1968 (prel.)
<b>Stumpage prices:</b>								
Douglas-fir .....	2.30	16.40	28.90	32.00	42.60	50.00	41.70	61.20
Southern pine .....	4.50	26.70	32.00	34.50	31.70	35.60	38.30	42.20
Sugar pine .....	3.00	25.00	30.00	29.00	23.30	24.90	23.50	35.00
Ponderosa pine .....	2.20	18.30	26.10	19.10	19.80	19.80	22.20	30.20
<b>Douglas-fir lumber prices, wholesale .....</b>	22.20	73.30	80.90	75.00	76.10	76.60	(NA)	(NA)

NA Not available.

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

**No. 983. SELECTED TIMBER PRODUCTS—WHOLESALE PRICE INDEXES: 1940 TO 1968**

 [1957-59=100. 1960 and earlier years exclude Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series L 92-96, for indexes on 1947-49 base]

YEAR	Lumber	Plywood <sup>1</sup>	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 .....	93.6	122.9	79.4	74.7	77.1
1955 .....	102.4	116.4	95.3	91.1	93.3
1960 .....	99.8	90.6	100.2	102.0	99.4
1964 .....	100.7	85.3	96.1	103.6	96.4
1965 .....	101.9	85.1	98.1	104.1	96.4
1966 .....	108.5	89.4	98.0	107.3	97.1
1967 .....	108.4	81.9	98.0	110.0	95.0
1968 .....	127.2	109.4	98.0	112.7	92.2

<sup>1</sup> Softwood plywood, interior grade A-D.

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

## No. 984. MILLWORK, WOOD PRODUCTS, AND PAINTS—PRODUCTION: 1950 TO 1968

ITEM	1950	1955	1960	1965	1967	1968 (prel.)
Hardwood flooring.....mil. bd. ft.	1,077	1,268	915	808	1,577	1,483
Softwood plywood <sup>2</sup> .....mil. sq. ft., 3/4" basis	2,676	5,284	7,759	12,428	12,840	15,000
Insulation boards.....1,000 tons	838	1,100	1,098	1,258	1,201	1,300
Hardboard.....1,000 tons	381	530	686	1,093	963	1,200
Particleboard.....mil. sq. ft., 3/4" basis	(NA)	78	268	780	1,119	1,500
Ponderosa pine doors <sup>3</sup> .....1,000 units	3,330	2,253	1,948	2,041	2,452	2,165
Hardwood doors <sup>3</sup> .....1,000 units	1,221	6,786	3,763	5,307	6,335	5,081
Sash and window units <sup>3</sup> .....1,000 units	9,414	12,734	7,958	8,891	7,963	8,177
Exterior frames and window units <sup>3</sup> .....1,000 units	4,644	7,260	5,345	6,250	4,907	5,405
Paint, varnish, and lacquer <sup>4</sup> .....mil. gal.	(NA)	255	344	411	398	424

NA Not available. <sup>1</sup> Oak and maple only. <sup>2</sup> Principally Douglas fir. <sup>3</sup> Covers only reports of shipments from members of National Woodwork Manufacturers' Association, includes fir and hemlock.  
<sup>4</sup> Production for trade sales. Beginning 1960, figures not comparable with earlier years.

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. 985. PLYWOOD AND PARTICLEBOARD—PRODUCTION AND SHIPMENTS: 1966 AND 1967

[Quantities in millions of square feet; value in thousands of dollars]

PRODUCT	1966		1967			
	Production	Shipments <sup>1</sup>		Production	Shipments <sup>1</sup>	
		Quantity	Value		Quantity	Value
<b>Hardwood plywood</b> .....surface measure..	2,165	1,776	355,891	1,973	1,663	324,859
Veneer core, all types.....surface measure..	1,795	1,594	(NA)	1,671	1,521	(NA)
Technical and type I, waterproof.....surface measure..	50	25	(NA)	41	19	(NA)
Type II, moisture resistant.....surface measure..	1,677	1,514	(NA)	1,559	1,442	(NA)
Type III, dry bond.....surface measure..	68	54	(NA)	71	61	(NA)
Other core, all types.....surface measure..	244	109	(NA)	198	83	(NA)
Container and packaging type.....surface measure..	126	74	(NA)	104	59	(NA)
<b>Softwood plywood</b> .....3/8" basis..	12,849	12,806	806,540	12,840	12,915	777,031
Interior type.....3/8" basis..	7,507	7,489	433,125	6,837	6,940	388,440
Exterior type.....3/8" basis..	5,342	5,317	373,415	6,003	5,975	388,591
<b>Particleboard</b> .....3/4" basis..	997	883	88,746	1,119	1,034	94,326
Platen.....3/4" basis..	948	(NA)	(NA)	1,074	(NA)	(NA)
Extruded.....3/4" basis..	49	(NA)	(NA)	45	(NA)	(NA)

NA Not available. <sup>1</sup> Includes interplant transfers.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M24F, M24H, and M24L.

## No. 986. TURPENTINE, ROSIN, AND NAVAL STORES—PRODUCTION: 1940 TO 1969

[Turpentine and naval stores in barrels of 50 gallons; rosin in drums of 520 pounds net, except as noted. For crop years ending March 31. Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series L 70-71]

PRODUCT	1940	1950	1960	1965	1967	1968	1969
<b>Total turpentine</b> .....	604,778	673,290	636,750	679,100	665,500	627,940	652,240
Gum.....	382,781	323,010	107,400	119,580	84,210	67,740	50,410
Wood..... <sup>1</sup> 221,997	350,280	529,350	559,520	581,290	560,200	601,830	
Steam distilled.....	158,575	199,630	175,950	157,450	154,540	140,470	128,600
Sulphate.....	56,631	147,500	353,400	402,070	426,750	419,730	473,230
<b>Total rosin</b> .....	1,813,710	2,023,510	1,915,770	2,015,010	1,957,790	1,868,720	1,845,560
Gum <sup>2</sup> .....	1,054,236	924,900	334,110	392,600	272,940	223,400	171,040
Wood, steam distilled <sup>3</sup> .....	759,474	1,098,610	1,198,690	1,036,370	985,670	964,730	960,160
Tall oil.....	-	-	382,970	586,040	699,180	680,500	714,360
<b>Other naval stores:</b>							
Pine oil <sup>4</sup> .....	(NA)	141,260	197,140	233,740	273,490	285,120	289,190
Other terpenes.....	(NA)	73,740	93,690	125,040	104,660	99,990	93,740

- Represents zero. NA Not available. <sup>1</sup> Includes "Destructively distilled."

<sup>2</sup> Drums of 517 pounds. <sup>3</sup> Beginning 1950, total primary production of FF wood rosin.

<sup>4</sup> Beginning 1965, data not comparable with earlier years due to change in reporting procedure.

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

### No. 987. PULPWOOD PRODUCTION AND CONSUMPTION AND WOODPULP PRODUCTION: 1950 TO 1968

[Cords of 128 cubic feet. Excludes Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1967*, series L 61 and L 64]

YEAR	PULPWOOD <sup>1</sup>				WOODPULP PRODUCTION <sup>3</sup>				
	Production <sup>2</sup>	Consumption			Total	Sulphate			Other
		Total	Soft-wood	Hard-wood		Un-bleached	Bleached and semi-bleached	Ground-wood	
	1,000 cords	1,000 cords	1,000 cords	1,000 cords	1,000 short tons	1,000 short tons	1,000 short tons	1,000 short tons	1,000 short tons
1950.....	20,712	23,627	20,406	3,221	14,849	5,709	1,793	2,216	5,132
1955.....	30,948	33,356	27,728	5,628	20,740	7,665	3,625	2,729	6,720
1957.....	34,422	35,746	29,446	6,300	21,800	7,651	4,284	3,089	6,776
1958.....	33,239	35,144	28,833	6,311	21,796	7,647	4,669	2,890	6,589
1959.....	36,716	38,691	30,885	7,806	24,383	8,540	5,289	3,230	7,324
1960.....	40,011	40,485	32,061	8,424	25,316	8,681	5,909	3,292	7,434
1961.....	40,272	42,191	33,095	9,097	26,523	9,115	6,307	3,208	7,892
1962.....	42,772	44,070	34,193	9,877	27,908	9,517	6,784	3,397	8,210
1963.....	44,708	46,435	35,661	10,774	30,121	10,502	7,439	3,468	8,712
1964.....	49,219	50,659	39,329	11,330	32,415	11,651	8,251	3,596	8,717
1965.....	53,208	51,970	39,676	12,294	33,993	12,698	8,811	3,595	8,889
1966.....	57,064	56,280	42,857	13,403	36,603	13,845	9,836	3,702	9,221
1967.....	57,219	55,773	42,219	13,553	36,660	13,924	10,001	3,879	8,856
1968 (prel.).....	<sup>4</sup> 57,155	<sup>4</sup> 53,358	<sup>4</sup> 43,722	<sup>4</sup> 14,636	<sup>5</sup> 37,903	<sup>5</sup> 13,280	<sup>5</sup> 11,029	<sup>5</sup> 4,237	<sup>5</sup> 9,857

<sup>1</sup> Beginning 1955, includes Alaska, and 1962, Hawaii.

<sup>2</sup> Includes slabs, chips, and mill waste. Production is equal to receipts from domestic sources by woodpulp mills located in the United States.

<sup>3</sup> Includes Alaska and, beginning 1962, Hawaii.

<sup>4</sup> Source: American Pulpwood Association, New York, N.Y.; *Monthly Pulpwood Statistics*.

<sup>5</sup> Source: United States Pulp Producers Association, New York, N.Y.; *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. 988. PAPER AND BOARD—PRODUCTION, BY TYPES: 1950 TO 1968

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

TYPE	1950	1955	1960	1964	1965	1966	1967	1968 (prel.)
Total.....	24,375	30,178	34,444	41,703	44,091	47,113	46,892	49,464
Paper.....	10,639	12,905	15,399	18,152	19,187	20,653	20,703	22,143
Paperboard.....	10,926	13,867	15,676	19,605	20,835	22,574	22,346	22,821
Wet machine board.....	165	179	175	148	144	148	146	142
Construction paper and board.....	2,646	3,228	3,194	3,798	3,925	3,739	3,697	4,358

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

## No. 989. PAPER AND BOARD—PRODUCTION, BY GRADES: 1966 TO 1968

[In thousands of short tons. Excludes Hawaii. "N.e.c.," means not elsewhere classified]

GRADE	1966	1967	1968 (prel.)	GRADE	1966	1967	1968 (prel.)
<b>All grades</b> .....	<b>47, 113</b>	<b>46, 893</b>	<b>49, 464</b>	<b>Paperboard</b> .....	<b>22, 574</b>	<b>22, 346</b>	<b>22, 821</b>
<b>Paper</b> .....	<b>20, 653</b>	<b>20, 703</b>	<b>22, 143</b>	Solid woodpulp furnish.....	(NA)	15, 054	15, 789
Printing, writing, and related.....	12, 446	12, 367	13, 163	Packaging and industrial converting.....	(NA)	12, 210	13, 067
Newsprint.....	2, 347	2, 475	2, 794	Unbleached kraft.....	(NA)	9, 075	9, 675
Groundwood, uncoated.....	1, 158	1, 122	1, 133	Bleached.....	(NA)	3, 135	3, 392
Coated printing and converted.....	3, 102	3, 086	3, 223	Semichemical.....	(NA)	2, 843	2, 721
Book, uncoated.....	2, 363	2, 260	2, 381	Combination furnish.....	(NA)	7, 292	7, 032
Bleached bostols <sup>1</sup> .....	924	978	927	Combination paperboard.....	(NA)	5, 721	5, 414
Writing and related, n.e.c.....	2, 553	2, 447	2, 705	Shipping container board.....	2, 011	1, 760	2, 219
Packaging and industrial converting.....	5, 107	5, 112	5, 570	Bending.....	(NA)	2, 917	2, 216
Unbleached kraft.....	3, 562	3, 581	3, 795	Nonbending.....	(NA)	1, 044	979
Other, exc. unbleached kraft.....	1, 151	1, 158	1, 197	Special combination pack- aging and industrial con- verting.....	(NA)	1, 571	1, 619
Special industrial.....	394	374	378	<b>Wet machine board</b> .....	148	146	142
Tissue.....	3, 099	3, 224	3, 410	Shoe.....	53	52	(NA)
Sanitary.....	2, 847	2, 972	3, 166	Binder's.....	(D)	(D)	(NA)
Other, excl. sanitary and thin.....	252	252	244	Other.....	(D)	(D)	(NA)
				<b>Construction paper and board</b> .....	3, 739	3, 697	4, 358
				Construction paper.....	1, 495	1, 533	1, 769
				Structural insulating board.....	1, 155	1, 201	1, 359
				Hard pressed board.....	1, 089	963	1, 231

D Withheld to avoid disclosure of data for individual companies. NA Not available.

<sup>1</sup> Excludes cotton fibre index and bogus.Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M26A.No. 990. NEWSPRINT—PRODUCTION, STOCKS, CONSUMPTION, IMPORTS, AND PRICE:  
1940 TO 1968

[In thousands of short tons, except price]

COUNTRY AND ITEM	1940	1945	1950	1955	1960	1965	1967	1968
<b>CANADA, INCLUDING NEWFOUNDLAND</b>								
Production.....	3, 770	3, 592	5, 279	6, 191	6, 739	7, 720	8, 051	8, 031
Shipments from mills.....	3, 804	3, 553	5, 311	6, 236	6, 752	7, 747	7, 968	8, 096
Stocks at mills, end of year.....	224	137	89	80	140	150	268	203
<b>UNITED STATES<sup>1</sup></b>								
Consumption by publishers <sup>2, 3</sup> .....	2, 856	2, 455	4, 542	5, 045	5, 532	6, 387	6, 907	7, 025
Production <sup>3</sup> .....	1, 013	724	1, 015	1, 552	2, 038	2, 180	2, 620	2, 935
Shipments from mills <sup>3</sup> .....	1, 013	725	1, 017	1, 550	2, 031	2, 183	2, 602	2, 946
Stocks, end of year: <sup>3</sup>								
At mills.....	13	6	8	8	26	19	39	27
At and in transit to publishers.....	356	266	425	458	628	573	630	633
Imports <sup>4</sup> .....	2, 763	2, 669	4, 864	5, 164	5, 412	6, 323	6, 599	6, 462
Wholesale price, average <sup>5</sup> ...dollars per ton.....	50.00	60.25	101.63	125.94	134.40	132.40	139.95	141.40

<sup>1</sup> Excludes Alaska and Hawaii, except as noted.<sup>2</sup> As reported by publishers accounting for 76 percent of total newsprint consumption in 1968.<sup>3</sup> Beginning 1965, includes Alaska and Hawaii.<sup>4</sup> Based on reports of the Bureau of the Census. Includes Alaska, Hawaii, and Puerto Rico.<sup>5</sup> 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 Newsprint Division, American Paper Institute, New York, N.Y. In *Survey of Current Business*.

## Section 25

### 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 by the Bureau of the Census and again in 1931 by the Bureau of Fisheries, then in the Department of Commerce. 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. 991. FISHERIES—QUANTITY AND VALUE OF CATCH: 1930 TO 1968

[Prior to 1950, excludes Hawaii. See also *Historical Statistics, Colonial Times to 1967*, 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 <sup>1</sup>				Total	For human food	For industrial products <sup>1</sup>		
1930.....	3, 224	2, 478	746	109	3.4	1962.....	5, 354	2, 540	2, 814	396	7.4
1940.....	4, 059	2, 674	1, 385	99	2.4	1963.....	4, 847	2, 556	2, 291	377	7.8
1945.....	4, 598	3, 167	1, 431	270	5.9	1964.....	4, 541	2, 497	2, 044	389	8.6
1950.....	4, 901	3, 307	1, 594	347	7.1	1965.....	4, 777	2, 587	2, 190	445	9.3
1955.....	4, 809	2, 579	2, 230	339	7.1	1966.....	4, 366	2, 572	1, 794	472	10.8
1960.....	4, 942	2, 498	2, 444	354	7.2	1967.....	4, 055	2, 368	1, 687	440	10.8
1961.....	5, 187	2, 490	2, 697	362	7.0	1968 (prel.)...	4, 116	2, 296	1, 820	472	11.5

<sup>1</sup> Manufactured into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food.

**No. 992. FISHERIES—EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS: 1950, 1960, AND 1967**  
[1950 excludes Hawaii]

ITEM	1950	1960	1967	ITEM	1950	1960	1967
<b>Persons employed</b> <sup>1</sup> .....	263,478	224,056	225,124	<b>Fishery shore establishments</b> .....	3,883	4,207	4,053
Direct employment:				Pacific Coast States <sup>2</sup> .....	700	515	569
Fishermen.....	161,463	130,431	136,500	Atlantic Coast and Gulf States.....	2,699	2,898	2,800
Shore workers.....	102,015	93,625	88,624	Great Lakes and Mississippi River States.....	494	772	646
<b>Craft utilized</b> <sup>1</sup> .....	92,310	77,057	84,200	Hawaii.....	(NA)	22	29
Fishing craft:							
Vessels, 5 net tons and over.....	11,496	12,018	13,100				
Motorboats.....	46,067	56,889	68,600				
Other boats.....	34,747	8,150	2,500				

NA Not available. <sup>1</sup> Exclusive of duplication. <sup>2</sup> Includes Alaska.

**No. 993. FISHERIES—FISHERMEN, FISHING CRAFT, AND CATCH, BY AREAS: 1967**  
[See *Historical Statistics, Colonial Times to 1957*, series L 110-123, for data on quantity of catch]

AREA	Fisher- men	Fish- ing vessels	Fish- ing boats <sup>1</sup>	CATCH (mil. lb.)			VALUE OF CATCH (mil. dol.)		
				Total	Fish	Shell- fish	Total	Fish	Shell- fish
<b>United States</b> .....	<sup>2</sup> 136,500	<sup>2</sup> 13,100	<sup>2</sup> 72,100	4,055	3,190	<sup>3</sup> 865	440	210	<sup>3</sup> 230
New England States.....	18,043	714	9,648	625	567	58	71	36	35
Middle Atlantic States.....	8,411	551	4,792	162	100	62	23	6	17
Chesapeake Bay States.....	18,225	1,420	11,449	422	302	120	36	8	28
South Atlantic States.....	10,054	1,152	5,821	353	288	65	25	11	14
Gulf States.....	25,923	3,968	10,848	1,181	900	281	128	24	104
Pacific Coast States.....	(NA)	(NA)	(NA)	1,135	873	<sup>3</sup> 262	140	110	<sup>3</sup> 30
Great Lakes States.....	2,026	330	914	84	84	-	6	6	-
Mississippi River States.....	(NA)	(NA)	(NA)	51	64	17	8	6	2
Hawaii.....	699	65	322	12	12	(Z)	3	3	(Z)

- Represents zero. NA Not available. Z Less than 500,000 pounds or \$500,000. <sup>1</sup> Refers to craft having capacity of less than 5 net tons. <sup>2</sup> Exclusive of duplication. <sup>3</sup> Includes whale products.

Source of tables 992 and 993: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States*.

**No. 994. COMMERCIAL FISHING OPERATORS: 1963**  
[Receipts and payroll in thousands of dollars]

ITEM	Total	OPERATORS WITH PRIMARY CATCH OF—	
		Finfish	Other marine products <sup>1</sup>
<b>Total number</b> .....	23,249	(NA)	(NA)
<b>Total gross receipts</b> .....	338,787	(NA)	(NA)
<b>Operators without paid employees:</b> <sup>2</sup>			
Number.....	13,998	(NA)	(NA)
Gross receipts.....	61,673	(NA)	(NA)
<b>Operators with paid employees:</b>			
Number.....	9,251	5,377	3,874
Gross receipts <sup>3</sup> .....	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
<b>Number with—</b>			
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.

<sup>1</sup> Includes catches of shellfish and miscellaneous marine products such as sponges, frogs, and turtles.

<sup>2</sup> Represents commercial fishermen who filed income tax returns as self-employed businessmen. Each return was counted as an operating unit.

<sup>3</sup> Gross receipts by legal form of organization are as follows: Individual proprietors, \$119,410,000; partnerships, \$43,333,000; corporations, \$113,178,000; cooperative associations, \$661,000; and other (including joint ventures, estate administrators, and trusteeships), \$532,000.

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

No. 995. COMMERCIAL FISHING OPERATORS—STATES: 1963

STATE	OPERATORS WITH PAID EMPLOYEES			STATE	OPERATORS WITH PAID EMPLOYEES		
	Number	Employees, annual average	Gross receipts (\$1,000)		Number	Employees, annual average	Gross receipts (\$1,000)
<b>Total</b> .....	<b>9,251</b>	<b>20,300</b>	<b>277,114</b>	<b>South Atlantic—Con.</b>			
New England.....	729	4,218	45,086	Maryland.....	379	154	2,817
Maine.....	148	434	4,084	Virginia.....	572	909	9,905
Massachusetts.....	450	3,438	35,325	North Carolina.....	273	507	4,553
Rhode Island.....	79	190	2,819	South Carolina.....	127	247	1,398
Connecticut.....	52	156	1,058	Georgia.....	193	356	3,203
Middle Atlantic.....	394	1,027	12,004	Florida.....	740	2,112	27,471
New York.....	141	361	4,661	East South Central.....	272	1,055	12,351
New Jersey.....	244	629	7,235	Alabama.....	125	437	3,261
Pennsylvania.....	9	37	108	Mississippi.....	147	618	9,090
East North Central.....	337	472	4,685	West South Central.....	1,373	3,390	47,121
Ohio.....	52	148	1,259	Louisiana.....	760	1,664	21,618
Illinois.....	6	34	294	Texas.....	613	1,826	25,603
Michigan.....	170	189	1,961	Mountain <sup>1</sup> .....	5	13	131
Wisconsin.....	109	101	1,171	Pacific.....	3,797	5,627	104,996
West North Central <sup>1</sup> .....	26	31	210	Washington.....	1,320	1,581	30,393
Minnesota.....	19	23	151	Oregon.....	320	229	4,651
South Atlantic.....	2,318	4,467	50,530	California.....	980	2,398	44,196
Delaware.....	34	182	1,183	Alaska.....	1,100	1,144	23,451
				Hawaii.....	77	275	2,305

<sup>1</sup> West North Central includes Iowa, Missouri, North Dakota, and South Dakota; Mountain includes Idaho and Utah. Data not shown separately to avoid disclosure of individual operations.

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

No. 996. FISHERIES—CATCH AND VALUE OF PRINCIPAL SPECIES: 1950 TO 1968

[Catch in millions of pounds; value in millions of dollars. 1950 excludes Hawaii]

SPECIES	1950		1960		1965		1968 (prel.)	
	Catch	Value	Catch	Value	Catch	Value	Catch	Value
<b>FISH</b>								
Cod, Atlantic.....	57	4	40	3	36	3	49	4
Flounder.....	132	12	127	13	180	18	113	14
Haddock.....	159	12	119	9	134	14	71	9
Hallibut, Pacific.....	51	8	51	6	40	9	26	4
Herring, sea.....	364	3	239	4	110	2	108	3
Mackerel, Pacific and jack.....	166	3	118	2	74	2	59	2
Menhaden.....	1,026	10	2,018	20	1,726	27	1,381	19
Ocean perch, Atlantic.....	208	9	141	5	84	3	62	2
Salmon, Pacific.....	329	37	235	45	327	65	301	55
Sardine, Pacific.....	715	12	58	1	1	(Z)	(Z)	(Z)
Tuna <sup>1</sup> .....	391	61	298	38	319	42	294	47
Whiting.....	67	1	112	3	83	2	78	3
<b>SHELLFISH</b>								
Clams.....	41	11	50	12	71	17	66	20
Crabs.....	159	9	222	17	335	31	238	44
Lobsters, northern.....	23	8	31	14	30	22	32	25
Oysters (meats).....	76	30	60	29	55	28	56	30
Shrimp (heads-on).....	191	43	249	67	244	82	292	113

Z. Less than 500,000 pounds or \$500,000.

<sup>1</sup> 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. 997. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATES, AND CATCH OF PRINCIPAL SPECIES, BY AREAS: 1940 TO 1967

[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 1967*, series L 114-154]

STATE, CATCH, AND VALUE	1940	1950	1955	1960	1964	1965	1966	1967
<b>New England States:</b>								
Catch.....	626, 054	1, 006, 590	955, 418	851, 964	681, 857	702, 181	684, 375	625, 340
Value.....	20, 494	60, 576	57, 243	61, 474	67, 596	74, 837	78, 247	70, 256
<b>Maine:</b>								
Catch.....	88, 088	356, 266	257, 174	294, 641	192, 575	204, 846	200, 392	197, 438
Value.....	2, 607	14, 689	16, 083	20, 071	21, 958	21, 922	24, 329	22, 973
<b>New Hampshire:</b>								
Catch.....	788	645	948	1, 188	1, 209	1, 272	1, 266	1, 166
Value.....	105	219	345	430	601	637	666	683
<b>Massachusetts:</b>								
Catch.....	510, 938	591, 188	566, 413	480, 421	446, 495	442, 300	409, 744	345, 621
Value.....	15, 756	40, 768	35, 057	35, 947	40, 184	46, 147	46, 175	39, 068
<b>Rhode Island:</b>								
Catch.....	12, 060	38, 265	115, 323	69, 318	36, 928	48, 706	68, 088	76, 347
Value.....	966	2, 788	4, 738	3, 846	3, 740	4, 624	5, 323	5, 764
<b>Connecticut:</b>								
Catch.....	14, 180	20, 226	15, 560	6, 396	4, 650	4, 927	4, 885	4, 768
Value.....	1, 060	2, 114	1, 020	1, 180	1, 113	1, 507	1, 754	1, 768
<b>Catch, by species:</b>								
Cod.....	82, 289	53, 968	32, 369	35, 255	37, 853	35, 465	37, 290	43, 870
Flounder.....	57, 572	66, 824	50, 064	61, 559	112, 172	112, 061	104, 950	89, 301
Haddock.....	141, 193	157, 765	135, 029	118, 615	133, 450	133, 878	132, 264	98, 438
Herring, sea.....	44, 053	195, 154	104, 286	154, 667	63, 202	75, 014	65, 503	68, 557
Lobster.....	11, 165	22, 559	27, 624	29, 260	29, 318	28, 530	28, 007	24, 766
Ocean perch.....	85, 142	207, 793	156, 989	141, 433	89, 268	83, 607	81, 552	71, 409
Whiting.....	40, 869	65, 464	110, 630	103, 637	87, 672	75, 377	83, 841	59, 904
<b>Middle Atlantic States:</b>								
Catch.....	1 855, 553	491, 685	871, 096	783, 848	370, 223	355, 951	167, 912	162, 062
Value.....	1 7, 651	28, 843	28, 937	21, 757	20, 897	24, 681	21, 576	23, 558
<b>New York:</b>								
Catch.....	91, 959	142, 341	132, 791	125, 932	197, 022	147, 462	64, 113	37, 509
Value.....	4, 216	15, 502	9, 498	8, 781	10, 790	12, 387	11, 349	12, 583
<b>New Jersey:</b>								
Catch.....	160, 554	188, 623	421, 286	373, 688	139, 362	160, 440	98, 273	123, 688
Value.....	2, 957	10, 200	13, 074	9, 607	9, 423	11, 385	9, 886	10, 716
<b>Delaware:</b>								
Catch.....	103, 017	160, 721	317, 019	284, 228	33, 839	48, 049	5, 526	865
Value.....	476	3, 141	6, 365	3, 369	684	909	341	259
<b>Catch, by species:</b>								
Clams.....	7, 658	21, 681	16, 671	31, 776	46, 016	52, 240	54, 895	54, 521
Menhaden.....	245, 369	372, 946	763, 827	670, 799	139, 258	151, 011	22, 016	46, 538
Oysters.....	13, 983	18, 170	9, 848	1, 154	1, 356	757	917	1, 190
Scup.....	5, 776	20, 556	20, 686	26, 638	16, 896	16, 635	8, 415	7, 307
<b>Chesapeake Bay States:</b>								
Catch.....	320, 736	380, 892	496, 208	435, 797	536, 596	591, 534	501, 689	422, 317
Value.....	7, 458	25, 007	31, 601	34, 861	35, 948	40, 189	35, 238	35, 449
<b>Maryland:</b>								
Catch.....	51, 085	67, 092	55, 249	69, 113	70, 828	86, 672	83, 309	74, 666
Value.....	2, 599	8, 888	11, 147	13, 936	11, 729	13, 220	14, 279	17, 356
<b>Virginia:</b>								
Catch.....	269, 651	313, 800	440, 959	366, 684	465, 768	504, 862	418, 380	347, 651
Value.....	4, 858	16, 119	20, 454	20, 925	24, 219	26, 969	20, 959	18, 093
<b>Catch, by species:</b>								
Alewives.....	16, 112	34, 628	26, 988	18, 989	27, 954	38, 292	29, 968	30, 444
Clams.....	1, 843	1, 701	3, 950	7, 823	10, 987	10, 878	9, 501	8, 548
Crabs.....	41, 816	80, 046	45, 128	70, 716	78, 608	86, 334	97, 016	82, 815
Menhaden.....	143, 227	170, 912	315, 359	248, 905	336, 414	359, 946	277, 895	223, 268
Oysters.....	37, 457	29, 954	39, 227	27, 111	22, 098	21, 188	21, 232	25, 798
<b>South Atlantic States:</b>								
Catch.....	325, 515	260, 881	346, 574	378, 879	335, 997	356, 652	367, 777	353, 344
Value.....	4, 064	18, 944	17, 274	20, 230	20, 619	26, 789	27, 069	25, 026
<b>North Carolina:</b>								
Catch.....	170, 581	172, 338	233, 096	265, 248	238, 579	233, 961	250, 932	225, 088
Value.....	1, 865	6, 800	7, 284	7, 020	8, 023	9, 241	9, 571	8, 328
<b>South Carolina:</b>								
Catch.....	9, 446	14, 726	22, 033	24, 252	21, 723	26, 611	23, 192	18, 868
Value.....	266	2, 810	2, 487	4, 039	3, 001	4, 928	4, 199	3, 220

<sup>1</sup> Includes Pennsylvania.

No. 997. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATES, AND CATCH OF PRINCIPAL SPECIES, BY AREAS: 1940 TO 1967—Continued

[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	1964	1965	1966	1967
<b>S.A. States—Con.</b>								
Georgia:								
Catch.....	12,672	17,351	19,025	27,968	18,338	20,059	16,024	16,382
Value.....	381	3,584	2,472	3,391	2,973	4,140	3,883	3,655
Florida (east coast):								
Catch.....	132,816	56,466	72,420	61,411	57,357	76,021	77,629	93,006
Value.....	1,533	5,750	5,031	5,780	6,622	8,480	9,416	9,823
Catch, by species:								
Crabs.....	15,291	20,275	32,606	44,927	52,274	46,432	40,830	37,546
Menhaden.....	224,882	147,125	227,811	215,023	190,146	192,275	215,114	193,778
Shrimp.....	22,702	36,481	28,539	31,214	17,341	26,191	21,475	20,598
<b>Gulf States:</b>								
Catch.....	250,018	570,641	829,638	1,265,950	1,317,834	1,463,475	1,106,168	1,180,781
Value.....	10,582	50,358	76,287	85,459	99,298	113,542	122,581	127,406
Florida (west coast):								
Catch.....	54,676	62,013	105,756	135,535	129,659	135,866	125,975	114,408
Value.....	3,452	9,955	21,190	21,048	24,165	26,866	24,084	23,118
Alabama:								
Catch.....	11,344	10,988	13,441	12,106	15,067	17,789	20,562	26,412
Value.....	562	2,122	2,265	3,003	3,976	4,986	6,807	8,300
Mississippi:								
Catch.....	54,672	93,023	188,387	314,214	331,898	368,385	269,853	262,059
Value.....	1,384	5,441	6,725	7,606	8,045	9,264	9,066	8,986
Louisiana:								
Catch.....	109,957	307,366	391,953	566,411	696,140	787,087	656,834	639,675
Value.....	4,191	21,575	22,378	25,949	33,585	36,852	38,979	37,280
Texas:								
Catch.....	19,369	97,251	130,101	237,684	145,070	154,348	129,944	138,227
Value.....	993	11,265	23,729	27,853	29,528	35,574	42,745	49,722
Catch, by species:								
Crabs.....	18,636	19,218	20,337	35,768	26,259	37,879	31,964	28,529
Menhaden.....	25,195	326,030	480,992	840,907	904,141	1,022,837	792,671	700,088
Mullet.....	30,417	23,892	27,508	32,708	36,890	33,918	30,014	29,280
Oysters.....	17,584	12,292	13,881	16,098	23,385	19,156	17,182	21,747
Shrimp.....	127,838	151,753	212,402	205,725	179,032	195,237	179,230	225,731
<b>Great Lakes:<sup>2</sup></b>								
Catch <sup>3</sup> .....	79,266	70,882	76,754	68,243	56,687	55,905	69,450	83,565
Value <sup>3</sup> .....	5,623	10,846	9,699	7,133	5,572	5,832	5,874	6,050
Superior:								
Catch.....	20,672	12,584	13,581	13,771	9,642	8,748	8,258	7,895
Value.....	904	1,977	1,886	1,301	849	1,063	1,095	1,133
Michigan:								
Catch.....	22,601	27,078	30,036	24,311	26,201	26,994	42,764	58,951
Value.....	2,050	3,661	3,221	2,447	2,601	2,426	2,816	2,963
Huron:								
Catch.....	9,012	5,073	4,553	6,338	4,094	4,673	3,769	3,211
Value.....	680	411	484	1,249	678	776	549	476
Erie:								
Catch.....	22,944	23,982	26,796	21,258	13,354	13,524	12,698	11,615
Value.....	1,772	4,672	3,954	1,920	1,252	1,414	1,179	1,326
<b>Pacific Coast States:</b>								
Catch.....	2,019,969	1,997,542	1,115,427	1,060,825	1,151,612	1,146,725	1,253,637	1,134,785
Value.....	40,190	139,199	106,532	112,118	129,337	148,363	168,126	140,377
Washington:								
Catch.....	111,632	118,694	155,305	113,115	100,924	127,357	136,218	174,770
Value.....	6,676	19,071	20,906	15,551	15,632	18,477	20,659	24,919
Oregon:								
Catch.....	54,203	58,256	46,710	49,160	57,296	69,145	74,804	91,632
Value.....	2,742	7,151	5,683	6,055	7,030	8,816	11,167	16,284
California:								
Catch.....	1,290,446	1,338,299	598,089	540,837	500,868	458,028	460,945	506,988
Value.....	20,160	81,605	53,175	49,578	50,659	50,743	55,582	51,384
Alaska:								
Catch.....	563,688	482,293	315,323	357,713	492,614	492,195	581,670	361,345
Value.....	10,612	31,372	26,768	40,934	56,016	70,327	80,718	47,790

<sup>2</sup> Collected largely by State fishery agencies, and compiled by Fish and Wildlife Service.

<sup>3</sup> Includes, in addition to lakes shown, small amounts for Lake Ontario, Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

No. 997. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATES, AND CATCH OF PRINCIPAL SPECIES, BY AREAS: 1940 TO 1967—Continued

[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	1964	1965	1966	1967
<b>Pacific Coast States—Con.</b>								
Catch, by species:								
Crabs.....	16,132	23,810	20,004	64,847	110,042	160,913	199,251	170,595
Flounder.....	20,415	49,799	46,912	47,683	47,395	46,463	46,830	46,159
Halibut.....	23,733	12,455	22,410	50,932	35,047	40,497	40,326	39,778
Herring.....	1,060	1,864	2,413	83,820	52,246	34,543	24,107	18,299
Mackerel.....	120,504	32,650	23,310	36,810	26,828	7,050	4,630	1,167
Pilchard or sardine.....	913,943	619,498	145,608	57,533	13,138	1,924	878	149
Salmon.....	500,561	328,644	289,880	235,447	352,246	326,806	387,512	216,604
Shrimp.....	1,302	3,954	4,825	12,418	14,497	20,091	34,438	54,462
Tuna.....	204,882	389,891	269,362	287,765	286,311	296,485	255,851	314,750
<b>Mississippi River and tributaries:</b>								
Catch.....	(NA)	105,796	103,166	85,605	77,131	84,755	111,872	80,571
Value.....	(NA)	10,104	8,205	7,829	7,383	7,844	10,514	8,380
<b>Hawaii:</b>								
Catch.....	(NA)	15,917	15,096	11,118	12,685	19,588	13,014	11,842
Value.....	(NA)	3,508	3,113	2,704	2,848	3,602	3,128	3,077
Tuna catch.....	(NA)	11,918	11,958	9,020	10,407	17,450	10,697	9,268

NA. Not available.

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

No. 998. CATCH LANDED AT CERTAIN LEADING PORTS: 1967 AND 1968

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

PORT	1967		1968 (prel.)		Important species
	Catch	Value	Catch	Value	
Beaufort-Morehead City, N.C.	151,400	3,900	141,000	3,500	Menhaden, shrimp.
Boston, Mass.	77,800	9,400	59,600	7,800	Haddock, cod.
Cameron, La.	182,600	4,800	247,000	6,500	Menhaden, shrimp.
Empire, La.	106,300	4,000	(NA)	(NA)	Menhaden, shrimp.
Gloucester, Mass.	83,000	5,200	97,700	5,700	Whiting, ocean perch, haddock.
Houma-Dulac, La.	116,100	7,100	144,000	7,500	Menhaden, shrimp.
Kodiak, Alaska	111,000	10,000	120,000	17,000	King crab, salmon, halibut.
New Bedford, Mass.	115,600	15,700	125,900	13,900	Flounder, haddock, sea scallops.
Pascagoula-Moss Point, Miss.	213,500	5,200	190,000	5,500	Menhaden and other industrial fish.
Point Judith, R.I.	57,600	1,600	56,200	1,600	Industrial fish.
Portland, Maine	47,800	2,000	48,700	2,500	Ocean perch, sea herring, lobster.
Reedville, Va.	143,500	(NA)	210,000	2,900	Menhaden.
Rockland, Maine	44,100	1,800	44,500	1,800	Ocean perch, sea herring, lobster.
San Diego, Calif.	62,200	8,000	60,900	9,100	Tuna.
San Pedro, Calif.	310,500	28,600	261,800	29,100	Tuna, anchovies, mackerel.

NA. Not available.

No. 999. FISHERIES—DISPOSITION OF DOMESTIC CATCH: 1950 TO 1968

[Round weight of catch in millions of pounds. Prior to 1960, excludes Hawaii. In addition to whole fish, a large portion of waste derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil. From 400 to 500 million pounds of waste were used in meal and oil production in each year shown. See also *Historical Statistics, Colonial Times to 1957*, series L 155-161]

DISPOSITION	1950	1955	1960	1963	1964	1965	1966	1967	1968 (prel.)
<b>Total</b> .....	<b>4,384</b>	<b>4,794</b>	<b>4,942</b>	<b>4,847</b>	<b>4,541</b>	<b>4,777</b>	<b>4,366</b>	<b>4,055</b>	<b>4,116</b>
Fresh and frozen.....	1,692	1,588	1,631	1,657	1,643	1,751	1,724	1,575	1,503
Canned.....	1,720	1,039	1,043	1,073	1,033	1,042	1,006	1,001	970
Cured.....	100	86	82	78	71	76	77	77	76
Reduced to meal, oil, etc.	1,372	2,101	2,186	2,039	1,794	1,908	1,557	1,402	1,567

Source of tables 998 and 999: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fisheries of the United States*.

# Fishery Products

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## No. 1000. PER CAPITA CONSUMPTION OF COMMERCIALY CAUGHT FISH AND SHELL-FISH: 1940 TO 1968

[Pounds of edible meat]

ITEM	1940	1950	1955	1960	1964	1965	1966	1967	1968 (prel.)
<b>Total</b> .....	<b>11.0</b>	<b>11.8</b>	<b>10.5</b>	<b>10.3</b>	<b>10.5</b>	<b>10.9</b>	<b>10.6</b>	<b>10.8</b>	<b>11.0</b>
Fresh and frozen.....	5.7	6.3	5.9	5.7	5.9	6.0	5.9	6.0	6.2
Canned.....	4.6	4.9	3.9	4.0	4.1	4.4	4.2	4.3	4.3
Cured.....	0.7	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.5

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

## No. 1001. CANNED FISHERY PRODUCTS—PRODUCTION AND VALUE, BY SPECIES: 1950 TO 1968

[Production in thousands of pounds; value in thousands of dollars. 1950 excludes Hawaii, Puerto Rico, and American Samoa. See also *Historical Statistics, Colonial Times to 1957*, series L 176-195]

YEAR	Total	Salmon	SARDINES		Tuna	Mack- erel	Shrimp	Clam prod- ucts	Oysters	Other
			Maine <sup>1</sup>	Calif.						
<b>PRODUCTION</b>										
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
1960.....	1,083,556	136,049	46,744	27,714	301,388	42,064	14,268	45,256	5,747	464,326
1965.....	1,121,629	174,413	29,646	374	358,405	31,655	15,620	67,592	4,033	439,882
1966.....	1,187,610	209,161	31,182	116	394,268	18,575	14,201	69,795	2,800	447,512
1967.....	1,198,302	99,473	29,260	( <sup>2</sup> )	388,845	12,733	16,851	65,741	4,623	580,866
1968 (prel.)...	1,283,898	162,738	39,738	( <sup>2</sup> )	397,062	22,294	19,581	61,417	4,522	576,546
<b>VALUE</b>										
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
1960.....	387,595	88,197	16,700	4,659	172,679	5,804	17,233	13,676	5,640	63,007
1965.....	495,231	122,744	10,868	71	232,976	4,997	20,655	18,097	3,701	81,122
1966.....	563,708	136,075	12,262	25	270,239	3,346	21,973	21,125	3,201	95,462
1967.....	525,563	76,121	13,862	( <sup>2</sup> )	261,527	2,363	24,332	21,726	6,152	119,480
1968 (prel.)...	580,637	117,199	19,294	( <sup>2</sup> )	267,167	4,098	27,379	20,433	5,571	119,496

<sup>1</sup> Also known as Atlantic sea herring.    <sup>2</sup> "California sardines" included in "Other."

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

## No. 1002. INDUSTRIAL FISHERY PRODUCTS—PRODUCTION AND VALUE: 1950 TO 1968

[Excludes Hawaii except, beginning 1955, meal includes Hawaii, Puerto Rico, and American Samoa. See also *Historical Statistics, Colonial Times to 1957*, series L 177 and L 196-201]

PRODUCT	1950	1955	1960	1964	1965	1966	1967	1968 (prel.)
Scrap and meal:								
Production..... tons..	239,713	264,502	290,137	235,252	254,051	224,153	211,189	234,732
Value..... \$1,000..	29,226	34,749	25,282	28,039	35,707	32,316	26,038	30,122
Oil, except vitamin:								
Production..... 1,000 gal..	21,432	24,679	27,853	23,248	25,218	21,257	15,793	22,342
Value..... \$1,000..	14,042	14,280	13,037	13,273	14,852	12,321	6,112	7,285
Vitamin oil, value..... \$1,000..	3,431	589	350	24				

<sup>1</sup> Includes a small amount of vitamin oil.

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

## No. 1003. FRESH AND FROZEN FISH AND FROZEN FISHERY PRODUCTS: 1940 TO 1968

[Excludes Alaska and Hawaii, except frozen fishery products includes Alaska. 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
	Total	Cod	Flounder	Haddock	Ocean perch, Atlantic	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	47,821	3,703	34,762	314,684
1960.....	153,166	9,483	28,378	33,324	43,551	2,951	35,479	328,741
1965.....	168,832	9,975	49,536	40,154	22,696	2,286	44,135	366,781
1966.....	166,890	10,284	49,542	40,110	21,664	2,438	42,852	358,639
1967.....	152,995	14,006	45,237	34,099	19,477	1,818	38,338	324,281
1968 (prel.).....	134,775	13,868	43,542	22,275	15,617	1,990	37,483	368,427
VALUE (\$1,000)								
1940.....	14,345	1,793	1,542	4,521	2,272	561	3,656	(NA)
1950.....	53,482	3,101	9,016	14,275	15,126	399	10,665	
1955.....	44,865	2,785	8,769	9,848	10,896	591	11,976	
1960.....	48,437	2,851	11,204	10,839	10,177	571	12,795	
1965.....	66,314	3,530	20,267	16,286	6,156	509	19,566	
1966.....	69,536	3,907	22,754	16,966	5,743	617	19,549	
1967.....	64,336	5,409	20,731	15,376	5,172	452	17,196	
1968 (prel.).....	60,030	5,307	20,552	11,154	3,978	437	18,602	

NA Not available.

## No. 1004. PROCESSED FISHERY PRODUCTS—SUMMARY: 1960, 1965, AND 1968

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

PRODUCT	1960		1965		1968 (prel.)	
	Production	Value (\$1,000)	Production	Value (\$1,000)	Production	Value (\$1,000)
Total.....	(X)	812,847	(X)	1,117,958	(X)	(NA)
<b>Packaged products, fresh and frozen</b> .....	584,220	315,812	834,392	485,731	(NA)	(NA)
<b>Fish:</b>						
Not breaded:						
Fillets and steaks, raw.....	153,166	48,437	168,832	66,314	134,775	60,031
Dressed.....	(NA)	(NA)	36,222	4,685	(NA)	(NA)
Other <sup>1</sup> .....	6,166	1,262	5,593	1,238	4,823	1,509
Breaded, raw and cooked:						
Sticks.....	65,142	28,671	82,483	35,778	91,556	41,403
Fillets, portions, and steaks.....	51,924	18,965	150,671	60,958	175,676	65,996
Shellfish:						
Not breaded.....	191,749	138,022	243,984	202,217	(NA)	(NA)
Breaded, raw and cooked.....	84,221	57,412	111,105	88,434	(NA)	(NA)
Specialties, fish and shellfish.....	31,852	23,043	35,502	26,107	(NA)	(NA)
<b>Canned products</b> .....	1,083,556	387,595	1,121,629	495,231	1,283,898	580,637
Fish and shellfish for human consumption.....	661,066	342,747	749,518	446,833	778,250	493,084
Salmon eggs for bait.....	718	869	756	1,550	674	2,117
Animal food.....	421,772	43,979	371,355	46,848	504,974	85,437
<b>Cured fish</b> .....	68,319	42,845	74,448	54,166	(NA)	(NA)
Salted (includes spiced and pickled) <sup>2</sup> .....	35,950	14,388	42,152	17,733	(NA)	(NA)
Smoked.....	31,512	27,557	31,573	33,896	(NA)	(NA)
Sun dried (includes freeze dried).....	857	900	723	2,537	(NA)	(NA)
<b>Industrial products</b> .....	(X)	<sup>3</sup> 66,595	(X)	<sup>3</sup> 82,830	(X)	69,938
Meal and scrap.....1,000 tons.....	290	25,282	254	35,707	235	30,122
Oil (body and liver).....1,000 gallons.....	27,886	13,386	25,218	14,852	22,342	7,285
Fish solubles.....1,000 tons.....	<sup>4</sup> 99	<sup>4</sup> 4,021	95	5,939	72	3,707
Oyster shell grit and lime.....1,000 tons.....	471	6,821	350	4,559	240	3,572
Shell buttons:						
Marine shell.....1,000 gross.....	1,426	2,676	409	1,017	453	1,078
Fresh water mussel.....1,000 gross.....	523	577	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Other.....	(X)	13,832	(X)	20,756	(X)	24,174

NA Not available. X Not applicable.

<sup>1</sup> Includes unbreaded portions and whale meat for animal feeding.<sup>2</sup> Includes lutefisk from dried cod. <sup>3</sup> Includes other species, principally tuna.<sup>4</sup> Includes homogenized condensed fish. <sup>5</sup> Fresh water mussel included with marine shell.Source of tables 1003 and 1004: Dept. of the Interior, Fish and Wildlife Service; annual report, *Fishery Statistics of the United States*.

No. 1005. FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1940 TO 1968

[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	195,296	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	64,165	61,454	25,622	18,543
1964	564,243	1,318,099	433,674	130,569	64,204	94,835	42,878	21,326
1965	600,904	1,398,778	479,412	121,492	69,483	96,444	49,308	20,175
1966	720,447	1,593,359	568,216	152,231	84,813	109,604	62,882	21,931
1967	707,883	1,470,437	538,301	160,682	82,209	107,940	67,524	14,685
1968 (prel.)	822,669	1,741,365	643,165	179,604	67,757	9,808	56,845	10,912

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. 1006. SELECTED FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1960 TO 1968

[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	1960		1965		1967		1968 (prel.)	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>IMPORTS</b>								
Edible:								
Fresh or frozen:								
Whitefish (exc. filets)	14,483	5,520	13,382	5,278	10,037	4,525	10,335	4,794
Halibut (exc. filets)	24,124	5,832	21,726	7,508	15,567	4,837	18,082	5,627
Salmon (exc. filets)	13,472	6,340	7,861	5,154	8,815	6,502	9,311	7,062
Sea herring	74,682	1,728	117,993	2,222	132,852	2,132	200,988	3,085
Smelt	8,437	1,402	8,800	1,308	7,763	1,286	9,096	1,567
Swordfish (exc. filets)	7,256	2,994	7,193	3,784	7,392	4,003	7,298	4,678
Tuna	234,648	29,595	339,221	48,501	357,760	66,479	392,182	72,892
Groundfish filets	165,560	33,265	294,954	73,934	283,567	69,812	390,236	92,375
Other filets and steaks	61,713	20,955	74,724	30,078	84,862	32,231	109,163	44,060
Lobster and spiny lobster	53,749	44,767	56,411	68,701	50,908	71,519	59,815	99,036
Shrimp and prawn	113,418	56,406	160,287	111,277	183,512	148,451	184,798	158,228
Canned:								
Anchovies, in oil	5,160	2,173	4,543	3,617	4,081	3,378	4,912	4,350
Salmon	19,113	7,541	101	80	121	106	4,955	2,820
Sardines, in oil	21,236	8,330	21,532	10,241	25,494	11,850	28,436	13,178
Sardines and herring, not in oil	16,732	3,467	31,435	6,383	36,328	7,935	41,264	9,209
Tuna, in oil	596	221	211	121	186	105	150	104
Tuna, not in oil	51,159	18,921	50,750	20,307	65,135	30,093	67,023	31,577
Bonito and yellowtail:								
In oil	7,109	1,699	2,044	600	558	192	547	218
Not in oil	2,795	699	1,888	443	1,075	288	346	103
Crab meat	4,507	5,514	4,166	4,935	2,177	2,708	4,720	5,373
Lobster, common and spiny	2,930	5,239	2,980	7,336	2,864	7,295	2,664	6,587
Pickled or salted:								
Cod, haddock, hake, pollock, and cusk	47,355	9,435	8,610	2,838	7,733	3,059	8,582	3,263
Herring	29,284	3,924	26,742	3,756	24,077	3,624	21,085	3,068
Nonedible (scrap and meal)	264,000	11,063	542,000	30,720	1,302,000	72,992	1,710,000	82,517
<b>EXPORTS</b>								
Canned:								
Salmon	11,924	9,830	24,892	15,916	20,543	15,593	5,726	4,604
Mackerel	1,305	211	2,174	401	538	116	305	66
Sardines, in oil	284	65						
Sardines, not in oil	20,955	3,443	3,376	990	1,373	488	3,033	1,314
Fish oil, nonedible	143,659	10,688	103,807	9,208	76,816	4,674	65,129	2,700

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.

No. 1007. SUPPLY OF FISHERY PRODUCTS: 1955 TO 1968

[Round weight, in millions of pounds, except as indicated]

ITEM	1955	1960	1964	1965	1966	1967	1968
<b>Total</b> .....	<b>7, 121</b>	<b>8, 223</b>	<b>12, 031</b>	<b>10, 534</b>	<b>12, 467</b>	<b>13, 991</b>	<b>17, 277</b>
For human food.....	3, 911	4, 264	4, 873	5, 162	5, 431	4, 840	5, 473
For industrial use.....	3, 210	3, 959	7, 158	5, 372	7, 036	9, 142	11, 804
<b>Domestic catch</b> .....	<b>4, 809</b>	<b>4, 942</b>	<b>4, 541</b>	<b>4, 776</b>	<b>4, 364</b>	<b>4, 055</b>	<b>4, 116</b>
Percent of total.....	67.5	60.1	37.7	45.3	35.0	29.0	23.8
For human food.....	2, 579	2, 498	2, 497	2, 686	2, 572	2, 368	2, 296
For industrial use <sup>1</sup> .....	2, 230	2, 444	2, 044	2, 190	1, 792	1, 687	1, 820
<b>Imports</b> <sup>2</sup> .....	<b>2, 312</b>	<b>3, 281</b>	<b>7, 490</b>	<b>5, 758</b>	<b>8, 103</b>	<b>9, 936</b>	<b>13, 161</b>
Percent of total <sup>2</sup> .....	32.5	39.9	62.3	54.7	65.0	71.0	76.2
For human food <sup>2</sup> .....	1, 332	1, 766	2, 376	2, 676	2, 859	2, 451	3, 177
For industrial use <sup>1</sup> .....	980	1, 515	5, 114	3, 182	5, 244	7, 485	9, 984

<sup>1</sup> Univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) are reported in the weights of meats, excluding the shell.

<sup>2</sup> Excludes imports of cured cod into Puerto Rico; includes landings of foreign caught tuna in American Samoa.

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

No. 1008. POLLUTION-CAUSED FISH KILL, BY SOURCE OF POLLUTION AND TYPE OF WATER: 1965 TO 1968

[Fish in thousands. Estimates based on reports from State agencies responsible for fisheries management]

ITEM	1965	1966	1967	1968	ITEM	1965	1966	1967	1968
Number of reports.....	446	372	303	379	Source of pollution—				
<b>Fish reported killed</b> .....	<b>11,393</b>	<b>8,743</b>	<b>11,119</b>	<b>14,826</b>	Continued				
Source of pollution:					Municipal operations.....	5, 912	1, 347	644	6, 792
Agricultural operations.....	1, 390	1, 260	1, 607	375	Refuse disposal.....	17	—	—	4
Insecticides, poisons, etc.....	771	217	329	325	Sewerage systems.....	5, 211	1, 284	627	6, 182
Fertilizers.....	3	1	10	15	Water systems.....	604	7	12	336
Manure-silage drainage.....	617	1, 041	1, 268	35	Other.....	79	56	5	1 270
Industrial operations.....	3, 764	4, 623	8, 087	6, 256	Transportation operations.....	307	103	143	825
Chemicals.....	219	709	44	732	Pipeline.....	197	24	23	533
Food and kindred products.....	537	1, 793	6, 664	450	Truck.....	106	66	27	6
Mining.....	295	1, 443	1, 113	83	Other.....	3	13	93	286
Paper and allied products.....	495	13	7	203	Other operations.....	21	1, 411	638	578
Petroleum.....	1, 516	154	53	4, 273	Type of water:				
Combinations.....	492	95	8	3	Fresh.....	11, 256	8, 699	11, 086	9, 870
Other.....	211	416	198	512	Salt.....	102	19	30	2
					Estuary.....	36	25	3	4, 954
					Average duration of kill.....	2.6	2.7	3.3	3.0

- Represents zero. <sup>1</sup> Includes 268,325 killed by power operations.

No. 1009. POLLUTION-CAUSED FISH KILL, BY SOURCE OF POLLUTION: 1968

[Based on reports from State agencies responsible for fisheries management]

SOURCE OF POLLUTION	REPORTS				ESTIMATED KILL (1,000) <sup>2</sup>			
	Total	Giving number of fish killed			Total	Game	Non-game	Of commercial value
		Number	Fish (1,000)	Average kill <sup>1</sup>				
<b>Total</b> .....	<b>438</b>	<b>379</b>	<b>14, 826</b>	<b>6, 015</b>	<b>15, 236</b>	<b>1, 336</b>	<b>13, 900</b>	<b>10, 003</b>
Agricultural operations.....	77	66	375	4, 240	422	152	270	277
Industrial operations.....	177	152	6, 256	5, 675	6, 398	415	5, 983	2, 340
Municipal operations.....	122	108	6, 792	7, 585	6, 952	320	6, 632	6, 558
Transportation operations.....	39	33	825	9, 155	880	430	450	244
Other operations.....	23	20	578	1, 995	584	19	565	575

<sup>1</sup> Averages derived after exclusion of 31 reports of 100,000 or more.

<sup>2</sup> All fish killed as reported plus average for each source applied to reports which gave no number.

Source of tables 1008 and 1009: Dept. of the Interior, Federal Water Pollution Control Administration; annual report, *Pollution-Caused Fish Kills*.

## Section 26

### 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, Department of the Interior. It consists of volume I-II, *Metals, Minerals, and Fuels*; volume III, *Area Reports—Domestic*; and volume IV, *Area Reports—International*. Other government sources are the Census of Mineral Industries, conducted every 5 years 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. Non-government sources include the *Engineering and Mining Journal*, issued monthly by the McGraw-Hill Publishing Co., New York, and *The Iron Age*, issued weekly by the Chilton Co., Philadelphia.

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 quantity and value of minerals produced, sold or used by producers, or shipped; quantity 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.

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, 1963, and 1967. The 1963 census is the most recent for which complete data are available. The censuses 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.

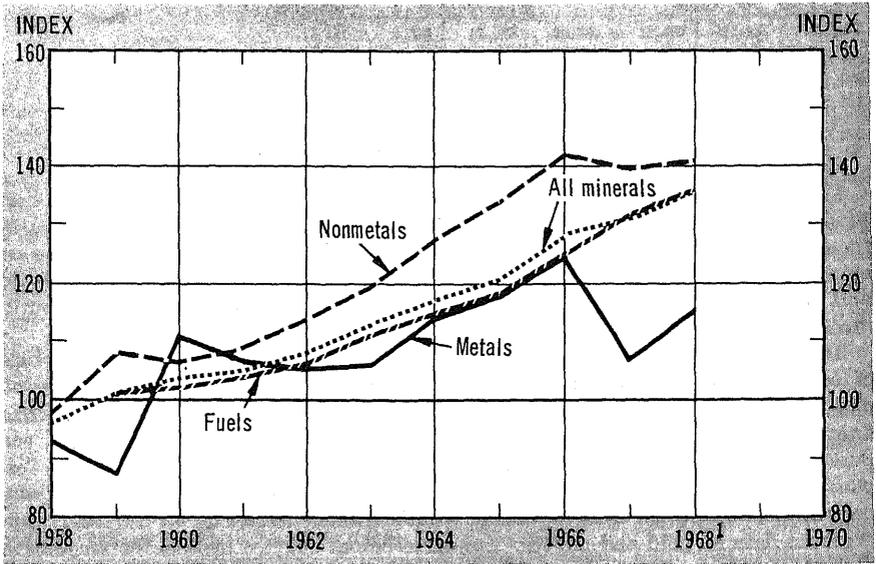
Data on mining and mineral products may also be found in other sections of this *Abstract*. For example, data on iron and steel, aluminum and magnesium, copper products, clay products, and other manufactured mineral products appear in section 28, Manufactures; and summary data for outlying areas of the United States appear in section 31.

In general, figures shown in the individual commodity tables include data for outlying areas, and may therefore not agree with summary table 1014. 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 United States 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.

FIG. XLI. INDEXES OF THE PHYSICAL VOLUME OF MINERAL PRODUCTION: 1958 TO 1968

[1957-59=100. See table 1011]

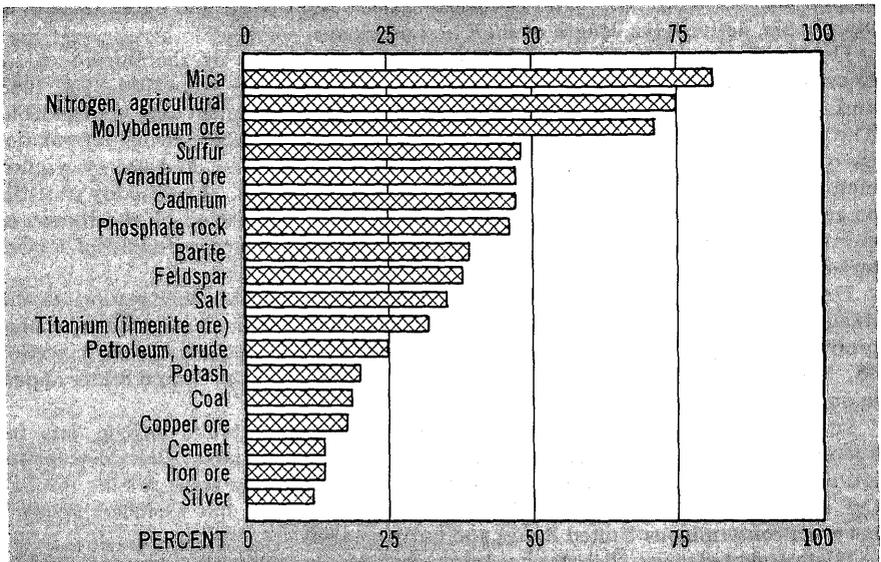


<sup>†</sup> Preliminary.

Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of the Interior, Bureau of Mines.

FIG. XLII. U.S. MINERAL PRODUCTION AS PERCENT OF WORLD TOTAL: 1967

[See table 1015]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of the Interior, Bureau of Mines.

# Mineral Production

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## No. 1010. VALUE OF MINERAL PRODUCTION: 1931 TO 1968

[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	Metals	Non-metals	Fuels <sup>1</sup>	YEAR				
					Total	Metals	Non-metals	Fuels <sup>1</sup>	
1931-1935.....	2,463	252	520	1,691	1960.....	18,032	2,022	3,868	12,142
1936-1940.....	3,879	623	711	2,545	1962.....	18,838	1,937	4,117	12,784
1941-1945.....	5,840	910	937	3,993	1963.....	19,635	2,002	4,316	13,317
					1964.....	20,612	2,366	4,623	13,623
1946-1950.....	10,277	1,097	1,503	7,673	1965.....	21,524	2,544	4,933	14,047
1951-1955.....	14,285	1,734	2,480	10,070	1966.....	22,991	2,703	5,176	15,112
1956-1960.....	17,557	1,936	3,595	12,026	1967.....	23,730	2,833	5,205	16,198
1961-1965.....	19,793	2,155	4,387	13,226	1968 (prel.).....	24,978	2,690	5,404	16,884

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

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

## No. 1011. BUREAU OF MINES INDEX AND CONSTANT DOLLAR VALUE OF MINERAL PRODUCTION: 1955 TO 1968

[Value in millions of dollars. Includes Puerto Rico and outlying areas of United States. 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 (1957-59=100)				VALUE OF MINERAL PRODUCTION IN CONSTANT (1957-59) DOLLARS <sup>1</sup>			
	All minerals	Metals	Non-metals	Fuels	All minerals	Metals	Non-metals	Fuels
1955.....	98.4	116.5	91.3	98.1	16,993	1,991	3,259	11,743
1956.....	103.7	117.3	97.0	103.8	18,052	2,057	3,464	12,531
1957-1959.....	103.3	120.0	95.4	103.5	18,026	2,122	3,408	12,496
1958.....	96.0	92.8	97.5	96.0	16,819	1,642	3,483	11,694
1959.....	100.7	87.2	107.1	100.5	17,506	1,539	3,823	12,144
1960.....	103.3	110.8	105.8	101.6	18,004	1,953	3,774	12,277
1961.....	104.5	106.4	108.3	103.1	18,209	1,875	3,865	12,469
1962.....	107.4	105.0	113.3	106.0	18,717	1,850	4,044	12,823
1963.....	112.2	105.7	119.4	110.8	19,668	1,978	4,266	13,424
1964.....	116.7	113.9	126.9	114.0	20,466	2,098	4,537	13,831
1965.....	120.7	117.3	133.5	117.3	21,200	2,132	4,836	14,232
1966.....	127.8	124.2	141.7	124.1	22,312	2,253	4,972	15,082
1967.....	130.5	106.1	139.1	131.1	22,709	1,944	4,962	15,803
1968 (prel.).....	135.7	114.7	140.9	135.8	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Values deflated by the index of implicit unit value.

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

## No. 1012. FEDERAL RESERVE BOARD PRODUCTION INDEXES—MINING AND METALS: 1950 TO 1968

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

ITEM	1950	1955	1960	1964	1965	1966	1967	1968 (prel.)
<b>Mining</b> .....	83	99	102	112	115	121	124	126
Coal, oil, and gas.....	85	100	100	110	113	118	123	125
Coal.....	126	110	94	109	113	117	120	118
Crude oil.....	77	98	101	110	112	119	126	131
Gas and gas liquids.....	61	88	113	136	143	152	164	173
Metal, stone, and earth minerals.....	75	96	111	118	126	134	129	133
Metal mining.....	91	104	112	117	124	133	120	126
Stone and earth minerals.....	65	91	110	119	127	134	135	138
<b>Metals:</b>								
Primary metals.....	100	118	101	129	138	143	133	137
Iron and steel.....	103	121	101	127	134	136	127	131
Nonferrous metals and products.....	86	108	103	138	152	166	153	160

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

No. 1013. MINERAL PRODUCTION—VALUE, 1960 TO 1967, AND RANK AND PRINCIPAL MINERALS IN ORDER OF VALUE, 1967, BY STATES

[In millions of dollars]

STATE	1960	1965	1966	1967		
				Value	Rank	Principal minerals in order of value
U.S.-----	18,032	21,524	22,991	23,736	(X)	Petroleum, natural gas, coal, stone.
N.E.-----	91	113	113	116	(X)	
Maine.....	14	18	17	15	47	Cement, sand and gravel, stone, peat.
N.H.....	5	8	7	8	48	Sand and gravel, stone, clays, feldspar.
Vt.....	23	27	26	27	44	Stone, asbestos, sand and gravel, talc.
Mass.....	28	36	38	41	43	Sand and gravel, stone, lime, clays.
R.I.....	6	3	4	4	49	Sand and gravel, stone.
Conn.....	15	21	21	21	45	Stone, sand and gravel, feldspar, lime.
M.A.-----	1,155	1,284	1,280	1,270	(X)	
N.Y.....	261	290	301	299	19	Cement, stone, sand and gravel, salt.
N.J.....	56	80	76	73	38	Sand and gravel, stone, zinc, magnesium compounds.
Pa.....	838	914	903	898	6	Coal, cement, stone, sand and gravel.
E.N.C.-----	1,724	1,915	2,014	2,071	(X)	
Ohio.....	406	464	488	499	14	Coal, stone, sand and gravel, cement.
Ind.....	211	219	230	245	22	Coal, cement, stone, petroleum.
Ill.....	500	593	618	637	8	Coal, petroleum, stone, sand and gravel.
Mich.....	438	566	602	610	9	Iron ore, cement, sand and gravel, bromine.
Wis.....	79	73	76	80	35	Sand and gravel, stone, cement, zinc.
W.N.C.-----	1,494	1,629	1,699	1,669	(X)	
Minn.....	516	508	550	523	13	Iron ore, sand and gravel, stone, cement.
Iowa.....	99	113	119	113	30	Cement, stone, sand and gravel, gypsum.
Mo.....	162	226	228	237	23	Stone, cement, lead, iron ore.
N. Dak.....	78	94	102	98	32	Petroleum, sand and gravel, coal, natural gas.
S. Dak.....	48	51	53	53	41	Gold, sand and gravel, stone, cement.
Nebr.....	104	84	79	71	39	Petroleum, cement, sand and gravel, stone.
Kans.....	487	553	568	574	10	Petroleum, natural gas, natural gas liquids, helium.
S.A.-----	1,339	1,693	1,804	1,885	(X)	
Del.....	1	2	2	2	50	Sand and gravel, stone, clays, gem stones.
Md.....	58	78	74	73	37	Stone, cement, sand and gravel, coal.
Va.....	209	268	274	284	20	Coal, stone, cement, sand and gravel.
W. Va.....	723	860	892	938	5	Coal, natural gas, natural gas liquids, stone.
N.C.....	45	60	72	77	36	Stone, sand and gravel, cement, phosphate rock.
S.C.....	31	41	46	48	42	Cement, stone, clays, sand and gravel.
Ga.....	92	135	149	153	28	Clays, stone, cement, sand and gravel.
Fla.....	180	249	295	310	18	Phosphate rock, stone, cement, clays.
E.S.C.-----	982	1,105	1,142	1,194	(X)	
Ky.....	415	466	498	536	11	Coal, petroleum, stone, natural gas.
Penn.....	146	183	183	190	25	Stone, zinc, cement, coal.
Ala.....	222	246	250	251	21	Coal, cement, petroleum, stone.
Miss.....	199	210	211	217	24	Petroleum, natural gas, sand and gravel, clays.
W.S.C.-----	7,060	8,795	9,639	10,579	(X)	
Ark.....	160	179	190	179	27	Petroleum, stone, bauxite, cement.
La.....	1,991	2,988	3,430	3,962	2	Petroleum, natural gas, natural gas liquids, sulfur.
Okla.....	783	909	997	1,032	4	Petroleum, natural gas, natural gas liquids, cement.
Tex.....	4,126	4,719	5,022	5,406	1	Petroleum, natural gas, natural gas liquids, cement.
Mt.-----	2,606	3,117	3,286	2,956	(X)	
Mont.....	179	228	245	187	26	Petroleum, copper, sand and gravel, phosphate rock.
Idaho.....	58	105	115	109	31	Silver, phosphate rock, lead, zinc.
Wyo.....	439	515	524	531	12	Petroleum, uranium, natural gas, sodium salts.
Colo.....	345	340	362	346	17	Petroleum, molybdenum, coal, sand and gravel.
N. Mex.....	654	807	856	874	7	Petroleum, natural gas, potassium salts, uranium.
Ariz.....	417	583	622	464	15	Copper, sand and gravel, molybdenum, cement.
Utah.....	433	439	449	354	16	Copper, petroleum, coal, molybdenum.
Nev.....	81	100	113	91	33	Copper, gold, sand and gravel, diatomite.
Pac.-----	1,581	1,873	2,010	1,996	(X)	
Wash.....	72	88	89	82	34	Sand and gravel, cement, stone, zinc.
Oreg.....	56	83	107	67	40	Sand and gravel, stone, cement, nickel.
Calif.....	1,422	1,597	1,710	1,696	3	Petroleum, natural gas, sand and gravel, cement.
Alaska.....	22	84	83	134	29	Petroleum, sand and gravel, coal, natural gas.
Hawaii.....	9	21	21	17	46	Cement, stone, sand and gravel, pumice.

X Not applicable.

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

# Mineral Production

## No. 1014. MINERAL PRODUCTION, 1960 TO 1967, AND PRINCIPAL PRODUCING STATES, 1967

[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 18-37, for selected values]

MINERAL	1960			1965			1966			1967		
	Quantity	Value		Quantity	Value		Quantity	Value		Quantity	Value	Principal producing States in order of quantity
	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
<b>Total mineral production.</b>												
<b>Mineral fuels</b>												
Asphalt and related bitumens (native).....												
limestone and sandstone and gilsonite, short tons.....	1,625,911	13,090	9,461	2,041,271	8,438	2,041,271	8,438	1,866,666	8,126	1,866,666	8,126	Tex., Utah, Ala., Ky., N. Mex., Colo., Calif., Utah.
Carbon dioxide, natural (estimate).....	521,169	99	152	1,173,676	152	1,140,907	153	1,142,374	165	1,142,374	165	
<b>Coal:</b>												
Bituminous and lignite 1.....	415,512	1,950,425	2,276,022	533,881	2,421,293	533,881	2,421,293	552,628	2,555,377	552,628	2,555,377	W. Va., Pa., Ky., Ill.
Pennsylvania anthracite.....	18,817	147,116	14,866	12,941	100,663	12,941	100,663	12,956	96,160	12,956	96,160	Pa.,
Other.....	475,179	7,768	4,385,834	68,728	4,606,100	68,728	4,606,100	4,712,300	72,457	4,712,300	72,457	Kans., Tex., Okla., N. Mex.
Natural gas.....	12,771,038	1,789,970	16,039,753	2,494,542	17,232,134	2,494,542	17,232,134	18,171,325	2,898,741	18,171,325	2,898,741	Tex., La., Okla., N. Mex.
<b>Natural-gas liquids:</b>												
Natural gasoline and cycle products.....	5,842,507	416,819	494,354	7,591,658	524,167	7,591,658	524,167	7,919,831	549,429	7,919,831	549,429	Tex., La., Okla., N. Mex.
LP-gases.....	8,444,074	391,566	417,249	12,134,294	527,223	12,134,294	527,223	13,717,861	632,994	13,717,861	632,994	Mich., Ill., N. J., Ind.
Peat.....	470,889	5,138	6,080	605,858	6,501	605,858	6,501	619,687	6,768	619,687	6,768	Tex., La., Calif., Okla.
Petroleum (crude).....	2,574,933	7,420,181	8,158,239	3,028,084	8,727,387	3,028,084	8,727,387	3,216,715	9,377,516	3,216,715	9,377,516	
<b>Nonmetallic minerals (except fuels)</b>												
Abrasive stone 1.....	(X)	3,868,000	4,833,000	(X)	4,833,000	(X)	5,176,000	(X)	5,205,000	(X)	5,205,000	(X)
Asbestos.....	2,539	240	432	3,603	306	3,603	515	2,701	574	2,701	574	(NA)
Barite.....	45,223	4,231	10,162	118,275	10,162	125,928	11,056	123,189	11,604	123,189	11,604	Calif., Vt., Ariz., N. C.
Boron minerals.....	714	8,574	10,192	852	10,192	947	11,259	962	11,022	962	11,022	Mo., Ark., Nev., Ga.
Bromine.....	640,591	47,560	64,180	866,000	86,209	866,000	86,209	955,000	74,130	955,000	74,130	Calif.
Calcium-magnesium chloride.....	175,010	44,697	77,259	326,498	78,893	326,498	78,893	349,757	85,391	349,757	85,391	Mich., Tex., Ark., Calif.
Cement.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clays.....	321,646	1,089,134	65,979	22,367	63,407	22,367	63,407	21,700	62,168	21,700	62,168	Pa., Calif., Tex., Mich.
Masonry.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Natural and slag.....	49,069	162,411	204,932	56,713	221,714	56,713	221,714	54,664	223,987	54,664	223,987	Pa., Ga., Ohio, Tex., Pa.
Emery.....	8,169	142	204	11,102	210	11,102	210	(D)	(D)	(D)	(D)	N. Y.
Feldspar.....	502,380	4,779	6,263	655,452	7,020	655,452	7,020	615,397	7,086	615,397	7,086	N. C., Calif., Conn., S. Dak.
Fluorspar.....	229,782	10,391	10,889	253,068	10,841	253,068	10,841	285,643	13,164	285,643	13,164	Ill., Ky., Mont., Nev.
Garnet (abrasive).....	10,522	986	1,717	19,952	2,092	19,952	2,092	20,494	1,849	20,494	1,849	N. Y., Idaho.
Gem stones (estimate).....	(NA)	1,188	2,218	(NA)	2,218	(NA)	2,437	(NA)	2,430	(NA)	2,430	(NA)
Gypsum.....	9,825	36,690	37,375	9,647	35,681	9,647	35,681	9,393	34,383	9,393	34,383	Mich., Calif., Iowa, Tex.
Lime.....	12,935	172,731	232,939	18,057	239,588	18,057	239,588	17,974	241,137	17,974	241,137	Ohio, Mich., Pa., Tex.

See footnotes at end of table.

No. 1014. MINERAL PRODUCTION, 1960 TO 1967, AND PRINCIPAL PRODUCING STATES, 1967—Continued

[Value in thousands of dollars.]

MINERAL	1960		1965		1966		1967		Principal producing States in order of quantity
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
<b>Nonmetallic minerals (except fuels)—Continued</b>									
Magnesium compounds from sea water and brines (except for metals)—short tons (MgO equivalent)—Mica:									
Scrap.....	283,464	21,903	637,857	47,197	651,187	46,690	544,428	41,414	Mich., Calif., Tex., Fla.
Sheet.....	97,912	2,698	120,255	3,468	113,133	3,733	118,503	2,876	N.C., Ga., Ala., S.C.
	587,401	3,108	716,086	185	4,500	1	20,500	( <sup>c</sup> )	N.E., N.C.
Perlite.....	312,153	2,665	392,384	3,352	404,160	3,907	413,001	3,973	N. Mex., Ariz., Nev., Calif.
Phosphate rock.....	19,618	117,041	29,452	193,323	30,944	247,092	39,770	265,947	Fla., Idaho, Tenn., N.C.
Potassium salts.....	2,638	89,676	3,440	129,767	3,520	124,210	3,269	105,313	N. Mex., Utah, Calif., Mich.
Pumice.....	2,210	5,569	3,371	6,550	3,218	6,768	3,446	4,131	Ariz., Calif., Oreg., Hawaii.
Pyrites.....	1,016	7,936	875	5,333	873	5,088	861	7,943	Tenn., Pa., Colo., Ariz.
Salt (common).....	23,479	151,440	34,684	215,699	36,463	267,985	38,946	251,210	La., Tex., Ohio, N.Y.
Sand and gravel.....	709,752	730,432	906,040	957,919	934,481	984,882	995,162	980,356	Calif., Mich., N.Y., Ohio.
Sodium carbonate (natural).....	808,024	20,865	1,494,106	34,717	1,737,611	40,674	1,727,977	40,589	Wyo., Calif.
Sodium sulfate (natural).....	449,631	8,708	619,752	11,024	640,329	11,271	636,843	10,710	Calif., Tex., Wyo.
Stone <sup>a</sup> .....	616,784	952,555	780,242	1,203,831	813,374	1,260,715	785,592	1,240,244	Pa., Tex., Ill., Ohio.
Sulfur:									
Frasch-process mines.....	5,003	115,494	7,251	164,654	7,721	201,292	7,682	251,670	La., Tex.
Other mines.....	181	1,732	3	11	1	5	1	3	Calif.
Talc, soapstone, and pyrophyllite.....	734,473	5,378	862,875	6,343	895,045	6,479	902,512	6,871	N.Y., Calif., Vt., N.C.
Ti-oxide.....	57,713	3,247	71,198	4,481	66,163	3,328	70,984	3,377	Ill., Okla., Ark., Pa.
Vermiculite.....	57,189	3,108	71,249	4,460	66,292	4,054	70,255	4,974	Mont., S.C., Tex., Ariz.
Nonmetallic minerals, undistributed <sup>b</sup> .....	(X)	44,715	(X)	66,028	(X)	69,911	(X)	55,734	(X)

	(X)	2,022,000	(X)	2,544,000	(X)	2,703,000	(X)	2,833,000	(X)
<b>Metals</b>									
Antimony ore and concentrate									
short tons (antimony content)	635	(?)	845	(?)	927	(?)	892	(?)	Idaho, Nev., Alaska, Mont.
1,000 long tons (dried equivalent)	1,998	21,107	1,654	18,632	1,796	20,095	1,654	19,079	Ark., Ala., Ga.
Beryllium concentrate	509	162	(D)	(?)	(D)	(D)	(D)	(?)	S. Dak., Colo.
Copper (recoverable content of ores, etc.) - short tons	1,080,169	693,468	1,351,734	957,028	1,429,152	1,033,850	954,064	729,401	Ariz., Utah, N. Mex., Mont.
Gold (recoverable content of ores, etc.) - troy ounces	1,668,722	88,336	1,705,190	50,682	1,803,420	68,119	1,854,187	55,447	S. Dak., Nev., Utah, Ariz.
Iron ore, usable (excluding byproduct iron sinters)									
1,000 long tons (gross weight)	82,963	794,131	84,070	801,388	90,040	854,134	82,415	817,511	Mich., Calif., N.Y.
Lead (recoverable content of ores, etc.) - short tons	245,669	57,722	301,147	93,959	327,368	98,964	316,951	87,741	Mo., Idaho, Utah, Colo.
Manganese ore (35 percent or more Mn) - short tons	80,021	5,362	29,288	(?)	14,406	(?)	12,855	(?)	N. Mex., Mont.
Manganiferous ore (5 to 35 percent Mn) - short tons									
short tons (gross weight)	658,455	332,763	332,763	(?)	324,928	(?)	289,160	(?)	Mich., N. Mex., Mont., Colo.
short tons (gross weight)	93,223	7,062	49,582	11,176	22,038	9,722	23,784	11,639	Calif., Nev., Oreg., Idaho.
76-pound flasks	69,941	87,406	77,310	120,801	91,670	144,327	81,596	133,604	Colo., N. Mex., Ariz., Utah.
Nickel (content of ore and concentrate) - short tons	14,079	(?)	16,188	(?)	15,036	(?)	15,287	(?)	Oreg.
Silver (recoverable content of ores, etc.) - short tons	30,766	27,846	39,806	51,469	43,669	56,463	32,119	49,784	Idaho, Utah, Ariz., Mont.
1,000 troy ounces	10	12	47	126	97	285	(D)	(?)	Calif., Colo., Alaska.
Titanium concentrate									
long tons	789,237	14,655	948,832	18,088	868,436	17,608	882,414	18,519	N. Y., Fla., Ga., N. J.
short tons (gross weight)	9,226	967	(D)	(?)	(D)	(?)	(D)	(?)	
Tungsten ore and concentrate									
short tons (60 percent WO <sub>3</sub> basis)	7,325	9,815	7,949	13,028	8,912	17,630	9,088	20,895	Calif., Colo., Idaho, Nev.
Uranium (recoverable content U <sub>3</sub> O <sub>8</sub> ) - 1,000 pounds	15,940	182,188	19,727	157,828	19,037	152,281	20,655	163,239	N. Mex., Wyo., Colo., Utah.
Vanadium (recoverable in ore and concentrate)									
short tons	4,971	17,740	5,226	18,284	5,166	22,210	4,963	21,331	Colo., Idaho, Utah, N. Mex.
short tons	435,427	119,365	611,153	178,284	572,558	166,044	549,413	151,662	Tenn., N. Y., Idaho, Colo.
Metals, undistributed <sup>1</sup>	(X)	26,891	(X)	44,304	(X)	46,605	(X)	50,190	(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. 1960, refined only; thereafter, crude and refined.  
 3. Grindstones, pulpstones, millstones (weight not recorded), grinding pebbles, sharpening stones, and tube-mill liners.  
 4. Value included in "Nonmetallic minerals, undistributed."  
 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: Aplite, brucite (1965-67), calcite (optical grade 1965-66), calcium-magnesium chloride (1960-1966), diatomite, graphite, iodine, kyanite, lithium minerals, magnesite, greensand marl, olivine, staurolite, and wolastonite and values indicated by footnote 4.  
 7. Comprises value of items that cannot be disclosed: Chromite, cobalt, columbitum-tantalum concentrate (1967), magnesium chloride for magnesium metal, manganiferous residuum, platinum-group metals (crude), rare-earth metal concentrates, zirconium concentrate, and values indicated by footnote 7.  
 Source: Dept. of the Interior, Bureau of Mines: *Minerals Yearbook*.

**No. 1015. PRINCIPAL METALS AND MINERALS—U.S. PRODUCTION AS PERCENT OF  
WORLD PRODUCTION: 1967**

[Preliminary]

MINERAL	WORLD PRODUCTION		MINERAL	WORLD PRODUCTION	
	Total	Percent U.S.		Total	Percent U.S.
<b>Fuels:</b>			<b>Metals, mine basis—Continued</b>		
Coal.....mil. short tons..	3,003	19	Lead <sup>2</sup> .....1,000 short tons..	3,133	10
Petroleum (crude).....mil. bbl..	12,890	25	Mercury.....1,000 76-lb. flasks..	242	10
<b>Nonmetals:</b>			Molybdenum <sup>3</sup> .....1,000 lb.	125,363	71
Asbestos.....1,000 short tons..	3,194	4	Nickel <sup>3</sup> .....1,000 short tons..	481	3
Barite.....1,000 short tons..	2,447	39	Silver.....1,000 troy oz..	260,820	12
Cement <sup>1</sup> .....mil. bbl..	2,814	14	Titanium concentrates: Ilmenite <sup>4</sup> .....1,000 short tons..	2,960	32
Feldspar.....1,000 long tons..	1,598	38	Tungsten concentrate (80 percent WO <sub>3</sub> ).....short tons..	30,931	14
Fluorspar.....1,000 short tons..	3,150	9	Vanadium <sup>3</sup> .....short tons..	10,595	47
Gypsum.....1,000 short tons..	31,477	30	Zinc <sup>3</sup> .....1,000 short tons..	5,175	11
Mica (incl. scrap)			<b>Metals, smelter basis:</b>		
1,000 short tons..	147	81	Aluminum.....1,000 short tons..	8,285	39
Nitrogen, agricultural <sup>1,2</sup>			Copper.....1,000 short tons..	5,850	15
1,000 short tons..	25,600	75	Iron, pig (incl. ferroalloys)		
Phosphate rock.....1,000 long tons..	86,969	46	1,000 short tons..	391,377	23
Potash (K <sub>2</sub> O equivalent)			Lead.....1,000 short tons..	3,076	12
1,000 short tons..	16,861	20	Magnesium.....short tons..	202,608	48
Salt <sup>1</sup> .....1,000 short tons..	111,304	35	Steel ingots and castings		
Sulfur, elemental			1,000 short tons..	543,080	23
1,000 long tons..	17,247	48	Tin.....long tons..	221,612	1
<b>Metals, mine basis:</b>			Uranium oxide (U <sub>3</sub> O <sub>8</sub> ) <sup>4</sup>		
Bauxite.....1,000 long tons..	43,612	4	short tons..	17,058	53
Cadmium.....1,000 lb.	18,345	47	Zinc.....1,000 short tons..	4,233	22
Copper <sup>2</sup> .....1,000 short tons..	5,436	18			
Iron ore.....1,000 long tons..	618,308	14			

<sup>1</sup> U.S. production includes Puerto Rico.   <sup>2</sup> For year ended June 30.

<sup>3</sup> Content of ore and concentrate.   <sup>4</sup> Excludes U.S.S.R.

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

**No. 1016. STRATEGIC AND CRITICAL MATERIALS INVENTORY: 1960, 1965, AND 1968**

[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		1965		1968	
	Acquisition cost	Market value	Acquisition cost	Market value	Acquisition cost	Market value
<b>Total</b> .....	<b>8,969</b>	<b>7,962</b>	<b>8,071</b>	<b>7,843</b>	<b>6,971</b>	<b>6,973</b>
On order.....	428	413	38	39	85	93
On hand.....	8,540	7,549	8,033	7,804	6,886	6,880
Within stockpile objectives.....	4,366	4,345	3,328	3,667	3,312	3,609
Excess to stockpile objectives.....	4,174	3,204	4,705	4,138	3,574	3,271
National stockpile.....	6,130	5,706	5,285	5,642	4,471	4,876
Supplemental stockpile.....	840	799	1,403	1,317	1,455	1,423
Defense Production Act.....	1,457	935	1,341	841	958	579
Commodity Credit Corporation.....	104	100	<sup>4</sup>	<sup>4</sup>	<sup>2</sup>	<sup>2</sup>
Federal Facilities Corporation.....	10	9	(X)	(X)	(X)	(X)

X Not applicable.

Source: General Services Administration; unpublished data.

**No. 1017. AVERAGE PRICES OF SELECTED MINERAL PRODUCTS: 1951 to 1968**

[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 <sup>1</sup> (Lake Erie ports)	Copper, electrolytic <sup>2</sup>	Lead (New York)	Tin (New York) <sup>3</sup>	Zinc (St. Louis)	Aluminum, delivered <sup>4</sup>	Sulfur, crude (f.o.b. works)	Bituminous coal <sup>5</sup>	Crude petroleum <sup>6</sup>
	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
1951-1955.....	9.36	29.277	15.330	106.00	13.610	20.96	23.88	4.75	2.66
1956-1960.....	11.33	32.473	13.388	99.26	11.919	25.00	24.50	4.84	2.93
1961-1965.....	10.71	32.000	12.247	136.08	12.646	24.04	23.90	4.47	2.88
1960.....	11.45	32.453	11.948	101.44	12.946	26.00	23.50	4.69	2.88
1965.....	10.55	35.417	16.000	178.20	14.500	24.51	25.50	4.44	2.86
1966.....	10.55	36.570	15.115	164.07	14.500	24.50	25.71	4.54	2.88
1967.....	10.55	38.626	14.000	153.43	13.843	25.00	33.75	4.62	2.92
1968 (prel.).....	10.55	42.247	13.212	148.15	13.500	25.58	41.50	4.72	2.93

<sup>1</sup> Lake Superior, Mesabi, non-Bessemer. <sup>2</sup> Domestic market. <sup>3</sup> Straits tin.  
<sup>4</sup> Prices 1951-1955, for 99+ percent virgin ingot aluminum; beginning 1956, for 99+ percent unalloyed ingot.  
<sup>5</sup> Average value at mine. Includes Alaska. <sup>6</sup> Average value at well. Beginning 1958, includes Alaska, and 1959, Hawaii. <sup>7</sup> Based on first 8 months. Average suspended from September through December.  
<sup>8</sup> Based on first 9 months. Average suspended Sept. 1, 1967 through Apr. 5, 1968 due to strike of major producers.  
 Source: Compiled from Metals Week (copyright); *The Iron Age* (copyright); *Wholesale Prices and Price Indexes* (Bureau of Labor Statistics); and *Minerals Yearbook* and unpublished data (Bureau of Mines).

**No. 1018. IMPORTS AND EXPORTS OF SELECTED MINERAL AND METAL PRODUCTS: 1950 to 1968**

[Quantity in thousands of short tons, except as noted. Includes trade of Puerto Rico with foreign countries]

MINERAL	QUANTITY				VALUE (\$1,000)			
	1950	1960	1965	1968	1950	1960	1965	1968
<b>IMPORTS FOR CONSUMPTION</b>								
Fuels: Petroleum, crude... mil. barrels..	174	401	502	523	369,208	895,055	1,119,838	1,175,253
Nonmetallic minerals:								
Asbestos.....	705	669	684	708	47,284	63,345	65,878	69,689
Diamonds:								
Gem.....1,000 carats.....	1,166	2,167	3,160	4,348	102,187	165,555	307,285	475,132
Industrial.....1,000 carats.....	11,198	13,146	12,241	11,427	37,001	51,837	53,957	55,603
Mica.....	19	11	7	5	23,660	8,305	8,807	4,982
Ores and concentrates:								
Bauxite.....1,000 long tons.....	2,516	9,586	12,458	12,211	15,730	78,024	142,989	140,228
Chromite.....	1,904	1,387	1,518	1,085	23,299	24,313	25,239	18,189
Copper.....1,000 short tons of metal.....	94	83	11	72	35,899	49,380	6,570	66,291
Iron ore.....1,000 long tons.....	8,297	34,584	45,105	43,941	44,027	321,939	443,807	473,753
Lead.....1,000 short tons of metal.....	96	138	129	96	21,184	27,911	26,923	18,887
Manganese ore.....	2,017	2,280	3,892	1,870	41,882	82,357	110,281	45,910
Nickel.....1,000 short tons of metal.....	27	30	31	34	18,087	29,937	41,226	72,587
Tin.....1,000 long tons of metal.....	26	14	4	3	47,163	31,104	13,228	5,418
Tungsten.....short tons of metal.....	8,024	1,762	1,802	872	15,309	3,478	3,886	3,272
Metals (incl. scrap): <sup>2</sup>								
Aluminum.....	245	160	555	723	62,517	77,406	226,812	310,871
Copper.....	366	177	137	418	145,344	113,224	93,715	453,807
Lead <sup>3</sup> .....	422	221	232	343	110,644	62,417	70,226	84,900
Nickel.....	64	80	136	13	54,124	116,679	208,353	11,556
Platinum group.....1,000 troy ounces.....	391	650	1,220	1,772	21,123	31,900	72,806	124,561
Tin <sup>4</sup> .....1,000 long tons.....	86	40	41	58	155,092	87,968	160,389	182,472
Zinc.....	158	122	159	306	39,448	29,829	43,609	75,921
<b>EXPORTS<sup>5</sup></b>								
Fuels:								
Anthracite.....	3,802	1,440	851	518	62,502	28,803	11,488	6,553
Bituminous coal.....	25,468	36,541	50,270	50,702	206,545	331,616	466,463	498,678
Petroleum, crude.....1,000 barrels.....	34,824	3,087	1,004	1,802	102,717	8,032	2,841	4,452
Nonmetallic minerals:								
Cement, hydraulic.....1,000 barrels.....	2,418	187	748	942	7,275	1,135	4,288	3,884
Phosphate rock.....	2,052	4,761	862	1,031	14,874	37,585	10,595	15,806
Potash material.....	117	833	1,099	1,343	5,534	25,926	42,502	43,663
Sulfur <sup>6</sup> .....1,000 long tons.....	1,479	1,787	2,635	1,585	33,200	42,294	65,548	69,505
Metals (incl. scrap): <sup>2</sup>								
Aluminum <sup>7</sup> .....short tons.....	1,461	364,493	242,190	229,706	353	155,104	104,984	101,872
Copper <sup>7</sup> .....	154	615	424	362	61,281	356,628	312,051	327,385
Iron and steel, scrap <sup>8</sup> .....	217	8,940	6,170	6,445	6,014	241,572	197,459	194,809
Molybdenum <sup>7</sup> .....short tons.....	73	143	55	146	6,115	368	414	217
Nickel <sup>7</sup> .....short tons.....	3,176	42,638	6,723	16,743	3,219	10,289	4,168	24,757
Zinc <sup>7</sup> .....	19	90	19	53	4,708	20,815	7,900	16,750

<sup>1</sup> Includes matte and oxide. <sup>2</sup> Excludes semifabricated forms, except as noted.  
<sup>3</sup> Includes alloys in chief value of lead. <sup>4</sup> Includes alloys in chief value of tin.  
<sup>5</sup> Includes shipments under foreign aid programs.  
<sup>6</sup> Includes crude (containing 85 percent or more sulfur), crushed, ground, refined, sublimed, and flowers.  
<sup>7</sup> Includes alloys. <sup>8</sup> Includes tin plated and terne plated scrap. <sup>9</sup> Includes some semifabricated forms.

Source: Dept. of Commerce, Bureau of the Census; annual report FT 246, *U.S. Imports for Consumption and General Imports, TSUSA Commodity and Country*; monthly report FT 410, *U.S. Exports, Schedule B Commodity and Country*; and unpublished data.

[Excludes establishments for which both value of shipments and expenditures amounted to less than \$500.]

MINERAL INDUSTRY	1954			1955			
	Estab- lish- ments	Pay- roll <sup>1</sup>	Value added in mining <sup>2</sup>	Estab- lish- ments	All employees		Value added in mining <sup>3</sup>
					Number <sup>4</sup>	Pay- roll <sup>1</sup>	
		<i>Mil.</i> <i>dol.</i>	<i>Mil.</i> <i>dol.</i>		<i>Mil.</i> <i>dol.</i>	<i>Mil.</i> <i>dol.</i>	<i>Mil.</i> <i>dol.</i>
1 All industries.....	37,641	3,395	711,559	36,384	733,904	3,749	13,384
2 Metal mining.....	3,668	469	71,084	2,351	91,582	486	1,180
3 Iron ores.....	225	157	436	243	80,113	160	488
4 Copper ores.....	212	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	6,853	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.....	1,089	939	9107	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.....	722	29	89	111	3,339	18	54
16 Metal mining services.....	114	15	27	95	2,184	12	23
17 Miscellaneous metal ores.....	788	21	75	763	9,790	53	196
18 Titanium ores.....	10	4	11	11	862	4	13
19 Uranium-radium-vanadium ores.....	637	15	(NA)	603	7,939	44	175
20 Mercury ores and misc. metal ores.....	141	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	868	1,402	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	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.....	5,516	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	555	1,392
38 Dimension stone <sup>11</sup> .....	351	9	15	335	2,306	7	13
39 Crushed and broken stone <sup>12</sup> .....	<sup>13</sup> 1,920	146	340	1,970	41,730	190	449
40 Sand and gravel <sup>12</sup> .....	3,939	147	357	3,708	37,159	173	435
41 Clay and related minerals <sup>12</sup> .....	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	1,227	5	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 <sup>12</sup> .....	872	20	48	481	5,654	24	63

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

<sup>1</sup> Gross earnings paid to all employees on payroll.<sup>2</sup> 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.<sup>3</sup> Excludes proprietors and firm members of unincorporated concerns.<sup>4</sup> Represents employees up through the working foreman level engaged in manual work. Includes development and exploration workers.<sup>5</sup> Excludes paid vacations, holidays, and sick leave; includes actual overtime hours (not straight-time equivalent).<sup>6</sup> 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

"N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1867*, series M 1-12]

1963									
Establishments	All employees		Production workers <sup>4</sup>			Value added in mining <sup>2</sup>	Value of shipments and receipts <sup>6</sup>	Capital expenditures	
	Number <sup>3</sup>	Payroll <sup>1</sup>	Number	Man-hours <sup>5</sup>	Wages				
		<i>Mil. dol.</i> 3,742		<i>1,000</i> 972,983	<i>Mil. dol.</i> 2,680	<i>Mil. dol.</i> 15,910	<i>Mil. dol.</i> 21,621	<i>Mil. dol.</i> 3,264	
<sup>8</sup> 38,651	615,572		481,466						1
1,614	77,210	515	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	4,731	7	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	4,667	15	64	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	8,143	61	6,369	13,798	42	210	355	19	17
8	897	6	846	1,721	5	15	22	2	18
335	6,665	45	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
<sup>8</sup> 21,242	271,476	1,745	191,976	397,348	1,093	11,019	14,513	2,552	28
<sup>8</sup> 14,378	145,244	1,016	83,444	166,305	495	9,016	9,894	2,210	29
<sup>8</sup> 12,326	125,842	892	71,707	142,847	427	7,813	8,600	1,907	30
<sup>8</sup> 2,052	19,402	124	11,737	23,458	68	1,203	1,294	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
2,336	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	39,023	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

<sup>7</sup> Excludes figures for uranium-radium-vanadium ores industry (not available).<sup>8</sup> Not strictly comparable with data for earlier years because of change in reporting procedures for crude petroleum and natural gas companies. <sup>9</sup> Excludes Alaska and Hawaii.<sup>10</sup> 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.<sup>11</sup> Excludes data for dimension stone quarries operated in conjunction with dressing plants.<sup>12</sup> Excludes data for mining included in establishments classified in manufacturing industries.<sup>13</sup> 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. 1020. EMPLOYMENT IN MINERAL INDUSTRIES: 1940 TO 1967

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

ITEM	1940	1950	1960	1964	1965	1966	1967 <sup>1</sup>
<b>Men working daily</b> <sup>2</sup> .....	(NA)	(NA)	1,045,111	892,422	907,476	915,964	(NA)
Coal mines <sup>3</sup> .....	533,267	483,239	189,679	150,761	148,734	145,244	144,350
Coke.....	19,962	24,347	16,463	13,447	14,521	14,218	13,701
Petroleum and natural gas.....	(NA)	517,787	511,107	427,697	436,935	451,747	445,562
Metal mines <sup>3</sup> .....	110,340	68,292	60,595	49,765	51,420	49,920	(NA)
Nonmetal mines <sup>4</sup> .....	9,780	11,977	18,653	17,087	17,214	18,727	18,000
Sand and gravel operations.....	(NA)	(NA)	52,352	55,886	54,159	55,344	52,300
Stone quarries <sup>5</sup> .....	79,509	85,730	95,304	87,859	89,580	85,826	84,300
Metallurgical plants.....	49,068	46,277	58,689	55,331	61,111	60,576	(NA)
Nonmetal mills.....	(NA)	(NA)	39,568	31,967	31,215	32,001	31,500
Other.....	(NA)	(NA)	2,701	2,622	2,587	2,363	2,620
<b>Man-hours worked</b> .....	(NA)	(NA)	2,082,521	1,849,922	1,899,895	1,925,695	1,864,060
Coal mines <sup>3</sup> .....	840,416	711,390	281,528	252,405	248,988	243,759	246,509
Coke.....	53,624	65,861	46,066	38,418	40,869	40,730	38,956
Petroleum and natural gas.....	(NA)	1,081,519	1,063,332	910,525	931,645	954,527	938,946
Metal mines <sup>3</sup> .....	211,740	147,765	119,653	104,204	112,277	111,857	95,575
Nonmetal mines <sup>4</sup> .....	18,988	28,456	36,805	35,977	37,761	41,003	38,430
Sand and gravel operations.....	(NA)	(NA)	95,749	100,891	100,083	104,971	96,445
Stone quarries <sup>5</sup> .....	147,244	189,535	202,366	188,000	194,000	190,787	185,260
Metallurgical plants.....	113,116	116,430	145,210	143,050	158,224	180,307	149,715
Nonmetal mills.....	(NA)	(NA)	86,386	71,461	70,975	72,810	69,070
Other.....	(NA)	(NA)	5,427	4,991	5,073	4,942	5,145

NA Not available.

<sup>1</sup> Preliminary except for coal, petroleum and natural gas, peat, and native asphalt.<sup>2</sup> Average number of men at work each day mines were 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. <sup>3</sup> Includes Alaska.<sup>4</sup> Beginning 1960, includes clay mines. Includes Alaska; beginning 1960, includes Hawaii.<sup>5</sup> 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. 1021. INJURIES IN MINERAL INDUSTRIES, BY INDUSTRY GROUP: 1950 TO 1967

[Excludes Alaska and Hawaii, except as noted. Excludes data on iron smelting and steel industries. See also *Historical Statistics, Colonial Times to 1967*, series M 259-274]

ITEM	NUMBER OF INJURIES				INJURY RATES PER MILLION MAN-HOURS			
	1950	1960	1965	1967 <sup>1</sup>	1950	1960	1965	1967 <sup>1</sup>
<b>Fatal injuries</b> <sup>2</sup> .....	952	603	538	508	0.41	0.29	0.28	0.27
Coal mining <sup>3</sup> .....	643	325	259	220	0.90	1.15	1.04	0.90
Coke.....	14	3	7	9	0.21	0.07	0.17	0.23
Petroleum and natural gas <sup>4</sup> .....	109	82	78	88	0.10	0.08	0.08	0.09
Metal mines <sup>3</sup> .....	84	84	58	65	0.57	0.70	0.52	0.68
Nonmetal mines <sup>5</sup> .....	19	19	21	17	0.67	0.52	0.56	0.44
Sand and gravel.....	(NA)	25	40	32	(NA)	0.26	0.40	0.33
Stone quarries <sup>6</sup> .....	54	39	48	45	0.28	0.19	0.25	0.24
Metallurgical plants.....	29	12	15	16	0.25	0.08	0.09	0.11
Nonmetal mills.....	(NA)	13	10	13	(NA)	0.15	0.14	0.19
<b>Nonfatal injuries</b> <sup>2</sup> .....	66,729	36,044	32,800	31,380	28.51	17.31	17.26	16.83
Coal mines <sup>3</sup> .....	37,264	11,902	11,138	10,164	52.38	42.28	44.73	41.23
Coke.....	780	223	228	226	11.84	4.84	5.58	5.80
Petroleum and natural gas <sup>4</sup> .....	13,500	9,110	8,963	8,776	12.48	8.57	9.62	9.35
Metal mines <sup>3</sup> .....	6,611	3,794	3,292	2,870	44.74	31.71	29.32	30.02
Nonmetal mines <sup>5</sup> .....	1,238	1,056	989	1,030	43.51	28.69	26.19	26.83
Sand and gravel.....	(NA)	1,919	1,870	1,910	(NA)	20.04	18.68	19.78
Stone quarries <sup>6</sup> .....	4,762	4,668	3,305	3,260	25.12	23.07	17.04	17.69
Metallurgical plants.....	2,574	1,482	1,443	1,520	22.11	10.21	9.12	10.16
Nonmetal mills.....	(NA)	1,794	1,483	1,525	(NA)	20.77	20.89	22.05

NA Not available.

<sup>1</sup> Preliminary except for coal, and petroleum and natural gas.<sup>2</sup> Beginning 1960, includes industries not shown separately.<sup>3</sup> Includes Alaska.<sup>4</sup> Beginning 1960, number of fatalities and permanent total injuries at petroleum and natural gas operations are combined. Fatal-frequency rates for 1960 include an unknown number of permanent total injuries which cannot be separated from fatal injuries.<sup>5</sup> Beginning 1960, includes clay mines. Includes Alaska; beginning 1960, includes Hawaii.<sup>6</sup> 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. 1022. COAL—SUMMARY: 1940 TO 1967

[Quantities in thousands of short tons and values in millions of dollars, except as indicated. Includes coal consumed at mines. See also *Historical Statistics, Colonial Times to 1967*, series M 88-116 and M 118-132]

ITEM	1940	1950	1960	1964	1965	1966	1967
Total coal production:							
Quantity.....	512,267	560,388	434,329	504,182	526,954	526,822	564,882
Value.....	1,085	2,893	2,098	2,314	2,398	2,522	2,652
BITUMINOUS COAL <sup>1</sup>							
Production:							
Quantity.....	460,772	516,311	415,512	486,998	512,088	533,881	562,626
Value, total.....	879	2,500	1,950	2,166	2,276	2,421	2,556
Average per ton.....dollars..	1.91	4.84	4.69	4.45	4.44	4.54	4.62
Exports:							
Quantity.....	16,466	25,468	36,541	47,969	50,181	49,302	49,510
Value.....	61	207	332	441	465	458	475
Imports:							
Quantity.....	372	347	260	<sup>2</sup> 293	<sup>2</sup> 184	<sup>2</sup> 178	<sup>2</sup> 227
Value.....	2	2	2	<sup>2</sup> 2	<sup>2</sup> 2	<sup>2</sup> 2	<sup>2</sup> 2
Consumption.....	<sup>3</sup> 430,910	<sup>3</sup> 454,202	<sup>3</sup> 380,429	431,116	<sup>3</sup> 459,164	486,266	480,255
Electric power utilities <sup>4</sup> .....	49,126	88,202	173,882	223,032	242,729	264,202	271,784
Bunker, foreign and lake vessels <sup>5</sup> .....	2,989	2,042	945	711	655	609	467
Manufacturing and mining industries.....	208,978	218,507	173,096	187,758	196,732	201,490	190,905
Retail-dealer deliveries <sup>6</sup> .....	84,687	84,422	30,405	19,618	19,048	19,965	17,099
Number of mines.....	6,324	9,429	7,865	7,630	7,228	8,749	<sup>2</sup> 6,800
Average number of men employed <sup>7</sup> .....	439,075	415,582	169,400	128,698	133,732	131,752	131,523
Average number of days worked.....	202	183	191	225	219	219	219
Average tons per man:							
Per day.....	5.19	6.77	12.83	16.84	17.52	18.52	19.17
Per year.....	1,049	1,239	2,453	3,784	3,829	4,052	4,198
ANTHRACITE (PA.) <sup>8</sup>							
Production:							
Quantity.....	51,485	44,077	18,817	17,184	14,866	12,941	12,256
Value, total.....	205	392	147	149	122	101	96
Average per ton.....dollars..	3.99	8.90	7.82	8.65	8.21	7.78	7.85
World production, bituminous coal, lignite, and anthracite.....	1,983	1,997	2,899	3,031	3,033	3,119	<sup>9</sup> 3,003

<sup>1</sup> Relates to mines having an output of 1,000 tons a year or more, including lignite and small output of anthracite produced outside Pennsylvania. <sup>2</sup> Includes anthracite.

<sup>3</sup> Includes coal consumed by railroads (85,130,000 short tons in 1940, 60,969,000 in 1950, and 2,101,000 in 1960) excluded in distribution. For 1965, excludes anthracite; includes slack, culm, and lignite.

<sup>4</sup> Source: Federal Power Commission. Represents consumption by public-utility power plants in power generation, including a small quantity of coke. <sup>5</sup> Source: Bureau of the Census.

<sup>6</sup> Estimates based on reports collected from a selected list of representative steel and rolling mills, manufacturing plants and retailers. <sup>7</sup> Beginning 1950, average number of men working daily.

<sup>8</sup> Beginning 1950, production includes some bootleg coal purchased by anthracite industry for preparation and shipment to market. <sup>9</sup> Preliminary.

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

## No. 1023. COAL—PRODUCTION, BY STATES: 1941 TO 1967

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

STATE	1941-1945, avg.	1946-1950, avg.	1951-1955, avg.	1956-1960, avg.	1961-1965, avg.	1960	1965	1967
<b>Total</b> .....	<b>636,037</b>	<b>595,972</b>	<b>496,725</b>	<b>469,288</b>	<b>473,559</b>	<b>434,329</b>	<b>526,954</b>	<b>564,882</b>
Anthracite (Pa.).....	59,195	52,323	33,898	22,975	16,931	18,817	14,866	12,256
Bituminous and lignite.....	576,842	543,649	462,827	446,313	456,628	415,512	512,088	552,626
Alabama.....	17,783	16,278	12,176	12,413	13,484	13,011	14,832	15,486
Colorado.....	7,830	5,360	3,554	3,394	3,973	3,607	4,790	5,439
Illinois.....	68,442	60,034	46,781	46,090	51,795	45,977	58,483	65,133
Indiana.....	25,216	21,600	16,232	15,659	15,311	15,538	15,565	18,772
Kentucky.....	64,020	74,791	66,426	69,038	75,621	66,847	85,766	100,294
Missouri.....	3,947	3,720	2,873	2,898	3,165	2,890	3,564	3,696
Ohio.....	32,190	35,458	35,847	35,379	35,968	33,957	39,390	46,014
Pennsylvania.....	138,876	120,441	89,680	74,839	71,261	65,425	80,308	79,412
Tennessee.....	7,184	5,520	5,923	7,086	6,010	5,931	5,865	6,832
Utah.....	6,112	6,613	6,025	5,642	4,706	4,955	4,992	4,175
Virginia.....	19,121	17,190	20,369	28,400	31,209	27,838	34,053	36,721
West Virginia.....	154,335	151,153	138,858	134,167	130,048	118,944	149,191	153,740
Wyoming.....	5,664	6,889	4,704	2,060	2,017	2,024	3,260	3,538
Other States.....	23,222	18,702	13,349	9,247	10,255	8,568	12,029	13,815

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

**No. 1024. COKE—SUMMARY, AND PRODUCTION OF OVEN COKE, BY STATES:  
1940 TO 1968**

[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	1965	1966	1967	1968 (prel.)
Production.....	57,072	72,718	57,229	66,854	67,402	64,580	63,653
Oven coke <sup>1</sup> .....	54,014	66,891	56,219	65,198	65,959	63,775	62,878
Beehive coke.....	3,058	5,827	1,010	1,657	1,442	806	775
Value of products at plant.....mil. dol.	442	1,279	1,382	1,465	1,503	1,445	1,438
Coke and breeze.....mil. dol.	282	996	1,075	1,154	1,194	1,152	1,149
All coal-chemical materials.....mil. dol.	160	283	307	311	309	293	289
Average market value per ton <sup>2</sup> .....dollars	4.80	13.43	18.31	16.84	17.30	17.39	(NA)
Coal charged.....mil. short tons	81.4	94.9	81.4	95.3	96.4	92.8	91.3
Average value per ton.....dollars	3.58	8.41	9.82	9.40	9.67	9.96	10.08
Yield of coke from coal.....percent	70.1	69.9	70.3	70.4	70.1	69.8	69.7
Exports.....	804	398	353	834	1,102	710	792
Imports.....	113	438	126	90	96	92	94
<b>Production of oven coke:<sup>1</sup></b>							
Alabama.....	4,727	5,833	4,897	5,491	5,409	5,465	5,462
Indiana.....	6,413	8,256	8,024	8,315	8,421	8,293	8,144
Michigan.....	2,872	2,731	3,279	3,979	3,755	3,309	3,684
New York.....	5,080	5,412 <sup>(3)</sup>	(2)	(2)	(3)	(2)	(3)
Ohio.....	7,898	10,314	8,423	7,669	8,515	8,081	8,428
Pennsylvania.....	14,862	16,333	14,146	18,912	18,691	18,433	18,110
West Virginia.....	1,900	3,389	2,758	3,521	3,562	3,309	3,360
Other States.....	10,282	14,623	14,692	17,311	17,606	16,885	15,690

NA Not available. <sup>1</sup> Excludes screenings or breeze.

<sup>2</sup> For 1940 and 1950, data based on value at plant and not comparable with following years.

<sup>3</sup> Included in "Other States."

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

**No. 1025. CRUDE PETROLEUM—PRODUCING OIL WELLS, 1967, PRODUCTION, 1951 TO  
1968, AND PROVED RESERVES, 1960, 1967, AND 1968, BY STATES**

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

STATE	PRODUCING OIL WELLS, 1967		PRODUCTION					PROVED RESERVES <sup>1</sup> (Dec. 31)		
	Approximate number, Dec. 31	Average production per well per day (barrels)	1951- 1955, avg.	1956- 1960, avg.	1961- 1965, avg.	1967	1968 (prel.)	1960	1967	1968
<b>Total.....</b>	<b>573,159</b>	<b>15.2</b>	<b>2,339</b>	<b>2,567</b>	<b>2,737</b>	<b>3,216</b>	<b>3,329</b>	<b>31,613</b>	<b>31,377</b>	<b>30,707</b>
Alabama.....	532	38.1	—	5	8	7	8	(2)	79	73
Alaska.....	94	961.4	1	—	10	29	66	(2)	381	373
Arkansas.....	6,459	9.0	29	29	27	21	20	302	176	159
California.....	41,608	23.7	358	324	303	359	375	3,659	4,369	4,341
Colorado.....	1,730	45.3	39	51	39	34	32	364	340	420
Illinois.....	27,887	5.7	66	79	73	60	58	556	336	314
Indiana.....	4,831	5.5	12	12	12	10	9	66	47	40
Kansas.....	47,597	5.8	117	120	109	99	95	884	625	601
Kentucky.....	13,255	3.0	13	20	19	16	14	129	94	80
Louisiana.....	30,670	68.7	250	341	512	775	817	4,785	5,456	5,608
Michigan.....	4,004	9.2	13	11	17	14	13	78	63	55
Mississippi.....	2,557	61.3	36	44	56	57	59	407	357	328
Montana.....	3,390	27.8	12	27	31	35	48	267	308	345
Nebraska.....	1,430	24.9	6	21	22	13	13	86	63	55
New Mexico.....	16,745	20.8	68	99	113	126	128	1,084	926	865
New York.....	12,582	0.4	4	2	2	2	2	32	15	13
North Dakota.....	2,063	34.0	5	16	25	25	25	431	290	287
Ohio.....	14,638	1.9	4	6	9	10	11	75	114	132
Oklahoma.....	80,970	7.8	194	204	201	231	226	1,791	1,459	1,395
Pennsylvania.....	45,426	0.3	10	7	5	4	4	108	63	59
Texas.....	192,001	15.8	1,016	1,004	970	1,120	1,134	14,758	14,494	13,810
Utah.....	869	75.9	2	22	30	24	23	208	201	180
West Virginia.....	12,989	0.7	3	2	3	4	3	51	56	54
Wyoming.....	8,547	44.0	83	118	140	136	141	1,427	1,044	1,101
Other States <sup>3</sup> .....	285	49.9	1	1	1	5	5	65	21	21

— Represents zero.

<sup>1</sup> From reports of Committee on Petroleum Reserves, American Petroleum Institute. Figures for California, Louisiana, and Texas include offshore reserves. <sup>2</sup> Included in "Other States."

<sup>3</sup> Prior to 1960, production data exclude Hawaii.

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

**No. 1026. CRUDE PETROLEUM, REFINED PRODUCTS, AND NATURAL-GAS LIQUIDS—  
PRODUCTION AND STOCKS: 1940 TO 1967**

[In millions of barrels of 42 gallons, except as indicated. Prior to 1960 and as noted, excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series M 133-136 and M 168-177]

ITEM	1940	1950	1955	1960	1965	1966	1967 <sup>1</sup>
<b>Crude petroleum:</b>							
Domestic production.....	1,353	1,974	2,484	2,575	2,849	3,028	3,216
Value at wells.....mil. dol.	1,385	4,963	6,870	7,420	8,158	8,726	9,376
World production.....	2,144	3,803	5,626	7,689	11,058	12,007	12,890
U.S. proportion of world total.....percent.	63	52	44	33	26	25	25
Imports <sup>2</sup> .....	43	178	285	372	452	447	412
Exports <sup>2</sup> .....	51	35	12	3	1	1	27
Stocks, end of period, gasoline-bearing crude.....	<sup>3</sup> 277	248	266	240	220	238	249
Runs to stills.....	1,294	2,095	2,730	2,953	3,301	3,447	3,583
Average price per barrel at wells.....dol.	1.02	2.51	2.77	2.88	2.86	2.88	2.92
<b>Refined products:</b>							
Imports <sup>2</sup> .....	41	133	170	293	449	492	514
Exports <sup>2</sup> .....	79	76	123	71	67	71	86
Stocks, end of period <sup>4</sup> .....	281	327	436	516	580	596	624
Output of motor and aviation fuel.....	617	1,024	1,374	1,522	1,704	1,793	1,846
Yield of gasoline.....percent.	43.1	43.0	44.0	45.1	44.0	44.4	44.0
Completed refineries, end of year.....	556	357	318	311	286	281	291
Daily crude-oil capacity.....	4.7	7.0	8.6	10.0	10.5	10.8	11.5
Average dealer's net price (excl. tax) of gasoline in 50 U.S. cities <sup>5</sup> .....cents per gal.	9.08	15.10	16.18	16.08	15.88	15.83	16.31
<b>Natural-gas liquids:</b>							
Production.....	56	182	281	340	442	469	514
Stocks, end of period.....	6	7	14	29	36	40	66

<sup>1</sup> Preliminary, except for crude petroleum production and value.

<sup>2</sup> Excludes trade between Alaska (prior to 1960), Hawaii, Puerto Rico, and foreign countries. Exports include shipments from conterminous United States to Alaska, Hawaii, and outlying areas.

<sup>3</sup> Includes California heavy crude. <sup>4</sup> Beginning 1955, new basis; not comparable with earlier years.

<sup>5</sup> Beginning 1955, figures from Platt's Oilgram Price Service; prior years from American Petroleum Institute.

**No. 1027. PETROLEUM—RUNS TO STILLS AND REFINERY PRODUCTS, BY CLASS:  
1950 TO 1968**

In millions of barrels of 42 gallons. Prior to 1965, excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series M 152-167]

PRODUCT	1950	1955	1960	1965	1966	1967	1968 (prel.)
<b>Input</b>							
Crude petroleum.....	2,190	2,857	3,119	3,527	3,683	3,827	4,037
Domestic.....	2,095	2,730	2,953	3,301	3,447	3,582	3,774
Foreign.....	1,019	2,447	2,582	2,648	3,001	3,174	3,308
Natural-gas liquids <sup>1</sup> .....	176	263	371	453	446	408	466
	95	126	167	226	236	245	253
<b>Output</b>							
Gasoline (includes crude).....	2,190	2,857	3,119	3,527	3,683	3,827	4,037
Kerosene.....	998	1,332	1,510	1,694	1,784	1,839	1,933
Distillate fuel oil.....	119	117	136	93	101	99	101
Residual fuel oil.....	399	603	667	765	785	804	839
Jet fuel.....	425	420	332	269	264	276	276
Lubricants.....	57	57	88	191	216	273	315
Wax (1 bbl.=280 lb.).....	52	56	59	63	65	65	66
Coke (5 bbl.=1 sh. ton).....	4	5	6	5	6	6	6
Asphalt (5.5 bbl.=1 sh. ton).....	17	28	60	86	88	91	95
Still gas (1 bbl.=3,600 cu. ft.).....	58	83	99	124	130	128	136
Liquefied gases.....	84	117	129	135	135	140	150
Petrochemical feedstocks.....	29	44	78	107	106	111	118
Other finished products.....	(NA)	(NA)	(NA)	58	75	87	95
Other unfinished oils (net) <sup>2</sup> .....	12	19	30	49	53	49	50
Shortage <sup>2</sup> .....	7	11	22	22	55	51	26
	1	12	55	80	90	107	117

- Represents zero. NA Not available. <sup>1</sup> Includes other liquid hydrocarbon. <sup>2</sup> Negative quantities.

**No. 1028. NATURAL-GAS LIQUIDS—PRODUCTION AND VALUE: 1950 TO 1967**

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series M 149-151]

ITEM	1950	1955	1960	1965	1966	1967
<b>Total produced</b>						
Natural gasoline and mixtures <sup>1</sup> .....mil. gal.	7,642	11,818	14,287	18,545	19,683	21,607
Liquefied petroleum gases <sup>2</sup> .....mil. gal.	3,229	4,457	4,479	5,457	5,564	5,850
Cycle products.....mil. gal.	3,036	5,973	8,444	11,257	12,134	13,718
Value at plants:						
Natural gasoline <sup>1</sup> .....\$1,000.	213,810	313,075	313,058	360,603	366,332	389,156
Liquefied petroleum gases <sup>2</sup> .....\$1,000.	97,773	195,231	391,566	417,249	527,223	632,994
Cycle products.....\$1,000.	108,022	110,700	103,761	133,751	153,806	157,786
Average value, all light prod.....cts. per gal.	5.5	5.2	5.7	4.9	5.3	5.5
Natural gas processed.....bil. cu. ft.	5,342	8,186	9,768	13,772	14,924	15,642
Average yield, all light products gal. per 1,000 cu. ft.	1.43	1.44	1.46	1.35	1.32	1.39

<sup>1</sup> Beginning 1955, includes isopentane; included in LP-gases for prior years. <sup>2</sup> Includes ethane.

Source of tables 1026-1028: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

**No. 1029. NATURAL GAS—PRODUCTION, CONSUMPTION, VALUE, AND RESERVES:  
1940 TO 1967**

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

ITEM	1940	1950	1955	1960	1965	1967
Total marketed production <sup>1</sup> ..... bil. cu. ft.	2,660	6,282	9,405	12,771	16,040	18,171
Value (at wells) of gas produced..... mil. dol.	120	409	978	1,790	2,495	2,899
Average per 1,000 cu. ft..... cents	4.5	6.5	10.4	14.0	15.6	16.0
Number of producing gas wells, Dec. 31.....	53,880	64,900	71,475	90,761	111,680	112,321
<b>Total consumption..... bil. cu. ft.</b>	<b>2,655</b>	<b>6,026</b>	<b>9,070</b>	<b>12,509</b>	<b>16,033</b>	<b>18,173</b>
Residential..... bil. cu. ft.	444	1,198	2,124	3,103	3,903	4,313
Commercial..... bil. cu. ft.	135	388	629	1,020	1,443	1,717
Industrial..... bil. cu. ft.	2,076	4,440	6,317	8,386	10,687	12,143
<b>Value (at point of consumption) of gas consumed..... mil. dol.</b>	<b>577</b>	<b>1,604</b>	<b>3,626</b>	<b>6,270</b>	<b>8,368</b>	<b>9,442</b>
Residential..... mil. dol.	316	826	1,885	3,209	4,091	4,501
Commercial..... mil. dol.	64	184	395	791	1,115	1,338
Industrial..... mil. dol.	197	593	1,346	2,270	3,161	3,603
Average per 1,000 cu. ft..... cents	21.7	26.6	40.0	50.1	52.2	51.9
Residential..... cents	71.1	69.0	88.7	103.4	104.3	104.3
Commercial..... cents	47.8	47.6	62.7	77.5	77.3	77.9
Industrial..... cents	9.5	13.4	19.6	27.1	29.6	29.7
<b>Number of consumers:</b>						
Residential..... 1,000.....	9,245	16,906	26,084	31,148	35,302	36,434
Commercial..... 1,000.....	741	1,347	2,140	2,584	2,991	3,077
Proved reserves, Dec. 31 <sup>2</sup> ..... bil. cu. ft.	(NA)	184,585	223,697	263,759	286,469	292,908

NA Not available.

<sup>1</sup> Beginning 1950, comprises gas sold or consumed by producers, including losses in transmission, amounts added to storage, and increases in gas in pipelines. <sup>2</sup> Estimated. Source: American Gas Association.

**No. 1030. NATURAL GAS—PRODUCTION, 1940 TO 1967, AND RESERVES, 1955 TO 1967,  
BY STATES**

[In billions of cubic feet]

STATE	MARKETED PRODUCTION <sup>1</sup>						RESERVES <sup>2</sup>			
	1940	1950	1955	1960	1965	1967	1955	1960	1965	1967
<b>Total.....</b>	<b>2,660</b>	<b>6,282</b>	<b>9,405</b>	<b>12,771</b>	<b>16,040</b>	<b>18,171</b>	<b>223,697</b>	<b>263,759</b>	<b>286,469</b>	<b>292,908</b>
Arkansas.....	14	48	32	55	83	117	1,164	1,460	2,269	2,811
California.....	352	558	538	518	660	681	8,893	8,844	8,832	7,724
Colorado.....	3	11	49	107	126	117	2,254	2,043	1,718	1,769
Illinois.....	8	13	8	12	7	5	234	173	210	259
Kansas.....	90	364	471	634	793	872	16,293	19,620	16,596	15,284
Kentucky.....	53	73	73	75	79	89	1,262	1,144	1,092	954
Louisiana.....	343	832	1,680	2,988	4,467	5,717	42,436	63,386	82,811	86,290
Michigan.....	13	11	8	21	35	34	326	586	746	761
Mississippi.....	6	114	163	172	167	139	2,608	2,542	1,973	1,597
Montana.....	26	39	28	33	28	26	720	626	596	838
Nebraska.....	( <sup>3</sup> )	(Z)	13	15	11	8	203	118	80	64
New Mexico.....	64	213	541	799	937	1,068	18,585	15,604	15,375	15,092
North Dakota.....	( <sup>3</sup> )	1	5	19	36	40	281	1,151	1,121	882
Ohio.....	41	43	34	36	36	41	810	766	755	763
Oklahoma.....	258	482	615	824	1,321	1,413	13,205	17,311	20,357	19,404
Pennsylvania.....	91	91	99	114	84	90	754	1,192	1,257	1,392
Texas.....	1,064	3,126	4,731	5,893	6,637	7,189	108,288	119,489	120,617	125,415
Utah.....	( <sup>3</sup> )	4	17	51	72	49	421	1,526	1,439	1,227
West Virginia.....	189	190	212	209	207	211	1,565	1,831	2,494	2,580
Wyoming.....	27	62	78	182	236	240	3,196	3,935	3,703	3,685
Other States <sup>4</sup> .....	19	5	9	12	18	25	201	411	2,428	4,117

Z Less than 500 million cubic feet.

<sup>1</sup> For 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. Beginning 1965, data on pressure base of 14.73 pounds per square inch absolute; prior years, 14.65.

<sup>2</sup> 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.

<sup>3</sup> Included with "Other States." <sup>4</sup> Prior to 1960, excludes Alaska.

 Source of tables 1029 and 1030: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, except as noted.

No. 1031. FUEL OILS AND NATURAL GAS—CONSUMPTION, BY MAJOR CONSUMER GROUPS: 1950 TO 1967

[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	Rail-roads	Vessels	Gas and electric power plants	Smelters, mines, and manufactures	Space heating and cooking	Military	Oil and gas company fuel	Miscellaneous
<b>Distillate fuel oil:</b>									
1950.....	395,306	48,703	12,872	13,207	37,121	235,540	6,553	5,692	35,418
1955.....	581,127	84,668	16,675	5,884	43,606	356,589	10,945	8,597	54,169
1960.....	693,325	86,490	18,730	4,742	34,271	438,010	10,709	8,347	81,942
1965.....	786,891	86,436	15,532	3,661	42,484	475,992	14,953	10,430	137,403
1967.....	829,200	88,688	17,478	2,858	44,997	501,026	17,325	8,997	147,831
<b>Residual fuel oil:</b>									
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	45,961	6,291
1965.....	574,118	4,001	73,639	114,884	140,602	156,254	40,380	34,354	10,004
1967.....	639,539	5,494	81,680	168,417	130,819	175,990	40,465	37,880	8,794
<b>Natural gas:</b>									
1950.....	6,026	(X)	(X)	1,629	2,672	1,586	-	1,768	-
1955.....	9,070	(X)	(X)	1,153	3,939	2,763	-	2,378	-
1960.....	12,509	(X)	(X)	1,724	5,484	4,123	-	2,902	-
1965.....	16,033	(X)	(X)	2,318	5,099	5,346	-	3,270	-
1967.....	18,173	(X)	(X)	2,743	5,963	6,030	-	3,437	-

- Represents zero. X Not applicable. <sup>1</sup> Excluded from total; includes gas other than natural gas. <sup>2</sup> Includes natural gas component of gas used in gas and electric powerplants.

No. 1032. CEMENT—SUMMARY: 1940 TO 1967

[In thousands of barrels of 376 pounds, except as indicated. 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	1940	1950	1955	1960	1965	1966	1967
<b>Production of finished cement.....</b>	<b>132,751</b>	<b>230,272</b>	<b>314,913</b>	<b>334,130</b>	<b>388,847</b>	<b>401,771</b>	<b>385,848</b>
Portland.....	130,216	226,026	297,453	319,009	371,422	384,632	369,399
Prepared masonry.....	(NA)	(NA)	16,519	14,653	17,146	17,026	16,354
Natural, slag, and hydraulic lime.....	1,2,535	1,4,246	941	568	279	113	95
<b>Active plants, number:</b>							
Portland.....	152	150	157	176	181	184	188
Natural, slag, and hydraulic lime.....	12	9	6	4	4	3	3
<b>Shipments.....</b>	<b>132,864</b>	<b>231,975</b>	<b>310,245</b>	<b>327,087</b>	<b>391,686</b>	<b>397,459</b>	<b>390,271</b>
Value.....\$1,000.....	193,465	545,951	896,888	1,103,680	1,244,869	1,261,083	1,283,133
Per barrel.....dollars.....	1.46	2.35	2.89	3.37	3.18	3.15	3.17
Portland.....	130,350	227,756	292,765	312,292	374,086	380,694	374,017
Prepared masonry.....	(NA)	(NA)	16,526	14,247	17,321	16,656	16,160
Natural, slag, and hydraulic lime.....	1,2,514	1,4,219	954	548	279	109	94
Stocks at mills, Dec. 31 (Portland).....	23,365	13,119	17,539	35,640	33,015	41,297	41,659
Imports.....	538	1,410	5,220	4,108	5,505	7,068	5,913
Exports.....	1,668	2,418	1,795	187	748	1,069	980
World production (est.).....	474,927	781,500	1,274,501	1,856,059	2,541,802	2,722,561	2,813,855

NA Not available. <sup>1</sup> Includes masonry cement from natural, slag, and hydraulic lime plants.

No. 1033. PORTLAND CEMENT—PRODUCTION, BY STATES: 1940 TO 1967

[In thousands of barrels of 376 pounds]

STATE	1940	1950	1955	1960	1965	1966	1967
<b>Total.....</b>	<b>130,217</b>	<b>226,026</b>	<b>297,453</b>	<b>319,009</b>	<b>371,422</b>	<b>384,632</b>	<b>369,399</b>
Alabama.....	5,122	10,372	12,161	11,935	14,089	14,632	13,445
California.....	14,216	26,277	35,449	39,892	45,172	45,322	42,055
Illinois.....	4,975	7,924	8,810	9,270	9,235	9,108	9,608
Iowa.....	4,606	7,416	10,182	12,527	13,575	13,689	13,650
Kansas.....	3,433	8,616	9,219	7,996	8,877	9,174	9,023
Michigan.....	8,603	12,967	18,205	20,971	27,018	28,848	29,862
Missouri.....	4,968	9,778	12,001	12,606	13,975	13,956	14,888
New York and Maine.....	1,8,437	14,196	20,049	20,134	29,622	30,555	26,684
Ohio.....	6,664	10,607	13,966	16,850	14,599	15,755	14,773
Pennsylvania.....	26,853	38,646	46,863	37,170	39,340	42,180	39,410
Tennessee.....	3,808	6,685	8,110	7,926	8,829	8,286	7,947
Texas.....	7,375	17,150	24,241	23,190	30,771	31,487	32,277
Other States <sup>2</sup> .....	31,156	55,392	78,197	98,542	116,320	121,660	115,777

<sup>1</sup> Excludes Maine. <sup>2</sup> Includes Puerto Rico. Excludes Alaska and, prior to 1960, Hawaii.

Source of tables 1031-1033: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

## No. 1034. SAND AND GRAVEL—QUANTITY SOLD AND VALUE: 1940 TO 1967

[Quantities in thousands of short tons; value in thousands of dollars, except as indicated. Prior to 1960, includes Puerto Rico. See *Historical Statistics, Colonial Times to 1967*, series M 183, for total]

ITEM	1940	1950	1955	1960	1965	1967
<b>Total sold or used by producers</b> .....	<b>238,308</b>	<b>370,455</b>	<b>592,153</b>	<b>709,792</b>	<b>908,049</b>	<b>905,162</b>
<b>Use:</b>						
Construction.....	224,956	350,936	562,796	695,542	877,747	874,491
Building.....	68,036	132,873	213,712	230,994	273,586	266,940
Paving.....	143,158	204,242	327,976	388,950	466,081	489,989
Other.....	13,762	13,821	21,108	65,598	138,080	118,562
Industrial sand.....	10,645	17,238	18,594	18,330	25,391	25,323
Miscellaneous gravel.....	2,708	2,281	10,763	5,920	4,911	5,848
<b>Class of operation:</b>						
Commercial <sup>1</sup> .....	131,256	257,556	420,076	522,895	655,884	667,601
Sand <sup>1</sup> .....	63,930	124,982	196,528	234,139	297,413	305,170
Gravel.....	67,326	132,574	223,548	288,756	358,471	362,431
Government-and-contractor.....	107,052	112,899	172,077	186,897	252,165	237,561
Sand.....	14,744	13,918	24,591	31,517	55,822	53,827
Gravel.....	92,308	98,981	147,486	155,380	196,843	183,734
<b>Total value<sup>1</sup>.....</b>	<b>110,688</b>	<b>295,040</b>	<b>536,236</b>	<b>720,432</b>	<b>957,416</b>	<b>980,356</b>
Average per ton.....dollars.....	.46	.80	.91	1.01	1.05	1.08

<sup>1</sup> Prior to 1955, excludes ground sand.

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

## No. 1035. STONE—QUANTITY SOLD OR USED BY PRODUCERS, AND VALUE: 1950 TO 1967

[1950 includes Puerto Rico]

KIND AND USE	QUANTITY SOLD OR USED <sup>1</sup> (1,000 short tons)				VALUE (\$1,000)			
	1950	1960	1965	1967	1950	1960	1965	1967
<b>Total</b> .....	<b>252,425</b>	<b>616,784</b>	<b>780,242</b>	<b>785,592</b>	<b>404,106</b>	<b>952,555</b>	<b>1,203,831</b>	<b>1,240,244</b>
<b>KIND</b>								
Granite.....	21,935	42,748	60,028	63,073	50,697	89,654	121,147	133,664
Basalt and related rocks.....	22,895	57,884	75,529	68,483	34,373	87,699	121,278	116,913
Sandstone <sup>2</sup> .....	9,101	21,013	29,097	27,249	23,787	48,771	61,710	60,494
Marble.....	267	1,644	2,172	2,232	10,932	31,060	38,662	35,245
Limestone <sup>4</sup> .....	180,919	451,253	554,936	569,463	252,756	623,437	765,927	799,887
Other stone.....	16,378	21,493	34,366	30,580	16,514	27,642	45,971	45,208
Shell.....	-	18,934	21,560	22,026	-	33,706	34,314	33,534
Slate.....	930	532	1,263	1,260	15,047	9,233	13,697	14,615
<b>USE</b>								
<b>Dimension stone</b> .....	<b>2,021</b>	<b>2,257</b>	<b>2,403</b>	<b>2,011</b>	<b>65,272</b>	<b>86,009</b>	<b>92,235</b>	<b>95,472</b>
Building stone.....	1,565	1,694	1,750	1,405	43,509	59,360	60,905	61,086
Rough.....	554	578	710	508	6,815	8,965	10,277	11,582
Dressed.....	675	778	633	514	29,850	43,988	43,026	41,918
Rubble.....	247	330	355	338	615	1,743	1,859	1,583
Roofing and millstock slate.....	89	48	52	45	6,229	4,664	5,743	6,003
Monumental.....	237	221	266	238	17,062	19,254	20,902	23,416
Paving blocks.....	4	31	5	6	51	131	109	173
Curbing.....	78	157	157	167	2,430	3,929	4,708	4,956
Flagging.....	137	154	225	194	2,220	3,335	5,111	5,841
<b>Crushed and broken stone</b> .....	<b>250,404</b>	<b>614,527</b>	<b>777,839</b>	<b>783,581</b>	<b>338,834</b>	<b>866,546</b>	<b>1,111,596</b>	<b>1,144,772</b>
Riprap.....	6,898	23,863	38,754	30,637	7,807	32,468	46,038	45,840
Concrete and roadstone.....	146,496	387,084	503,263	521,364	191,534	520,669	690,736	720,320
Railroad ballast.....	18,614	11,158	14,023	13,486	17,520	12,780	17,375	16,277
Furnace flux.....	35,970	31,878	33,025	29,235	37,932	46,312	48,278	45,836
Refractory stone.....	2,158	749	868	819	5,849	6,082	6,780	8,341
<b>Agricultural</b> .....	<b>19,349</b>	<b>22,804</b>	<b>28,531</b>	<b>29,528</b>	<b>30,393</b>	<b>39,260</b>	<b>48,889</b>	<b>52,027</b>
Portland and natural cement (limestone, cement rock, and shell).....	(NA)	85,551	98,635	98,263	(NA)	91,964	105,167	106,416
Lime and dead-burned dolomite.....	(NA)	19,724	26,889	29,415	(NA)	30,850	44,290	50,514
Other uses.....	20,919	31,716	34,051	30,834	47,799	86,161	103,693	99,190

- Represents zero. NA Not available.

<sup>1</sup> Quantities of stone not sold by short tons are expressed in approximate equivalents in short tons.

<sup>2</sup> Includes calcareous marl (1,283,000 tons valued at \$1,353,000 in 1960, 1,291,000 tons valued at \$1,125,000 in 1965, and 1,227,000 tons valued at \$1,084,000 in 1967) excluded in distribution by kind of stone.

<sup>3</sup> Beginning 1960, includes ground sandstone, quartz, and quartzite for abrasives and other uses.

<sup>4</sup> Beginning 1960, includes limestone, cement rock, and dolomite used in making cement, lime, and dead-burned dolomite. <sup>5</sup> Includes 64,000 short tons of slate for miscellaneous use valued at \$2,309,000.

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

## NO. 1036. LIME—QUANTITY SOLD OR USED BY PRODUCERS: 1940 TO 1967

[Quantities in thousands of short tons. Includes Puerto Rico. See also *Historical Statistics, Colonial Times to 1967*, series M 181-182]

ITEM	1940	1950	1955	1960	1965	1967
Active plants..... number.....	314	168	150	157	212	209
Quantity sold or used by producers.....	4,887	7,478	10,490	12,935	16,794	17,974
Value.....\$1,000.....	33,956	83,248	127,144	172,733	232,939	241,137
Per ton.....dollars.....	6.95	11.13	12.13	13.35	13.87	13.42
Open-market lime.....	4,548	7,022	8,930	8,139	10,449	11,461
Captive tonnage lime <sup>1</sup> .....	339	456	1,560	4,746	6,345	6,513
By type: Quicklime.....	2,633	3,834	6,113	8,271	12,009	13,438
Hydrated.....	1,386	1,885	2,233	2,715	2,609	2,656
Dead-burned dolomite.....	868	1,759	2,129	1,949	2,176	1,880
By use: Agricultural.....	365	833	305	187	217	174
Building.....	1,010	1,249	1,310	1,209	1,477	1,433
Chemical and industrial.....	2,644	4,137	6,736	9,591	12,924	14,488
Refractory (dead-burned dolomite).....	868	1,759	2,129	1,949	2,176	1,880

<sup>1</sup> Incomplete; through 1960, only partial coverage of captive plants.Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*, and unpublished data.

## NO. 1037. PHOSPHATE ROCK—SUMMARY: 1950 TO 1967

[Quantities in thousands of short tons]

ITEM	1950	1955	1960	1965	1966	1967
Mine production.....	(NA)	44,432	60,858	84,305	112,960	128,973
P <sub>2</sub> O <sub>5</sub> content.....	(NA)	5,582	9,276	14,320	18,544	19,503
Marketable production.....	12,478	13,737	19,618	29,482	39,044	39,770
P <sub>2</sub> O <sub>5</sub> content.....	3,994	4,353	6,096	9,132	12,112	12,464
Value.....\$1,000.....	63,334	75,379	117,041	193,323	261,092	265,947
Per ton.....dollars.....	5.08	5.49	5.97	6.56	6.69	6.89
Sold or used by producers.....	11,484	14,768	19,266	29,039	36,443	37,835
P <sub>2</sub> O <sub>5</sub> content.....	3,736	4,682	5,994	9,015	11,357	11,855
Value.....\$1,000.....	59,028	82,904	115,363	188,590	245,182	251,163
Per ton.....dollars.....	5.14	5.61	5.99	6.49	6.73	6.64
Imports for consumption <sup>1</sup> .....	97	131	144	148	178	139
Value.....\$1,000.....	<sup>2</sup> 1,114	2,703	3,754	2,980	4,256	3,261
Per ton.....dollars.....	<sup>2</sup> 11.48	20.63	26.07	20.14	23.91	23.52
Exports.....	1,971	2,445	4,473	7,323	9,248	10,072
P <sub>2</sub> O <sub>5</sub> content.....	661	806	1,445	2,313	2,803	3,290
Value.....\$1,000.....	10,365	14,269	26,632	51,109	65,952	69,479
Per ton.....dollars.....	5.26	5.84	5.95	6.98	7.13	6.90
Consumption, apparent <sup>3</sup> .....	9,611	12,454	14,937	21,864	27,373	27,902
World production.....	25,760	33,578	46,110	70,435	83,215	86,969

NA. Not available. <sup>1</sup> Data on P<sub>2</sub>O<sub>5</sub> content not available.<sup>2</sup> Market value (price) at port of shipment.<sup>3</sup> Amount sold or used plus imports minus exports.

## NO. 1038. POTASH—SUMMARY: 1950 TO 1967

[Quantities in thousands of short tons]

ITEM	1950	1955	1960	1965	1967
Production of potassium salts (marketable).....	2,243	3,514	4,472	5,401	5,649
Approximate equivalent K <sub>2</sub> O.....	1,288	2,067	2,638	3,140	3,299
Value <sup>1</sup> .....\$1,000.....	45,349	78,802	89,676	129,767	105,313
Sales of potassium salts by producers.....	2,222	3,405	4,412	5,027	5,363
Approximate equivalent K <sub>2</sub> O.....	1,276	2,006	2,602	2,931	3,126
Value at plant.....\$1,000.....	44,938	76,176	88,417	121,161	100,566
Per ton.....dollars.....	20.22	22.37	20.04	24.10	18.75
Imports for consumption of potash materials.....	381	331	415	1,867	2,925
Approximate equivalent K <sub>2</sub> O.....	201	178	226	1,108	1,706
Value.....\$1,000.....	13,994	11,769	15,370	52,675	73,491
Exports of potash materials.....	117	229	833	1,099	1,175
Approximate equivalent K <sub>2</sub> O.....	65	130	481	648	693
Value.....\$1,000.....	5,534	9,203	25,926	42,494	39,896
Apparent consumption of potassium salts <sup>2</sup> .....	2,486	3,507	3,994	5,795	7,113
Approximate equivalent K <sub>2</sub> O.....	1,412	2,054	2,337	3,391	4,139
World production (marketable), approximate equivalent K <sub>2</sub> O.....	5,300	8,000	10,000	15,200	16,900

<sup>1</sup> Derived from reported value of amount sold or used. <sup>2</sup> Amount sold or used plus imports minus exports.Source of tables 1037 and 1038: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

## No. 1039. GYPSUM—SUMMARY: 1945 to 1968

[Quantities in thousands of short tons; values in thousands of dollars. Excludes Alaska, Hawaii, Puerto Rico, except for imports and exports. See *Historical Statistics, Colonial Times to 1967*, series M 180, gypsum mined]

ITEM	1945	1950	1955	1960	1965	1967	1968
Active establishments <sup>1</sup> .....	75	87	83	96	113	113	112
<b>Crude gypsum:</b> <sup>2</sup>							
Mined.....	3,812	8,193	10,684	9,825	10,033	9,393	10,018
Imports for consumption.....	509	3,219	3,977	5,301	5,911	4,722	5,454
Apparent supply.....	4,320	11,412	14,661	15,126	15,944	14,115	15,472
<b>Calcined gypsum produced:</b>							
Value.....	<sup>3</sup> 2,485	7,341	8,848	8,591	9,320	7,879	8,844
Value.....	<sup>3</sup> 14,474	60,480	88,576	120,984	133,028	115,467	133,239
<b>Gypsum products sold, total value<sup>4</sup>:</b>							
Uncalcined uses, quantity.....	60,149	205,383	319,323	361,190	419,620	362,268	404,739
Value.....	1,148	2,218	2,938	3,716	4,577	4,511	4,985
Industrial uses, quantity.....	3,433	7,912	11,435	15,486	20,313	20,882	23,145
Value.....	158	265	299	284	319	293	301
Building uses, value.....	2,326	4,530	6,387	6,362	8,281	8,288	8,914
Value.....	54,390	192,940	301,551	339,342	391,026	338,098	372,680

<sup>1</sup> Each mine, plant, or combination mine and plant is counted as 1 establishment.

<sup>2</sup> Excludes byproduct gypsum. <sup>3</sup> Includes production from small quantity of byproduct gypsum.

<sup>4</sup> Made from domestic, imported, and byproduct gypsum.

## No. 1040. SULFUR—SUMMARY: 1940 TO 1968

[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	1965	1967	1968
<b>Production, sulfur, all forms<sup>1</sup>:</b>							
Sulfur from Frasch mines.....	3,227	5,986	7,027	6,661	8,212	9,136	9,817
Recovered elemental sulfur (sulfur content).....	2,732	5,192	5,739	4,943	6,116	7,014	7,458
Pyrites (gross weight).....	4	142	399	767	1,215	1,268	1,354
Sulfur content.....	627	931	1,007	1,016	875	861	872
Value.....	262	393	410	416	354	355	362
Byproduct sulfuric acid <sup>2</sup> (sulfur content).....	1,920	4,059	8,391	7,936	5,333	7,943	(D)
Value.....	213	216	325	345	388	364	430
Shipments, Frasch mines.....	2,559	5,505	5,839	5,003	7,251	7,682	6,645
Approximate value.....	40,900	104,000	163,156	115,494	164,654	251,670	268,146
Average value per long ton.....	\$15.98	\$18.89	\$27.94	\$23.08	\$22.71	\$32.76	\$40.35
<b>Imports for consumption:</b>							
Sulfur, ore and other (gross weight).....	28	(Z)	35	741	1,486	1,474	1,572
Pyrites (gross weight).....	407	209	80	306	1,660	165	150
<b>Exports, sulfur.....</b>	766	1,479	1,636	1,787	2,635	2,193	1,602

D Withheld to avoid disclosure of individual company data. Z Less than 500 tons.

<sup>1</sup> Includes other byproduct sulfur compounds, not shown separately. <sup>2</sup> Produced at copper, lead, and zinc plants.

## No. 1041. SALT—SUMMARY, BY STATES AND BY KIND: 1940 TO 1968

[Quantities in thousands of short tons. Includes 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	1965	1967	1968
<b>Production<sup>1</sup>:</b>	10,360	16,630	22,704	25,479	34,687	38,946	41,274
California.....	469	868	1,315	1,443	1,638	1,732	1,901
Kansas <sup>2</sup> .....	684	846	911	1,213	1,053	1,069	1,128
Louisiana.....	1,133	2,279	3,563	4,792	8,126	9,585	10,908
Michigan.....	2,863	4,447	4,975	4,088	4,171	4,789	4,893
New York.....	2,118	2,807	3,780	4,008	5,002	5,320	5,218
Ohio.....	2,080	2,515	2,905	3,108	5,026	5,407	5,713
Texas.....	402	1,852	3,583	4,756	6,964	8,344	8,534
West Virginia.....	144	368	638	920	1,153	1,127	1,308
Other States.....	466	648	1,035	1,151	1,554	1,573	1,671
Evaporated (manufactured).....	2,783	3,329	3,987	4,104	4,025	5,289	5,522
In brine.....	5,312	9,373	13,424	14,911	19,952	21,996	23,291
Rock salt.....	2,266	3,927	5,293	6,466	9,810	11,661	12,461
Total value <sup>3</sup> .....\$1,000.....	26,475	59,911	123,389	161,140	215,699	251,210	272,275
<b>Exports.....</b>	147	190	407	420	688	678	728
<b>Imports for consumption.....</b>	30	8	186	1,057	2,410	2,843	3,456

<sup>1</sup> Represents sales plus quantities used by producers.

<sup>2</sup> Brine included in "Other States." <sup>3</sup> F.o.b. mine or refinery; excludes cost of cooerage or containers.

Source of tables 1039-1041: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

No. 1042. IRON ORE—SUMMARY: 1940 TO 1968

[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	1940	1950	1955	1960	1965	1967	1968 (prel.)
<b>Production</b> .....	<b>73,696</b>	<b>98,045</b>	<b>103,003</b>	<b>88,784</b>	<b>87,439</b>	<b>84,179</b>	<b>85,860</b>
<b>By district:</b>							
Lake Superior.....	61,471	79,627	83,255	71,792	66,432	64,229	65,699
Southeastern.....	<sup>1</sup> 7,444	7,508	7,106	4,365	1,964	1,889	1,846
Northeastern.....	3,560	4,475	4,650	4,125	5,173	4,197	3,965
Western.....	<sup>1</sup> 1,221	5,861	6,958	4,583	<sup>2</sup> 13,065	<sup>2</sup> 13,092	<sup>2</sup> 13,632
Byproduct ore.....	(NA)	<sup>2</sup> 575	<sup>2</sup> 1,034	<sup>2</sup> 3,918	805	772	718
<b>By type of ore:</b>							
Hematite <sup>3</sup> .....	68,870	87,156	92,958	<sup>24</sup> 68,147	47,043	40,991	(NA)
Brown ore <sup>3</sup> .....	935	2,615	2,401	1,641	2,664	1,760	(NA)
Magnetite <sup>3</sup> .....	3,891	7,699	6,550	18,205	36,927	40,666	(NA)
Byproduct ore <sup>6</sup> .....	1	<sup>2</sup> 575	<sup>2</sup> 1,034	791	805	772	718
Number of mines.....	230	247	305	247	183	131	(NA)
Shipments <sup>6</sup> .....	75,198	97,764	106,258	82,963	84,079	82,415	83,058
Value <sup>6</sup> .....\$1,000.....	189,087	487,990	756,853	724,131	801,388	817,511	842,917
Average value per ton at mine.....	\$2.51	\$4.99	\$7.12	\$8.73	\$9.63	\$9.92	\$10.15
Stocks at mines, Dec. 31.....	3,614	5,726	4,281	12,337	12,667	13,130	13,202
<b>Imports for consumption</b> .....	<b>2,479</b>	<b>8,281</b>	<b>23,472</b>	<b>34,578</b>	<b>45,103</b>	<b>44,627</b>	<b>43,941</b>
Value.....\$1,000.....	6,205	43,968	177,457	321,919	443,788	444,079	453,753
<b>Exports</b> .....	<b>1,388</b>	<b>2,551</b>	<b>4,517</b>	<b>5,273</b>	<b>7,085</b>	<b>5,944</b>	<b>5,884</b>
Value.....\$1,000.....	4,625	15,717	36,993	57,899	80,418	71,585	70,835
World production (estimate).....	208,700	247,000	363,421	513,926	607,269	618,308	(NA)

NA Not available. <sup>1</sup> Texas included with Southeastern district. <sup>2</sup> Includes undistributed.

<sup>3</sup> Predominant mineral.

<sup>4</sup> Includes brown ore from Tenn., Mo., and Texas; also magnetite from Calif., Utah, and Wyo.

<sup>5</sup> For 1940, carbonate ore; thereafter, pyrites, cinder and sinter.

<sup>6</sup> Beginning 1960, excludes byproduct ore except shipments for 1965, 1966, and 1967.

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

No. 1043. PIG IRON AND FERROALLOYS—SUMMARY: 1945 TO 1968

[In thousands of short tons, except furnaces. See *Historical Statistics, Colonial Times to 1957*, series P 233]

ITEM	1945	1950	1955	1960	1965	1966	1967	1968
<b>Blast furnaces, total number,</b>								
Jan. 1.....	243	248	261	263	239	236	232	230
Number in blast, Jan. 1.....	218	218	206	229	191	151	164	173
<b>Blast furnace production</b> .....	<b>54,166</b>	<b>65,440</b>	<b>77,790</b>	<b>67,320</b>	<b>88,859</b>	<b>92,150</b>	<b>87,647</b>	<b>89,333</b>
Pig iron.....	53,223	64,587	76,858	66,481	88,185	91,500	86,984	88,780
Ferroalloys.....	943	853	932	839	674	650	663	553
<b>Electric furnace production, ferroalloys</b> .....	<b>753</b>	<b>960</b>	<b>1,474</b>	<b>1,246</b>	<b>2,059</b>	<b>1,853</b>	<b>1,825</b>	<b>2,029</b>
<b>Total production</b> .....	<b>54,919</b>	<b>66,400</b>	<b>79,264</b>	<b>68,566</b>	<b>90,918</b>	<b>94,003</b>	<b>89,472</b>	<b>91,362</b>
<b>Basic</b> .....	<b>39,867</b>	<b>49,880</b>	<b>62,485</b>	<b>58,261</b>	<b>80,431</b>	<b>83,473</b>	<b>81,344</b>	<b>83,396</b>
Bessemer and low-phosphorus.....	3,570	8,428	7,699	3,791	2,936	3,091	1,888	1,606
Foundry (incl. ferrosilicon) <sup>1</sup> .....	3,067	3,646	3,558	2,152	2,303	2,192	2,078	2,081
Malleable.....	2,350	3,181	3,581	2,673	2,806	2,848	1,830	1,804
<b>Ferromanganese and spiegel-</b>								
<b>eisen</b> .....	<b>706</b>	<b>777</b>	<b>955</b>	<b>878</b>	<b>1,009</b>	<b>913</b>	<b>943</b>	<b>901</b>
All other <sup>1</sup> .....	360	490	1,035	811	1,433	1,486	1,389	1,574
<b>Materials used:</b> <sup>2</sup>								
Iron and manganese ore <sup>3</sup> .....	91,276	112,156	127,763	104,608	133,470	140,572	135,649	142,789
Mill cinder, scrap, scale, etc.....	9,749	10,731	15,210	9,034	11,272	9,488	8,885	8,206
Coke.....	48,965	59,549	67,061	49,772	57,880	58,620	54,917	55,378
Limestone, dolomite, etc.....	20,863	27,708	29,744	15,868	17,942	16,585	14,422	12,882
<b>Production of pig iron:</b>								
Alabama.....	3,582	4,347	4,924	3,541	4,290	4,389	4,290	4,378
Colorado, Utah, California.....	1,042	2,653	3,561	3,735	4,877	4,897	4,756	4,915
Illinois.....	5,045	6,024	6,439	5,307	6,294	6,639	6,309	6,205
Indiana.....	5,982	7,018	8,717	8,404	11,020	11,955	12,167	12,475
Kentucky, Tennessee, Texas.....	808	1,460	1,713	7,987	10,875	11,119	10,824	10,765
Maryland, West Virginia.....	3,519	5,203	6,094	4,981	7,533	7,932	7,439	7,317
Michigan, Minnesota.....	1,921	2,830	4,002	4,002	6,100	6,488	6,172	5,910
New York <sup>4</sup> .....	3,295	4,302	5,144	4,205	5,407	16,406	14,485	15,798
Ohio.....	11,259	12,510	15,370	11,788	15,407	21,675	20,542	21,017
Pennsylvania.....	16,171	18,240	20,844	16,533	21,789			

<sup>1</sup> Prior to 1965, silvery pig iron included in "Foundry"; thereafter, in "All other."

<sup>2</sup> Materials consumed in manufacture of pig iron only. <sup>3</sup> Includes agglomerated products.

<sup>4</sup> Includes Massachusetts through 1955.

Source: American Iron and Steel Institute, New York, N.Y.; *Annual Statistical Report*. (Copyright.)

## No. 1044. MANGANESE ORE AND FERROMANGANESE—SUMMARY: 1940 TO 1968

[Gross weight in thousands of short tons. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See *Historical Statistics, Colonial Times to 1967*, series M 211, for mine shipments]

ITEM	1940	1950	1955	1960	1965	1967	1968
<b>Manganese ore (35 percent or more Mn):</b>							
Mine shipments.....	45	134	287	80	29	13	11
General imports.....	1,450	1,835	2,078	2,544	2,875	2,064	1,828
Consumption.....	(NA)	1,650	2,110	1,946	2,873	2,383	2,241
World production (estimate).....	6,238	6,200	11,920	14,989	19,425	18,650	(NA)
<b>Ferromanganese:</b>							
Domestic production.....	515	720	870	843	1,148	941	(NA)
Imports for consumption.....	12	110	65	120	257	216	208
Exports.....	115	1	2	1	3	2	4
Consumption.....	(NA)	775	934	800	1,041	982	(NA)

NA Not available. <sup>1</sup> Includes spiegeleisen.

## No. 1045. CHROMITE—SUMMARY: 1940 TO 1968

[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 1967*, series M 213-214]

ITEM	1940	1950	1955	1960	1965	1967	1968
<b>Total supply.....</b>	740	1,455	1,987	1,587	1,694	1,349	1,386
Domestic production (shipments) <sup>1</sup> .....	3	-	153	<sup>2</sup> 107	(X)	(X)	(X)
Value <sup>1</sup> .....	29	-	6,644	3,813	(X)	(X)	(X)
Imports for consumption.....	737	1,904	1,834	1,387	1,518	1,240	1,084
Value.....	8,755	23,299	38,063	24,313	25,239	21,854	18,188
Change in stocks.....	-	151	-	93	176	109	302
Exports.....	( <sup>3</sup> )	2	1	5	7	8	13
Consumption by industry.....	563	980	1,584	1,220	1,584	1,355	1,390
Stocks (consumer), Dec. 31.....	(NA)	606	(NA)	<sup>4</sup> 1,707	1,111	1,197	895
World production (estimate).....	1,600	2,600	4,020	4,885	5,348	5,111	(NA)

- Represents zero. NA Not available. X Not applicable.

<sup>1</sup> Domestic chromite mining inactive since 1961. <sup>2</sup> Produced for Federal Government only.

<sup>3</sup> Not available or Bureau of Mines not at liberty to publish.

<sup>4</sup> Includes stocks at locations other than consumer plants.

## No. 1046. TUNGSTEN—SUMMARY: 1940 TO 1968

[Excludes Hawaii and, beginning 1955, Alaska. See also *Historical Statistics, Colonial Times to 1967*, series M 215-216]

ITEM	1940	1950	1955	1960	1965	1967	1968 (prel.)
<b>Production:</b>							
Concentrates, 60% WO <sub>3</sub> basis.....short tons..	5,120	4,166	16,636	7,007	(D)	9,719	8,670
Tungsten content.....1,000 lb..	4,873	3,965	15,833	6,669	(D)	9,250	8,250
<b>Shipments from mines:</b>							
Concentrates, 60% WO <sub>3</sub> basis.....short tons..	5,319	4,820	16,412	7,325	7,949	9,088	8,080
Tungsten content.....1,000 lb..	5,062	4,588	15,619	6,972	7,566	8,649	7,700
Reported value f.o.b. mines.....\$1,000..	6,576	8,171	60,841	9,815	13,028	20,895	17,000
Average per pound of tungsten.....dollars..	1.30	1.78	3.90	1.40	1.72	2.42	2.40
<b>Imports (tungsten content):</b>							
General.....1,000 lb..	9,666	8,342	20,789	5,178	3,495	2,004	1,790
For consumption.....1,000 lb..	5,611	16,147	20,700	3,525	3,618	1,699	1,695
Consumption (tungsten content).....1,000 lb..	9,955	6,597	8,967	11,605	13,868	13,860	11,038
Stocks (tungsten content) <sup>1</sup> .....1,000 lb..	2,897	5,337	4,025	5,545	1,845	2,109	1,600
World production (estimate) <sup>2</sup> .....short tons..	48,100	42,300	82,900	72,200	63,197	65,000	67,000

D Withheld to avoid disclosure of individual company data.

<sup>1</sup> Producers, consumers, and dealers, end of year.

<sup>2</sup> Concentrates, 60 percent WO<sub>3</sub> basis.

Source of tables 1044-1046: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

No. 1047. NICKEL—SUMMARY: 1940 TO 1968

[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	1940	1950	1955	1960	1965	1967	1968 (prel.)
Mine production.....	-	-	4,411	14,079	16,188	15,287	16,700
Plant production:							
Primary.....	554	913	3,807	14,303	13,510	14,615	14,050
Secondary.....	4,152	8,795	11,640	9,431	19,407	20,731	25,000
Imports for consumption (estimated nickel content) <sup>1</sup> .....	83,760	91,347	142,000	103,000	163,000	143,000	150,000
Exports (gross weight) <sup>2</sup> .....	11,994	3,645	20,601	54,109	20,935	31,537	32,000
Consumption.....	(NA)	99,989	110,100	108,159	172,084	173,798	170,000
Stocks (consumer), Dec. 31.....	(NA)	5,907	9,001	11,369	14,047	30,907	25,000
Price per pound <sup>3</sup> ..... cents.....	35	40-50.5	64.5	74	79-77.75	85.25-94	94
World production (estimate).....	144,800	162,000	263,000	353,000	468,000	481,000	553,000

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

No. 1048. MOLYBDENUM CONCENTRATES—SUMMARY: 1940 TO 1968

[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	1940	1950	1955	1960	1965	1967	1968
Production.....	34,313	28,480	61,781	68,237	77,372	90,087	93,477
Shipments from mines.....	25,329	44,544	64,709	69,941	77,310	81,596	83,245
Average price per pound <sup>2</sup> ..... dollars.....	.75	.91	1.05	1.25	1.55	1.62	1.62
Exports <sup>3</sup> .....	6,585	6,235	14,580	30,244	24,096	30,000	29,006
Imports for consumption.....	-	3	134	-	142	1,179	1
Consumption.....	(NA)	26,029	38,799	44,784	68,112	88,907	75,647
Stocks (industry), Dec. 31 <sup>4</sup> .....	(NA)	4,326	2,730	3,481	4,208	9,919	12,208
World production (estimate).....	38,300	32,000	75,000	89,100	98,531	126,417	126,673

- Represents zero. NA Not available. <sup>1</sup> Preliminary.  
<sup>2</sup> Per pound of molybdenum contained. Source: *Engineering and Mining Journal*.  
<sup>3</sup> Includes roasted concentrates. <sup>4</sup> At mines and at plants making molybdenum products. <sup>5</sup> Free world.

No. 1049. GOLD AND SILVER—SUMMARY: 1940 TO 1968

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

ITEM	1940	1950	1955	1960	1965	1967	1968 (prel.)
Mine production:							
Gold.....1,000 fine ounces..	4,870	2,394	1,880	1,667	1,705	1,584	1,533
Silver.....1,000 fine ounces..	70,436	42,459	37,198	30,766	39,806	32,119	32,437
Value of production:							
Gold.....\$1,000.....	170,448	83,798	65,805	58,337	59,682	55,447	60,193
Silver.....\$1,000.....	50,088	38,425	33,666	27,846	51,469	49,784	69,577
Ore (dry and siliceous) produced: <sup>1</sup>							
Gold ore.....1,000 short tons..	16,550	3,584	2,234	2,267	3,113	3,076	(NA)
Gold-silver ore.....1,000 short tons..	945	433	120	347	206	157	(NA)
Silver ore.....1,000 short tons..	1,201	627	570	641	902	904	(NA)
Net industrial consumption:							
Gold.....\$1,000.....	13,306	97,846	45,500	105,000	184,660	220,290	(NA)
Silver.....1,000 fine ounces..	44,499	110,000	101,400	102,000	137,000	171,032	145,293
Imports: <sup>2</sup>							
Gold.....\$1,000.....	4,226,225	162,744	104,420	335,032	101,669	32,547	226,262
Silver.....\$1,000.....	57,986	79,473	71,168	83,961	62,903	77,089	143,484
Exports: <sup>2</sup>							
Gold.....\$1,000.....	1,120	514,283	6,953	1,647	1,285,097	1,005,199	839,160
Silver.....\$1,000.....	3,347	3,563	4,441	26,593	51,424	95,960	251,046
Price, average per fine ounce: <sup>3</sup>							
Gold.....dollars.....	35.00	35.00	35.00	35.00	35.00	35.00	39.26
Silver.....dollars.....	.711	.905+	.905+	.905+	1.293	1.550	2.145
World production (estimate):							
Gold.....1,000 fine ounces..	42,300	32,700	36,300	38,200	46,200	44,600	44,600
Silver.....1,000 fine ounces..	275,400	203,300	224,000	241,300	256,400	260,800	(NA)

NA Not available.  
<sup>1</sup> Gold and silver are also produced from base-metal ores and placers. In 1967, dry and siliceous ores accounted for 89 percent of gold produced and 39 percent of silver. <sup>2</sup> Excludes coinage.  
<sup>3</sup> Treasury buying price, except New York price, for silver, beginning 1965. <sup>4</sup> Preliminary.  
 Source of tables 1047-1049: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

## No. 1050. GOLD AND SILVER—PRODUCTION, BY STATES: 1940 TO 1967

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

STATE	GOLD					SILVER				
	1940	1950	1960	1965	1967	1940	1950	1960	1965	1967
Total.....	4,863	2,289	1,680	1,676	1,526	68,287	42,309	36,800	39,000	31,000
Alaska.....	757	276	173	43	24	173	50	27	7	3
Arizona.....	299	111	158	154	82	6,130	5,089	5,338	6,100	4,000
California.....	1,444	410	125	61	40	2,225	1,000	188	177	125
Colorado.....	369	124	68	39	20	9,378	3,343	2,070	2,003	1,600
Idaho.....	145	69	6	5	4	17,477	15,903	17,814	18,100	15,000
Michigan.....	-	-	-	-	-	90	(Z)	6	1,844	275
Missouri.....	-	-	-	-	-	145	233	81	80	273
Montana.....	273	57	46	26	15	12,152	7,178	3,970	5,100	3,900
Nevada.....	380	170	66	205	420	5,102	1,634	703	350	529
New Mexico.....	39	7	5	10	4	1,576	365	315	283	171
Oregon.....	114	10	1	(Z)	(Z)	192	12	(Z)	4	1
South Dakota.....	587	572	551	656	618	171	143	109	131	121
Tennessee.....	(Z)	(Z)	(Z)	(Z)	(Z)	39	26	123	138	150
Texas.....	(Z)	(Z)	-	-	-	1,295	4	-	3	1
Utah.....	352	392	314	389	260	11,686	6,799	5,132	5,241	5,550
Washington.....	84	89	163	88	41	389	358	696	355	158
Other States.....	19	2	3	-	-	66	82	229	84	43

- Represents zero. Z Less than 500 ounces.

<sup>1</sup> Includes an accumulation of silver recovered from lake copper (i.e. copper from underground mines located in the Great Lakes region); actual years of mine production unknown.Source: Treasury Dept., Bureau of the Mint; *Annual Report of the Director*.

## No. 1051. COPPER—SUMMARY: 1951 TO 1968

[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 1967*, series M 225-231]

ITEM	1951-1955 (avg.)	1955	1960	1965	1967	1968 (prel.)
New (primary) copper produced—						
From domestic ores, as reported by—						
Mines.....	923	999	1,080	1,352	954	1,199
Copper ore produced.....	100,542	112,550	134,994	173,286	127,066	(N.A.)
Average yield of copper..... percent.....	0.85	0.83	0.73	0.70	0.63	(N.A.)
Smelters.....	929	1,007	1,143	1,403	841	1,234
Percent of world total.....	28	28	23	23	14	21
Refineries.....	929	997	1,121	1,336	847	1,162
From foreign ores, matte, etc., refinery reports.....	317	345	398	376	286	273
Total new refined, domestic and foreign.....	1,246	1,342	1,519	1,712	1,133	1,435
Secondary copper produced.....	925	989	871	1,253	1,160	1,209
Recovered from old scrap only.....	445	515	429	513	483	521
Imports (unmanufactured) <sup>2</sup> .....	595	594	524	523	649	681
Refined.....	255	202	143	137	330	401
Exports of metallic copper <sup>3</sup> .....	224	260	510	379	200	275
Refined (ingots and bars).....	167	200	434	325	159	218
Stocks (producers), Dec. 31.....	230	235	359	281	247	320
Refined copper.....	34	34	98	35	27	43
Blister and materials in solution.....	196	201	261	246	220	272
Withdrawals (apparent) from total supply on domestic account:						
Primary copper.....	1,333	1,336	1,148	1,526	1,320	1,576
Primary and old copper (old scrap only).....	1,779	1,851	1,577	2,039	1,803	1,710
Average price <sup>4</sup> ..... cents per pound.....	28.8	37.3	32.1	35.4	38.2	41.8
World smelter production, new copper.....	3,280	3,630	5,040	6,078	5,850	(N.A.)

NA Not available.

<sup>1</sup> Includes old tailings, smelted or retreated. Not comparable with mine production figures, which include recoverable copper content of ores not classified as "copper."<sup>2</sup> Includes 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.<sup>3</sup> Total exports of copper, excluding ore, concentrates, composition metal, and unrefined copper. Also excludes "Other copper manufactures," for which quantity not recorded before 1953. Beginning 1960, data not strictly comparable with earlier years due to changes in classification.<sup>4</sup> Excludes copper produced abroad and delivered in the United States.Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

## No. 1052. COPPER—MINE PRODUCTION, BY STATES: 1940 TO 1968

[In short tons of recoverable copper]

STATE	1940	1950	1955	1960	1965	1967	1968 (prel.)
<b>Total</b> .....	878, 086	909, 343	998, 570	1, 080, 169	1, 351, 734	954, 064	1, 199, 290
Arizona.....	281, 169	403, 301	454, 105	538, 605	703, 377	501, 741	631, 300
California.....	6, 438	646	613	1, 087	1, 155	788	925
Colorado.....	12, 152	3, 141	4, 323	3, 247	3, 828	3, 998	3, 600
Idaho.....	3, 349	2, 107	5, 618	4, 208	5, 140	4, 210	3, 382
Michigan.....	45, 198	25, 608	50, 066	56, 385	71, 749	58, 458	74, 950
Montana.....	126, 391	54, 478	81, 542	91, 972	115, 489	65, 483	64, 862
Nevada.....	78, 454	52, 569	78, 925	77, 485	71, 332	50, 771	72, 870
New Mexico.....	69, 848	66, 300	66, 417	67, 288	98, 658	75, 008	92, 300
Pennsylvania.....	( <sup>1</sup> )	4, 142	4, 110	27, 907	4, 354	4, 401	4, 105
Tennessee.....	<sup>1</sup> 12, 732	6, 851	9, 011	12, 723	14, 823	14, 600	14, 000
Utah.....	231, 864	278, 630	232, 949	218, 049	259, 138	168, 609	228, 300
Washington.....	9, 612	5, 057	3, 058	78	30	21	8, 696
Other States.....	879	6, 813	6, 033	1, 135	2, 651	5, 981	

<sup>1</sup> North Carolina and Pennsylvania included in Tennessee.<sup>2</sup> Includes North Carolina.Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

## No. 1053. ZINC—PRODUCTION AND PRICES: 1940 TO 1967

[Quantities in thousands of short tons. Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1967*, series M 239-240, for production]

ITEM	1940	1950	1955	1960	1965	1966	1967
<b>Smelter production of primary slab zinc</b> <sup>1</sup> .....	675	843	964	800	994	1, 025	939
Value.....\$1,000.....	85, 085	240, 051	236, 829	205, 476	290, 768	301, 164	262, 121
Source:							
From domestic ores.....	590	588	583	334	551	524	439
From foreign ores.....	85	255	381	465	443	501	500
Method:							
Electrolytic.....percent of total.....	28	41	40	40	41	42	40
Distilled.....percent of total.....	72	59	60	60	59	58	60
Production of redistilled secondary slab zinc.....	49	67	66	69	84	83	74
Average price of common zinc at—							
East St. Louis.....cents per pound.....	6.34	13.88	12.30	12.95	14.50	14.50	13.85
London <sup>2</sup> .....cents per pound.....	(NA)	14.89	11.30	11.05	14.12	12.75	12.37
<b>Mine production of recoverable zinc</b> .....	665	623	515	435	611	573	549
Arizona.....	15	60	23	36	22	16	14
Colorado.....	5	46	35	31	54	55	52
Idaho.....	71	88	53	37	58	61	57
Illinois.....	5	27	22	30	18	15	20
Kansas.....	57	27	28	2	7	5	5
Montana.....	53	68	69	13	34	29	3
New Jersey.....	91	55	12	—	38	25	26
New Mexico.....	30	29	15	14	36	29	21
New York.....	36	38	53	66	70	74	71
Oklahoma.....	163	47	42	2	13	11	11
Pennsylvania.....	—	—	—	14	28	28	35
Tennessee.....	35	35	40	91	122	103	113
Utah.....	44	32	44	35	28	37	34
Virginia.....	17	12	18	20	20	18	19
Washington.....	11	15	29	21	22	25	22
Wisconsin.....	6	6	18	18	27	25	29
Other States <sup>3</sup> .....	26	38	14	5	14	17	17
World smelter production (estimate).....	1, 786	2, 170	2, 930	3, 335	4, 354	4, 563	4, 233

— Represents zero. NA Not available.

<sup>1</sup> Beginning 1960, includes production of zinc used directly in alloying operations.<sup>2</sup> Average price for foreign zinc, based on average rates of exchange recorded by Federal Reserve Board.<sup>3</sup> Includes Alaska.Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

No. 1054. LEAD—SUMMARY: 1940 TO 1968

[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 1867*, series M 232-238]

ITEM	1940	1950	1955	1960	1965	1967	1968 (prel.)
<b>Smelter production of refined primary lead</b> .....	533,179	508,314	479,157	382,436	418,249	379,894	467,310
From domestic ores and base bullion <sup>1</sup> .....	433,065	418,809	321,132	228,899	305,007	258,507	349,039
From foreign ores and base bullion.....	100,114	89,505	158,025	153,537	113,242	121,387	118,271
Recovery of secondary lead.....	260,346	482,275	502,051	469,903	575,819	553,772	550,879
<b>Imports, general:</b>							
Lead in pigs, bars, and old.....	151,568	461,827	284,729	213,671	226,883	373,887	338,119
Lead in base bullion.....	19,624	3,488	-	293	566	752	95
Lead in ores and matte.....	111,300	76,520	177,479	145,692	122,661	124,067	87,485
Exports of refined pig lead <sup>2</sup> .....	23,755	2,735	403	1,967	7,811	6,536	8,281
<b>Stocks, Dec. 31 (lead content):</b>							
At primary smelters and refineries.....	(NA)	(NA)	(NA)	250,142	83,443	125,479	90,427
At consumer plants.....	(NA)	(NA)	(NA)	97,268	109,195	105,786	89,774
<b>Consumption of metal, primary and secondary</b> .....	3 782	1,238	1,213	1,021	1,241	1,261	1,318
<b>Average price, common lead:</b>							
New York.....cents per pound..	5.18	13.30	15.14	11.95	16.00	14.00	13.21
London.....cents per pound..	(4)	13.29	12.19	9.04	14.37	10.28	10.88
<b>Mine production of recoverable lead</b> <sup>3</sup> .....	457,392	430,827	338,025	246,669	301,147	316,931	354,200
Value <sup>5</sup> .....\$1,000..	(NA)	(NA)	(NA)	57,722	93,959	88,741	94,903
<b>World smelter production (est.)</b> .....							(NA)
1,000 short tons.....	1,936	1,850	2,250	2,550	2,881	3,076	(NA)

- Represents zero. NA Not available. <sup>1</sup> Excludes lead content of antimonial lead. <sup>2</sup> Pigs, bars, and anodes. <sup>3</sup> Source: Estimated by American Bureau of Metal Statistics. <sup>4</sup> Official maximum price fixed by British Ministry of Supply at £25 per long ton. London Metal Exchange dealings suspended for duration of war. <sup>5</sup> Includes Alaska.

No. 1055. LEAD, RECOVERABLE—MINE PRODUCTION, BY STATES: 1940 TO 1968  
[In short tons]

STATE	1940	1950	1955	1960	1965	1967	1968 (prel.)
<b>Total</b> .....	457,392	430,827	338,025	246,669	301,147	316,931	354,200
Arizona.....	13,266	26,383	9,817	8,495	5,913	4,771	1,900
Colorado.....	11,476	27,007	15,805	18,080	22,495	21,923	20,300
Idaho.....	104,834	100,025	64,163	42,907	66,606	61,887	49,684
Illinois.....	1,508	2,729	4,544	3,000	3,005	2,384	1,480
Missouri.....	172,052	134,626	125,412	111,948	133,521	152,649	210,800
Montana.....	23,036	19,617	17,028	4,879	6,981	898	1,890
Oklahoma.....	21,240	20,724	14,126	936	2,813	2,727	(1)
Utah.....	75,688	44,753	50,452	39,398	37,700	55,513	47,275
Virginia <sup>2</sup> .....	4,831	4,851	4,036	2,152	3,651	3,480	3,484
Washington.....	2,555	10,334	10,340	7,725	6,328	2,762	(1)
Other States.....	26,906	39,778	22,302	7,149	12,134	10,187	17,329

<sup>1</sup> Included in "Other States." <sup>2</sup> New York and Tennessee included with Virginia for 1940-1955.

No. 1056. TIN—SUMMARY: 1940 TO 1968

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

ITEM	1940	1950	1955	1960	1965	1967	1968 (prel.)
<b>Production:</b>							
Domestic mines.....	49	94	99	10	47	(D)	(D)
Domestic smelters <sup>1</sup> .....	1,391	33,118	22,329	(D)	3,098	3,048	3,356
Secondary sources.....	29,700	31,680	28,340	22,050	25,076	22,667	22,816
<b>Imports for consumption:</b>							
Metal.....	124,810	82,838	64,815	39,538	40,816	50,223	57,358
Ore (tin content).....	3,000	25,960	20,112	14,026	4,326	3,255	3,266
Exports (domestic and foreign).....	2 2,664	799	1,107	857	2,829	2,479	5,027
Monthly price of Straits tin at New York, average cents per pound <sup>3</sup> .....	49.82	95.56	94.73	101.40	178.17	153.41	148.11
Consumption.....	97,154	104,464	90,483	80,560	84,011	80,646	82,969
<b>World mine production (estimate)</b> <sup>4</sup> .....	238,300	169,300	197,200	180,400	201,400	211,700	(NA)

D Withheld to avoid disclosure of individual company data. NA Not available. <sup>1</sup> Includes tin content of ores used to make alloys. <sup>2</sup> Foreign only; domestic not separately recorded. <sup>3</sup> Source: *American Metal Market*. <sup>4</sup> Prior to 1955, excludes production of U.S.S.R. Source of tables 1054-1056: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

## No. 1057. BAUXITE—SUMMARY: 1940 to 1968

[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	1940	1950	1955	1960	1965	1967	1968 (prel.)
<b>Production:</b>							
Crude ore	510	1,585	2,139	2,409	1,990	2,051	2,071
Dried-bauxite equivalent	439	1,335	1,788	1,938	1,654	1,654	1,665
Value	1,754	7,693	14,543	21,107	18,632	19,079	23,752
<b>Shipments:<sup>1</sup></b>							
Gross weight (as shipped)	507	1,452	2,012	1,925	2,065	2,107	2,036
Dried-bauxite equivalent	438	1,337	1,727	1,654	1,735	1,826	1,749
Value	1,745	9,549	15,559	19,859	21,085	22,579	26,247
Imports for consumption <sup>2</sup> (crude and dried)	630	2,516	4,832	8,739	11,199	11,673	10,977
Value	4,299	15,730	36,656	78,024	142,989	151,418	140,228
Exports (as shipped)	82	45	14	29	147	2	7
Value	1,543	1,166	528	2,588	10,736	43,218	360
World production (estimate)	4,321	8,050	17,500	27,205	36,854	43,612	44,500

NA Not available.

<sup>1</sup> Shipments from mines and processing plants to consumers.

<sup>2</sup> Beginning 1955, import figures adjusted to dry equivalent for Jamaican, Haitian, and Dominican Republic bauxite. Other imports on "as shipped" basis.

## No. 1058. ALUMINUM—SUMMARY: 1940 to 1968

[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	1940	1950	1955	1960	1965	1967	1968 (prel.)
<b>Total production</b>							
Value	104,624	316,046	830,800	1,201,321	1,650,795	1,972,483	(NA)
<b>Primary aluminum:</b>							
Production	206	719	1,566	2,014	2,754	3,269	3,255
Value	75,292	235,977	684,038	1,080,007	1,337,795	1,614,483	1,639,621
Price—cents per pound <sup>1</sup>	18.7	17.7	23.7	26.0	24.5	25.0	25.6
<b>Secondary aluminum:</b>							
Production (recovered) <sup>2</sup>	80	244	336	329	641	698	766
From old scrap	46	76	76	63	160	129	142
From new scrap	35	167	260	267	481	569	624
Value <sup>3</sup>	20,332	80,069	146,762	171,314	313,000	358,000	(NA)
Imports for consumption <sup>4</sup>	18	255	239	196	620	539	785
Value <sup>5</sup>	4,737	67,533	105,061	103,278	265,559	245,278	352,709
Exports <sup>4</sup>	28	23	34	384	315	366	351
Value <sup>5</sup>	17,919	13,345	19,692	174,414	169,790	207,101	195,629
Total apparent consumption	306	1,200	2,111	2,016	3,734	4,009	(NA)
World production (est.)	868	1,640	3,460	4,950	6,929	8,285	7,774

NA Not available.

<sup>1</sup> As quoted. 99+percent virgin ingot. Source: *American Metal Market*.

<sup>2</sup> Through 1950, recoverable aluminum-alloy content; thereafter, recoverable aluminum content.

<sup>3</sup> 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*.

<sup>4</sup> Crude and semicrude (including metal and alloys, plates, bars, etc., and scrap).

<sup>5</sup> Beginning 1955, not comparable with earlier years.

## No. 1059. MAGNESIUM—SUMMARY: 1940 to 1968

[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	1940	1950	1955	1960	1965	1967	1968
<b>Production:</b>							
Primary magnesium, ingot equivalent	6,261	15,726	61,135	40,070	81,361	97,406	98,375
Secondary magnesium, ingot equivalent	(NA)	9,476	10,246	10,348	13,617	13,235	2,502
Average price per pound, primary (quoted) cents	27.0	22.0	29.5	35.25	35.25	35.25	35.25
<b>Exports:<sup>2</sup></b>							
Metal and alloys in crude form and scrap	859	586	8,230	4,487	17,836	11,989	13,364
Semifabricated forms, powder, etc.	(NA)	322	2,250	665	484	1,184	
Imports, metallic and scrap <sup>4</sup>	—	843	1,844	401	2,551	9,213	4,086
Domestic consumption <sup>5</sup>	5,766	18,051	46,463	37,100	69,622	90,775	86,427
World primary production (estimate)	42,000	50,000	132,000	102,500	178,300	202,600	207,089

— Represents zero. NA Not available. <sup>1</sup> Estimate.

<sup>2</sup> Beginning 1960, some material formerly included with metals and alloys in crude form and scrap, included with semifabricated forms, etc. <sup>3</sup> Not strictly comparable with 1950. <sup>4</sup> Represents imports for consumption.

<sup>5</sup> 1940 data, primary and secondary; thereafter, primary only.

Source of tables 1057-1059: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*.

FIG. XLIII. VALUE OF NEW CONSTRUCTION: 1960 TO 1968

[See table 1060]

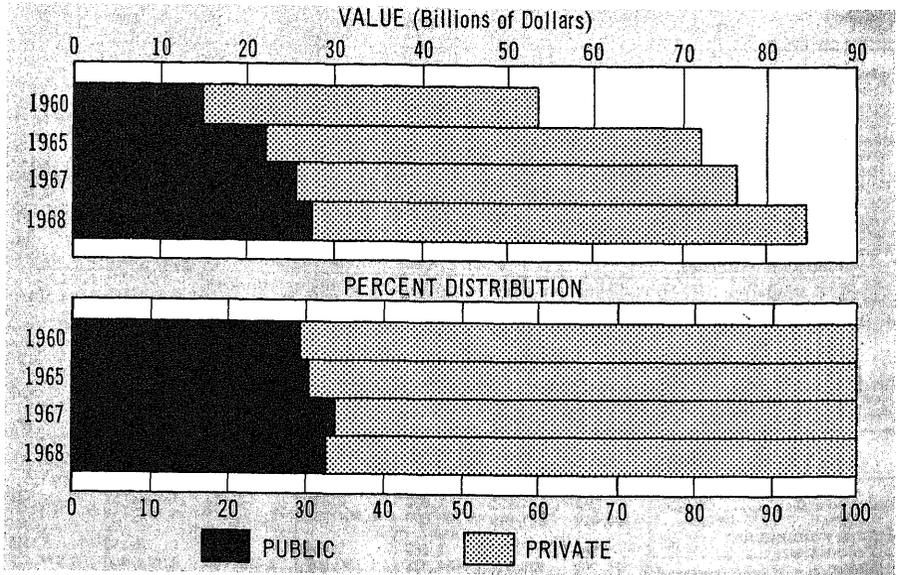
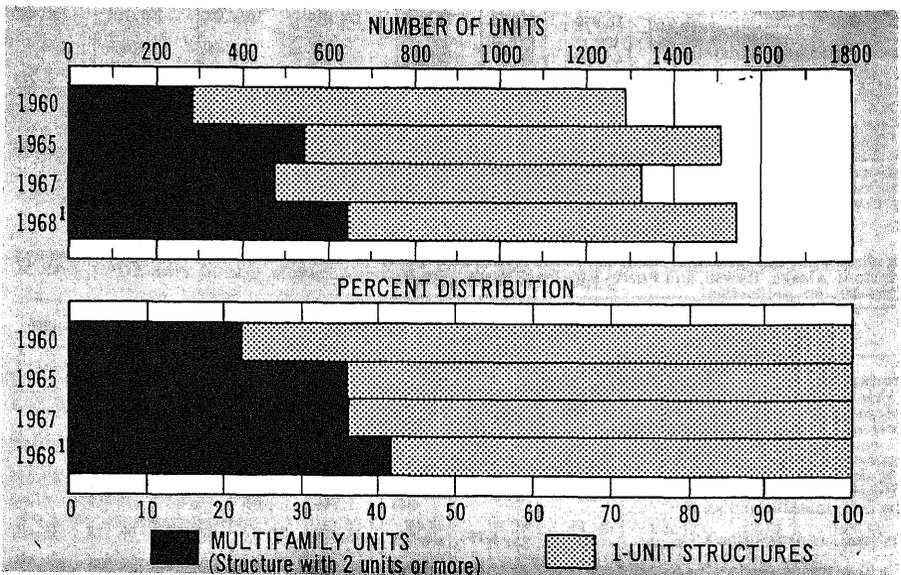


FIG. XLIV. NEW HOUSING UNITS STARTED: 1960 TO 1968

[See table 1075]



<sup>1</sup> Preliminary.

## Section 27

### Construction and Housing

This section presents various measures of construction activity and costs; housing units; housing values, facilities, and structural characteristics; and residential financing.

The principal sources of these data are the monthly *Construction Reports* series (see below) and reports of the decennial Census of Housing published by the Bureau of the Census; and the monthly *Construction Review*, published by the Business and Defense Services Administration. Other sources include the monthly *Dodge Construction Contract Statistics Services* of F. W. Dodge Division, McGraw-Hill Information Systems Company, which presents State data on construction contracts; the *Engineering News-Record*, issued weekly by McGraw-Hill Publications, which contains figures on construction costs; various statistical reports and records of the Department of Housing and Urban Development; and the *Annual Report* of the Federal Home Loan Bank Board, which presents home mortgage data. Data on characteristics of vacant housing units are collected by the Bureau of the Census and presented quarterly in its *Current Housing Reports*.

**Construction.**—Monthly statistics on the start of construction of total, single-family, and multifamily housing units in housekeeping residential buildings are published in *Construction Reports: Housing Starts*. Quarterly information is presented on number of units in multifamily buildings by number of floors and by number of bedrooms. The statistics are derived from monthly sample surveys. Historical data on housing starts and building permits appear in *Housing Construction Statistics, 1899 to 1964*, issued by the Bureau of the Census in 1966.

Monthly statistics supplemented by additional quarterly data on the number of new one-family homes sold and for sale, and annual statistics giving characteristics of new homes sold, contractor-built homes, and owner-built and rental homes, compiled by the Bureau of the Census under the sponsorship of the Department of Housing and Urban Development, are published in *Construction Reports: Housing Sales*. Statistics are based on samples of homes authorized by building permits and of homes started in areas without permit systems.

Monthly estimates of the value of construction put in place appear in the Bureau of the Census series, *Construction Reports: Construction Activity*, and in *Value of New Construction Put in Place: 1962-1966*.

A composite construction cost index is prepared by the Bureau of the Census and published monthly in *Construction Reports: Value of New Construction Put in Place*.

Monthly and annual statistics on housing units authorized by building permits and on nonresidential construction authorized by building permits are produced by the Bureau of the Census. The data on housing units appear in *Construction Reports: Building Permits*; those on nonresidential construction appear in *Construction Review*.

Quarterly and annual statistics on expenditures for residential additions, alterations, repairs, maintenance, and replacements are published quarterly and annually in *Construction Reports: Residential Alterations and Repairs*. Statistics are based on expenditures reported by owners of a sample of single and multifamily properties, including nonfarm and farm, privately and publicly owned, owner and renter occupied, and vacant housing units.

**Housing.**—From 1850 through 1930, the Bureau of the Census collected some housing data in conjunction with Censuses of Population and Agriculture. Beginning in 1940, full-fledged Censuses of Housing have been taken at 10-year intervals. The

most recent census, taken as of April 1, 1960, provided data on occupancy and structural characteristics, condition, plumbing facilities, equipment, fuels, and financing. It also included data on components of inventory change (new construction, conversion, merger, demolition, and other gains and losses) for 1950-60 and 1957-60.

Estimates based on evaluation studies of the 1950 and 1960 censuses indicate a net undercount of about 2.3 percent for occupied housing units in 1950 and about 2.0 percent in 1960. Both studies indicated there were problems relating to the coverage of vacant units and, therefore, information on the undercount for the vacant portion of the housing inventory is not shown. The estimates of net coverage errors for occupied units for 1950 and 1960 are not strictly comparable due to such factors as differences in timing, procedures, and change in the unit of enumeration. The census data have not been adjusted to reflect the estimated undercount.

**Housing units.**—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters, that is, the occupants do not live and eat with any other persons in the structure, and there is either (1) direct access from the outside or through a common hall, or (2) a kitchen or cooking equipment for the exclusive use of the occupants. Transient accommodations (tourist courts, hotels, etc.), barracks for workers (railroad, construction, etc.), and institutional-type quarters are not included in the housing-unit inventory.

**Residential financing.**—The collection of detailed statistics on residential mortgages began in 1890. As part of the 1920 and 1940 censuses, mortgage questions were asked of owners who occupied their own homes. In 1950, the census included a separate survey on residential financing, covering nonfarm residential mortgaged properties, both owner and renter. As part of the 1956 National Housing Inventory, data were collected on the financing of owner-occupied nonfarm properties. In 1960, the Residential Finance Survey program of the Census of Housing covered financing of both home owner and rental properties and characteristics of nonmortgaged as well as mortgaged properties.

Data on home mortgages and foreclosures, based largely on reports from major holders, are provided by the Federal Home Loan Bank Board. The Federal Housing Administration compiles, from its records, data on its real estate financial operations, such as volume of mortgages insured, type of lending institution, etc. The Veterans Administration also compiles, from its records, data on amounts and types of loans.

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

## No. 1060. VALUE OF NEW CONSTRUCTION PUT IN PLACE: 1950 TO 1968

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For 1946 to 1961, see Department of Commerce, Bureau of the Census, *Construction Reports* C30-61 (Supplement). For 1915 to 1945, see *Historical Statistics, Colonial Times to 1957*, series N 1-28]

TYPE OF CONSTRUCTION	1950	1955	1960	1964	1965	1966	1967	1968
<b>Total</b> .....	<b>33,575</b>	<b>46,519</b>	<b>53,941</b>	<b>66,200</b>	<b>72,319</b>	<b>75,120</b>	<b>76,160</b>	<b>84,692</b>
<b>Private</b> .....	<b>26,709</b>	<b>34,804</b>	<b>38,078</b>	<b>45,810</b>	<b>50,253</b>	<b>51,120</b>	<b>50,587</b>	<b>56,996</b>
Percent of total.....	79.6	74.8	70.6	69.2	69.5	68.1	66.4	67.3
Residential buildings (nonfarm).....	18,126	21,877	21,706	26,258	26,268	23,971	23,736	28,823
New housing units.....	15,551	18,242	16,410	20,354	20,361	17,964	17,555	22,423
Additions and alterations.....	2,400	3,296	(1)	(1)	4,431	4,585	(1)	(1)
Nonhousekeeping.....	175	339	865	1,457	1,486	1,422	1,266	1,383
Nonresidential buildings <sup>2</sup> .....	3,904	7,611	10,149	12,955	16,592	18,595	18,106	18,800
Industrial.....	1,062	2,399	2,851	3,565	5,118	6,679	6,131	5,594
Commercial <sup>3</sup> .....	1,415	3,218	4,180	5,396	6,739	6,879	6,982	8,333
Religious.....	409	734	1,013	992	1,207	1,164	1,093	1,038
Educational.....	294	492	566	697	735	951	1,032	984
Hospital and institutional.....	344	361	605	1,291	1,400	1,449	1,372	1,566
Other nonresidential buildings.....	380	417	934	1,014	1,393	1,473	1,496	1,285
Farm construction.....	1,522	1,385	1,321	1,228	1,189	1,245	1,324	(1)
Operator dwellings.....	642	532	500	459	445	407	468	(1)
Other farm construction.....	880	853	821	769	744	778	826	(1)
Public utilities.....	3,045	3,770	4,621	5,031	5,788	6,825	(1)	(1)
Telephone and telegraph.....	440	805	1,083	1,314	1,463	1,609	1,638	1,704
Other public utilities.....	2,605	2,965	3,533	3,717	4,325	5,216	(1)	(1)
Railroads.....	269	321	270	267	310	400	(1)	(1)
Electric light and power <sup>4</sup> .....	1,240	1,572	2,023	2,211	2,539	3,060	(1)	(1)
Gas.....	859	922	1,105	1,073	1,304	1,614	(1)	(1)
Petroleum pipelines <sup>5</sup> .....	237	180	132	166	122	142	(1)	(1)
All other private.....	112	161	281	338	416	484	454	573
<b>Public</b> <sup>6</sup> .....	<b>6,866</b>	<b>11,715</b>	<b>15,863</b>	<b>20,390</b>	<b>22,066</b>	<b>24,000</b>	<b>25,573</b>	<b>27,696</b>
Percent of total.....	20.4	25.2	29.4	30.8	30.5	31.9	33.6	32.7
Buildings <sup>7</sup> .....	2,732	4,462	5,511	7,176	7,875	8,920	9,974	10,447
Housing and redevelopment.....	345	266	716	567	601	655	706	745
Industrial.....	224	721	407	400	368	369	406	517
Educational.....	1,133	2,442	2,818	3,790	4,234	5,333	5,987	6,061
Hospital.....	499	300	401	471	519	511	634	694
Other public buildings.....	531	733	1,169	1,948	2,103	2,052	2,241	2,429
Highways and streets.....	2,134	3,852	5,437	7,133	7,550	8,355	8,538	9,295
Military facilities.....	177	1,287	1,366	938	852	769	721	824
Conservation and development.....	942	701	1,175	1,729	2,019	2,195	2,196	2,046
Other public construction.....	881	1,413	2,374	3,414	3,770	3,761	4,144	5,084
Sewer systems.....	383	615	882	1,325	1,195	1,300	1,058	1,551
Water supply facilities.....	276	470	605	956	1,266	1,066	1,270	1,514
Miscellaneous public construction.....	222	328	887	1,133	1,309	1,395	1,816	2,019

<sup>1</sup> Not available; estimate included in totals.

<sup>2</sup> Beginning 1964, new series, essentially comparable in level with old series. See *Construction Reports* C30-66S.

<sup>3</sup> Excludes building by privately owned public utilities.

<sup>4</sup> Includes construction with R.E.A. funds.

<sup>5</sup> Through 1955, includes local transit.

<sup>6</sup> Beginning 1964, new series for State and local component of public construction. New and old series essentially comparable in level for total but not for most individual categories. See *Construction Reports* C30-66S.

<sup>7</sup> Prior to 1964, excludes military buildings.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C30.

No. 1061. VALUE OF NEW CONSTRUCTION IN 1957-59 PRICES, AND INDEX OF PHYSICAL VOLUME: 1950 TO 1968

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. For description and computation of the various indexes used in the derivation of constant values, see source. Represents value of construction put in place. For 1948 to 1961 see Department of Commerce, Bureau of the Census, *Construction Reports* C30-61 (Supplement). For 1915 to 1945, see *Historical Statistics, Colonial Times to 1957*, series N 29-54]

TYPE OF CONSTRUCTION	1950	1955	1960	1964	1965	1966	1967	1968
<b>New construction</b> .....	43,576	51,717	52,171	59,172	62,896	62,941	61,144	64,432
<i>Index of physical volume (1957-59=100)</i> .....	86	101	101	115	122	122	119	125
<b>Private</b> .....	34,309	38,394	36,518	40,861	43,780	43,208	40,967	43,775
Percent of total.....	78.7	74.2	70.0	69.1	69.6	68.6	67.0	67.9
Residential buildings (nonfarm).....	22,447	23,649	20,824	23,510	23,082	20,561	19,413	22,369
New housing units.....	19,257	19,722	15,747	18,223	17,882	15,412	14,623	17,399
Additions and alterations.....	2,975	3,562	(1)	(1)	3,893	3,930	(1)	(1)
Nonhousekeeping.....	215	365	828	1,305	1,307	1,219	1,036	1,076
Nonresidential buildings <sup>2</sup> .....	5,321	8,668	9,690	11,185	13,959	15,131	14,197	13,837
Industrial.....	1,447	2,807	2,803	3,263	4,541	5,749	5,131	4,427
Commercial <sup>3</sup> .....	1,930	3,623	3,943	4,520	5,491	5,416	5,312	5,981
Religious.....	558	823	958	844	1,001	915	821	729
Educational.....	399	553	535	595	609	749	776	692
Hospital and institutional.....	470	395	569	1,099	1,162	1,142	1,132	1,099
Other nonresidential buildings.....	517	467	882	864	1,155	1,160	1,125	909
Farm construction.....	1,909	1,511	1,270	1,169	1,116	1,121	1,144	(1)
Operator dwellings.....	785	573	480	432	414	414	418	(1)
Other farm construction.....	1,124	938	790	737	702	707	726	(1)
Public utilities.....	4,470	4,384	4,474	4,719	5,294	6,024	(1)	(1)
Telephone and telegraph.....	574	865	1,059	1,241	1,353	1,425	1,341	1,367
Other public utilities.....	3,896	3,519	3,415	3,478	3,941	4,599	(1)	(1)
Railroads.....	363	366	261	262	302	372	(1)	(1)
Electric light and power <sup>4</sup> .....	1,879	1,866	1,980	2,117	2,408	2,759	(1)	(1)
Gas.....	1,308	1,110	1,047	943	1,117	1,342	(1)	(1)
Petroleum pipelines <sup>5</sup> .....	246	177	127	156	114	126	(1)	(1)
All other private.....	162	182	260	278	329	371	331	393
<b>Public</b> <sup>6</sup> .....	9,267	13,323	15,653	18,311	19,116	19,733	20,177	20,657
Percent of total.....	21.3	25.8	30.0	30.9	30.4	31.4	33.0	32.1
Buildings <sup>7</sup> .....	3,682	5,039	5,237	6,155	6,561	7,102	7,588	7,462
Housing and redevelopment.....	430	288	686	507	527	550	581	581
Industrial.....	304	848	402	367	324	317	340	410
Educational.....	1,543	2,742	2,664	3,224	3,554	4,199	4,504	4,272
Hospital.....	682	338	380	398	434	405	477	478
Other public buildings.....	723	823	1,105	1,659	1,742	1,621	1,686	1,710
Highways and streets.....	2,722	4,896	5,768	7,003	7,108	7,365	7,269	7,565
Military facilities.....	234	1,467	1,336	835	733	636	573	623
Conservation and development.....	1,351	799	1,089	1,429	1,605	1,676	1,611	1,406
Other public construction.....	1,278	1,622	2,233	2,889	3,089	2,954	3,136	3,601
Sewer systems.....	550	702	817	1,092	951	993	778	1,065
Water supply facilities.....	397	536	563	796	1,005	814	931	1,043
Miscellaneous public construction.....	331	384	853	1,011	1,133	1,147	1,427	1,493

<sup>1</sup> Not available; estimate included in totals.

<sup>2</sup> Beginning 1964, new series, essentially comparable in level with old series. See *Construction Reports* C30-66S.

<sup>3</sup> Excludes building by privately owned public utilities.

<sup>4</sup> Includes construction with R.E.A. funds.

<sup>5</sup> Through 1955, includes local transit.

<sup>6</sup> Beginning 1964, includes new series for State and local component of public construction. New and old series essentially comparable in level for total but not for most individual categories. See *Construction Reports* C30-66S.

<sup>7</sup> Prior to 1964, excludes military buildings.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C30.

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No. 1062. VALUE OF NEW CONSTRUCTION PUT IN PLACE, BY TYPE, BY QUARTERS: 1967 TO 1969

[In millions of dollars]

TYPE OF CONSTRUCTION	1967				1968				1969, Jan.-Mar.
	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	
<b>New construction</b> .....	14,888	18,855	21,787	20,600	16,780	21,646	23,759	22,507	18,406
<b>Private</b> <sup>1</sup> .....	9,896	12,163	14,450	14,078	11,387	14,319	15,804	15,486	12,704
Residential buildings (non-farm) <sup>2</sup> .....	4,021	5,556	7,283	6,906	5,399	7,408	8,291	7,725	6,196
New housing units .....	2,893	4,167	5,378	5,447	4,242	5,616	6,387	6,228	5,013
Nonhousekeeping .....	307	305	317	337	320	321	352	390	346
Nonresidential buildings <sup>3</sup> .....	4,085	4,430	4,819	4,772	4,093	4,623	4,941	5,143	4,491
Industrial .....	1,443	1,472	1,667	1,550	1,258	1,318	1,410	1,610	1,368
Commercial .....	1,529	1,729	1,813	1,911	1,654	2,049	2,296	2,334	2,010
Religious .....	238	260	305	290	227	266	278	267	208
Educational .....	211	267	305	249	241	259	249	235	205
Hospital and institutional .....	316	334	356	366	355	381	384	446	440
Telephone and telegraph .....	358	419	417	444	364	392	451	497	422
All other private .....	93	110	137	114	142	142	151	138	104
<b>Public</b> <sup>3</sup> .....	4,992	6,722	7,337	6,522	5,393	7,327	7,955	7,021	5,702
Buildings .....	2,077	2,610	2,730	2,557	2,345	2,758	2,722	2,622	2,573
Housing and redevelopment .....	169	196	172	169	133	224	174	215	306
Industrial .....	84	108	101	113	122	143	119	133	121
Educational .....	1,253	1,587	1,667	1,480	1,367	1,596	1,644	1,454	1,292
Hospital .....	120	154	172	188	185	169	161	179	174
Other public buildings .....	451	565	618	607	538	626	624	641	680
Highways and streets .....	1,393	2,306	2,732	2,107	1,420	2,594	3,011	2,270	1,471
Military facilities .....	139	151	212	219	169	177	217	271	202
Conservation and development .....	473	540	616	567	456	521	531	538	390
Other public construction .....	910	1,115	1,047	1,072	1,013	1,277	1,474	1,320	1,066
Sewer systems .....	251	257	279	271	242	330	587	363	294
Water supply facilities .....	269	356	316	329	343	384	386	401	342
Misc. public construction .....	390	502	452	472	428	504	531	556	430

<sup>1</sup> Includes estimates for types of construction not shown separately.

<sup>2</sup> Includes estimates for additions and alterations. <sup>3</sup> See footnote 6, table 1061.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C30.

No. 1063. BUILDING PERMITS—VALUATION OF PRIVATE CONSTRUCTION AUTHORIZED: 1960 TO 1968

[In millions of dollars. The "10,000, 12,000, and 13,000 place" series are based on a U.S. total of approximately 10,000, 12,000, and 13,000 places identified in 1959, 1962, and 1967, respectively, as having local building permit systems]

TYPE OF CONSTRUCTION	10,000 PLACE SERIES		12,000 PLACE SERIES			13,000 PLACE SERIES	
	1960	1963	1963	1965	1967	1967	1968 (prel.)
<b>Total</b> .....	19,761	24,557	25,630	27,852	28,153	28,980	34,524
<b>New housing units</b> .....	11,327	14,606	15,213	15,885	14,508	15,004	18,100
In structures with—							
1 unit .....	9,427	10,088	10,658	11,117	10,512	10,965	12,274
2-4 units .....	491	952	970	741	647	657	824
5 units or more .....	1,409	3,565	3,585	3,526	3,350	3,383	5,002
New nonhousekeeping residential buildings .....	270	376	386	482	443	521	800
<b>New nonresidential buildings</b> .....	5,982	7,045	7,455	9,179	10,224	10,469	12,428
Industrial buildings .....	1,138	1,455	1,740	2,252	2,437	2,556	2,751
Office buildings .....	1,039	1,281	1,297	1,572	1,737	1,755	2,479
Service stations and repair garages .....	115	169	175	218	245	287	266
Stores and other mercantile buildings .....	1,146	1,215	1,247	1,838	1,899	1,915	2,281
Religious buildings .....	548	501	524	617	556	584	554
Educational buildings .....	441	651	659	715	807	819	845
Hospitals and other institutional buildings .....	340	719	730	810	937	944	1,227
Amusement buildings .....	195	169	174	181	205	210	217
Residential garages .....	202	224	234	226	207	211	228
All other nonresidential buildings .....	818	661	675	749	1,134	1,208	1,550
<b>Additions and alterations</b> .....	2,182	2,530	2,576	2,806	2,978	2,996	3,196

Source: Dept. of Commerce, Bureau of the Census. In Dept. of Commerce, Business and Defense Services Administration; *Construction Review*.

### No. 1064. VALUE OF NEW PUBLIC CONSTRUCTION, BY SOURCE OF FUNDS, OWNERSHIP, AND TYPE: 1950 TO 1968

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Complete series from 1946 to 1962 in Department of Commerce, Business and Defense Services Administration, *Construction Statistics, 1915-1964*, a supplement to *Construction Review* and, from 1963 to date, in current issues of *Construction Review*. For 1915 to 1945 source of funds totals, see *Historical Statistics, Colonial Times to 1957*, series N 55-58]

ITEM	1950	1955	1960	1964	1965	1966	1967	1968
<b>New public construction</b> .....	<b>6,866</b>	<b>11,715</b>	<b>15,863</b>	<b>20,390</b>	<b>22,066</b>	<b>24,000</b>	<b>25,573</b>	<b>27,696</b>
Federal funds.....	2,078	3,508	5,889	7,441	7,312	7,464	(NA)	(NA)
Direct Federal.....	1,624	2,769	3,622	3,905	4,018	3,957	3,512	3,468
Federal grants-in-aid <sup>1</sup> .....	454	739	2,267	3,536	3,294	3,507	(NA)	(NA)
State and local funds.....	4,788	8,207	9,974	12,949	14,754	16,536	(NA)	(NA)
Federally owned.....	1,624	2,769	3,622	3,905	4,018	3,957	3,512	3,458
Buildings <sup>2</sup> .....	514	804	1,024	1,374	1,442	1,281	983	944
Housing and redevelopment.....	15	2	288	105	146	81	28	60
Industrial.....	224	721	407	400	368	369	406	517
Educational.....	-	6	20	24	14	13	21	14
Hospital <sup>3</sup> .....	146	22	56	104	120	130	94	65
Other Federal buildings.....	129	53	253	741	794	688	434	288
Highways and streets.....	45	70	136	173	169	198	191	(NA)
Military facilities <sup>3</sup> .....	177	1,287	1,366	938	852	769	721	824
Conservation and development.....	881	598	1,005	1,369	1,506	1,666	1,569	1,436
Miscellaneous Federal construction.....	7	10	91	51	49	43	48	47
State and locally owned <sup>4</sup> .....	5,242	8,946	12,241	16,485	18,048	20,043	22,061	24,238
Buildings <sup>2</sup> .....	2,218	3,658	4,487	5,802	6,433	7,639	8,991	9,503
Housing and redevelopment.....	330	264	428	462	455	574	678	686
Educational.....	1,133	2,436	2,798	3,766	4,270	5,320	5,966	6,047
Hospital.....	353	278	345	367	399	381	540	629
Other State and local buildings.....	402	680	916	1,207	1,309	1,364	1,807	2,141
Highways and streets.....	2,089	3,782	5,301	6,960	7,381	8,157	8,347	9,088
Conservation and development.....	61	103	170	360	513	529	627	610
Other State and local construction.....	874	1,403	2,283	3,363	3,721	3,718	4,096	5,037
Sewer systems.....	383	615	882	1,325	1,195	1,300	1,058	1,551
Water supply facilities.....	276	470	605	956	1,266	1,066	1,270	1,614
Miscellaneous State and local construction.....	215	318	796	1,082	1,260	1,352	1,768	1,972

- Represents zero. NA Not available. <sup>1</sup> Construction programs currently receiving Federal grants-in-aid cover highways, schools, hospitals, airports, and miscellaneous community facilities.

<sup>2</sup> Prior to 1964, excludes military buildings. <sup>3</sup> Beginning 1964, new series, 1960 and earlier years military hospitals included with Federally owned hospitals, thereafter, with military facilities. <sup>4</sup> Beginning 1964, new series; see footnote 6, table 1061.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C30, and unpublished data.

### No. 1065. EXPENDITURES BY RESIDENTIAL PROPERTY OWNERS FOR IMPROVEMENTS AND MAINTENANCE AND REPAIRS: 1962 AND 1968

[In millions of dollars, except averages. Expenditures for one type of construction work done incidental to another type are included under latter type]

YEAR AND TYPE OF EXPENDITURE	All properties	1-4 unit properties with owner occupant	Other properties <sup>1</sup>	CONSTRUCTION IMPROVEMENTS				Maintenance and repairs
				Additions and alterations			Replacements	
				Total	Residential structure	Other property		
<b>1962: All properties</b> .....	<b>11,024</b>	<b>7,105</b>	<b>3,919</b>	<b>4,442</b>	<b>3,512</b>	<b>930</b>	<b>1,739</b>	<b>4,843</b>
Average per property ..	\$248	\$211	\$356	(NA)	(NA)	(NA)	(NA)	(NA)
Heating and central air conditioning.....	887	674	213	242	242	(NA)	347	208
Plumbing.....	1,246	730	516	162	162	(NA)	429	655
Roofing.....	811	531	280	(NA)	(NA)	(NA)	483	328
Painting.....	2,076	1,295	781	(NA)	(NA)	(NA)	(NA)	2,076
Not specified.....	6,004	3,875	2,129	4,038	3,108	930	480	1,456
<b>1968: All properties</b> .....	<b>12,703</b>	<b>8,966</b>	<b>3,737</b>	<b>5,315</b>	<b>4,338</b>	<b>976</b>	<b>2,202</b>	<b>5,186</b>
Average per property ..	\$268	\$245	\$350	(NA)	(NA)	(NA)	(NA)	(NA)
Heating and central air conditioning.....	1,096	817	279	439	439	(NA)	435	222
Plumbing.....	1,303	759	544	379	379	(NA)	412	512
Roofing.....	860	642	218	(NA)	(NA)	(NA)	539	321
Painting.....	2,356	1,411	945	(NA)	(NA)	(NA)	(NA)	2,356
Not specified.....	7,088	5,336	1,751	4,497	3,521	976	817	1,774

NA Not available.

<sup>1</sup> 1-4 housing unit properties with no unit owner occupied and all properties with 5 housing units or more.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C50-67A and C50-68A.

## No. 1066. FEDERAL OUTLAYS FOR PUBLIC WORKS: 1960 TO 1970

[In millions of dollars. For years ending June 30. Includes Federal outlays for U.S. Government-owned construction in the United States and abroad and for grants and loans in aid of construction by State and local governments. Although generally consistent definitions are employed in the value-put-in-place data shown in table 1064, there are differences in coverage, timing, and system of classification. For additional details, see Department of Commerce, Bureau of the Census, *Construction Report* SC30-66S and the source listed below]

TYPE OR FUNCTION	1960	1965	1966	1967	1968	1969 est.	1970 est.
<b>Total Federal outlays</b> .....	<b>6,846</b>	<b>8,886</b>	<b>9,428</b>	<b>9,572</b>	<b>9,520</b>	<b>9,970</b>	<b>11,126</b>
<b>By type:</b>							
Direct Federal construction .....	3,463	4,152	4,693	4,483	3,972	4,274	4,347
Grants .....	3,226	4,567	4,446	4,730	5,264	5,432	6,457
Net lending <sup>1</sup> .....	156	167	289	359	284	264	322
<b>By function:</b>							
<b>Civil public works</b> .....	<b>5,011</b>	<b>7,521</b>	<b>7,742</b>	<b>7,836</b>	<b>8,000</b>	<b>8,095</b>	<b>9,321</b>
International affairs and finance .....	28	11	13	27	17	18	19
Space research and technology .....	54	531	572	289	126	70	60
Agriculture and agricultural resources .....	43	3	-3	35	53	56	55
Natural resources .....	1,131	1,699	1,920	1,991	2,012	1,922	1,999
Commerce and transportation .....	3,174	4,560	4,253	4,323	4,632	4,781	5,721
Community development and housing .....	20	59	35	80	110	187	198
Education and manpower .....	231	200	392	557	510	445	477
Health and welfare .....	90	111	173	166	233	271	356
Veterans benefits and services .....	60	84	87	62	54	65	90
General government .....	179	265	300	307	251	279	346
<b>National defense public works</b> .....	<b>1,835</b>	<b>1,366</b>	<b>1,686</b>	<b>1,736</b>	<b>1,520</b>	<b>1,876</b>	<b>1,805</b>
Military public works .....	1,618	1,156	1,506	1,601	1,343	1,663	1,506
Civil defense public works .....	(Z)	3	4	5	10	6	5
Atomic energy facilities .....	218	206	176	180	167	206	294
Other .....	-1	-	-	-	-	-	-

- Represents zero. Z Less than \$500,000.

<sup>1</sup> Data through 1966 do not reflect repayments deposited to miscellaneous receipts; beginning 1967, such payments are netted against disbursements.

Source: Executive Office of the President, Bureau of the Budget; *The Budget of the United States Government, 1970*, Special Analysis P.

## No. 1067. CONSTRUCTION MATERIALS—INDEXES OF WHOLESALE PRICES: 1950 TO 1968

[1957-59=100, except as noted. Prior to 1960, excludes Alaska and Hawaii. For discussion of wholesale price index, see text, p. 337]

COMMODITY	1950	1955	1960	1965	1968	COMMODITY	1950	1955	1960	1965	1968
<b>All materials</b> <sup>1</sup> .....	<b>83.0</b>	<b>95.1</b>	<b>100.5</b>	<b>100.8</b>	<b>111.1</b>	Plumbing fixture <sup>2</sup> .....	84.5	98.0	103.1	104.7	114.1
Softwood lumber:						Enameled iron .....	95.6	108.0	104.8	94.9	99.2
Douglas fir .....	97.4	108.1	99.0	102.4	133.3	Vitreous china .....	94.4	98.4	102.5	93.0	99.1
Southern pine .....	94.1	100.4	100.1	97.2	121.2	Brass fittings .....	72.8	91.7	103.6	118.7	138.8
Other .....	89.2	102.6	97.2	97.3	125.9	Heating equipment .....	86.7	95.0	98.1	91.7	94.9
Hardwood lumber .....	93.8	97.9	103.8	111.3	119.2	Steam and hot water .....	73.5	89.0	102.9	102.5	107.0
Millwork .....	87.7	98.4	104.5	107.7	118.5	Metal doors, sash, and trim .....	79.0	100.2	95.3	92.0	100.2
Plywood .....	108.4	107.4	97.8	92.3	103.1	Plate glass .....	78.1	92.8	96.4	81.4	89.4
Softwood .....	121.5	117.7	92.9	86.8	106.1	Concrete:					
Hardwood .....	96.7	97.9	102.8	98.2	98.2	Ingredients .....	77.1	90.2	102.7	103.2	109.2
Building paper and board .....	74.9	91.1	101.4	92.9	92.8	Portland cement .....	72.1	87.7	103.5	101.2	105.7
Prepared paint .....	77.8	89.7	100.7	105.4	114.6	Products .....	82.4	92.7	102.4	101.5	108.1
Finished steel prod.:						Pipe .....	73.4	89.8	104.4	96.4	102.4
Structural shapes .....	62.3	78.2	102.8	105.9	112.1	Structural clay products <sup>4</sup> .....	79.6	92.5	103.5	106.6	113.1
Reinforcing bars .....	61.0	83.7	102.3	95.0	94.5	Gypsum products .....	80.0	93.4	101.9	104.0	105.5
Black pipe, carbon .....	61.1	79.6	99.9	98.4	106.4	Asphalt roofing <sup>5</sup> .....	86.5	90.5	91.6	92.9	99.4
Wire nails <sup>2</sup> .....	64.1	84.1	98.5	96.8	90.2	Insulation materials .....	97.9	103.2	100.7	88.3	96.1
Nonferrous metal products .....	77.8	106.7	103.9	115.2	125.3	Floor coverings:					
Copper water tubing .....	73.5	106.1	99.6	105.0	134.0	Asphalt tile .....	92.0	97.4	102.4	108.3	119.7
Building wire .....	73.1	103.9	99.1	132.5	158.2	Vinyl covering <sup>6</sup> .....	(X)	(X)	101.5	100.8	100.5

X Not applicable. <sup>1</sup> See footnote 2, table 1068. <sup>2</sup> 8d common. <sup>3</sup> Includes brass fittings.

<sup>4</sup> Excludes refractories. <sup>5</sup> Prepared. <sup>6</sup> Introduced January 1959. 1959=100.

Source: Dept. of Labor, Bureau of Labor Statistics; monthly and annual reports, *Wholesale Prices and Price Indexes*.

No. 1068. PRICE AND COST INDEXES FOR CONSTRUCTION AND SELECTED COMPONENTS OF CONSTRUCTION: 1946 TO 1968

[1957-59=100, except as indicated. Excludes Alaska and Hawaii, except as noted. Indexes of certain of these firms are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1887*, series N 85-102, for construction cost indexes on a 1947-49 base]

ITEM	1946	1950	1955	1960	1965	1968
Price index for new one-family houses sold (1963=100) <sup>1</sup> .....	(NA)	(NA)	(NA)	(NA)	103.5	117.0
Dept. of Agriculture, Economic Research Service:						
Farm housing.....	(NA)	(NA)	(NA)	(NA)	108	126
Other farm construction.....	(NA)	(NA)	(NA)	(NA)	106	120
Indexes of building materials prices and union wage scales:						
Wholesale prices of construction materials <sup>2</sup> .....	52.2	83.0	95.1	100.5	100.8	111.1
Union hourly wage scales in the building trades <sup>3</sup> .....	49.5	68.0	86.8	109.0	131.4	154.1
Construction cost indexes:						
Department of Commerce: Composite <sup>4</sup> .....	56	77	90	103	116	131
Department of Transportation, Federal Highway Administration: Highways <sup>5</sup> .....	70.7	78.3	87.3	94.1	105.9	121.6
American Appraisal Company: Building construction <sup>6</sup> .....	47	73	89	106	121	142
Associated General Contractors of America: General construction <sup>7</sup> .....	52	72	88	107	123	139
E. H. Boeckh and Associates: <sup>8</sup>						
Small residential structures: Composite.....	57.4	80.3	92.4	104.2	115.2	136.7
Apartments, hotels, and office buildings: Composite.....	54.0	75.8	90.4	105.0	118.5	139.9
Commercial and factory buildings: Composite.....	53.0	74.0	89.5	104.7	117.2	139.1
Engineering News-Record: <sup>9</sup>						
Building construction.....	49.8	71.2	89.0	106.1	118.9	136.8
General construction.....	45.5	67.1	86.8	108.3	127.8	151.9
George A. Fuller Company: Commercial buildings <sup>10</sup> .....	55	72	88	106	124	136
Turner Construction Company: Building construction <sup>11</sup> .....	55	73	85	102	113	128
Handy-Whitman public utility construction: <sup>12</sup>						
Building.....	45	67	83	104	111	125
Gas plant.....	45	65	83	106	117	129
Electric light and power <sup>13</sup> .....	46	66	84	102	107	118

NA Not available. <sup>1</sup> Includes value of site.

<sup>2</sup> Covers materials incorporated as integral part of a building or normally installed during construction and not readily removable. Excludes consumer durables, such as kitchen ranges, refrigerators, etc. Beginning 1965, applies to Alaska and Hawaii. Source: Dept. of Labor, Bureau of Labor Statistics, unpublished data.

<sup>3</sup> Based on minimum wage rates agreed upon through collective bargaining; excludes overtime. As of July 1. Source: Dept. of Labor, Bureau of Labor Statistics. (Bulletin No. 1621, *Union Wages and Hours: Building Trades*, 1968.)

<sup>4</sup> Covers both building and nonbuilding construction, excluding maintenance and repair. Represents a weighted average of various indexes used for different types of construction.

<sup>5</sup> Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete).

<sup>6</sup> Average for 30 cities of 4 types of buildings: Wood-frame, brick-wood frame, brick-steel frame, and reinforced concrete. Covers materials and labor costs in structural portion of buildings but excludes those for plumbing, heating, lighting, sprinklers, and elevators. Reflects employee-benefit costs, and allows for contractors' overhead and profit.

<sup>7</sup> Covers building and nonbuilding construction. Wages and materials for 12 cities combined in 40-60 ratio. Wages are for hod carriers and common laborers only. Materials weighted: Sand, gravel, crushed stone, cement, common brick, lumber, hollow tile, and structural and reinforcing steel. Excludes taxes and employee-benefit costs.

<sup>8</sup> Average of 20 cities for types shown. Weights based on surveys of building costs. Wage rates used for both common and skilled labor. Reflects payment of sales taxes and social security payroll taxes. Unweighted averages from Boeckh series prepared by Bureau of the Census.

<sup>9</sup> Building construction index computed on basis of hypothetical unit of construction requiring 6 bbl. of portland cement, 1,088 M bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. General construction index based on same materials components combined with 200 hours of common labor.

<sup>10</sup> Composite of 36 major cost elements in 3 commercial-type buildings including structural elements and elevators, wiring, plumbing, heating, and ventilating. Covers skilled and unskilled labor and reflects employee-benefit costs.

<sup>11</sup> Eastern cities. Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. Reflects payment of sales taxes and employee-benefit costs.

<sup>12</sup> Based on data covering public utility construction costs for 95 items in 6 geographic regions. Covers skilled and common labor; does not reflect tax payments nor employee-benefit cost.

<sup>13</sup> As derived by Bureau of the Census; covers steam production plants only; excludes hydraulic plants.

Source: Dept. of Commerce, Bureau of the Census, except as noted. In Dept. of Commerce, Business and Defense Services Administration; *Construction Review*.

**No. 1069. CONSTRUCTION CONTRACTS—VALUE OF CONSTRUCTION AND FLOOR SPACE OF BUILDINGS, BY CLASS OF CONSTRUCTION: 1960 TO 1968**

[Value in millions of dollars; floor space in millions of square feet. Excludes Alaska and Hawaii. Includes new structures and alterations to existing structures (both value and floor area), and major alterations to existing structures which affect only valuation, since there is no additional floor area created by an "alteration" project]

CLASS OF CONSTRUCTION	VALUE OF CONSTRUCTION					FLOOR SPACE OF BUILDINGS <sup>1</sup>				
	1960	1965	1966	1967	1968	1960	1965	1966	1967	1968
<b>Total</b> .....	<b>36,318</b>	<b>49,272</b>	<b>50,150</b>	<b>54,514</b>	<b>61,733</b>	<b>2,154</b>	<b>2,843</b>	<b>2,643</b>	<b>2,820</b>	<b>3,129</b>
<b>Nonresidential buildings:</b>										
Commercial <sup>2</sup> .....	3,725	5,457	5,835	6,080	7,645	283	415	442	424	496
Industrial.....	2,114	3,064	3,623	3,701	3,768	178	265	312	270	284
Educational and science.....	3,005	4,164	4,939	5,216	5,347	196	225	245	242	234
Hospital.....	832	1,515	1,721	1,873	2,114	36	60	60	66	69
Public buildings.....	679	842	939	959	1,112	33	36	37	37	39
Religious.....	789	788	825	793	778	53	45	45	41	39
Social and recreational.....	631	800	855	834	954	44	47	47	42	46
Miscellaneous.....	464	596	656	683	795	31	38	40	43	47
Residential buildings.....	15,105	21,248	17,827	21,155	24,838	1,300	1,711	1,416	1,654	1,876
Nonbuilding construction.....	8,972	10,805	12,930	13,220	14,382	(X)	(X)	(X)	(X)	(X)

X Not applicable.

<sup>1</sup> Excludes floor space of public works and utilities, data for which are not available.

<sup>2</sup> Includes nonindustrial warehouses.

Source: F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, N.Y. In *Dodge Construction Contract Statistics Service*.

**No. 1070. CONSTRUCTION CONTRACTS—INDEXES OF VALUE: 1940 TO 1969**

[1957-59=100. Monthly indexes are derived from figures of construction contracts reported by the F. W. Dodge Division, McGraw-Hill Information Systems Company. Reports covered 37 States and D.C. through 1955 and 48 States and D.C. thereafter]

YEAR	Total <sup>1</sup>	BUILDING		YEAR AND MONTH	Total <sup>1</sup>	BUILDING		
		Residential	Nonresidential			Residential	Nonresidential	
1940.....	15	14	14	1968:				
1945.....	12	5	20		January.....	166	151	180
1950.....	61	77	57		February.....	152	140	157
1951.....	63	66	75		March.....	169	149	179
1952.....	67	70	74		April.....	164	163	172
1953.....	69	68	77		May.....	172	155	202
1954.....	76	82	79		June.....	160	140	188
1955.....	91	97	94		July.....	187	159	238
1956.....	92	86	100		August.....	192	146	204
1957.....	93	87	101		September.....	183	159	206
1958.....	102	98	98		October.....	200	165	239
1959.....	105	115	102		November.....	183	175	230
1960.....	105	101	109	December.....	179	165	215	
1961.....	108	108	108	1969:				
1962.....	120	121	116		January.....	191	163	257
1963.....	132	137	128		February.....	205	181	243
1964.....	137	137	139		March.....	177	150	200
1965.....	143	142	154		April.....	183	162	220
1966.....	145	119	173	May.....	210	171	248	
1967.....	153	131	180					
1968.....	176	156	201					

<sup>1</sup> Represents the sum of the value of residential building contracts, nonresidential building contracts, and nonbuilding construction contracts. The existence of very large individual projects in the nonbuilding series results in an irregular pattern that is not conducive to seasonal adjustment.

Source: F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, N.Y. In Dept. of Commerce, Business and Defense Services Administration; *Construction Review*.

## No. 1071. CONSTRUCTION CONTRACTS—VALUE, BY STATES: 1950 TO 1968

[In millions of dollars. See headnote, table 1039. Represents value of construction in States in which work was actually done. 1950 and 1955 not strictly comparable with later years]

STATE	1950	1955	1960	1965	1967	1968			
						Total	Non-residential	Residential	Non-building
<b>Total</b> <sup>1</sup> .....	<b>14,501</b>	<b>23,745</b>	<b>36,318</b>	<b>49,272</b>	<b>54,514</b>	<b>61,736</b>	<b>22,515</b>	<b>24,839</b>	<b>14,380</b>
Alabama.....	227	320	467	679	791	1,066	366	409	291
Arizona.....	(NA)	(NA)	453	413	446	491	162	212	118
Arkansas.....	126	139	286	529	529	667	175	219	273
California.....	(NA)	(NA)	4,947	6,333	5,606	6,442	2,131	2,894	1,416
Colorado.....	(NA)	(NA)	461	585	608	693	199	293	202
Connecticut.....	290	565	618	799	849	1,067	490	443	134
Delaware.....	62	114	98	200	171	195	77	80	38
District of Columbia.....	97	119	222	310	209	272	192	40	40
Florida.....	532	1,047	1,443	1,890	2,065	2,694	677	1,696	321
Georgia.....	296	480	606	1,121	1,294	1,342	507	679	155
Idaho.....	(NA)	(NA)	115	187	154	136	49	38	49
Illinois.....	930	1,921	2,098	2,455	3,346	3,168	1,197	1,482	489
Indiana.....	389	649	803	1,322	1,422	1,505	635	597	274
Iowa.....	194	271	411	591	671	699	255	262	183
Kansas.....	214	512	462	473	639	596	212	247	137
Kentucky.....	191	375	486	691	936	998	323	406	270
Louisiana.....	311	612	579	1,190	1,183	1,098	369	486	243
Maine.....	40	154	116	151	178	308	62	89	156
Maryland.....	586	821	706	1,278	1,150	1,394	422	457	515
Massachusetts.....	486	759	764	1,093	1,445	1,728	801	619	307
Michigan.....	838	1,329	1,410	2,280	2,276	2,350	913	1,030	408
Minnesota.....	301	512	661	793	925	1,291	413	527	351
Mississippi.....	103	172	288	489	542	570	142	228	200
Missouri.....	368	688	807	1,129	1,428	1,319	486	506	327
Montana.....	(NA)	(NA)	133	219	269	141	39	32	70
Nebraska.....	106	221	288	360	352	462	152	158	152
Nevada.....	(NA)	(NA)	130	232	152	389	52	85	252
New Hampshire.....	34	86	103	150	177	234	103	98	33
New Jersey.....	748	1,010	1,235	1,541	1,907	2,381	886	710	784
New Mexico.....	(NA)	(NA)	220	377	283	285	71	94	119
New York.....	1,767	2,655	3,693	3,938	4,011	4,834	2,496	1,444	894
North Carolina.....	288	353	652	1,016	1,338	1,369	440	701	223
North Dakota.....	63	85	141	127	121	196	40	52	104
Ohio.....	978	2,035	1,924	2,497	3,012	3,536	1,423	1,376	737
Oklahoma.....	253	434	489	597	693	823	214	329	279
Oregon.....	(NA)	(NA)	365	586	531	558	210	225	123
Pennsylvania.....	1,138	1,539	1,439	2,118	3,017	3,121	1,251	879	990
Rhode Island.....	90	93	118	192	237	220	78	93	49
South Carolina.....	134	233	333	488	679	827	277	315	235
South Dakota.....	62	87	186	112	167	124	40	39	46
Tennessee.....	397	469	618	909	1,043	1,227	425	574	228
Texas.....	1,072	1,487	2,021	2,679	3,183	3,992	1,279	1,556	1,167
Utah.....	(NA)	(NA)	195	240	263	238	97	77	63
Vermont.....	21	35	51	106	136	145	57	45	43
Virginia.....	393	666	968	1,373	1,195	1,404	514	669	221
Washington.....	(NA)	(NA)	632	1,007	1,216	1,417	431	741	245
West Virginia.....	96	137	198	267	445	382	108	100	175
Wisconsin.....	332	582	753	1,034	1,116	1,252	553	493	206
Wyoming.....	(NA)	(NA)	121	117	108	90	24	15	50

NA Not available.

<sup>1</sup> Excludes Alaska and Hawaii. Total for 37 States and D.C. through 1955; 48 States and D.C. thereafter.

Source: F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, N.Y. Figures reported currently in *Dodge Construction Contract Statistics Service*.

No. 1072. NEW HOUSING UNITS AUTHORIZED—NUMBER AND VALUATION, BY STATES:  
1965 TO 1968

[Includes public housing contract awards. For definition of 12,000 and 13,000 place series, see headnote, table 1063]

STATE	12,000 PLACE SERIES						13,000 PLACE SERIES			
	Housing units (1,000)			Valuation (mil. dol.)			Housing units (1,000)		Valuation (mil. dol.)	
	1965	1966	1967	1965	1966	1967	1967	1968 <sup>1</sup> (prel.)	1967	1968 <sup>1</sup> (prel.)
<b>United States.....</b>	<b>1,272.6</b>	<b>1,000.3</b>	<b>1,131.5</b>	<b>15,811</b>	<b>13,907</b>	<b>14,864</b>	<b>1,168.6</b>	<b>1,377.5</b>	<b>15,367</b>	<b>18,693</b>
<b>New England.....</b>	<b>69.3</b>	<b>57.9</b>	<b>60.2</b>	<b>842</b>	<b>747</b>	<b>796</b>	<b>62.2</b>	<b>76.5</b>	<b>825</b>	<b>1,029</b>
Maine.....	1.8	1.9	2.4	23	25	31	2.6	2.6	34	34
New Hampshire.....	3.6	3.6	3.6	46	45	49	4.1	4.5	54	61
Vermont.....	1.2	0.9	1.3	15	12	15	1.6	1.3	22	19
Massachusetts.....	31.7	25.3	27.2	374	330	352	27.7	37.3	358	500
Rhode Island.....	6.2	4.9	4.9	68	60	61	4.9	5.3	62	66
Connecticut.....	24.7	21.2	20.8	316	276	289	21.3	25.5	295	349
<b>Middle Atlantic.....</b>	<b>194.2</b>	<b>161.2</b>	<b>161.7</b>	<b>2,354</b>	<b>2,023</b>	<b>2,051</b>	<b>168.8</b>	<b>162.5</b>	<b>2,140</b>	<b>2,246</b>
New York.....	84.8	71.1	73.0	1,106	958	976	74.4	76.6	995	1,081
New Jersey.....	62.7	49.2	45.8	723	583	588	46.3	39.8	564	555
Pennsylvania.....	46.7	40.9	42.9	526	482	517	48.1	46.1	581	610
<b>East North Central.....</b>	<b>231.2</b>	<b>195.2</b>	<b>227.5</b>	<b>3,109</b>	<b>2,776</b>	<b>3,233</b>	<b>235.2</b>	<b>257.0</b>	<b>3,348</b>	<b>3,803</b>
Ohio.....	59.3	47.8	58.1	813	704	838	59.3	65.2	860	982
Indiana.....	27.4	23.0	25.5	323	284	328	26.6	27.7	343	361
Illinois.....	57.5	53.4	63.2	812	806	910	65.5	79.9	945	1,209
Michigan.....	59.6	50.4	57.9	824	705	836	59.7	59.1	859	896
Wisconsin.....	27.4	20.6	22.8	337	278	320	24.1	25.0	341	355
<b>West North Central.....</b>	<b>85.3</b>	<b>63.5</b>	<b>77.8</b>	<b>1,051</b>	<b>860</b>	<b>1,054</b>	<b>80.8</b>	<b>95.8</b>	<b>1,099</b>	<b>1,320</b>
Minnesota.....	20.1	14.4	22.7	268	210	311	23.5	30.8	321	451
Iowa.....	13.9	10.5	12.8	172	144	178	13.2	12.0	183	173
Missouri.....	29.1	22.5	23.1	349	299	316	24.0	28.1	331	386
North Dakota.....	2.0	1.4	1.7	28	20	25	1.8	2.3	27	33
South Dakota.....	1.8	1.0	1.2	20	13	14	1.2	1.4	15	18
Nebraska.....	7.8	5.1	7.0	82	59	74	7.3	9.3	77	95
Kansas.....	10.5	8.5	9.3	134	114	136	9.8	12.0	144	164
<b>South Atlantic.....</b>	<b>253.1</b>	<b>208.2</b>	<b>217.0</b>	<b>2,766</b>	<b>2,314</b>	<b>2,556</b>	<b>226.6</b>	<b>279.2</b>	<b>2,677</b>	<b>3,499</b>
Delaware.....	6.2	4.3	5.8	71	49	61	5.8	5.9	61	64
Maryland.....	52.4	44.0	31.7	555	479	391	31.8	32.5	392	436
District of Columbia.....	8.7	5.4	2.0	90	49	17	2.0	1.3	17	17
Virginia.....	50.7	34.2	36.2	557	389	431	36.5	42.2	435	524
West Virginia.....	2.5	2.4	2.0	34	30	28	2.0	2.3	29	31
North Carolina.....	20.7	19.2	22.1	237	227	270	24.1	28.1	295	355
South Carolina.....	8.3	7.3	10.7	90	82	119	15.6	14.8	184	178
Georgia.....	32.2	27.1	35.3	339	283	376	36.5	39.9	388	462
Florida.....	71.5	64.3	71.3	703	723	862	72.4	112.2	874	1,433
<b>East South Central.....</b>	<b>61.3</b>	<b>46.4</b>	<b>59.2</b>	<b>633</b>	<b>489</b>	<b>637</b>	<b>62.5</b>	<b>67.8</b>	<b>681</b>	<b>770</b>
Kentucky.....	17.3	10.3	14.2	186	120	160	14.4	15.8	164	186
Tennessee.....	22.3	18.6	23.8	208	176	233	25.4	26.8	257	294
Alabama.....	15.8	12.1	15.3	178	138	178	15.8	17.8	183	204
Mississippi.....	5.9	5.4	5.9	61	55	66	6.9	7.4	77	86
<b>West South Central.....</b>	<b>104.9</b>	<b>85.4</b>	<b>109.9</b>	<b>1,232</b>	<b>1,041</b>	<b>1,292</b>	<b>112.5</b>	<b>142.9</b>	<b>1,330</b>	<b>1,595</b>
Arkansas.....	8.5	5.6	6.6	95	69	83	6.9	6.9	87	88
Louisiana.....	18.7	15.6	15.1	230	207	204	15.8	17.8	215	245
Oklahoma.....	13.1	9.0	12.9	159	113	157	13.0	16.9	158	192
Texas.....	64.7	55.3	75.3	748	652	849	76.8	101.4	871	1,070
<b>Mountain.....</b>	<b>44.2</b>	<b>33.2</b>	<b>40.2</b>	<b>543</b>	<b>410</b>	<b>499</b>	<b>41.4</b>	<b>54.7</b>	<b>515</b>	<b>689</b>
Montana.....	1.8	1.3	0.9	21	14	13	0.9	1.2	13	18
Idaho.....	1.8	1.4	1.5	24	20	21	1.8	1.7	26	24
Wyoming.....	0.8	0.4	0.6	10	6	9	0.6	0.6	9	8
Colorado.....	16.0	13.1	17.0	190	156	199	17.2	22.7	202	269
New Mexico.....	4.4	2.7	2.9	68	39	41	2.9	3.8	41	48
Arizona.....	9.4	8.3	10.1	97	93	118	10.6	15.7	123	187
Utah.....	5.5	4.0	5.3	71	51	67	5.5	5.4	69	70
Nevada.....	4.6	1.9	1.8	73	32	31	1.8	3.6	32	65
<b>Pacific.....</b>	<b>229.1</b>	<b>149.3</b>	<b>178.1</b>	<b>3,281</b>	<b>2,347</b>	<b>2,744</b>	<b>178.6</b>	<b>241.0</b>	<b>2,752</b>	<b>3,743</b>
Washington.....	21.6	26.4	44.2	293	360	597	44.3	51.1	597	723
Oregon.....	14.2	12.4	14.1	168	154	176	14.5	15.8	181	204
California.....	179.9	99.1	110.6	2,648	1,663	1,829	110.7	161.3	1,830	2,594
Alaska.....	1.2	0.7	0.9	19	14	17	1.0	1.3	18	33
Hawaii.....	12.2	10.7	8.2	152	156	126	8.2	11.6	126	189

<sup>1</sup> Based on a sample. The relative standard error on total private housing is less than 5 percent for all States except as follows (in percent): Alaska, 14; Idaho, 6; Maine, 6; Montana, 11; Nevada, 12; Rhode Island, 6; South Dakota, 18; Vermont, 8; West Virginia, 8.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C42, annual issues.

No. 1073. NEW HOUSING UNITS AUTHORIZED—NUMBER AND VALUATION, BY SELECTED SMSA'S: 1965 TO 1968

[Includes public housing contract awards. For definition of 12,000 and 13,000 place series, see table 1063]

STANDARD METROPOLITAN STATISTICAL AREA	12,000 PLACE SERIES						13,000 PLACE SERIES			
	Housing units (1,000)			Valuation (mil. dol.)			Housing units (1,000)		Valuation (mil. dol.)	
	1965	1966	1967	1965	1966	1967	1967	1968 (prel.)	1967	1968 (prel.)
United States.....	1,272.6	1,000.3	1,131.5	15,811	13,007	14,864	1,168.6	1,377.5	15,367	18,693
All SMSA's <sup>1</sup> .....	1,016.4	795.8	925.5	12,411	10,433	12,178	935.5	1,122.4	12,328	15,196
Central cities.....	357.6	279.5	322.0	3,783	3,240	3,699	322.1	404.9	3,671	4,676
62 selected SMSA's.....	769.0	594.3	688.7	9,699	7,890	9,117	696.5	854.4	9,239	11,662
Central cities.....	236.6	181.1	204.6	2,608	2,026	2,275	201.6	274.2	2,243	3,100
Alron, Ohio <sup>2</sup> .....	4.0	3.9	4.7	60	60	75	4.7	5.1	75	82
Anaheim-Santa Ana-Garden Grove, Calif. <sup>2</sup> .....	17.7	12.7	12.2	319	268	253	12.2	23.6	253	419
Atlanta, Ga.....	20.7	16.7	23.6	216	174	244	23.6	24.4	245	284
Baltimore, Md.....	14.9	15.9	15.0	168	166	184	15.0	14.4	185	190
Birmingham, Ala.....	4.1	3.7	5.0	49	43	61	5.0	5.8	61	66
Boston, Mass. <sup>2</sup> .....	14.1	10.6	12.2	171	148	162	12.2	15.7	156	219
Buffalo, N.Y.....	6.1	5.4	5.8	75	70	79	5.8	7.2	79	95
Chicago, Ill.....	41.6	39.6	47.7	596	607	686	48.3	60.1	695	912
Cincinnati, Ohio-Ky-Ind. <sup>2</sup> .....	8.7	7.4	9.1	105	95	112	9.1	9.1	114	121
Cleveland, Ohio <sup>2</sup> .....	12.3	6.4	13.1	197	143	206	13.6	15.2	216	250
Columbus, Ohio <sup>2</sup> .....	8.4	5.7	7.7	111	84	108	7.8	9.8	109	134
Dallas, Tex.....	13.9	11.8	18.4	156	130	201	18.4	31.0	202	288
Dayton, Ohio <sup>2</sup> .....	8.1	6.0	6.9	101	85	74	7.0	7.3	94	108
Denver, Colo.....	8.4	9.0	10.4	102	108	133	10.4	14.5	133	177
Detroit, Mich.....	30.9	24.1	30.3	447	355	455	30.4	28.9	456	474
Fort Lauderdale-Hollywood, Fla.....	11.9	11.3	12.6	150	151	174	13.1	23.3	178	339
Fort Worth, Tex.....	6.1	4.6	9.0	66	62	96	9.4	12.5	100	128
Hartford, Conn. <sup>2</sup> .....	5.7	4.1	6.3	63	51	72	6.3	6.3	72	74
Honolulu, Hawaii.....	10.8	9.3	7.1	135	138	109	7.1	9.6	109	160
Houston, Tex.....	13.2	12.5	16.5	149	145	182	16.7	21.4	187	228
Indianapolis, Ind. <sup>2</sup> .....	9.5	9.0	10.0	96	92	112	10.0	10.1	113	113
Jacksonville, Fla.....	3.3	3.3	3.0	24	22	21	3.0	5.1	21	39
Kansas City, Mo.-Kans. <sup>2</sup> .....	12.0	9.4	11.2	148	119	140	11.7	13.3	147	165
Las Vegas, Nev.....	1.6	0.8	0.9	24	13	15	0.9	2.2	15	40
Los Angeles-Long Beach, Calif. <sup>2</sup> .....	52.0	21.0	23.1	771	376	404	23.1	33.2	404	575
Louisville, Ky-Ind.....	9.1	4.7	7.1	84	50	75	7.1	8.4	75	89
Memphis, Tenn-Ark. <sup>2</sup> .....	7.6	6.4	9.2	54	50	79	9.2	8.7	70	91
Miami, Fla.....	16.2	14.1	14.9	160	140	179	14.9	23.6	179	292
Milwaukee, Wis. <sup>2</sup> .....	9.4	6.7	9.3	118	89	134	9.7	8.9	142	138
Minneapolis-St. Paul, Minn.....	15.2	10.1	16.6	204	151	227	16.7	23.4	227	342
Nashville, Tenn. <sup>2</sup> .....	4.7	4.3	5.3	37	33	45	5.9	7.5	56	68
New Orleans, La. <sup>2</sup> .....	11.0	8.8	7.5	140	121	103	7.5	7.2	104	109
New York, N.Y.....	53.9	45.0	45.1	705	597	583	45.2	47.5	585	686
Newark, N.J.....	12.0	10.2	7.8	153	133	115	7.8	5.9	115	99
Newport News-Hampton, Va.....	4.1	2.3	2.5	38	22	27	2.5	3.5	27	39
Norfolk-Portsmouth, Va.....	6.4	3.7	4.3	80	48	67	4.3	5.3	57	73
Oklahoma City, Okla.....	6.9	4.0	5.4	88	53	66	5.4	8.0	67	47
Omaha, Nebr-Iowa.....	4.8	2.9	4.4	42	28	38	4.4	5.6	38	38
Orlando, Fla.....	4.3	3.5	4.3	44	38	48	4.3	7.4	48	84
Paterson-Clifton-Passaic, N.J.....	8.4	7.2	5.3	111	94	79	5.3	5.3	79	84
Philadelphia, Pa.-N.J.....	30.0	27.0	26.3	305	274	284	28.2	26.9	297	311
Phoenix, Ariz.....	5.9	6.1	7.6	59	65	79	7.6	11.2	79	124
Pittsburgh, Pa.....	9.4	8.2	10.4	129	118	130	11.1	10.2	140	144
Portland, Ore.-Wash.....	7.9	7.4	9.6	97	95	124	9.6	12.6	124	162
Providence-Pawtucket- Warwick, R.I.-Mass. <sup>2</sup> .....	6.2	4.8	4.6	70	58	56	4.6	4.8	57	59
Rochester, N.Y. <sup>2</sup> .....	7.4	5.8	6.9	111	96	112	7.0	6.8	114	112
Sacramento, Calif. <sup>2</sup> .....	7.6	4.9	5.5	101	71	73	5.5	6.6	73	90
St. Louis, Mo.-Ill. <sup>2</sup> .....	13.9	14.3	12.5	236	205	190	12.8	16.8	192	256
Salt Lake City, Utah <sup>2</sup> .....	3.5	2.1	2.6	46	27	34	2.7	2.9	36	38
San Antonio, Tex. <sup>2</sup> .....	4.3	4.4	6.5	39	44	57	6.9	7.9	64	69
San Bernardino-Riverside- Ontario, Calif.....	12.0	5.8	5.3	139	80	80	5.3	7.4	80	108
San Diego, Calif.....	9.5	7.4	12.6	134	110	170	12.6	21.6	170	275
San Francisco-Oakland, Calif. <sup>2</sup> .....	31.1	14.7	15.6	485	265	274	15.6	20.6	274	367
San Jose, Calif.....	10.4	6.7	10.5	164	120	186	10.5	17.6	186	273
Santa Barbara, Calif.....	3.3	1.6	1.6	39	28	26	1.6	2.0	26	33
Seattle-Everett, Wash. <sup>2</sup> .....	9.6	15.6	27.4	147	224	391	27.4	29.5	391	436
Seacuse, N.Y.....	3.5	4.2	4.4	39	49	47	4.5	4.2	48	47
Tacoma, Wash.....	3.1	2.7	5.1	38	36	59	5.1	7.3	59	92
Tampa-St. Petersburg, Fla.....	8.3	7.7	10.7	94	82	114	10.7	14.2	114	156
Tucson, Ariz.....	2.0	1.4	1.6	23	20	27	1.6	2.8	27	46
Washington, D.C.-Md.-Va.....	55.9	39.2	26.0	584	419	328	26.0	25.8	328	361
West Palm Beach, Fla.....	5.3	4.3	4.8	64	53	63	4.8	9.2	63	146

<sup>1</sup> Includes 228 SMSA's. <sup>2</sup> Year-to-year data not entirely comparable because of changes in area components.  
Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C42, annual issues.

No. 1074. NEW NONFARM HOUSING UNITS STARTED, BY OWNERSHIP: 1945 TO 1968  
 [In thousands of units. Excludes farm housing]

YEAR	YEAR			YEAR	YEAR		
	Total	Private	Public		Total	Private	Public
1945	326	325	1	1964	1,535	1,602	32
1950	1,952	1,908	44	1965	1,488	1,451	37
1955	1,646	1,627	19	1966	1,173	1,142	31
1960	1,274	1,230	44	1967	1,299	1,268	30
1962	1,469	1,439	30	1968 (prel.)	1,524	1,484	40
1963	1,615	1,583	32				

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C20 and *Housing Construction Statistics, 1889 to 1964*.

No. 1075. NEW HOUSING UNITS STARTED—SELECTED CHARACTERISTICS: 1960 TO 1968  
 [In thousands]

CHARACTERISTIC	ALL UNITS				NONFARM UNITS			
	1960	1965	1967	1968 (prel.)	1960	1965	1967	1968 (prel.)
Total	1,296	1,510	1,322	1,548	1,274	1,488	1,299	1,524
By type of program:								
Privately owned	1,252	1,473	1,292	1,508	1,230	1,451	1,268	1,484
With FHA aid	261	197	180	227	261	197	180	227
With VA aid	75	49	52	56	75	49	52	56
Publicly owned	44	37	30	40	44	37	30	40
In structures with—								
1 unit	1,009	965	845	901	987	943	822	877
2 units	61	58	48	54	61	58	48	54
3 units or more	237	486	429	593	237	486	429	593
By area: <sup>1</sup>								
Inside SMSA's	889	1,035	920	1,118	888	1,035	920	1,118
Outside SMSA's	407	475	402	429	386	453	379	406
By region: <sup>2</sup>								
Northeast	237	281	224	237	236	281	223	237
North Central	304	369	344	378	300	364	337	372
South	441	588	532	634	425	572	515	616
West	314	271	223	269	314	271	223	299

<sup>1</sup> For definition of standard metropolitan statistical area (SMSA), see text, p. 2. 1960 based on 1959 definitions; thereafter, on 1964 definitions as amended through April 1967. <sup>2</sup> For composition of regions, see fig. I, p. xii.

No. 1076. NEW HOUSING UNITS STARTED—NUMBER AND CONSTRUCTION COST: 1960 TO 1969

YEAR AND MONTH	NUMBER (1,000)				COST (mil. dol.)				AVERAGE COST PER UNIT (dol.)			
	Total	Privately-owned		Publicly-owned	Total	Privately-owned		Publicly-owned	Total	Privately-owned		Publicly-owned
		Total	1-unit structures			Total	1-unit structures			Total	1-unit structures	
TOTAL												
1960	1,206	1,252	995	44	16,357	15,831	13,647	528	12,625	12,650	13,725	12,025
1964	1,562	1,529	972	32	20,396	19,995	14,997	400	13,050	13,075	15,425	12,450
1965	1,510	1,473	994	37	20,528	20,061	15,558	466	13,600	13,625	16,150	12,625
1966	1,196	1,165	779	31	16,969	16,575	13,044	394	14,175	14,225	16,750	12,625
1967	1,322	1,292	844	30	19,072	18,674	14,627	397	14,425	14,450	17,325	13,100
1968 <sup>1</sup>	1,548	1,508	900	40	23,164	22,622	16,670	562	14,975	15,000	18,525	14,025
1969: <sup>1</sup>												
Jan.	106	101	51	4	1,549	1,484	962	65	14,650	14,625	18,750	15,000
Feb.	95	90	48	5	1,442	1,377	921	65	15,200	15,275	19,225	13,750
Mar.	135	132	72	4	2,066	2,011	1,387	55	15,233	15,246	19,275	14,771
Apr.	158	157	84	1	2,469	2,456	1,664	13	15,512	15,518	19,750	14,554
NONFARM												
1960	1,274	1,230	973	44	16,124	15,596	13,411	528	12,650	12,675	13,800	12,025
1964	1,535	1,502	945	32	20,088	19,087	14,689	400	13,100	13,100	15,550	12,450
1965	1,488	1,451	941	37	20,280	19,813	15,312	466	13,625	13,650	16,250	12,625
1966	1,173	1,142	755	31	16,663	16,269	12,738	394	14,200	14,250	16,875	12,625
1967	1,299	1,268	821	30	18,788	18,390	14,343	397	14,475	14,500	17,475	13,100
1968 <sup>1</sup>	1,524	1,484	875	40	22,851	22,289	16,349	562	15,000	15,025	18,575	14,025
1969: <sup>1</sup>												
Jan.	104	100	50	4	1,533	1,468	949	65	14,675	14,650	18,975	15,000
Feb.	94	89	47	5	1,428	1,363	907	65	15,200	15,275	19,300	13,750
Mar.	134	130	70	4	2,047	1,992	1,369	55	15,239	15,252	19,362	14,771
Apr.	166	165	82	1	2,443	2,430	1,639	13	15,506	15,511	19,824	14,554

NA Not available. <sup>1</sup> Preliminary.

Source of tables 1075 and 1076: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C20. Includes data from Federal Housing Administration and Veterans Administration.

No. 1077. NEW PRIVATE NONFARM ONE-FAMILY HOUSES SOLD OR FOR SALE:  
1965 TO 1969

[Based on monthly interviews with builders or owners of a national probability sample of 1-family homes for which building permits have been issued or, in nonpermit areas, on which construction has started. For details, see source. For definition of median, see preface]

TYPE OF FINANCING AND PERIOD	NUMBER OF HOMES (1,000)					Median sales price (dollars)	Median number of months from start of construction to sale	
	Total <sup>1</sup>	Sales price						
		Under \$15,000	\$15,000- \$19,999	\$20,000- \$24,999	\$25,000- \$29,999			\$30,000 and over
<b>Homes sold, total:<sup>2</sup></b>								
1965 .....	575	115	160	121	81	75	20,000	(NA)
1966 .....	461	62	127	90	68	82	21,400	(NA)
1967 .....	487	52	122	98	81	105	22,700	(NA)
1968 .....	490	37	101	101	85	142	24,700	(NA)
Jan.-Mar. ....	124	11	28	26	21	32	23,900	3.6
1969, Jan.-Mar. (prel.) .....	119	7	18	23	17	34	25,500	4.5
<b>FHA-insured:</b>								
1965 .....	134	47	56	22	6	2	16,500	(NA)
1966 .....	88	23	37	15	6	3	17,500	(NA)
1967 .....	99	20	45	20	8	4	17,800	(NA)
1968 .....	93	15	37	26	10	4	19,200	(NA)
Jan.-Mar. ....	26	4	11	7	3	1	19,000	3.2
1969, Jan.-Mar. (prel.) .....	23	3	8	6	2	1	19,200	3.8
<b>VA guaranteed:</b>								
1965 .....	40	10	16	9	4	1	17,900	(NA)
1966 .....	51	10	22	12	4	1	18,000	(NA)
1967 .....	71	12	30	16	7	4	18,700	(NA)
1968 .....	63	6	26	17	8	4	19,800	(NA)
Jan.-Mar. ....	18	2	8	4	2	1	18,700	3.0
1969, Jan.-Mar. (prel.) .....	14	1	4	5	2	1	21,000	4.3
<b>Conventional mortgage:</b>								
1965 .....	339	48	76	80	63	65	22,700	(NA)
1966 .....	273	24	56	55	51	71	24,400	(NA)
1967 .....	265	15	40	53	58	86	26,000	(NA)
1968 .....	290	13	31	52	60	121	28,500	(NA)
Jan.-Mar. ....	70	3	8	13	15	27	27,800	3.9
1969, Jan.-Mar. (prel.) .....	73	3	5	11	12	30	29,900	4.7
<b>Homes for sale:<sup>3</sup></b>								
1965, Dec. 31 .....	227	32	57	39	30	40	21,300	4.5
1966, Dec. 31 .....	195	20	44	34	28	43	22,800	6.1
1967, Dec. 31 .....	189	16	34	33	24	43	23,600	3.8
1968, Mar. 31 .....	192	15	36	32	24	42	23,600	4.5
June 30 .....	202	12	35	32	25	44	24,100	3.7
Sept. 30 .....	202	10	34	33	27	47	24,600	3.7
Dec. 31 .....	219	12	38	35	30	50	24,600	4.0
1969, Mar. 31 .....	213	10	37	36	31	51	24,900	4.7

NA Not available. <sup>1</sup> Totals include homes with price data not reported.

<sup>2</sup> Includes homes with cash and other financing reported, and homes with type of financing not reported.

<sup>3</sup> Data refer to intended sales price and to median number of months from start of construction to end of quarter.

Source: Dept. of Commerce, Bureau of the Census, and Dept. of Housing and Urban Development, Office for Demonstrations and Intergovernmental Relations; *Construction Reports*, Series C25 (a joint publication).

No. 1078. MOBILE HOMES AND TRAVEL TRAILERS—MANUFACTURERS' SHIPMENTS:  
1960 TO 1969

[A mobile home, or housing-type trailer, is a vehicular portable structure built on a chassis and designed to be used without a permanent foundation as a year-round dwelling when connected to utilities. Mobile homes are defined as units 29 feet or longer and weighing over 4,500 pounds; travel trailers, as units less than 29 feet long, regardless of weight, or weighing less than 4,500 pounds, regardless of length. Excludes units designed for commercial uses, pickup cabs, folding campers, and amphibious units]

YEAR AND QUARTER	Total	Mobile homes	Travel trailers	Mobile homes as percent of total shipments
1960 .....	144,000	103,700	40,300	72.0
1961 .....	130,700	90,200	40,500	69.0
1962 .....	175,000	118,000	57,000	67.4
1963 .....	223,010	150,840	72,170	67.6
1964 .....	281,690	191,320	90,370	67.9
1965 .....	324,050	216,470	107,580	66.8
1966 .....	340,000	217,300	122,700	63.9
1967 .....	370,780	240,360	130,420	64.8
1968 .....	476,250	317,950	158,300	66.8
1969, Jan.-Apr. ....	190,220	121,520	68,700	63.9

Source: Dept. of Commerce, Business and Defense Services Administration; *Construction Review*.

## No. 1079. FIRST AND SECOND HOMES: 1967

[In thousands, except percent. As of April]

ITEM	Total	Percent	ITEM	Total	Percent
Number of households .....	58,845	100.0	Second homes, total .....	1,547	100.0
First homes:			Owned .....	1,496	96.7
Owner-occupied .....	37,602	63.9	Rented .....	51	3.3
Renter-occupied .....	21,243	36.1	Single-family .....	504	32.6
With no second home .....	57,169	97.1	Vacation cottage .....	874	56.5
With second home .....	1,676	2.9	Other .....	169	10.9

Source: Dept. of Commerce, Bureau of the Census; *Second Homes in the United States*.

## No. 1080. VACANCY RATES—REGIONS, AND INSIDE AND OUTSIDE STANDARD METROPOLITAN STATISTICAL AREAS: 1960 TO 1969

[In percent. Based on Current Population Survey; see text, p. 1. Rental rate is relationship between vacant housing for rent and the total rental supply, which comprises renter-occupied units, vacant units already rented and awaiting occupancy, and vacant units available for rent. Home-owner rate is relationship between vacant housing for sale and the total home-owner supply, which comprises owner-occupied units, vacant units already sold and awaiting occupancy, and vacant units available for sale. For composition of regions, see fig. 1, p. xii; for definition of standard metropolitan statistical areas, see text, p. 2; covers 212 SMSA's as constituted in 1960]

RATE AND YEAR	United States	REGIONS				Inside SMSA's	Outside SMSA's
		North-east	North Central	South	West		
<b>Rental vacancy rate:</b>							
1960, April .....	6.7	4.2	6.7	8.0	8.8	6.4	7.3
1965, 1st quarter .....	7.7	5.5	7.2	8.2	10.6	7.7	7.6
1967, 1st quarter .....	6.6	5.0	5.3	6.9	10.0	6.2	7.6
1968, 1st quarter .....	5.5	3.4	5.0	6.8	7.3	4.9	7.1
1969, 1st quarter .....	5.0	2.9	4.9	6.6	5.9	4.3	6.9
<b>Home-owner vacancy rate:</b>							
1960, April .....	1.6	1.2	1.3	1.8	2.0	1.7	1.3
1965, 1st quarter .....	1.5	0.9	1.2	1.9	1.9	1.5	1.5
1967, 1st quarter .....	1.3	0.9	1.0	1.7	1.8	1.2	1.4
1968, 1st quarter .....	1.0	0.7	0.9	1.3	1.1	0.9	1.3
1969, 1st quarter .....	0.9	0.6	0.8	1.2	1.0	0.8	1.1

## No. 1081. VACANT HOUSING UNITS—CONDITION AND STATUS, INSIDE AND OUTSIDE STANDARD METROPOLITAN STATISTICAL AREAS: 1965 TO 1969

[Percent distribution. See headnote, table 1080. For definition of standard metropolitan statistical areas, see text, p. 2; covers 212 SMSA's as constituted in 1960]

CONDITION AND STATUS	TOTAL				INSIDE SMSA'S			OUTSIDE SMSA'S		
	1st qtr. 1965	1st qtr. 1967	1st qtr. 1968	1st qtr. 1969	1st qtr. 1967	1st qtr. 1968	1st qtr. 1969	1st qtr. 1967	1st qtr. 1968	1st qtr. 1969
<b>All housing units .....</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>							
<b>Year-round vacant:</b>										
Sound or deteriorating .....	6.9	6.9	6.0	5.9	6.0	5.0	5.0	8.5	7.6	7.6
For rent .....	2.8	2.3	1.9	1.7	2.4	1.9	1.7	2.1	2.0	1.9
For sale only .....	0.8	0.8	0.6	0.5	0.7	0.5	0.4	0.9	0.7	0.7
Rented or sold, awaiting occupancy .....	0.4	0.4	0.5	0.8	0.5	0.5	0.6	0.4	0.4	0.4
Held off market .....	2.9	3.4	3.0	3.1	2.4	2.1	2.3	5.1	4.5	4.7
Dilapidated .....	0.7	0.7	0.7	0.7	0.4	0.5	0.4	1.2	1.2	1.0
<b>Seasonal vacant .....</b>	<b>3.1</b>	<b>2.7</b>	<b>2.8</b>	<b>2.6</b>	<b>0.9</b>	<b>1.1</b>	<b>1.0</b>	<b>5.9</b>	<b>5.7</b>	<b>5.4</b>
Occupied .....	89.3	89.7	90.6	90.8	92.7	93.4	93.6	84.4	85.5	86.0

Source of tables 1080 and 1081: Dept. of Commerce, Bureau of the Census; *Current Housing Reports*, Series H-111.

No. 1082. AVAILABLE VACANT HOUSING UNITS—SELECTED CHARACTERISTICS:  
1967 TO 1969

[Percent distribution. First quarter figures. See headnote, table 1080. For definition of median, see preface]

ITEM	1967	1968	1969	ITEM	1967	1968	1969
<b>RENTAL UNITS</b>				<b>HOMEOWNER UNITS</b>			
<b>Units in structure</b> .....	100	100	100	<b>Units in structure</b> .....	100	100	100
1 housing unit.....	31	34	32	1 housing unit.....	89	86	86
2-4 housing units.....	33	31	30	2 housing units.....	6	7	9
5 housing units or more.....	36	35	38	3 housing units or more.....	5	7	5
<b>Duration of vacancy</b> .....	100	100	100	<b>Duration of vacancy</b> .....	100	100	100
Less than 1 month.....	28	31	32	Less than 1 month.....	11	11	12
1 up to 2 months.....	13	12	15	1 up to 2 months.....	9	12	11
2 up to 4 months.....	17	16	15	2 up to 4 months.....	17	14	16
4 months or more.....	42	41	38	4 months or more.....	63	63	61
<b>Year built</b> .....	100	100	100	<b>Year built</b> .....	100	100	100
1949 or earlier.....	69	72	69	1949 or earlier.....	46	54	54
1950 to 1959.....	13	12	9	1950 to 1959.....	22	17	13
1960 or later.....	18	16	22	1960 or later.....	32	29	33
Percent with all plumbing facilities.....	81	80	81	Percent with all plumbing facilities.....	91	91	92
Median number of rooms.....	3.5	3.6	3.6	Median number of rooms.....	5.5	5.4	5.3
Median monthly rent asked.....	\$67	\$64	\$69	Median sale price asked.....	\$14,100	\$12,600	\$15,000

Source: Dept. of Commerce, Bureau of the Census; *Current Housing Reports*, Series H-111.

No. 1083. LOW-RENT DWELLING UNITS SUPERVISED BY THE HOUSING ASSISTANCE  
ADMINISTRATION: 1950 TO 1968

[In thousands. As of December 31. Includes Puerto Rico and Virgin Islands]

ITEM	1950 <sup>1</sup>	1955 <sup>1</sup>	1960		1965		1967		1968	
			Total	Elderly <sup>2</sup>						
<b>Total</b> .....	302.1	489.7	593.3	18.9	735.7	97.7	850.2	155.0	925.9	184.7
<b>CONSTRUCTION STATUS</b>										
Under management.....	201.7	413.6	478.2	1.1	604.9	36.2	673.2	69.7	744.5	97.2
Under construction.....	31.5	21.1	36.4	4.1	42.4	21.6	48.8	27.2	75.6	42.8
Not yet under construction <sup>3</sup> .....	68.9	55.1	78.8	13.7	88.4	40.0	128.2	58.1	105.7	44.6
<b>PROGRAM</b>										
Public Law 171 <sup>4</sup> .....	101.7	270.3	385.9	18.9	533.0	97.7	648.9	155.0	725.1	184.7
Public Law 412 <sup>5</sup> .....	118.6	117.0	114.2	(X)	113.5	(X)	113.2	(X)	113.2	(X)
Public Law 671, 1940 <sup>6</sup> .....	50.6	49.4	46.8	(X)	46.5	(X)	46.5	(X)	46.5	(X)
Public Works Administration <sup>7</sup> .....	21.6	21.4	21.1	(X)	20.3	(X)	19.9	(X)	19.9	(X)
Farm labor camps <sup>8</sup> .....	9.6	9.0	0.6	(X)	-	(X)	-	(X)	-	(X)
Public Law 475, 1950 <sup>9</sup> .....	(X)	22.6	24.7	(X)	22.4	(X)	21.7	(X)	21.1	(X)

- Represents zero. X Not applicable.

<sup>1</sup> Excludes units which have been sold to mutual housing associations, limited dividend corporations (PWA), and homestead associations on which HAA has mortgages for collection.

<sup>2</sup> Covers units designed specifically for persons 62 years old or over, disabled, or handicapped.

<sup>3</sup> Limited to units under financial assistance contracts.

<sup>4</sup> Housing Act of 1949, which authorized additional contract authority to raise public housing goals.

<sup>5</sup> U.S. Housing Act of 1937, which established the low-unit public housing program for low income families.

<sup>6</sup> Built for World War II defense workers and converted to low-rent use.

<sup>7</sup> Built in mid-1930's and brought into low-rent program by Executive order.

<sup>8</sup> Built by Dept. of Agriculture for migrant farm workers; conveyed to HAA for low-rent use under terms of the Housing Act of 1950.

<sup>9</sup> Lanham Act permanent housing conveyed to local housing authorities for low-rent use during 1952 to 1957.

Source: Dept. of Housing and Urban Development, Housing Assistance Administration; *Annual Report*, and unpublished data.

No. 1084. OCCUPIED HOUSING UNITS—TENURE, AND POPULATION PER OCCUPIED UNIT, BY COLOR OF HOUSEHOLD HEAD AND BY RESIDENCE: 1890 TO 1960

[In thousands, except percent. Excludes Alaska and Hawaii, except as noted. Tenure allocated for housing units which did not report. Minus sign (-) denotes decrease. See also *Historical Statistics, Colonial Times to 1867*, series N 139-146]

YEAR, COLOR, AND RESIDENCE	OCCUPIED UNITS				PERCENT INCREASE OVER PRECEDING CENSUS		Population per occupied unit <sup>2</sup>	
	Total	Owner occupied		Renter occupied		Total occupied units		Total population
		Number	Percent	Number	Percent			
<b>TOTAL</b>								
1890.....	12,690	6,066	47.8	6,624	52.2	(NA)	(NA)	5.0
1900.....	15,964	7,455	46.7	8,509	53.3	25.8	20.7	4.8
1910.....	20,256	9,301	45.9	10,954	54.1	26.9	21.0	4.5
1920.....	24,352	11,114	45.6	13,238	54.4	20.2	14.9	4.3
1930.....	29,905	14,280	47.8	15,624	52.2	22.8	18.1	4.1
1940.....	34,855	15,196	43.6	19,659	56.4	16.6	7.2	3.8
1950.....	42,826	23,560	55.0	19,266	45.0	22.9	14.5	3.5
1960.....	52,814	32,706	61.9	20,107	38.1	23.3	18.4	3.4
1960 <sup>3</sup> .....	53,024	32,797	61.9	20,227	38.1	23.4	18.5	3.4
<b>COLOR</b>								
<b>White</b>								
1890.....	11,255	5,794	51.5	5,462	48.5	(NA)	(NA)	4.9
1900.....	14,064	7,007	49.8	7,057	50.2	25.0	21.2	4.8
1910.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1920.....	21,826	10,511	48.2	11,315	51.8	(NA)	(NA)	4.3
1930.....	26,983	13,544	50.2	13,439	49.8	23.6	16.3	4.1
1940.....	31,561	14,418	45.7	17,143	54.3	17.0	7.2	3.7
1950.....	39,044	22,241	57.0	16,803	43.0	23.7	14.1	3.5
1960.....	47,777	30,783	64.4	16,994	35.6	22.4	17.4	3.3
1960 <sup>3</sup> .....	47,880	30,823	64.4	17,057	35.6	22.5	17.5	3.3
<b>Nonwhite</b>								
1890.....	1,435	273	19.0	1,162	81.0	(NA)	(NA)	5.5
1900.....	1,900	448	23.6	1,452	76.4	32.4	17.1	4.8
1910.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1920.....	2,526	603	23.9	1,923	76.1	(NA)	(NA)	4.3
1930.....	2,922	737	25.2	2,185	74.8	15.7	14.7	4.3
1940.....	3,293	778	23.6	2,516	76.4	12.7	7.7	4.1
1950.....	3,783	1,319	34.9	2,464	65.1	14.9	17.1	4.2
1960.....	5,037	1,923	38.2	3,114	61.8	33.1	27.0	4.0
1960 <sup>3</sup> .....	5,144	1,974	38.4	3,171	61.6	33.0	26.7	4.0
<b>RESIDENCE</b>								
<b>Nonfarm</b>								
1890.....	7,923	2,924	36.9	4,999	63.1	(NA)	(NA)	(NA)
1900.....	10,274	3,790	36.9	6,484	63.1	28.7	(NA)	(NA)
1910.....	14,132	5,454	38.6	8,678	61.4	37.5	(NA)	(NA)
1920.....	17,600	7,189	40.8	10,411	59.2	24.5	(NA)	4.2
1930.....	23,800	10,721	46.0	12,579	54.0	32.4	26.0	4.0
1940.....	27,748	11,413	41.1	16,335	58.9	19.1	9.5	3.7
1950.....	37,105	19,802	53.4	17,304	46.6	33.7	25.8	3.4
1960 <sup>3,4</sup> .....	49,458	30,164	61.0	19,294	39.0	35.3	30.0	3.4
<b>Farm<sup>5</sup></b>								
1890.....	4,767	3,143	65.9	1,624	34.1	(NA)	(NA)	(NA)
1900.....	5,690	3,665	64.4	2,025	35.6	19.4	(NA)	(NA)
1910.....	6,124	3,847	62.8	2,276	37.2	7.6	(NA)	(NA)
1920.....	6,751	3,925	58.1	2,827	41.9	10.2	(NA)	4.7
1930.....	6,605	3,660	53.9	3,045	46.1	-2.2	-4.6	4.6
1940.....	7,107	3,783	53.2	3,324	46.8	7.6	0.2	4.3
1950.....	5,721	3,758	65.7	1,963	34.3	-19.5	-23.7	4.0
1960 <sup>3,4</sup> .....	5,566	2,633	73.8	933	26.2	-37.7	-41.7	3.8

NA Not available.

<sup>1</sup> Statistics on the number of occupied units are essentially comparable although identified by various terms—the term “family” applies to figures for 1930 and earlier; “occupied dwelling unit,” 1940 and 1950; and “occupied housing unit,” 1960. For 1890, 1910, and 1920, includes the small number of quasi-families; 1900 and 1930 represent private families only.

<sup>2</sup> Total population, which includes the population in group quarters and quasi-family groups, divided by the number of occupied units. This concept was used for consistency; population counts exclusive of persons in group quarters and quasi-family groups are not available for some of the census years.

<sup>3</sup> Includes Alaska and Hawaii.

<sup>4</sup> Not comparable with data for earlier censuses because of a basic change in definition of farm residence. See text, p. 2.

<sup>5</sup> For 1890 to 1920, includes a small proportion of urban-farm families in addition to rural-farm.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1960*, and unpublished data.

## No. 1085. HOUSING UNITS—SELECTED CHARACTERISTICS, BY STATES: 1960

[For definition of median, see preface]

STATE	ALL HOUSING UNITS				OCCUPIED HOUSING UNITS					AVAILABLE VACANT HOUSING UNITS, RATE	
	Total (1,000)	Percent—			Total (1,000)	Percent—		Medians		Homeowner vacancy <sup>2</sup>	Rental vacancy <sup>3</sup>
		With all plumbing facilities <sup>1</sup>	Dilapidated or lacking 1 or more plumbing facilities	Deteriorating		Owner occupied	Occupied by non-white	Rooms	Persons		
United States..	58,326	74.0	7.8	18.2	53,024	61.9	9.7	4.9	3.0	1.6	6.7
New England.....	3,522	78.7	7.6	13.7	3,116	59.1	2.3	5.2	3.0	1.4	5.4
Maine.....	365	61.2	7.2	31.5	280	66.5	0.4	5.4	3.0	1.6	6.8
N.H.....	224	72.8	8.7	18.4	180	65.1	0.3	5.3	2.9	1.7	6.1
Vt.....	136	68.4	10.7	20.9	111	66.0	0.1	5.8	3.0	1.5	6.2
Mass.....	1,691	81.1	8.0	11.0	1,535	55.9	2.3	5.3	3.0	1.2	5.0
R.I.....	287	78.7	6.6	14.7	257	54.5	2.0	5.1	2.9	1.2	6.6
Conn.....	819	84.7	6.7	8.6	753	61.9	3.8	5.1	3.1	1.5	5.0
Middle Atlantic.....	11,277	81.2	8.4	10.4	10,406	55.2	7.7	5.1	2.9	1.2	3.8
N.Y.....	5,696	81.3	8.9	9.8	5,249	44.8	8.3	4.7	2.8	1.2	3.2
N.J.....	1,989	85.2	7.0	7.9	1,806	61.3	7.5	5.2	3.1	1.3	3.9
Pa.....	3,582	78.7	8.5	12.7	3,351	68.3	7.0	5.6	3.0	1.1	5.5
E. N. Central.....	11,658	77.1	7.8	15.1	10,711	66.7	7.2	5.1	3.0	1.4	6.7
Ohio.....	3,041	77.6	8.2	14.2	2,853	67.4	7.3	5.3	3.0	1.5	6.6
Ind.....	1,503	73.0	8.4	18.5	1,388	71.1	5.1	4.9	3.0	1.3	7.0
Ill.....	3,276	78.0	7.4	14.6	3,085	57.8	9.4	4.9	2.9	1.2	5.6
Mich.....	2,549	78.6	8.1	13.2	2,239	74.4	8.4	5.3	3.1	1.5	9.7
Wis.....	1,289	75.0	6.9	18.1	1,146	68.6	1.8	5.3	3.0	1.2	5.4
W. N. Central.....	5,140	68.6	8.0	23.3	4,668	67.8	3.7	5.0	2.8	1.3	6.7
Minn.....	1,119	70.4	6.4	23.1	992	72.1	1.0	5.2	3.0	1.1	6.0
Iowa.....	905	69.8	9.2	21.0	841	69.1	0.9	5.4	2.8	1.0	5.4
Mo.....	1,491	65.8	7.3	26.9	1,360	64.3	8.2	4.7	2.7	1.6	7.1
N. Dak.....	195	60.6	5.6	33.8	173	68.4	1.3	5.1	3.3	1.4	5.3
S. Dak.....	216	61.5	7.6	31.0	195	67.2	2.4	5.2	3.1	1.1	5.6
Nebr.....	473	72.3	9.1	18.6	438	64.8	2.1	5.1	2.8	1.1	6.0
Kans.....	740	71.9	10.6	17.5	673	68.9	3.9	5.1	2.8	1.6	9.4
South Atlantic.....	8,033	67.2	6.4	26.4	7,267	61.0	19.0	4.9	3.1	1.9	7.6
Del.....	144	80.3	6.5	13.2	129	66.9	12.2	5.7	3.1	1.9	8.5
D.C.....	935	81.4	6.7	11.8	863	64.5	14.3	5.5	3.2	1.8	6.2
Va.....	293	84.9	6.4	8.7	252	30.0	44.1	4.0	2.3	1.2	3.8
W. Va.....	1,169	66.2	5.6	28.2	1,073	61.3	17.6	5.1	3.2	1.6	6.9
N.C.....	574	56.7	9.2	34.1	521	64.3	4.5	5.1	3.2	1.2	7.9
S.C.....	1,323	57.1	6.4	36.5	1,205	60.1	20.8	4.9	3.3	1.1	6.4
Ga.....	678	54.3	6.4	39.4	604	57.3	29.3	4.8	3.4	1.3	7.7
Fla.....	1,170	58.4	6.7	34.9	1,070	56.2	24.6	4.8	3.2	1.6	5.9
1,777	78.3	5.6	16.1	1,550	67.5	14.5	4.7	2.6	3.5	12.7	
E. S. Central.....	3,606	53.0	6.7	40.3	3,307	61.8	19.5	4.7	3.2	1.3	6.3
Ky.....	926	53.4	6.0	40.6	852	64.3	7.1	4.8	3.1	1.2	6.9
Tenn.....	1,084	57.2	7.0	35.8	1,003	63.7	14.7	4.8	3.1	1.5	6.2
Ala.....	967	53.5	7.1	39.4	884	59.7	25.8	4.8	3.2	1.6	6.8
Miss.....	629	44.5	6.6	48.9	568	57.7	36.5	4.6	3.2	1.0	4.8
W. S. Central.....	5,534	64.8	9.3	25.9	4,929	63.7	14.9	4.7	3.0	2.0	9.6
Ark.....	587	48.2	7.4	44.4	524	61.4	18.6	4.5	2.9	1.4	6.1
La.....	978	60.9	8.1	31.0	892	59.0	28.4	4.5	3.2	1.8	7.2
Okla.....	816	66.0	11.2	22.8	735	67.8	8.0	4.7	2.7	1.6	9.6
Tex.....	3,153	68.8	9.6	21.6	2,778	64.8	11.7	4.7	3.0	2.2	11.1
Mountain.....	2,227	74.9	9.0	16.1	1,976	65.2	3.8	4.6	3.1	1.8	9.1
Mont.....	233	68.0	10.1	21.9	202	64.0	2.3	4.5	2.9	1.4	9.3
Idaho.....	224	72.6	10.9	16.5	194	70.5	1.1	4.7	3.1	1.5	9.5
Wyo.....	113	71.9	10.5	17.5	99	62.2	1.6	4.5	3.0	1.2	8.0
Colo.....	595	76.4	8.2	15.4	529	63.8	2.7	4.8	2.9	1.7	8.1
N. Mex.....	282	69.5	8.2	22.3	251	65.3	5.7	4.5	3.4	1.6	9.2
Ariz.....	416	76.2	8.4	15.4	367	63.9	7.7	4.5	3.1	2.4	10.8
Utah.....	263	81.9	10.1	8.0	242	71.7	1.6	4.8	3.4	1.9	8.7
Nev.....	102	80.9	7.7	11.4	92	56.3	5.7	4.2	2.6	1.7	8.4
Pacific.....	7,331	83.9	7.6	8.5	6,645	60.2	7.4	4.7	2.7	2.1	8.8
Wash.....	1,010	78.4	9.8	11.8	894	68.5	2.9	4.9	2.7	1.8	11.8
Oreg.....	623	76.6	11.1	12.2	558	69.3	1.7	4.9	2.7	1.6	9.2
Calif.....	5,466	86.5	6.7	6.8	4,982	58.4	7.0	4.7	2.7	2.2	8.5
Alaska.....	67	57.7	9.3	32.9	57	48.3	16.3	3.7	3.1	1.8	6.8
Hawaii.....	166	69.6	10.2	20.2	153	41.1	64.1	4.5	3.7	1.1	4.1

<sup>1</sup> Includes hot and cold running water inside the structure, and flush toilet and bathtub or shower inside the structure for exclusive use of the people in the unit.

<sup>2</sup> Base is total of units occupied by owners and available vacant units for sale.

<sup>3</sup> Base is total of units occupied by renters and available vacant units for rent.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1960*, Vol. 1.

## No. 1086. OCCUPIED HOUSING UNITS, CLASSIFIED BY CONDITION AND PLUMBING FACILITIES: 1960 AND 1966

[In thousands, except percent]

ITEM	1960			1966 (prel.)		
	Total	White	Nonwhite	Total	White	Nonwhite
<b>Total occupied units</b> .....	<b>53,024</b>	<b>47,880</b>	<b>5,144</b>	<b>57,856</b>	<b>52,030</b>	<b>5,826</b>
Meeting specified criteria <sup>1</sup> .....	44,550	41,669	2,881	52,138	48,003	4,135
Not meeting specified criteria <sup>2</sup> .....	8,474	6,211	2,263	5,718	4,027	1,691
Percent of total.....	16	13	44	10	8	29
In large cities <sup>3</sup> .....	(NA)	8	25	(NA)	5	16
In urban fringe.....	(NA)	7	43	(NA)	4	29
In smaller cities, towns, and rural.....	(NA)	23	77	(NA)	14	64

NA Not available.

<sup>1</sup> Housing that is not dilapidated and has all basic plumbing facilities. <sup>2</sup> Housing that is dilapidated or that lacks one or more of the following basic plumbing facilities: Hot running water in the structure, flush toilet for private use of members of the household, and bathtub or shower for private use of members of the household.

<sup>3</sup> Cities of 50,000 population or more in metropolitan areas.

Source: Dept. of Commerce, Bureau of the Census, and Dept. of Labor, Bureau of Labor Statistics; *Social and Economic Conditions of Negroes in the United States*, Series P-23, No. 24, and unpublished data.

## No. 1087. HOUSING UNITS—SELECTED CHARACTERISTICS: 1940 TO 1960

[Number in thousands. All 1940 data and 1950 data for heating equipment and cooking fuel exclude Alaska and Hawaii. Data for 1940 represent a complete census count; 1950 data for water supply, toilet facilities, and bathing facilities represent a complete census count; data for all other 1950 items and all 1960 items are based on a 5-, 20-, or 25-percent sample of housing units. For a measure of the sampling variability, see source.]

ITEM	1940		1950		1960	
	Number	Percent	Number	Percent	Number	Percent
<b>Total housing units</b> .....	<b>37,325</b>	<b>100.0</b>	<b>46,137</b>	<b>100.0</b>	<b>58,468</b>	<b>100.0</b>
Not dilapidated.....	(NA)	(NA)	41,634	90.2	54,466	93.2
Dilapidated.....	(NA)	(NA)	4,503	9.8	4,002	6.8
<b>All units with water supply</b> .....	<b>37,325</b>	<b>100.0</b>	<b>46,137</b>	<b>100.0</b>	<b>58,318</b>	<b>100.0</b>
Hot and cold piped water inside structure.....	27,708	74.2	32,344	70.1	50,870	87.2
Only cold piped water inside structure.....	9,617	25.8	5,875	12.7	3,321	5.7
No piped water inside structure.....	9,617	25.8	7,918	17.2	4,128	7.1
<b>All units with toilet facilities</b> .....	<b>37,325</b>	<b>100.0</b>	<b>46,137</b>	<b>100.0</b>	<b>58,318</b>	<b>100.0</b>
Flush toilet, exclusive use.....	22,299	59.7	32,963	71.4	50,609	86.8
Flush toilet, shared.....	1,865	5.0	1,872	4.1	1,731	3.0
Other toilet facilities or none.....	13,172	35.3	11,302	24.5	5,978	10.3
<b>All units with or without bathing facilities</b> .....	<b>37,325</b>	<b>100.0</b>	<b>46,137</b>	<b>100.0</b>	<b>58,318</b>	<b>100.0</b>
Bathtub or shower, exclusive use.....	20,986	56.2	31,973	69.3	49,706	85.2
Bathtub or shower, shared.....	1,754	4.7	1,784	3.9	1,690	2.9
No bathtub or shower.....	14,585	39.1	12,379	26.8	6,922	11.9
<b>All units with or without heating equipment</b> .....	<b>34,855</b>	<b>100.0</b>	<b>42,826</b>	<b>100.0</b>	<b>58,318</b>	<b>100.0</b>
Steam and hot water.....	7,581	21.8	10,071	23.5	12,694	21.8
Warm air furnace, with ducts.....	5,844	16.8	11,508	26.9	18,355	31.5
Floor, wall, or pipeless furnace.....	1,218	3.5	(NA)	(NA)	6,528	11.2
Built-in electric units.....	(NA)	(NA)	(2)	(2)	745	1.3
Other means with flue.....	16,267	46.6	15,399	36.0	13,152	22.6
Other means without flue.....	3,954	11.3	5,268	12.3	5,825	10.0
Not heated.....	581	1.7	581	1.4	1,020	1.7
<b>Occupied housing units</b> .....	<b>34,855</b>	<b>100.0</b>	<b>42,969</b>	<b>100.0</b>	<b>52,955</b>	<b>100.0</b>
Not dilapidated.....	(NA)	(NA)	39,066	90.9	49,871	94.2
With all plumbing facilities.....	(NA)	(NA)	27,713	64.5	43,949	83.0
Lacking or sharing 1 or more plumbing facilities.....	(NA)	(NA)	11,353	26.4	5,922	11.2
Dilapidated.....	(NA)	(NA)	3,903	9.1	3,084	5.8
With all plumbing facilities.....	(NA)	(NA)	609	1.4	947	1.8
Lacking or sharing 1 or more plumbing facilities.....	(NA)	(NA)	3,294	7.7	2,137	4.0
<b>Occupied units with cooking fuel</b> .....	<b>34,855</b>	<b>100.0</b>	<b>42,826</b>	<b>100.0</b>	<b>53,022</b>	<b>100.0</b>
Utility gas.....	17,026	48.8	22,085	51.6	27,296	51.5
Bottled, tank, or LP gas.....	1,865	5.4	3,417	8.0	6,491	12.2
Electricity.....	1,865	5.4	6,404	15.0	16,351	30.8
Other.....	15,963	45.8	10,921	25.5	2,884	5.4

NA Not available. <sup>1</sup> Represents all occupied units.

<sup>2</sup> Built-in electric units included with "Other means without flue."

<sup>3</sup> Heating stove.

Source: Dept. of Commerce, Bureau of the Census; Sixteenth Census Reports, 1940, Vol. I, *U.S. Census of Housing: 1950*, Vol. I, *U.S. Census of Housing: 1960*, final report, HC(4) Part 1A-1, *Components of Inventory Change*, and Working Paper No. 25, *Measuring the Quality of Housing*.

## No. 1088. HOMES WITH SELECTED ELECTRICAL APPLIANCES: 1953 TO 1969

[Wired homes in millions. As of January 1. Percentages based on total number of homes wired for electricity]

PRODUCT	1953		1960		1965		1968		1969	
	Number	Percent								
Total number of wired homes.....	42.3	100.0	50.6	100.0	56.4	100.0	60.1	100.0	61.3	100.0
Air-conditioners, room.....	0.6	1.3	6.5	12.8	11.4	20.2	22.0	36.7	26.1	42.5
Bed coverings.....	3.6	8.6	10.8	21.3	18.3	32.4	25.4	42.3	28.0	45.6
Blenders.....	1.5	3.5	3.8	7.5	6.2	11.0	12.0	20.0	15.9	25.9
Can openers.....	(NA)	(NA)	(NA)	(NA)	11.1	19.7	20.7	34.5	24.2	39.4
Coffeemakers.....	21.6	51.0	27.0	53.4	38.6	68.5	47.8	79.6	50.8	82.9
Dishwashers.....	1.3	3.0	3.2	6.3	6.7	11.8	10.9	18.1	12.7	20.8
Disposers, food waste.....	1.4	3.3	4.8	9.5	7.6	13.5	10.8	18.0	12.6	20.5
Dryers, clothes <sup>1</sup> .....	1.5	3.6	9.0	17.8	13.7	24.2	20.8	34.6	23.8	38.8
Freezers, home.....	4.9	11.5	11.2	22.1	15.1	26.7	16.3	27.2	17.5	28.5
Frypans.....	(NA)	(NA)	20.6	40.7	27.6	49.0	31.1	51.8	32.7	53.4
Hotplates and buffet ranges.....	9.0	21.2	12.1	23.9	12.7	22.5	14.1	23.4	14.5	23.7
Irons, total.....	37.9	89.6	44.9	88.6	55.4	98.3	59.6	99.3	61.0	99.5
Steam and steam/spray.....	8.3	19.5	28.2	55.7	41.7	73.9	50.0	83.3	52.6	85.8
Mixers.....	12.6	29.7	27.0	53.4	39.7	70.4	47.1	78.5	49.3	80.5
Radios <sup>2</sup> .....	43.7	96.2	50.0	96.1	55.2	97.9	59.8	99.5	61.1	99.7
Ranges:										
Free-standing.....			15.3	30.3	18.0	31.9	20.5	34.1	22.2	36.2
Built-in.....	10.2	24.1	2.7	5.3	5.4	9.5	7.7	12.9	8.4	13.7
Refrigerators.....	37.8	89.2	49.6	98.0	56.0	99.3	59.9	99.7	61.1	99.8
Television:										
Black and white.....	19.8	46.7	45.5	89.9	53.1	94.1	58.9	98.1	60.3	98.5
Color.....	(X)	(X)	(NA)	(NA)	2.9	5.1	15.7	26.2	21.9	35.7
Toasters.....	30.0	70.9	35.6	70.4	45.8	81.1	52.6	87.6	54.7	89.3
Vacuum cleaners.....	25.1	59.4	36.7	72.5	45.8	81.2	55.3	92.9	57.1	93.1
Washers, clothes.....	32.2	76.2	42.0	83.1	49.0	86.9	56.6	94.3	58.1	94.8
Water heaters.....	5.8	13.8	9.4	18.6	13.1	23.2	15.7	26.1	17.0	27.8

NA Not available. X Not applicable. <sup>1</sup> Includes gas dryers.<sup>2</sup> Prior to 1968, radio data based on total homes, as follows: 45,464,000 in 1953, 52,000,000 in 1960, and 56,860,000 in 1965.Source: Billboard Publications, Inc., New York, N.Y.; *Merchandising Week*, annual statistical issues. (Copyright.)No. 1089. HOUSING UNITS—TENURE, CONDITION AND PLUMBING, ROOMS, AND PERSONS PER ROOM: 1960  
[In thousands, except as indicated]

ITEM	Total units	UNITS OCCUPIED BY NONWHITE PERSONS		ITEM	Total units	UNITS OCCUPIED BY NONWHITE PERSONS	
		Total	Percent			Total	Percent
<b>All housing units.....</b>	<b>58,324</b>	<b>5,153</b>	<b>8.8</b>	<b>ROOMS</b>			
<b>TENURE AND VACANCY STATUS</b>				Units with—			
Owner-occupied units.....	32,796	1,974	6.0	1 to 3 rooms.....	11,704	1,661	14.2
Percent of all occupied.....	61.9	38.3	(X)	4 to 6 rooms.....	37,632	3,062	8.1
Renter-occupied units.....	20,225	3,178	15.7	7 or more rooms.....	8,987	430	4.8
Vacant units.....	5,303	(X)	(X)	Median rooms per unit <sup>1</sup> .....	4.9	4.2	(X)
<b>CONDITION AND PLUMBING</b>				<b>PERSONS</b>			
Sound.....	46,915	2,797	6.0	Occupied units with—			
With all plumbing facilities.....	42,605	2,217	5.2	1 person.....	7,405	811	11.0
Lacking only hot water.....	504			2 persons.....	14,884	1,194	8.0
Lacking private toilet or bath or running water.....	3,805	580	13.5	3 to 5 persons.....	24,713	2,026	8.2
Deteriorating.....	8,384	1,470	17.5	6 or more persons.....	6,019	1,122	18.6
With all plumbing facilities.....	4,766	627	13.2	Median persons per unit <sup>1</sup> .....	2.9	3.2	(X)
Lacking only hot water.....	353			<b>PERSONS PER ROOM</b>			
Lacking private toilet or bath or running water.....	3,265	843	23.3	Occupied units with—			
Dilapidated.....	3,025	885	29.3	1 person or less.....	46,891	3,696	7.9
				More than 1 person.....	6,130	1,457	23.8

X Not applicable. <sup>1</sup> For definition of median, see preface.Source: Dept. of Commerce, Bureau of the Census; *Congressional District Data Book, U.S. Census of Housing: 1960, Vol. I*, and unpublished data.

**No. 1090. NONFARM HOUSING UNITS—RENTER-OCCUPIED, BY GROSS MONTHLY RENT, AND OWNER-OCCUPIED, BY VALUE: 1960**

[Number in thousands. Contract monthly rent is the rent at the time of enumeration, as contracted for by the renter, whether or not it includes furniture, heating fuel, electricity, cooking fuel, water, or other services sometimes supplied. Gross monthly rent is contract monthly rent plus the reported average monthly cost of utilities (electricity, gas, water) and other fuels (such as coal, oil, kerosene, and wood) if these items were paid for by the renter, in addition to contract monthly rent. Owner data are restricted to 1-housing-unit structures without business and with only 1 housing unit on property. Value represents the amount which the owner-occupant estimated that the property, including the structure and its land, would sell for under ordinary conditions and not at forced sale. For definition of median, see preface]

RENT	Number	Percent	VALUE <sup>1</sup>	Number	Percent
<b>Total housing units.....</b>	<b>19,294</b>	<b>(X)</b>	<b>Total housing units.....</b>	<b>26,172</b>	<b>(X)</b>
Number reporting gross monthly rent.....	17,908	100.0	Owner occupied.....	26,172	100.0
Less than \$20.....	320	1.8	Less than \$5,000.....	3,182	12.2
\$20-\$29.....	736	4.1	\$5,000-\$7,499.....	3,201	12.2
\$30-\$39.....	1,221	6.8	\$7,500-\$9,999.....	3,546	13.5
\$40-\$49.....	1,755	9.8	\$10,000-\$12,499.....	4,095	15.6
\$50-\$59.....	2,245	12.5	\$12,500-\$14,999.....	3,538	13.5
\$60-\$69.....	2,555	14.3	\$15,000-\$17,499.....	2,841	10.9
\$70-\$79.....	2,350	13.1	\$17,500-\$19,999.....	1,882	7.2
\$80-\$89.....	3,490	19.5	\$20,000-\$24,999.....	1,900	7.3
\$90-\$99.....			1,227	4.7	
\$100-\$119.....	1,693	9.5	\$25,000-\$34,999.....	762	2.9
\$120 or more.....	1,544	8.6	\$35,000 or more.....		
Median rent.....	\$71	(X)	Median value.....	\$11,900	(X)
No cash rent.....	1,386	(X)			

X Not applicable.

<sup>1</sup> Data collected on basis of intervals rounded to nearest \$100 (\$5,000-\$7,400, \$7,500-\$9,900, etc.).

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1960*, Vol. I.

**No. 1091. MORTGAGE STATUS OF NONFARM DWELLING UNITS: 1920 TO 1960**

[In thousands, except percent. Prior to 1960, excludes Alaska and Hawaii. For 1920, mortgage data are for owner-occupied units in all types of structures; for 1940 and 1950, for owner-occupied dwelling units in 1- to 4-dwelling unit structures without business; and for 1960, for properties with 1- to 4-dwelling units. See also *Historical Statistics, Colonial Times to 1957*, series N 190-194]

CENSUS YEAR	Owner-occupied units	Report-ing mortgage status	MORTGAGED		Not mort-gaged	CENSUS YEAR	Owner-occupied units	Report-ing mortgage status	MORTGAGED		Not mort-gaged
			Num-ber	Per-cent					Num-ber	Per-cent	
1920.....	7,041	6,868	2,736	39.8	4,132	1950.....	19,802	17,796	7,821	44.0	9,971
1940.....	11,413	10,611	4,805	45.3	5,806	1960.....	27,862	27,862	15,811	56.8	12,046

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1960*, Vol. I. and *1960*, Vol. V.

**No. 1092. MORTGAGED OWNER-OCCUPIED NONFARM PROPERTIES—MARKET VALUE, MORTGAGE DEBT, AND INTEREST RATE: 1890 TO 1960**

[Prior to 1960, excludes Alaska and Hawaii. For definition of median, see preface]

ITEM	ALL PROPERTIES		1-DWELLING-UNIT PROPERTIES		
	1890	1920	1940	1950	1960
<b>MARKET VALUE AND OUTSTANDING MORTGAGE DEBT</b>					
Total number of properties.....	810	2,855	4,026	7,052	14,454
Number reporting value and debt.....	(NA)	2,736	3,745	7,027	14,454
Total value.....	2,632	14,089	16,400	166,443	1,219,669
Total debt.....	1,047	6,000	8,634	28,566	108,092
Average value.....	3,250	4,938	4,403	9,422	15,200
Average debt.....	1,293	2,102	2,305	4,051	7,500
Median ratio of debt to value.....	(NA)	(NA)	(NA)	43	53
<b>INTEREST RATE ON FIRST MORTGAGE LOAN (percent)</b>					
<b>Total properties</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Less than 4.0 percent.....	1.7	2.0	0.8	2.0	0.8
4.0-4.4 percent.....			1.9	24.9	13.9
4.5-4.9 percent.....			17.3	20.2	26.7
5.0 percent.....			19.8	22.4	15.1
5.1-5.9 percent.....			2.3	5.9	7.7
6.0-6.9 percent.....	11.0	8.3	19.8	25.2	24.8
7.0-7.9 percent.....	45.7	59.8	45.6	25.2	1.5
8.0 percent or more.....	12.5	12.6	4.5	1.2	0.9
Median interest rate.....	26.8	11.3	2.5	1.3	1.5
	6.0	6.0	6.0	5.0	5.1

NA Not available. <sup>1</sup> Estimated from midpoints of distribution.

Source: Prior to 1960, Ratcliff, Rathbun, and Honnold, *Residential Finance, 1890*, John Wiley and Sons, New York, N. Y.; thereafter, Dept. of Commerce, Bureau of the Census, *U.S. Census of Housing: 1960*, Vol. V.

**No. 1093. ONE-FAMILY HOMES, FHA-INSURED MORTGAGES—PERCENT DISTRIBUTION BY VALUE AND MORTGAGE CHARACTERISTICS: 1950 TO 1968**

ITEM	NEW HOMES					EXISTING HOMES				
	1950	1960	1965	1967	1968	1950	1960	1965	1967	1968
<b>FHA estimate of value:</b>										
Less than \$10,000.....	79.5	2.7	1.0	0.3	0.2	64.9	17.0	8.9	7.4	7.8
\$10,000-\$14,999.....	19.1	53.2	30.0	18.2	11.8	29.9	53.3	39.7	35.0	32.4
\$15,000-\$19,999.....	1.2	37.5	48.9	48.5	48.2	4.5	24.8	37.9	38.3	39.2
\$20,000 and over.....	0.2	6.6	20.1	33.0	39.8	0.7	4.9	13.5	19.3	20.6
<b>Amount of mortgage:</b>										
Less than \$10,000.....	96.3	6.1	2.1	0.8	0.4	89.8	25.9	12.7	10.1	10.3
\$10,000-\$14,999.....	3.5	65.6	39.7	25.9	17.8	9.5	57.2	45.7	40.0	36.9
\$15,000-\$19,999.....	0.2	26.9	45.5	49.5	51.9	0.7	15.7	34.1	37.2	39.2
\$20,000 and over.....	-	1.4	12.7	23.8	29.9	-	1.2	7.5	12.7	13.6
<b>Term of mortgage:</b>										
10, 15, or 20 years.....	(NA)	1.8	0.5	0.5	0.4	(NA)	18.8	6.1	6.4	7.3
25 years.....	(NA)	12.1	3.0	2.2	1.5	(NA)	43.6	16.9	16.6	17.3
30 years.....	(NA)	86.1	59.2	97.2	98.1	(NA)	37.6	74.9	77.0	75.4
35 years.....	(NA)	-	37.3	0.1	(Z)	(NA)	-	2.1	(Z)	-
<b>Monthly mortgage payment:</b>										
Less than \$100.....	99.2	42.3	28.1	9.9	6.1	96.4	55.9	35.9	22.5	19.0
\$100-\$119.....	0.6	35.5	30.8	22.3	16.2	2.5	25.3	26.3	22.1	19.4
\$120-\$139.....	0.2	16.1	21.6	26.1	24.5	1.1	12.5	20.8	22.4	22.1
\$140 and over.....		6.1	19.5	41.7	53.2		6.3	17.0	33.0	39.5

- Represents zero. NA Not available. Z Less than 0.05 percent.

Source: Dept. of Housing and Urban Development, Federal Housing Administration; unpublished data.

**No. 1094. ONE-FAMILY HOMES, FHA-INSURED MORTGAGES—MEDIAN FOR SELECTED ITEMS OF VALUE AND COST: 1950 TO 1968**

(In dollars, except ratios. For definition of median, see preface)

ITEM	NEW HOMES					EXISTING HOMES				
	1950	1960	1965	1967	1968	1950	1960	1965	1967	1968
<b>FHA estimate of value...</b>	8,286	14,607	16,561	17,992	18,797	8,365	13,043	15,128	15,828	16,081
Acquisition cost.....	(NA)	14,606	16,523	18,006	18,813	(NA)	13,227	15,114	15,884	16,131
Sale price.....	(NA)	14,324	16,190	17,627	18,418	(NA)	12,975	14,733	15,516	15,793
Incidental costs.....	(NA)	286	376	415	423	(NA)	275	322	353	361
Ratio: Value/acquisition cost.....	(NA)	99.2	99.7	99.8	99.9	(NA)	98.1	99.5	99.6	99.6
<b>Mortgage amount.....</b>	7,101	13,599	15,574	16,910	17,659	6,801	11,978	14,232	14,094	15,250
Ratio: Mortgage/value.....	88.0	93.5	94.3	94.7	94.4	77.8	92.6	94.4	95.1	95.2
<b>Price of site.....</b>	(NA)	2,404	3,137	3,368	3,660	(NA)	2,285	2,955	3,157	3,234
Ratio: Site/value.....	(NA)	16.1	18.3	17.9	18.6	(NA)	16.8	19.0	19.4	19.8
<b>Monthly housing expense<sup>1</sup>.....</b>	75	129	144	169	178	79	121	141	158	164

NA Not available.

<sup>1</sup> Comprises mortgage payment for first year, estimated heating and utilities cost, and estimated upkeep.

Source: Dept. of Housing and Urban Development, Federal Housing Administration; unpublished data.

**No. 1095. RESIDENTIAL LOANS UNDERWRITTEN BY FHA AND VA: 1940 TO 1968**

(In millions of dollars. FHA-insured loans represent gross amount of insurance written; VA-guaranteed loans, gross amount of loans closed. Figures do not take account of principal repayments on previously insured or guaranteed loans. See also *Historical Statistics, Colonial Times to 1967*, series N 179-185)

LOAN	1940	1950	1955	1960	1964	1965	1966	1967	1968
<b>FHA-insured loans.....</b>	991	4,343	3,807	6,293	8,130	8,689	7,320	7,150	8,275
<b>Home mortgages:</b>									
New properties.....	588	1,637	1,269	2,197	1,808	1,705	1,729	1,369	1,572
Existing properties.....	175	856	1,816	2,403	4,965	5,760	4,366	4,516	4,924
Project type mortgages.....	13	1,157	76	711	895	591	583	642	1,123
Property improvement loans <sup>1</sup> .....	216	694	646	982	663	634	641	623	656
<b>VA-guaranteed loans<sup>2</sup>.....</b>	(X)	3,072	7,156	1,985	2,846	2,652	2,600	3,408	3,774
<b>Home mortgages:</b>									
New properties.....	(X)	1,865	4,582	1,554	1,023	876	980	1,143	1,430
Existing properties.....	(X)	1,202	2,564	428	1,821	1,774	1,618	2,259	2,343

X Not applicable. <sup>1</sup> Not ordinarily secured by mortgages.

<sup>2</sup> Includes small amount of alteration and repair loans; only those of more than \$1,000 need be secured.

Source: Board of Governors of the Federal Reserve System. Current data in *Federal Reserve Bulletin*.

### No. 1096. CHARACTERISTICS OF FIRST MORTGAGE LOANS FOR PURCHASE OF SINGLE-FAMILY HOMES: 1967 TO 1969

[Percent, except as indicated. Monthly averages. Refers to loans originated directly (rather than through correspondents) by savings and loan associations, life insurance companies, mortgage companies, commercial banks, and mutual savings banks]

LOAN CHARACTERISTIC	NEW HOMES					EXISTING HOMES				
	1967		1968		1969, Apr.	1967		1968		1969, Apr.
	Apr.	Oct.	Apr.	Oct.	Apr.	Apr.	Oct.	Apr.	Oct.	Apr.
Contract interest rate.....	6.31	6.34	6.57	7.09	7.46	6.34	6.39	6.64	7.06	7.46
Initial fees and charges <sup>1</sup> .....	0.77	0.82	0.88	0.88	0.98	0.74	0.78	0.80	0.84	0.85
Term to maturity.....years.....	24.8	25.4	25.3	25.6	25.5	22.3	22.5	22.6	22.1	23.0
Loans to price ratio.....	73.2	73.8	73.4	74.5	73.4	72.6	73.0	72.8	72.4	72.2
Purchase price.....\$1,000.....	27.0	28.7	30.3	31.0	34.8	23.7	23.7	25.1	25.7	28.3

<sup>1</sup> Include only discounts and initial payments that provide additional income to lender; exclude refinancing, rebursable closing costs. Expressed as percent of principal mortgage amount.

Source: Federal Home Loan Bank Board; monthly news releases.

### No. 1097. CHARACTERISTICS OF VA-GUARANTEED HOME LOANS, BY MONTHLY INCOME OF VETERAN HOME PURCHASERS: 1968

[Based on a 20-percent sample of loan applications submitted to The Veterans Administration for prior approval in 1968. Such loans currently constitute about 89 percent of all primary VA-guaranteed home loans]

ITEM	All incomes	MONTHLY INCOME (AFTER TAXES)				
		Less than \$400	\$400-\$499	\$500-\$599	\$600-\$699	\$700 and over
New and existing homes (averages):						
Liquid assets of purchaser.....	\$1,980	\$775	\$1,040	\$1,495	\$2,120	\$3,905
Purchase price.....	\$18,225	\$11,795	\$14,605	\$17,380	\$19,975	\$24,620
Loan amount.....	\$17,905	\$11,710	\$14,445	\$17,100	\$19,595	\$24,020
Down payment.....	\$320	\$85	\$160	\$280	\$380	\$600
Percent of purchase price.....	1.8	0.7	1.1	1.6	1.9	2.4
Percent of liquid assets.....	16.2	11.0	15.4	18.4	17.9	15.4
Monthly income after taxes.....	\$595	\$355	\$450	\$545	\$645	\$875
Monthly housing expense <sup>2</sup> .....	\$185	\$125	\$155	\$175	\$200	\$250
Percent of income after taxes.....	31.1	35.2	34.4	32.1	31.0	28.6
Percent of loans.....	100.0	100.0	100.0	100.0	100.0	100.0
New homes.....	35.1	20.4	29.0	34.3	38.6	46.6
Existing homes.....	64.9	79.6	71.0	65.7	61.4	53.4

<sup>1</sup> Excludes social security and retirement deductions, and, in many cases, monthly obligations for long term debts reported at time of loan examination; may include take-home pay of spouse where such income may be properly taken into account in determining borrower's ability to repay loan. <sup>2</sup> Repayments of mortgage principal and interest with an additional allowance for taxes, insurance, heat, utilities and maintenance.

Source: Veterans Administration; unpublished data.

### No. 1098. HOME LOANS GUARANTEED BY VA—PERCENT DISTRIBUTION, BY SELECTED CHARACTERISTICS: 1955 TO 1968

[Covers veterans regardless of place of residence. Based on complete count of primary loans closed]

ITEM	NEW HOMES					EXISTING HOMES				
	1955	1960	1965	1967	1968	1955	1960	1965	1967	1968
<b>PURCHASE PRICE</b>										
All price ranges.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$8,000.....	2.1	0.1	0.1	0.1	0.1	18.4	15.7	4.2	3.4	2.8
\$8,000-\$9,999.....	15.0	1.8	0.9	0.5	0.1	20.3	17.1	6.0	5.8	5.1
\$10,000-\$11,999.....	29.8	11.5	4.2	2.2	1.3	22.2	18.4	10.4	10.4	9.6
\$12,000-\$14,999.....	38.4	39.1	19.8	14.8	10.5	23.7	25.4	21.8	22.1	20.4
\$15,000-\$19,999.....	13.0	39.8	43.8	44.1	42.2	12.1	18.0	35.2	35.5	34.6
\$20,000 and over.....	1.7	7.7	31.2	38.3	45.8	3.3	5.4	22.4	22.8	27.5
Average purchase price.....\$1,000.....	12.5	15.3	18.3	19.4	20.5	11.3	12.2	16.4	16.5	17.2
<b>MORTGAGE MATURITY</b>										
All maturities.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 25 years.....	5.0	1.4	0.9	0.5	0.4	50.2	43.0	9.0	7.3	6.5
25 years.....	30.8	3.9	2.3	1.2	1.0	37.1	31.3	17.0	13.7	12.6
26-29 years.....	21.2	28.6	17.5	21.7	23.0	2.6	3.5	16.1	18.4	22.1
30 years.....	43.0	66.1	79.3	76.6	75.6	10.1	22.2	57.9	60.6	58.8
<b>DOWNPAYMENT STATUS</b>										
All loans.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
With downpayments.....	46.6	30.2	24.4	25.6	24.4	80.3	66.5	31.1	25.4	25.0
With no downpayments.....	53.4	69.8	75.6	74.4	75.6	19.7	33.5	68.9	74.6	75.0

Source: Veterans Administration; *Loan Guaranty Highlights*.

### No. 1099. ESTIMATED NONFARM REAL ESTATE FORECLOSURES: 1930 TO 1968

[Excludes Alaska and Hawaii. Based on data from approximately 1,700 counties, cities, townships, or other government divisions. Represents number of properties acquired through foreclosure proceedings. Excludes voluntary deeds of sale in lieu of foreclosure and defaults on real estate contracts. See also *Historical Statistics, Colonial Times to 1897*, series N 189]

YEAR	Fore-closures	YEAR	Fore-closures	YEAR	Fore-closures
1930.....	150,000	1955.....	28,529	1964.....	108,620
1935.....	228,713	1960.....	51,353	1965.....	116,664
1940.....	75,556	1961.....	73,074	1966.....	117,473
1945.....	12,706	1962.....	86,444	1967.....	110,541
1950.....	21,537	1963.....	98,195	1968 (prel.).....	90,875

Source: Federal Home Loan Bank Board; *Savings and Home Financing Source Book*.

### No. 1100. URBAN RENEWAL PROGRAM—SUMMARY: 1949 TO 1968

[Money figures in thousands of dollars. Includes Puerto Rico, Guam, and Virgin Islands. Represents Federal grant assistance to localities by the Renewal Assistance Administration for urban renewal activities under Title I of Housing Act of 1949, as amended]

ITEM	Cumulative total	NET CHANGE <sup>1</sup>						
		1949-1962	1963	1964	1965	1966	1967	1968
<b>Grant authority reserved <sup>2</sup>.....</b>	7,355,912	3,033,733	671,640	607,426	672,162	774,576	646,239	950,136
Urban renewal projects <sup>3</sup> .....	7,060,286	3,019,705	667,558	601,286	664,420	780,800	589,514	787,003
Neighborhood development programs <sup>4</sup> .....	82,737	(X)	(X)	(X)	(X)	(X)	(X)	82,737
Code enforcement projects <sup>5</sup> .....	150,453	(X)	(X)	(X)	(X)	35,497	49,584	65,372
Community renewal programs <sup>6</sup> .....	42,153	10,095	3,606	5,656	3,760	4,147	4,334	10,555
Demolition projects <sup>7</sup> .....	13,105	(X)	(X)	(X)	3,058	3,406	2,600	4,041
Demonstration grants.....	7,178	3,933	476	484	924	726	207	428
<b>URBAN RENEWAL PROJECTS <sup>3</sup></b>								
Localities participating.....	962	636	76	53	31	50	66	50
Total projects.....	2,038	1,210	192	143	154	113	135	91
Completed.....	424	86	32	56	53	62	49	86
Active.....	1,614	1,124	160	87	101	51	86	5
Execution.....	1,164	583	83	125	98	85	58	127
Planning.....	450	536	77	-38	3	-34	28	-122
<b>Capital grants:</b>								
Grants disbursed to projects.....	2,627,329	700,524	176,258	243,972	277,736	326,901	408,924	493,014
Grants disbursed to repay advances.....	21,627	5,391	1,269	2,393	3,046	3,530	3,183	2,215
<b>NEIGHBORHOOD DEVELOPMENT PROGRAMS <sup>4</sup></b>								
Localities participating.....	8	(X)	(X)	(X)	(X)	(X)	(X)	8
Programs.....	8	(X)	(X)	(X)	(X)	(X)	(X)	8
<b>CODE ENFORCEMENT PROJECTS <sup>5</sup></b>								
Localities participating.....	101	(X)	(X)	(X)	(X)	32	37	32
Projects.....	107	(X)	(X)	(X)	(X)	32	38	37
Grants disbursed.....	35,238	(X)	(X)	(X)	(X)	1,930	13,891	19,417
<b>COMMUNITY RENEWAL PROGRAMS <sup>6</sup></b>								
Localities participating.....	199	80	27	17	22	18	10	25
Grants disbursed.....	27,245	3,627	3,579	4,091	3,316	3,576	3,480	5,576
<b>DEMOLITION PROJECTS <sup>7</sup></b>								
Localities participating.....	68	(X)	(X)	(X)	3	28	18	19
Projects.....	78	(X)	(X)	(X)	3	31	19	25
Grants disbursed.....	3,190	(X)	(X)	(X)	(X)	346	1,038	1,806
<b>DEMONSTRATION PROGRAMS</b>								
Programs.....	90	45	2	7	12	8	6	10
Grants disbursed.....	5,795	2,564	351	375	440	739	845	481

X Not applicable. <sup>1</sup> Reflects amendments, cancellations, and terminations.

<sup>2</sup> Represents Federal contribution in the form of project grants, relocation grants, rehabilitation grants, and planning advances not collected from terminated projects.

<sup>3</sup> First approval under this program took place in March 1950.

<sup>4</sup> First approval under this program took place in November 1968.

<sup>5</sup> First approval under this program took place in January 1966.

<sup>6</sup> First approval under this program took place in August 1960.

<sup>7</sup> First approval under this program took place in November 1965.

Source: Dept. of Housing and Urban Development, Renewal Assistance Administration; *Housing and Urban Development Statistical Yearbook*, and unpublished data.

**No. 1101. URBAN RENEWAL PROJECTS—CHARACTERISTICS OF AREAS CLEARED FOR REDEVELOPMENT: 1966**

[Money figures in thousands of dollars. As of June 30. Includes Puerto Rico and Virgin Islands. Covers all projects that had received Renewal Assistance Administration authorization of loan or grant contracts. Excludes projects in planning stage and projects terminated prior to completion]

ITEM	PROJECTS			ITEM	PROJECTS		
	Total	Contracts completed	Active contracts		Total	Contracts completed	Active contracts
Original dwelling units.....	458,259	60,631	397,628	<b>Gross acreage</b> .....	56,895	5,703	51,192
Projects reporting.....	1,159	259	900	Projects reporting.....	1,155	260	895
Projects reporting condition.....	1,130	250	880	Proposed new uses (acres):			
Units reported.....	453,023	60,170	392,853	Public rights-of-way.....	15,219	1,521	13,698
Substandard.....	371,708	48,976	322,732	Residential <sup>2</sup> .....	20,170	2,008	18,162
Number of families <sup>1</sup> .....	329,516	54,057	275,459	Commercial.....	7,179	573	6,606
Projects reporting.....	1,159	260	899	Industrial.....	8,352	832	7,520
Eligibility for low rent public housing:				Public and semi-public <sup>3</sup> .....	5,975	769	5,206
Projects reporting.....	1,089	239	850	<b>Project costs, gross</b> <sup>1</sup> .....	6,799,220	474,974	6,324,246
Families reported.....	316,631	51,811	264,820	Proceeds from land.....	1,661,702	112,396	1,549,306
White.....	138,916	17,624	121,292	Net.....	5,137,518	362,578	4,774,940
Nonwhite.....	163,312	30,933	132,379	Federal project grants.....	3,460,073	235,799	3,224,274
				Local grants-in-aid.....	1,677,445	126,779	1,550,666

<sup>1</sup> Estimated. <sup>2</sup> Includes related public and semi-public purposes. <sup>3</sup> Nonresidential.

Source: Dept. of Housing and Urban Development, Renewal Assistance Administration; *Urban Renewal Project Characteristics*, June 30, 1966.

**No. 1102. COMPREHENSIVE PLANNING ASSISTANCE PROGRAM—SUMMARY: 1954 TO 1968**

[Money figures in thousands of dollars. Includes Puerto Rico, Guam, and Virgin Islands. Planning grants are made to State planning agencies, and metropolitan, regional, or other qualified planning agencies]

ITEM AND YEAR	Total	TYPE OF PLANNING AREA ASSISTED					
		Small <sup>1</sup>	Redevelopment	Metropolitan, regional, and inter-state	State-wide	Research and demonstration	Other
<b>FEDERAL GRANTS</b>							
<b>Total</b> .....	195,167	65,682	24,458	65,382	26,338	3,896	9,411
1954-1961.....	22,285	11,542	2,174	7,089	1,371	-	109
1962.....	19,755	6,684	3,717	6,382	2,713	-	259
1963.....	17,707	6,326	2,494	6,040	2,765	-	81
1964.....	19,431	7,068	2,945	5,872	3,363	-	184
1965.....	20,795	8,013	1,655	7,842	2,161	-	1,124
1966.....	23,475	5,320	5,536	6,409	4,040	538	1,632
1967.....	27,191	6,813	2,249	11,103	3,673	1,774	1,579
1968.....	44,628	13,916	3,688	14,645	6,252	1,584	4,443
<b>NUMBER OF PROJECTS</b>							
<b>Total</b> .....	4,700	2,840	691	744	169	62	194
1954-1961.....	710	456	26	194	25	-	9
1962.....	382	249	72	40	17	-	4
1963.....	370	247	56	55	11	-	1
1964.....	379	242	57	62	17	-	1
1965.....	445	281	58	64	18	-	24
1966.....	470	206	157	43	22	13	29
1967.....	637	374	73	98	20	33	39
1968.....	1,307	785	192	188	39	16	87

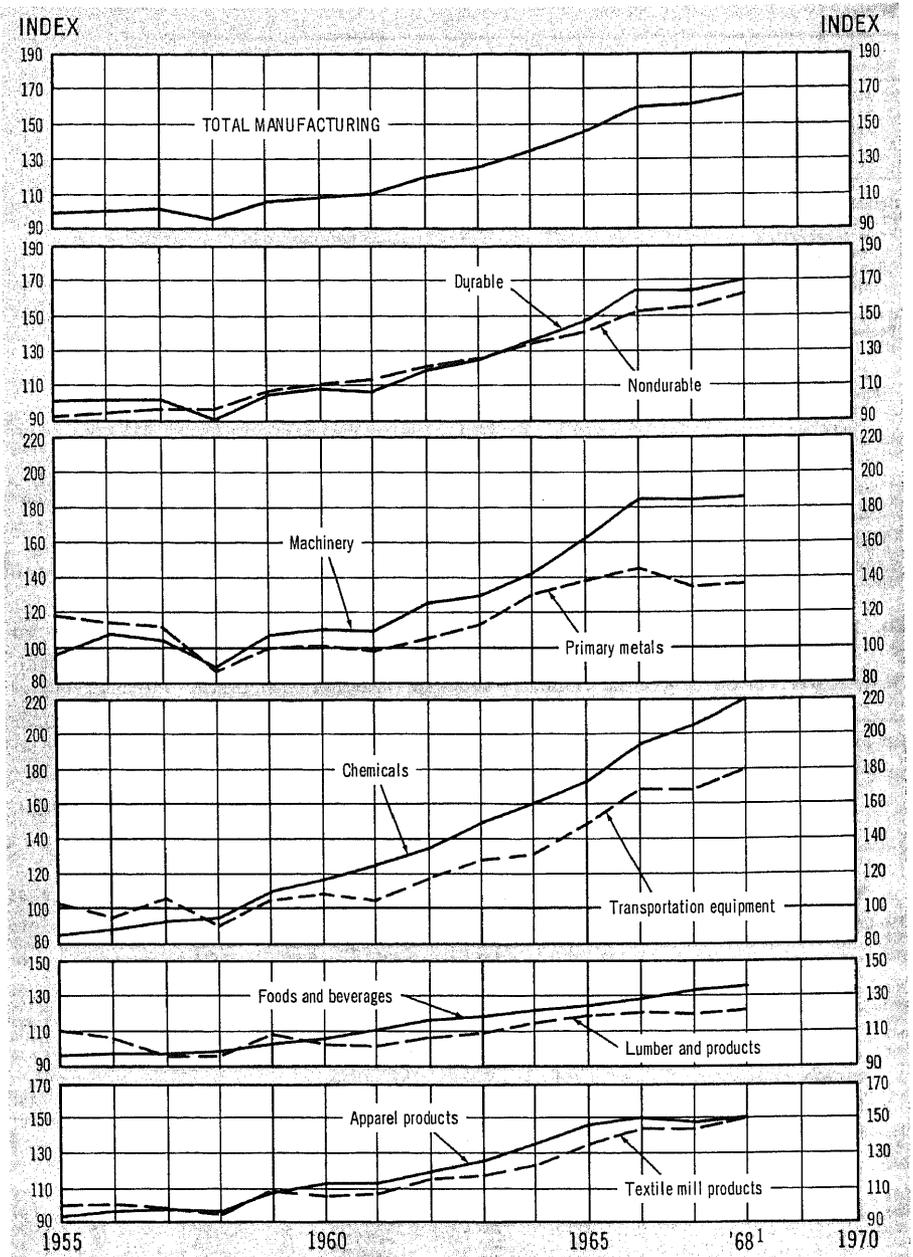
- Represents zero.

<sup>1</sup> Localities with a population under 50,000; includes grants for advisory services to small areas.

Source: Dept. of Housing and Urban Development, Metropolitan Development; *Housing and Urban Development Statistical Yearbook*, and unpublished data.

FIG. XLV. INDUSTRIAL PRODUCTION INDEXES: 1955 TO 1968

[1957-59=100. See table 1104]



1 Preliminary.

Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Board of Governors of the Federal Reserve System.

## Section 28

# Manufactures

This section presents measures of the manufacturing segment of the economy and its component inputs and outputs. The input data include figures for *establishments*; employment and wages; raw materials, fuels, and electricity consumed; plant and equipment expenditures; and water use. The output data include figures for value and quantity of production and shipments; and value added by manufacture. Both types of data are shown for manufacturing as a whole, for major product groups, and for specific selected products.

The principal sources of these data are the Bureau of the Census reports of the quinquennial Census of Manufactures; the *Annual Survey of Manufactures*; and the *Current Industrial Reports* series, which presents monthly, quarterly, or annual data on production, shipments, and stocks for particular commodities. Indexes of industrial production are presented monthly in the Federal Reserve Board's *Federal Reserve Bulletin*. Reports on current activities of industries, or current movements of individual commodities, are also compiled by such government agencies as Bureau of Labor Statistics, Statistical Reporting Service of the Department of Agriculture, Business and Defense Services Administration, Fish and Wildlife Service, Tariff Commission, and Internal Revenue Service; and by private research or trade associations such as the American Iron and Steel Institute, The National Cannery Association, and the National Association of Hosiery Manufacturers.

Data on financial operations and intercorporate relations of manufacturing corporations are collected from time to time by the Securities and Exchange Commission, the Tariff Commission, and the Federal Trade Commission. Financial statistics for certain manufacturing industries in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, and types and amounts of security issues are summarized and published for the leading corporations registered with the Securities and Exchange Commission. The Tariff Commission publishes commodity surveys which cover economic and competitive aspects of production, distribution, and international trade in selected important industries. The Federal Trade Commission has made several comprehensive studies of individual industries.

**Censuses and annual surveys.**—The first Census of Manufactures covered the year 1809. Thereafter, a census was taken at 10-year intervals to 1899, with the exception of 1829. It was conducted at 5-year intervals from 1904 through 1919, and at 2-year intervals from 1921 through 1939. It was suspended during the war period until the 1947 census. Thereafter, censuses were taken covering 1954, 1958, 1963, and 1967.

The *Annual Survey of Manufactures*, conducted for the first time in 1949, carries forward, for the intercensal years, measures of manufacturing activity covered in detail by the quinquennial Census of Manufactures. It provides statistics on employment, payrolls, value added by manufacture, inventories, and new capital expenditures for industry groups, individual industries, geographic divisions, States, and large standard metropolitan statistical areas.

The most recent annual survey is based on a sample of about 60,000 of an approximate total of 300,000 manufacturing establishments. It comprises all large plants, which account for approximately two-thirds of total manufacturing employment in the United States, and a representative selection of the more numerous small plants. Government-owned and -operated establishments are excluded.

**Establishments and classification.**—The Census of Manufactures for 1947 through 1963 covered operating manufacturing establishments as defined in the *Standard*

*Industrial Classification Manual* issued by the Bureau of the Budget. Reports were required from all establishments employing one or more persons at any time during the census year. In the 1967 census, reports were required only from establishments with 10 or more employees and establishments operated by multi-establishment companies. Data for single unit companies with less than 10 employees were estimated on the basis of Government administrative records and industry averages. Each of the establishments tabulated was classified in one of the more than 400 manufacturing industries as defined by the Standard Industrial Classification system. This system defines an industry as a number of establishments producing a single product or a closely related group of products. An establishment is classified in a particular industry if its production of this product or product group exceeds in value its production of any other product group. In a few instances, the industry classification of an establishment is determined not only by its product group but also by the processes employed in making the products.

Final reports of the 1958 Census of Manufactures present data based on the classifications in the 1957 edition of the *Standard Industrial Classification Manual* and include 1954 data converted to the same basis. Selected industries were reclassified for the 1963 census. Wherever possible, the corresponding 1958 data were revised to a comparable basis. Because of the revisions in classification, 1954, 1958, and 1963 census data for some industries and industry groups are not comparable with figures for prior years. The 1967 edition of the *Standard Industrial Classification Manual*, issued in early 1967, was used for the 1967 census.

While some establishments produce only the products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect not only the primary activities of the establishments in that industry but also activities of a secondary nature. For this reason the industry statistics usually cannot be directly related to statistics on the total shipments of products primary to the industry.

The censuses for 1947 through 1967 were conducted on an establishment basis. The term "establishment" signifies a single physical plant site or factory. It is not necessarily identical with the business unit or company, which may consist of one or more establishments. A company operating establishments at more than one location is required to submit a separate report for each location. An establishment engaged in distinctly different lines of activity and maintaining separate payroll and inventory records is also required to submit separate reports.

The basic statistical measures of manufacturing activity, such as employment, payrolls, value added, etc., are defined in essentially the same way for the annual surveys as for the Census of Manufactures. Consequently, these series may be considered comparable, except for the changes brought about by the revisions in the industry classification system noted above. However, beginning with 1949, average employment was calculated from the figures reported for the pay periods ending nearest the fifteenth of March, May, August, and November, whereas for 1947 such averages were based on 12 monthly employment figures. In 1967, the average employment calculation was revised to the pay periods which include the 12th of March, May, August, and November in order to provide data more comparable with other statistical series. The 1954 figures are an average of reported employment totals for the four specified months, except for highly seasonal industries, where a 12-month average was obtained. For 1958 and later censuses, averages of production workers for the four specified months plus the March figure for "all other employees" were used for all industries. Figures for 1947 exclude data for central administrative offices and auxiliary establishments of manufacturing concerns, which are included in the statistics for later years.

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

## Technical Note—Annual Survey of Manufactures

The annual survey estimates vary from the totals that would have been obtained from a complete canvass of all manufacturing establishments. The relative magnitude of this sampling variation is given in the table column captioned "Standard error." The standard error should be interpreted to mean that the sample estimates will differ from complete canvass totals by *less than*: (1) The percentage shown in approximately 2 cases out of 3; (2) twice the percentage shown in approximately 19 cases out of 20; and (3) three times the percentage shown in almost every case. It should be noted that standard errors are shown only for selected items. The standard errors of other measures are usually of the same general magnitude.

In making any study of the trend, it is important to take account of the effect of the sampling variation on the apparent increase or decrease shown between years. In addition to sampling errors, individual figures may be subject to biases arising from undetected response or procedural errors which are not reflected in the "standard errors." Figures are enclosed by parentheses in the original source volumes if (1) the standard error of the estimate exceeds 15 percent, or (2) survey estimates are inconsistent with other census series and related data. Any estimate which can be derived by subtraction of one published figure from another may have a standard error considerably in excess of 15 percent.

## NO. 1103. MANUFACTURES—SUMMARY: 1947 TO 1967

Prior to 1958, excludes Alaska and Hawaii. Except as noted, figures are estimates based on sample; see text, pp. 711-713. Covers all establishments employing 1 or more persons at anytime during year. See also *Historical Statistics, Colonial Times to 1957*, series P 1-8]

ITEM	1947 <sup>1</sup>	1950	1954 <sup>1</sup>	1958 <sup>1</sup>	1963 <sup>1</sup>	1965	1967 <sup>1</sup> (prel.)
Establishments, operating, total.....1,000..	241	260	237	2303	2312	(NA)	(NA)
With 20 or more employees.....1,000..	(NA)	(NA)	90	298	2102	(NA)	(NA)
Proprietors and firm members.....1,000..	189	(NA)	198	186	169	(NA)	(NA)
All employees: <sup>2</sup>							
Number, annual average <sup>4</sup> .....1,000..	14,294	14,770	16,126	16,025	16,961	18,047	19,398
Salaries and wages.....mil. dol.	39,696	47,893	65,977	78,326	99,904	114,122	131,876
Payroll per employee.....dol.	2,777	3,242	4,091	4,888	5,890	6,324	6,798
Production workers:							
Number, annual average.....1,000..	11,918	11,779	12,373	11,666	12,232	13,079	13,975
Man-hours.....mil.	24,316	23,717	24,341	22,672	24,500	26,570	27,925
Man-hours per worker.....	2,040	2,013	1,967	1,943	2,004	2,032	1,998
Wages.....mil. dol.	30,244	34,800	44,595	49,575	62,094	71,373	81,025
Wages per worker.....dol.	2,538	2,937	3,604	4,250	5,076	5,457	5,798
Wages per worker man-hour.....dol.	1.24	1.46	1.83	2.19	2.53	2.60	2.90
Value added by manufacture <sup>3</sup> .....mil. dol.	74,290	89,750	117,032	141,500	192,103	226,950	259,301
Per production worker.....dol.	6,233	7,619	9,459	12,129	15,705	17,352	18,555
Per dollar of wages.....dol.	2.46	2.59	2.62	2.85	3.09	3.18	3.20
Percent of shipments.....	(NA)	(NA)	(NA)	(NA)	45.8	46.1	46.6
Value of shipments <sup>6</sup> .....mil. dol.	(NA)	(NA)	(NA)	(NA)	419,171	492,009	555,863
Per production worker.....dol.	(NA)	(NA)	(NA)	(NA)	34,268	37,618	39,776
Value of inventories.....mil. dol.	26,123	30,473	40,341	49,353	59,913	68,009	82,767
Capital expenditures <sup>7</sup> .....mil. dol.	5,998	5,041	8,201	9,544	11,371	16,604	20,231

NA Not available. <sup>1</sup> Census data. <sup>2</sup> Includes administrative offices and auxiliary units.

<sup>3</sup> Includes data for employees of manufacturing establishments engaged in distribution and construction work. Beginning 1950, includes administrative offices, and units auxiliary to manufacturing.

<sup>4</sup> Data for all industries in 1950, and for most industries in 1954, are based on pay periods ending nearest 15th of March, May, August, and November. For 1947, and industries of a seasonal type in 1954, data represent average of 12 monthly figures.

<sup>5</sup> Unadjusted through 1950; thereafter, adjusted. For definitions, see footnote 2, table 1111.

<sup>6</sup> Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification.

<sup>7</sup> Beginning 1954, includes expenditures for plants under construction and not yet in operation.

Source: Dept. of Commerce, Bureau of the Census; 1947, 1954, 1958, and 1963 Censuses of Manufactures final reports, 1967 Census of Manufactures preliminary report, *General Statistics for Industry Groups and Industries*, and *Annual Survey of Manufactures*.

## No. 1104. INDUSTRIAL PRODUCTION—INDEXES, BY INDUSTRY: 1950 TO 1969

[1957-59=100. Quarterly data adjusted for seasonal variation. Based on 1957 Standard Industrial Classification. See *Historical Statistics, Colonial Times to 1957*, series P 11 and P 147-168, for indexes on 1947-49 base]

MAJOR INDUSTRY GROUP	1950	1955	1960	1964	1965	1966	1967	1968 (prel.)		1969 1st qtr. (prel.)
								Total	1st qtr.	
<b>Industrial production</b> .....	75	97	109	132	143	156	158	165	162	169
<b>Manufacturing</b> .....	76	97	109	133	145	159	160	167	164	171
<b>Durable manufactures</b> .....	74	102	109	134	148	165	164	170	169	174
Primary metals.....	100	118	101	129	138	143	133	137	145	146
Fabricated metal products.....	85	98	108	133	148	163	162	168	161	173
Machinery.....	73	97	111	141	161	184	183	184	185	194
Transportation equipment.....	56	102	108	131	149	167	166	180	181	178
Instruments and related products.....	57	89	117	136	151	177	185	184	184	190
Clay, glass, and stone products.....	81	96	108	126	134	141	139	146	126	141
Lumber and products.....	98	110	102	113	117	119	117	122	115	118
Furniture and fixtures.....	79	95	116	143	157	172	168	178	170	183
Miscellaneous manufactures.....	89	101	111	133	146	158	157	161	153	159
<b>Nondurable manufactures</b> .....	76	92	110	133	141	151	155	163	157	166
Textile mill products.....	96	99	105	123	135	143	142	151	152	152
Apparel products.....	82	92	112	134	145	150	148	150	152	152
Leather and products.....	91	98	100	103	108	112	106	111	116	112
Paper and products.....	74	93	108	133	142	152	154	164	160	177
Printing and publishing.....	79	93	110	123	130	142	149	150	144	152
Chemicals and products.....	55	83	117	160	173	193	204	222	214	234
Petroleum products.....	73	94	107	121	124	128	133	140	132	134
Rubber and plastics products.....	70	95	111	156	172	192	194	220	217	234
Food and beverages.....	83	94	107	121	124	129	133	136	125	131
Tobacco products.....	84	88	107	121	120	120	120	121	122	118
<b>Mining</b> .....	83	99	102	112	115	121	124	126	123	125
<b>Utilities</b> .....	50	80	116	151	161	174	185	202	200	221

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

## No. 1105. INDEX OF MANUFACTURING CAPACITY: 1950 TO 1969

[1957-59 output=100. Annual figures are averages of quarterly data. Represents estimated quantity of output, relative to output in 1957-59, which the current stock of plant and equipment in manufacturing industries was capable of producing]

YEAR	Capacity	YEAR	Capacity	YEAR AND QUARTER	Capacity
1950.....	84	1962.....	144	1968 (prel.).....	197
1955.....	108	1963.....	150	1st qtr. (prel.).....	193
1958.....	126	1964.....	156	2d qtr. (prel.).....	196
1959.....	130	1965.....	164	3d qtr. (prel.).....	198
1960.....	135	1966.....	175	4th qtr. (prel.).....	201
1961.....	140	1967.....	186	1969, 1st qtr. (prel.).....	204

## No. 1106. MANUFACTURING—RELATION OF OUTPUT TO CAPACITY, BY PROCESSING INDUSTRIES GROUPS: 1950 TO 1969

[Percent. Annual figures are averages of quarterly data. Primary processing industries comprise textiles, lumber, paper and pulp, petroleum, rubber, stone, clay, glass, primary metals, fabricated metals, and a portion of chemicals. Advanced processing industries comprise chemical products, food, beverages, tobacco, apparel, furniture, printing and publishing, leather, machinery, transportation equipment, instruments, ordnance, and miscellaneous industry groups]

YEAR	All manu- facturing	Primary processing industries	Advanced processing industries	YEAR AND QUARTER	All manu- facturing	Primary processing industries	Advanced processing industries
1950.....	90	95	87	1965.....	89	90	88
1955.....	90	93	88	1966.....	90	90	90
1958.....	74	75	74	1967.....	85	85	86
1959.....	82	82	81	1968 (prel.).....	84	86	84
1960.....	81	80	81	1st qtr. (prel.).....	85	86	84
1961.....	79	78	79	2d qtr. (prel.).....	85	86	84
1962.....	82	82	83	3d qtr. (prel.).....	84	85	84
1963.....	83	84	83	4th qtr. (prel.).....	84	86	83
1964.....	86	87	84	1969, 1st qtr. (prel.).....	84	86	82

Source of tables 1105 and 1106: Board of Governors of the Federal Reserve System; *Federal Reserve Bulletin*, July 1967. (Based on data from Federal Reserve Board, Dept. of Commerce, and McGraw-Hill Information Systems Company.)

## No. 1107. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS: 1954 TO 1968

[In billions of dollars, except ratios. Prior to 1960, excludes Alaska and Hawaii. Shipments and new orders for calendar year; unfiled orders and inventories as of December 31, unadjusted for seasonal variation. Data include manufacturing activities of all companies. See *Historical Statistics, Colonial Times to 1967*, series T 378-386, for related but not comparable data.]

ITEM	1954	1955	1958	1960	1963	1964	1965	1966	1967	1968
<b>Shipments</b> .....	<b>280.3</b>	<b>317.8</b>	<b>327.4</b>	<b>369.6</b>	<b>420.4</b>	<b>448.0</b>	<b>492.0</b>	<b>538.5</b>	<b>548.5</b>	<b>603.7</b>
Durable goods industries.....	141.9	168.9	162.9	189.8	219.0	235.6	266.6	295.6	299.7	331.0
Nondurable goods industries.....	138.3	148.9	164.5	179.7	201.4	212.4	225.5	242.9	248.9	272.8
<b>Inventories</b> .....	<b>41.8</b>	<b>45.2</b>	<b>50.0</b>	<b>53.5</b>	<b>59.9</b>	<b>63.2</b>	<b>68.0</b>	<b>77.9</b>	<b>82.6</b>	<b>88.2</b>
Durable goods industries.....	23.8	26.4	29.9	32.0	35.5	38.2	41.9	49.5	53.2	57.0
Nondurable goods industries.....	18.0	18.8	20.1	21.6	24.3	25.0	26.1	28.4	29.3	31.2
<b>Ratio of inventories to sales:</b> <sup>1</sup>										
All manufacturing.....	1.81	1.62	1.84	1.76	1.69	1.64	1.60	1.63	1.78	1.70
Durable goods.....	2.05	1.76	2.22	2.08	1.94	1.88	1.82	1.86	2.09	2.01
Nondurable goods.....	1.56	1.47	1.45	1.42	1.42	1.38	1.34	1.35	1.40	1.33
<b>Inventories by stages of fabrication:</b>										
All manufacturing.....	41.8	45.2	50.0	53.5	59.9	63.2	68.0	77.9	82.6	88.2
Materials and supplies.....	16.5	18.2	19.0	19.7	21.3	22.4	24.1	27.1	27.2	28.6
Work in process.....	12.1	13.2	15.0	15.5	18.1	19.5	21.7	25.9	28.8	30.8
Finished goods.....	13.3	13.8	16.1	18.3	20.4	21.3	22.3	24.9	26.6	28.9
Durable goods industries.....	23.8	26.4	29.9	32.0	35.5	38.2	41.9	49.5	53.2	57.0
Materials and supplies.....	8.1	9.4	10.1	10.4	11.1	12.0	13.4	15.6	15.7	16.8
Work in process.....	9.7	10.7	12.2	12.6	14.8	16.0	17.9	21.7	24.4	26.1
Finished goods.....	6.0	6.3	7.6	9.0	9.7	10.1	10.6	12.2	13.1	14.2
Nondurable goods industries.....	18.0	18.8	20.1	21.6	24.3	25.0	26.1	28.4	29.3	31.2
Materials and supplies.....	8.4	8.8	8.9	9.3	10.2	10.4	10.7	11.5	11.5	11.8
Work in process.....	2.3	2.5	2.7	2.8	3.3	3.4	3.7	4.2	4.4	4.8
Finished goods.....	7.3	7.5	8.5	9.4	10.8	11.2	11.6	12.8	13.5	14.7
<b>New orders</b> .....	<b>267.8</b>	<b>329.1</b>	<b>322.8</b>	<b>361.4</b>	<b>423.9</b>	<b>455.4</b>	<b>501.6</b>	<b>551.3</b>	<b>551.1</b>	<b>607.2</b>
Durable goods industries.....	128.9	179.4	158.0	182.7	222.3	243.1	275.8	308.5	302.3	334.4
Nondurable goods industries.....	138.8	149.6	164.8	178.7	201.6	212.3	225.8	242.7	248.9	272.7
<b>Unfiled orders</b> .....	<b>48.2</b>	<b>60.0</b>	<b>48.8</b>	<b>45.8</b>	<b>50.2</b>	<b>57.6</b>	<b>67.2</b>	<b>79.9</b>	<b>82.5</b>	<b>85.9</b>
Durable goods industries.....	45.2	56.4	45.7	43.2	47.3	54.8	64.0	76.9	79.5	82.9
Nondurable goods industries.....	3.0	3.7	3.1	2.6	2.9	2.8	3.1	3.0	3.0	3.0

<sup>1</sup> Ratios based on average inventories to average monthly sales.

Source: Dept. of Commerce, Bureau of the Census; *Manufacturers' Shipments, Inventories, and Orders: 1947-1963 Revised and 1961-1968*, Series M3-1, and *Current Industrial Reports*, Series M3-1.

## No. 1108. MANUFACTURERS' HORSEPOWER OF POWER EQUIPMENT: 1899 TO 1962

[In thousands, except aggregate per 100 workers. Prior to 1954, excludes Alaska and Hawaii. Aggregate represents unduplicated rating of total installed equipment; comprises horsepower of prime movers plus horsepower of electric motors driven by purchased electric energy. Prime movers are mechanical engines and turbines which originally convert fuels or force (as wind or falling water) into work and power.]

YEAR	Aggregate	PRIME MOVERS			ELECTRIC MOTORS			Aggregate per 100 production workers
		Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
1899.....	9,811	9,633	(NA)	(NA)	475	178	297	218
1904.....	13,033	12,605	(NA)	(NA)	1,517	428	1,089	252
1909.....	18,062	16,393	(NA)	(NA)	4,582	1,669	2,913	288
1914.....	21,565	17,858	(NA)	(NA)	8,392	3,707	4,684	326
1919.....	28,397	19,432	(NA)	(NA)	15,612	8,965	6,647	333
1925.....	34,359	19,243	(NA)	(NA)	25,092	15,116	9,976	437
1927.....	37,126	18,902	(NA)	(NA)	29,153	18,224	10,929	473
1929.....	41,122	19,328	(NA)	(NA)	33,844	21,794	12,050	491
1939 <sup>1</sup> .....	49,893	21,077	13,849	7,228	44,827	28,816	16,011	652
1954 <sup>2</sup> .....	108,100	35,763	21,036	14,727	91,505	72,337	19,168	958
1962.....	151,498	45,770	24,097	21,673	126,783	105,728	21,054	1,249

NA Not available.

<sup>1</sup> Includes revisions due primarily to differences in scope of the 1939 and 1954 censuses.

<sup>2</sup> Includes revised figures for Industry 3851, Ophthalmic goods.

Source: Dept. of Commerce, Bureau of the Census; *1968 Census of Manufactures*, Series MC63(1)-6.

## No. 1109. MANUFACTURES SUMMARY

[Data based upon the 1957 edition of the *Standard Industrial Classification Manual* as amended by the "Supplement shown in the 1960 and earlier editions of the *Statistical Abstract*;

	INDUSTRY GROUP	1958			1963			
		All employees		Value added by manufacture <sup>2</sup>	Establishments	All employees		Value added by manufacture <sup>2</sup>
		Number <sup>1</sup>	Pay-roll			Number <sup>1</sup>	Pay-roll	
		Mil. dol.	Mil. dol.		Mil. dol.	Mil. dol.		
1	All manufacturing establishments, incl. administrative and auxiliary units.....	1,000 16,025	Mil. dol. 78,238	Mil. dol. 141,611	311,921	1,000 16,961	Mil. dol. 99,904	Mil. dol. 192,103
2	Operating manufacturing establishments only.....	15,423	73,764	141,611	306,617	16,235	93,289	192,103
3	<b>Food and kindred products.....</b>	1,718	7,622	17,701	37,521	1,643	8,637	21,826
4	Meat products.....	312	1,467	2,502	5,300	300	1,641	2,883
5	Dairies.....	295	1,351	2,876	7,885	257	1,394	3,185
6	Canned and frozen foods.....	234	775	1,969	3,969	245	960	2,779
7	Grain mills.....	119	576	1,856	3,555	113	647	2,271
8	Bakery products.....	302	1,338	2,642	5,366	280	1,513	3,031
9	Sugar.....	33	162	383	164	32	189	591
10	Candy and related products.....	80	301	752	1,263	78	350	956
11	Beverages.....	207	1,044	2,856	5,018	205	1,225	3,725
12	Misc. food and kindred products.....	135	607	1,859	5,001	134	718	2,406
13	<b>Tobacco manufactures.....</b>	84	295	1,413	394	77	330	1,681
14	Cigarettes.....	34	142	1,059	14	36	183	1,310
15	Cigars.....	29	82	183	193	21	68	193
16	Chewing and smoking tobacco.....	6	24	86	51	4	18	74
17	Tobacco stemming and redrying.....	15	47	86	136	17	61	103
18	<b>Textile mill products.....</b>	903	2,943	4,870	7,104	863	3,385	6,123
19	Weaving mills, cotton.....	243	724	1,079	407	209	772	1,257
20	Weaving mills, synthetics.....	82	277	469	355	88	366	662
21	Weaving, finishing mills, wool.....	56	206	337	361	47	203	387
22	Narrow fabric mills.....	25	86	143	384	23	92	172
23	Knitting mills.....	215	653	1,111	2,848	220	787	1,395
24	Textile finishing, except wool.....	73	293	456	621	71	337	582
25	Floor covering mills.....	34	123	260	349	36	152	395
26	Yarn and thread mills.....	107	308	516	712	103	359	652
27	Misc. textile goods.....	69	272	499	1,067	66	317	620
28	<b>Apparel and related products.....</b>	1,181	3,587	6,001	28,457	1,280	4,423	7,861
29	Men's and boys' suits and coats.....	122	408	643	1,112	123	494	832
30	Men's and boys' furnishings.....	272	691	1,128	2,981	306	890	1,618
31	Men's and misses' outerwear.....	361	1,157	1,918	9,740	405	1,426	2,460
32	Women's and children's underwear.....	111	322	596	1,420	114	379	741
33	Millinery, hats, and caps.....	36	123	200	1,147	31	116	185
34	Children's outerwear.....	81	231	381	1,576	82	265	467
35	Fur goods.....	9	50	95	1,581	9	56	111
36	Misc. apparel.....	60	177	306	1,582	62	209	377
37	Fabricated textiles, n.e.c.....	129	427	732	7,308	148	579	1,071
38	<b>Lumber and wood products.....</b>	585	2,007	3,213	36,150	563	2,339	4,021
39	Logging camps and contractors.....	72	228	390	13,588	73	282	520
40	Sawmills and planing mills.....	279	870	1,345	13,372	243	936	1,573
41	Millwork and related products.....	135	572	926	4,970	147	727	1,240
42	Wooden containers.....	38	117	177	986	31	112	174
43	Misc. wood products.....	61	220	374	3,234	69	283	514
44	<b>Furniture and fixtures.....</b>	354	1,414	2,396	10,478	377	1,727	3,068
45	Household furniture.....	258	966	1,624	6,560	270	1,150	2,047
46	Office furniture.....	23	110	212	308	26	143	285
47	Public building furniture.....	16	69	113	429	17	83	142
48	Partitions and fixtures.....	38	187	301	2,107	45	262	433
49	Furniture and fixtures, n.e.c.....	19	82	146	1,074	18	89	160
50	<b>Paper and allied products.....</b>	551	2,759	5,669	5,713	588	3,538	7,396
51	Pulp mills.....	14	75	196	45	15	107	206
52	Paper mills, except building.....	131	741	1,543	325	130	878	1,857
53	Paperboard mills.....	57	322	840	271	63	429	1,186
54	Paper and paperboard products.....	151	705	1,413	2,495	167	917	1,982
55	Paperboard containers and boxes.....	181	835	1,502	2,494	201	1,107	1,941
56	Building paper and board mills.....	17	82	175	83	12	70	153

For footnotes, see pp. 720 and 721.

FOR INDUSTRY GROUPS: 1958, 1963, AND 1967

to the 1957 Edition" published by the Bureau of the Budget in 1963, and therefore not comparable with figures see text, p. 712. "N.e.c." means not elsewhere classified]

1963—Continued		1967 (prel.)								
Value of ship-ments <sup>3</sup>	End of year inven-tories	All employees		Production workers		Value added by manu-facture <sup>2</sup>	Value of ship-ments <sup>3</sup>	End of year inven-tories	Capital expendi-tures, new <sup>4</sup>	
		Num-ber <sup>1</sup>	Pay-roll	Num-ber <sup>1</sup>	Wages					
Mil. dol.	Mil. dol.	1,000	Mil. dol.	1,000	Mil. dol.	Mil. dol.	Mil. dol.	Mil. dol.	Mil. dol.	
420,528	59,913	19,398	131,876	13,975	81,025	259,301	555,863	82,767	20,231	1
420,528	59,913	18,570	123,256	13,975	81,025	259,301	555,863	82,767	20,231	2
68,466	6,761	1,654	10,012	1,118	5,988	26,352	82,935	7,527	1,564	3
16,807	508	305	1,910	244	1,398	3,414	20,776	705	195	4
11,200	389	238	1,448	109	606	3,517	12,880	487	157	5
7,300	1,816	263	1,241	230	956	3,627	9,258	2,099	235	6
8,161	722	109	734	76	460	2,704	9,604	712	170	7
5,656	192	269	1,672	180	887	3,476	6,492	199	155	8
2,214	403	30	207	24	158	646	2,239	377	61	9
2,158	355	82	425	68	304	1,184	2,630	373	60	10
6,898	1,263	221	1,539	115	736	4,848	9,195	1,513	340	11
8,072	1,023	137	842	92	483	2,937	9,881	1,062	191	12
4,520	2,407	75	377	65	306	2,011	4,957	2,389	53	13
2,655	1,227	37	219	33	188	1,615	3,036	1,423	32	14
358	42	19	73	17	61	199	374	67	5	15
140	61	4	22	3	14	89	156	39	2	16
1,367	1,077	15	63	12	43	108	1,391	360	14	17
15,741	2,567	931	4,394	831	3,548	8,003	19,767	3,088	710	18
3,104	626	204	943	190	836	1,603	3,336	646	168	19
1,722	303	108	529	97	445	888	2,303	386	92	20
1,011	187	42	221	37	170	418	1,085	177	30	21
349	56	26	127	23	100	222	455	68	15	22
3,326	506	241	1,016	214	795	1,887	4,472	683	133	23
1,400	159	72	400	60	303	688	1,705	178	47	24
1,144	205	42	222	36	162	570	1,703	200	40	25
2,093	278	110	508	110	432	953	2,616	330	135	26
1,682	248	77	428	64	305	774	2,092	321	50	27
17,097	2,165	1,363	5,475	1,202	4,250	9,693	20,750	2,598	198	28
1,526	289	139	657	123	519	1,102	2,021	342	16	29
3,598	578	338	1,168	305	962	2,005	4,612	732	52	30
6,380	445	425	1,774	373	1,340	3,137	6,201	553	45	31
1,570	242	111	403	100	323	811	1,745	279	19	32
334	30	20	82	18	59	127	262	30	2	33
1,026	125	81	206	72	232	527	1,113	120	8	34
334	43	10	70	9	52	130	382	42	1	35
822	95	70	279	60	208	488	1,078	128	11	36
2,557	311	169	746	142	555	1,357	3,246	372	44	37
9,200	1,353	563	2,760	500	2,255	4,828	10,375	1,368	394	38
1,155	100	72	329	68	301	735	1,411	79	90	39
3,598	642	237	1,037	205	876	1,744	3,338	589	151	40
3,014	388	152	873	128	674	1,427	3,531	443	89	41
402	61	34	147	31	120	255	574	72	18	42
1,033	163	78	374	68	284	607	1,421	185	46	43
5,884	827	429	2,222	357	1,622	4,041	7,634	1,091	197	44
4,035	537	303	1,457	259	1,090	2,640	5,148	703	114	45
491	84	30	224	29	159	444	743	122	37	46
269	55	19	104	14	73	191	354	70	8	47
767	103	51	328	40	229	569	996	127	28	48
321	49	20	109	15	71	206	393	69	10	49
16,357	1,759	643	4,440	506	3,290	9,676	20,927	2,231	1,426	50
609	65	15	129	12	96	370	770	96	106	51
3,225	430	138	1,102	110	836	2,316	4,815	554	507	52
2,316	160	64	513	51	390	1,438	2,807	185	405	53
4,686	529	190	1,197	146	824	2,814	6,176	695	170	54
4,639	559	224	1,416	177	987	2,554	6,013	669	218	55
282	26	12	83	10	67	184	346	32	20	56